

Science Museum Library and Archives
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ICL

The ICL collection once belonged to the ICL Company
Museum & relates to early computing

Compiled by Hamish Carmichael (2002-2009)

ICL

Formerly held in the Company Museum.
Now in the custody of the Science Museum Library

The ICL Archive

The nucleus of the collection was the former ICL Company Museum in Stevenage. There a mixture of material was accumulated under the intelligent and far-sighted guidance of the late Bertie Bellringer and Gordon Collinson. This originally covered the products and history of the British Tabulating Machine Co Ltd, which began in 1904 with the formulation of a consortium to promote the sale and use in Great Britain of punched card machines imported from the United States.

In 1958/59 BTM merged with Powers-Samas to form ICT - International Computers and Tabulators. The Powers Company, also dated back to the beginning of the 20th century, when a different family of wholly mechanical punched card machines was developed by an engineer called James Powers. In the ensuing years the company museum added a representative assortment of Powers equipment to the collection.

Both BTM and Powers had made first steps into the computer business, and during the 1960s most of the other British computer manufacturers formed alliances with either ICT or English Electric. The museum thereby acquired a rather random collection of material from many other manufacturers. Then in 1968/69 the two major groups were merged into a single entity - ICL - and from that time on the company's hardware and software products are well documented.

Material was at various stages deposited with the museum from the Customer Engineering Training School in Letchworth, from the Head Office Library and Information Service in Putney, from the Education Division Library at Beaumont College, and elsewhere. The late John Pinkerton handed over much fascinating material from the files which he had meticulously maintained over many years. Gaps have also been filled from time to time by a number of donations from other individuals.

During the late 1980s the museum building in Stevenage had to be demolished, and the collection had largely to be dispersed. Wherever possible machines, with relevant documentation, were returned to civic museums close to where they had been originally built, in Manchester,

Croydon, and Letchworth, with a lot of punched card equipment being donated to the Science Museum. The main body of the documentation, however, was kept together, and lodged for safe keeping with the Science Museum Library. It now represents a pretty good record of the history of the last major British computer manufacturer, and a probably unrivalled record of the preceding history of the punched card industry.

The collection has now been catalogued by the Computer Conservation Society on behalf of the Science Museum Library.

Readers who wish to consult the collection should address requests for access to:

The Head of Library
Science Museum Swindon
Wroughton
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SN4 9NS

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Archivist
The Computer Conservation Society
February 2009
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30	1972-1982	1500 series
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33	1974-1983	2903 range: 2903, 2904, 2905; ME29
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37	1971-1985	OEM Equipment
38	1946-1973	Early Computers
39	1981-1987	Distributed and Personal Systems: DRS, 8801, PC, PERQ, OPD
40	1950-1971	Miscellaneous Engineering Documentation
41	1970-1984	Engineering Standards & Design Info
42	1973-1985	Range-independent software
43	1962-1985	Books, conference proceedings, reports etc
44	1919-1970	Technical and Operator's Manuals for Punched Card Equipment
45	1940-1973	Boxes containing further Manuals for Punched Card Equipment
46	c1920-c1970	Drawings of parts and assemblies used on Punched Card and Early Computer Equipment

47		Number Not Used
48		Problem Investigation Archive
49		Product Descriptions and other marketing documentation - Series 39 and subsequent ranges.
50		Manufacturers not connected to the ICL family
51		Particular Installations
52		Miscellaneous
53		The Beeching Archive
54		Sales Proposals, Invitations to Tender, and Responses to Tenders

1. J.M.M.Pinkerton files

1/1	1970 Jan	1 Launching Conference 1970. Intention to develop the new range - later 2900 series
1/2	1970 Feb-74 Nov	2 PPO (NRO). Progress reports. New Range - later 2900 series
1/3	1970 Jan-74 Dec	3 New Range (NR) marketing 1
1/4	1970 Feb-74 Feb	4 Computer market
1/5	1965 Jun-71 Oct	5 Computer performance - Evaluation general (EG) (part II)
1/6	1968 May-70 Dec	6 Consultants HOW-M
1/7	1964 Jan-74 Jul	7 Data capture
1/8	1970 Jul-75 Jan	8 NR acceptance testing
1/9	1968 Jun-72 Nov	9 Basic language
1/10	1972 Feb-73 Feb	10 New Range (NR) test & diagnostic programs

1/11	1968-75 Nov	13 System availability
1/12	1972 Feb-73 Mar	15 Product Planning Organisation - management
1/13	1967 Jul-68 Sep	16 Elliotts
1/14	1965 Jan-70 Jun	17 Document reader
1/15	1969 Feb-69 Mar	18 New Range (NR) organisation. 1
1/16	1970 Aug-75 Dec	19 New Range peripherals
1/17	1967 Mar-75 Jun	20 Government departments (incl Min of Defence, Dept of Industry]
1/18	1969 Sep-75 Feb	21 Computer performance (part IV). Hardware & software monitoring techniques (HMST)
1/19	1965 Jan-70 Apr	22 Giant computer
1/20	1959 Jan-60 Dec	24 Magnetic tape (LEO II)
1/21	1959 Jan-60 Dec	25 C16. Magnetic tape. LEO II
1/22	1954 May-58 Dec	26 Document reader (J Lyons)
1/23	1961 Jan-62 Dec	27 C14. Minutes - management meetings LEO II
1/24	1963 May-64 Dec	28 English Electric LEO Computers Ltd (EELM). Management meetings (minutes)
1/25	1964 Jan-64 Apr	29 Standard interface
1/26	1966 Jan-67 Oct	30 EELM Management meetings - minutes
1/27	1964 Dec-65 Feb	32 Meetings. Mr T. R.Thompson

1/28	1947 Aug-58 Dec	33 LEO. Magnetic Tape
1/29	1963 Jun-65 Dec	34 LEO. Magnetic Tape
1/30	1963 Jun-65 Dec	34 LEO. Magnetic Tape
1/31	1961 Jan-61 Dec	F10 Document Reader
1/32	1959 Aug-63 Aug	Magnetic tape development for LEO III
1/33	1963 Feb-63 Apr	35 KDF9: English Electric & LEO merger
1/34	1955 Aug-64 Feb	38 Delay tubes and delay lines
1/35	1962 Jan-62 Dec	39 Document reader
1/36	1965 Jan-65 Dec	40 English Electric-LEO-Marconi: management meetings - minutes
1/37	1963 Jan-64 Nov	41 Document reader
1/38	1959 Jan-60 Dec	42 Document reader
1/39	1986 Mar	Annotated list of ICL historic files and documents (ex-JMMP), compiled by Dr Pinkerton

Office automation and word processing

1/40	1977 Mar-81 Feb	Word processing file
1/41	1980 Jan-80 [Apr?]	Office automation file, O/A numbered documents 1-26
1/42	1979 Feb-81 May	Office automation file, documents only
1/43	1980 Feb-80 Jun	ICL Marketing Division report to the Development Committee of a working party in office automation, DC/41/C, with selected extracts and appendices
1/44	1980 Feb-80	ICL Marketing Division report to

	Jun	the Development Committee of a working party in office automation, DC/41/C, with selected
1/45	1978 Aug-80 Jun	Office automation: Working party, pt 1 - general correspondence
1/46	1980 Jul-83	Office automation: Working party, pt 2 - day file

Papers related to government departments

1/47	1958 Jun-64 Dec	Ministry of Pensions & National Insurance
1/48	1968 Nov-74 Aug	Ministry of Defence (MIRFAC language)
1/49	1966 Apr-83 Sep	Department of Industry (formerly Ministry of Technology, later Dept of Trade & Industry). CGD(4)
1/50	1965 Mar-75 Nov	National Research Development Corporation
1/51	1975	Central Computer Agency
1/52	1965 Sept	ICT Ltd: Large Computer Project - presentation to the Government
1/53	1968 Dec	ICL Research & Development report [submitted to Ministry of Technology]
1/54	1967 Jun	Report of the working party on a new range of computing systems [submitted to Ministry of Technology]
1/55	1966 Mar	English Electric-LEO-Marconi Computers Ltd. Proposal for a 4/90 computer [submitted to Ministry of Technology]
1/56	1973 Jan-75 Jan	Post Office
1/57	1974 Jan	Post Office Telecommunications: Experimental Packet Switched Service [PO/EPSS]

1/58	1974 Sep-79 Apr	Post Office Telecommunications: Experimental Packet Switched Service [PO/EPSS] part II
1/59	1975 Jan-81 Jan	Post Office. CGD/6
1/60	1975 Sep-83 Aug	Post Office Viewdata
1/61	1980 Aug-83 Nov	British Telecom. CGD/7
	<u>New Range</u>	
1/62	1969 Jul-81 Jul	New Range General. NR/1
1/62	1970 Aug-75 Dec	NR Processors. NR/2
1/64	1972 Jan-73 Mar	NWX 30-39. NR/3
1/65	1974 Aug-80 Dec	New Range Performance. NR/4
1/66	1975 May-77 May	New Range performance monitoring. WP correspondence. NR/5
1/67	1972 Sep-80 Jan	Strategic Marketing. NR/7
1/68	1971 Nov-75 Feb	New Range maintenance (2900 Series)
	<u>Miscellaneous</u>	
1/69	1973 May-76 Nov	Statement of Marketing Requirements (SMRs)
1/70	1975 Oct-78 May	Statement of Marketing Requirements (SMRs)
1/71	1980 Nov-81 Jun	RICL/1. Technology working party
1/72	1971 Jan-81 Mar	RICL/2. RADC
1/73	1974 Jan-76 Jan	RICL/3. Variable Computer System (VCS)

1/74	1973 Dec-76 Aug	RICL/4. Distributed Array Processor (DAP 1)
1/75	1976 Dec-83 Aug	RICL/5. DAP 2
1/76	1972 Dec-81 Dec	ESR 1. External Support for Research - EEC
1/77	1976 May-83 Sep	ESR 2. External Support for Research - Research at Universities and elsewhere
1/78	1977 Jun-81 Jan	ESR 3. External Support for Research - Science Research Council
1/79	1965 Aug-83 Aug	ESR 4. External Support for Research - NPL
1/80	1973 Jun-73 Sep	ESR 5. External Support for Research - European Informatics [formerly COST 11]
1/81	1975 May-77 Jun	RDERC 1. Research & Development
1/82	1980 Dec-84 May	Tokens & Transactions Control Consortium (TTCC)
1/83	1982 Jul-84 Mar	TTCC Reports from NPL. NRDC/3
1/84	1969 Aug-74 Apr	MVW Manual 1. [File documents work on New Range 2900 series by Prof Maurice Wilkes as consultant to ICL.]
1/85	1974 May-80 Aug	MVW Manual 2.
1/86	1976 Jul	ICL Standards Directory. Issue 1
1/87	1978 Feb	ICL Standards Directory. Issue 2.
1/88	1976 Mar-77 Nov	Non-impact printers
1/89	1967 Oct-76 Jan	CODIL (DORIS) language
1/90	1969 Jul-73 Feb	Software
1/91	1971 Aug-82 Sep	Interfaces

1/92	1965 Oct-75 Sep	Systems & Computers Evaluation & Review Technique (SCERT)
1/93	1974 Mar-75 Dec	Computer networks
1/94	1966 Jun-74 Oct	Data networks
1/95	1967 Dec-77 Mar	PL/1

2. International Computers & Tabulators Ltd (ICT)
Special Projects Department (SPD) - Reports

2/1	1962 Feb	No.49: A proposed design for a system to control a 3,500 ton extrusion press.
2/2	1963 Dec	No. SPDTH/110/1: Speed control equipment for a 3,500 ton extrusion press; technical handbook part 1. (revision of 1963 May version)
2/3	1963 Apr	No. SPDTH/110/1: Speed control equipment for a 3,500 ton extrusion press; technical handbook part 2. Circuit diagrams
2/4	1962 Nov	No. SPDTH/122/1: Data distribution equipment for Rootes (Scotland) Ltd. Technical handbook
2/5	1963 Jan	No. SPDTH/070/1: Technical handbook for the telephone charge recording system for the Mayfair Hotel
2/6	1963 Apr	No. SPDTH/095/1: Technical handbook for a Hotel Data Collection System
2/7	1963 May	No. SPDTH/132/1: Manual for United Kingdom Atomic Energy Authority, Windscale, data logging system punch output
2/8	[1962 May?]	No. SPDTH/101/C: Modified gang punch 582/5/31 maintenance handbook; extracts from the manual

on the Fast Card Punch and Control Unit designed for A.E.R.E. Harwell

ICT Reports

2/9	1966 Jun	Interim report: work study exercise on Goods Acceptance Dept. at 1/3 Factory Letchworth
2/10	1964 Jun	Report on ICT educational policy
2/11	[1964 Feb?]	Feasibility report for a punched card application at Mothercare

Ferranti Packard FP 6000 Computer System

2/12	1963 Nov	Report on the FP 6000 for the Reactor Centrum Nederland
2/13	1963 Nov	Report on the FP 6000 proposed for the Royal Aircraft Establishment, Farnborough
2/14	1963 Nov	Report on the application of an FP 6000 computer system for recording and treatment of nuclear data at CERN
2/15	1964 Jan	FP 6000 Technical Report: Aeroplane and Armament Experimental Establishment, Boscombe Down
2/16	1964 Jan	FP 6000 Technical Report: G.E.C. Engineering Co Ltd, Erith

3. Illustrated Parts Lists

3/1	1963-64	Index; numerical list with two subject lists of 1963 Jan and 1964 May [1-ring binder]
3/2	1961 Apr	ICT No 1: Storage Device
3/3	1962 Apr	ICT No 2: Carriage Universal Drive
3/4	1949 May	BTM P3: Type 25/0 Program Board Punch (and with Ducol Operation)
3/5	1949 Apr	ICT No 3: Type 25/0 Program Board Punch (and with Ducol Operation)

3/6	1949 Apr	ICT No 4: Type 123/0 Programme Board Verifier and Type 123/0 or 125/0 Programme Board Verifier with Ducol Operation
3/7	1961 Apr	ICT No 5: Semi Auto Bill Feed Carriage Model 15
3/8	1950 Apr	ICT No 6: Junior Rolling Total Drive
3/9	1952 Feb	ICT No 7: Platen Drive Unit
3/10	1952 Jul	ICT No 8: Alphabetical Unit Assembly
3/11	1958 Jul	BTM No 9: Type 31 Keystor Punch
3/12	1953 Mar	ICT No 10: Type 708/0 Plate Selecting Tabulator (Adrema)
3/13	1961 Nov	ICT No 11: Lower and Upper Counter
3/14	1953 May	ICT No 12: Type 302 Horizontal Sorter (80 column)
3/15	1959 Jan	ICT No 13: Type 302/4 Sorter Counter (80 column)
3/16	1959 Sep	ICT No 14: Card Stacker Assembly (standard)
3/17	1953 Apr	BTM No 15: Type 103 Mechanical Verifier 80 col
3/18	1960 Jun	ICT No 16: Double Alpha Type Unit Assembly 44 Wheel (R.A.F. machines)
3/19	1961 Nov	ICT No 17: Universal Print Magnet Unit
3/20	1961 Nov	ICT No 18: Type 129 Programme Board Verifier
3/21	1955 Feb	BTM No 19: Types 365 & 366 80 and 38 column Collators
3/22	1960 Oct	ICT No 19: Type 365 Collator
3/23	1971 Apr	ICL No 19: Type 365 Collator

3/24	1960 Nov	ICT No 20: Type 202/0 High Speed Reproducer for 38 and 80 column
3/25	1959 Aug	ICT No 20A: Fitting of 27 position mark sensing - double punch blank column detection and offset stacking to the Type 202 High Speed Reproducer
3/26	1963 Apr	ICT No 21: Type 850 to 858 Senior and Junior Tabulators. Senior C.R.S. Feed Assembly
3/27	1954 Aug	BTM No 21: Senior C.R.S. 80 column feed 910171
3/28	1950 Nov	BTM No 22: Universal Type Unit
3/29	1950 Nov	ICT No 22: Universal Type Unit 901792
3/30	1954 May	ICT No 23: Multi-Read Feed
3/31	1961 Jan	ICT No 24: Type 234 Gang Punch
3/32	1963 Apr	ICT No 25: Type 1 & 2 Series Mechanical Punches and Type 100 & 101 Series Mechanical Verifiers
3/33	1956 May	BTM No 26: Type 413 Wire Interpreter
3/34	1961 Nov	ICT No 27: Type 309/310 High Speed Sorter
3/35	1955 Nov	BTM No 28: Standard Carriage with quick insert device
3/36	1961 Nov	ICT No 29: Type 237 pre-reading gang punch
3/37	1961 Nov	ICT No 30: Type 331 non-printing card-counting machine
3/38	1959 Jul	ICT No 31: Type 700 Balancing Tabulator
3/39	1960 Mar	ICT No 32: Type 414 Transfer Interpreter
3/40	1962 Jun	ICT No 33: Type 504/0 Multiplier

3/41	1960 Nov	ICT No 34: Type 901 Tabulator, Section C - base assemblies
3/42	1960 Nov	ICT No 34: Type 901 Tabulator, Sections D, E & F
3/43	1960 Nov	ICT No 34: Type 901 Tabulator, Sections G, H, J, K & M
3/44	1960 Nov	ICT No 34: Type 901 Tabulator, Additional & Alternative Units, Sections R & V
3/45	1963 Apr	ICT No 35: Type 32 Automatic Punch
3/46	1957 Nov	BTM No 36: Key unit assemblies
3/47	1957 Sep	ICT No 37: Type 238/0 Gang Punch
3/48	1954 Sep	BTM No 38: Type 234 Gang Punch
3/49	1957 Dec	ICT No 38: Type 239 Gang Punch
3/50	1963 Jun	ICT No 38: Type 239/0 & 239/2 Gang Punches
3/51	1958 Feb	BTM No 39: Types 418 & 419 Wire Interpreters
3/52	1958 May	BTM No 40: Type 240/0 Gang Punch with advanced brush station
3/53	1958 Jun	BTM No 41: Horizontal Sorter, Group selection with Balance card rejection, standard and positive
3/54	1958 Oct	ICT No 42: Type 588 input and output tabulator for type 1201 computer
3/55	1959 Jan	ICT No 42A: Type 588 input and output tabulator for type 1201 computer, additional & alternative units
3/56	1959 Apr	ICT No 43: Type 206 end printing reproducer
3/57	1959 Jul	ICT No 44: Type 906 tabulator
3/58	1960 May	ICT No 45: Type 902 tabulator

3/59	1959 Oct	ICT No 46: Type 915 tabulator
3/60	1963 Apr	ICT No 46: Type 915 tabulator
3/61	1960 Jan	ICT No 47: Upper counter variations (for junior and C.R.S. tabulators)
3/62	1960 May	ICT No 48 : Type 424 multi-zone interpreter
3/63	1963 Apr	ICT No 48: Type 424/0 interpreter, alpha multi-zone
3/64	1960 Mar	ICT No 49: Alphabetical typewriter key-boxes
3/65	1960 Jun	ICT No 50: Platens and paper plates
3/66	1961 Jul	ICT No 51: Type 1037 card-controlled tape punch
3/67	1962 Jan	ICT No 52: Type 203/0 high speed reproducer
3/68	1971 Jun	ICL No 52: 203 and 208 reproducers
3/69	1962 Feb	ICT No 53: Type 528/6 and 528/8 gang punches
3/70	1963 Jan	ICT No 54: Type 313/0 high speed sorter, 80 column, 750 cpm
3/71	1963 Jan	ICT No 54: 313 sorter
3/72	1962 Apr	ICT No 55: Type 665 high speed printer
3/73	1962 Apr	ICT No 56: Types 590 & 593 serial card reader [2 differing copies]
3/74	1962 Aug	ICT No 57: Types 582/3, 582/4 & 582/5 gang punch outputs
3/75	1962 Sep	ICT No 58: Type 1036/2 and /9 tape-controlled card punch with gang punch attachment
3/76	1962 Oct	ICT No 59: Type 589/0 tabulator, feed input and printing output

3/77	1964 Apr	ICT No 60: Type 660/0 print output for 1301 computer; type 660/1 print output for 1300 computer
3/78	1962 Nov	ICT No 60: Type 660 print output for 1301 computer
3/79	1962 Oct	ICT No 61: Type 29/0 programme board punch
3/80	1965 Jul	ICT No 62: Type 1000 card reader
3/81	1965 Jul	ICT No 63: Type 30 programme board punch with gang punch attachment; type 1039 tape-to-card punch
3/82	1963 Apr	ICT No 64: Type 902 tabulator automatic document feed Mk II
3/83	1963 Jun	ICT No 65: Type 600/0 gang punch
3/84	1963 Jun	ICT No 66: New style keyboards and key units
3/85	1965 Mar-1966 May	ICT No 67: Type 314 sorter [two editions in one volume]
3/86	1965 Nov	ICT No 68: Type 36 programme board punch
3/87	1966 Jan	ICT No 69: Type 319 sorter
3/88	1950 Aug	BTM. Alphabetical interpreter no 552
3/89	1964 Feb	ICT. Type 596 card reader [with erratum and amendments sheet of 1964 Nov]
3/90	1966 Feb	No A.V.I.: Types 144/1, 144/3, 145/0 and 145/1 automatic verifiers, 65 column, with two supplements
3/91	1972 Dec	ICL 171 Verifier from serial number 3000

4. 1963-1981 Miscellaneous Technical Papers (list available)

5. Reports

English Electric Computers

- | | | |
|-----|----------|---|
| 5/1 | 1967 Jul | No KLDn 063: Optical Character Recognition Report |
| 5/2 | 1968 Jul | No K/GDy 168: O.C.R. (Handprinting) Review |

Marconi-Elliott Computing Systems Ltd, Computing Research Laboratory

- | | | |
|-----|----------|--|
| 5/3 | 1969 Jul | Ministry of Technology Advanced Computer Technology Project. High Integrity Computing Systems. Contract no KJ/5G/101 |
|-----|----------|--|

Loughborough University of Technology, Department of Ergonomics & Cybernetics. Human Sciences and Advanced Technology

- | | | |
|-----|----------|--|
| 5/4 | 1972 Jun | No Luterg 67: An Ergonomic Survey of Computer Operation |
| 5/5 | 1972 Jul | A technical note on the implementation of the recommendations in Luterg 67 |

ICL Customer Engineering Services Organisation

- | | | |
|-----|----------|-----------------------------------|
| 5/6 | 1972 Feb | New Range Strategic working party |
|-----|----------|-----------------------------------|

ICL New Projects Engineering

- | | | |
|-----|----------|---|
| 5/7 | 1972 Dec | Repair strategy. Engineering activity EA5 |
|-----|----------|---|

6. 1950s LEO

65 Technical Drawings and two patent applications with drawings attached

7. ICL Company Announcements

- | | | |
|-----|--------------------|-----------------------------------|
| 7/1 | 1968 Jul-80
Nov | Nos 1 - 600 |
| 7/2 | 1980 Dec-86
Dec | Nos 601 - 786
Nos 84/1 - 86/54 |

8. Photographs

This is a summary of the collection of

photographs. For further details see the separate catalogue

Powers Samas [7 boxes]

<i>8/1/1</i>		<i>Tabulators [Power Tabulators - Box 1]</i>
<i>Box 1</i>	<i>[Serial Number]</i>	<i>[Size: Date: Caption]</i>
8/1/1/1	1	125 x 170 mm: ICL Prototype 80 col Tabulator and Summary Punch. This was an integrated machine which never made it into production. Front view, with covers fitted
"	2	125 x 170 mm: ICL Prototype 80 col Tabulator and Summary Punch
"	3	125 x 170 mm: ICL Prototype 80 col Tabulator and Summary Punch, oblique view of front and RHS
"	4	125 x 170 mm: ICL Prototype 80 col Tabulator and Summary Punch, oblique view of rear and RHS
"	5	125 x 170 mm: ICL Prototype 80 col Tabulator and Summary Punch. Copy of 4
"	6	125 x 170 mm: Integrated unit, oblique view of front and LHS, Marked "Prototype 80 col Tabulator and Summary Punch"
"	7	125 x 170 mm: Tabulator alone, view of LHS, with SCP separately mounted to the left of the tab on a test base
"	8	125 x 170 mm: Tabulator alone, view of LHS, with SCP separately mounted to the left of the tab on a test base
"	9	125 x 170 mm: Tabulator, oblique view of front and RHS, with separate SCP beyond
"	10	125 x 170 mm: Tabulator, oblique

		view of front and RHS, with separate SCP beyond
"	11	125 x 170 mm: Tabulator, oblique view of front and RHS, with separate SCP beyond
"	12	125 x 170 mm: Punch driving mechanism, without covers
"	13	125 x 170 mm: Punch driving mechanism, without covers, as 12
"	14	125 x 170 mm: Punch driving mechanism, without covers, another view
"	15	125 x 170 mm: Punch unit, unmounted
"	16	125 x 170 mm: Punch unit, unmounted, opposite view to 15
"	17	125 x 170 mm: Punch unit, unmounted, side view
"	18	125 x 170 mm: Tabulator, close-up of rear, showing bowden cable transfer from Numeric unit to SCP
"	19	Tabulator, close-up of rear, showing bowden cable transfer from Numeric unit to SCP
"	20	125 x 170 mm: Tabulator, close-up of front, showing bowden cable transfer of designating info from ATA to integrated SCP
"	21	125 x 170 mm: As 20, an even closer view
"	22	125 x 170 mm: Tabulator, oblique close-up of rear of main card track
8/1//1/2	23	110 x 150 mm: Tabulator - Grand Total from Variable Control, rear view of totalling mechanism in tabulator head

"	24	110 x 150 mm: Tabulator - Grand Total from Variable Control, showing control panel
8/1/1/3	25	110 x 150 mm: Tabulator - Unit Billing Device
"	26	110 x 150 mm: Tabulator - Unit Billing Device
"	27	110 x 150 mm: Tabulator - Unit Billing Device
"	28	110 x 150 mm: Tabulator - Unit Billing Device
8/1/1/4	29	115 x 155 mm: The printing/counting head of a restyled tabulator, no covers
"	30	120 x 165 mm: The chassis of a restyled summary punch, no covers
8/1/1/5	31	155 x 200 mm: Restyled tabulator, rear, with cover to the summary punch connection panel closed
"	32	155 x 200 mm: Restyled tabulator, side, with summary punch in the engaged position
"	33	155 x 200 mm: Restyled tabulator, close-up of winding handle that locked tab and SCP together
"	34	155 x 200 mm: Restyled tabulator, close-up of line adjuster control adjacent to platen
8/1/1/6	35	175 x 220 mm: Possibly the Maclure Multiplying Punch
8/1/1/7	36	170 x 220 mm: 22037: Powers 4/5 Tabulator - front view
"	37	170 x 220 mm: 22037: Powers 4/5 Tabulator - rear view
"	38	170 x 220 mm: 22037: Powers 4/5 Tabulator and SCP - side view

8/1/1/8	39	170 x 220 mm: 22037: Powers 3 Tabulator - front view
"	40	170 x 220 mm: 22037: Powers 3 Tabulator - front view
"	41	170 x 220 mm: 22037: Powers 3 Tabulator - rear view
8/1/1/9	42	170 x 220 mm: 22037: Type 817 Tabulator (40 column) - POWERS SAMAS, then ICT
8/1/1/10	43	170 x 220 mm: 22037: Powers One Tabulator - front view, with carrying handles fitted to base
"	44	170 x 220 mm: 22037: Powers One Tabulator - front view, with carrying handles fitted to base
"	45	170 x 220 mm: 22037: Powers One Tabulator - front view, with carrying handles fitted to base
"	46	170 x 220 mm: 22037: Powers One Tabulator - front view, without covers
"	47	170 x 220 mm: 22037: Powers One Tabulator - rear view, without covers
8/1/1/11	48	120 x 163 mm: Plug-in Connection Box, mounted in Model 3 Tabulator
"	49	120 x 163 mm: Plug-in Connection Box, with standard box for comparison
"	50	120 x 163 mm: Plug-in Connection Box magnet unit
"	51	120 x 163 mm: Plug-in Connection Box
"	52	120 x 163 mm: Plug-in Connection Box plug boards
"	53	120 x 163 mm: Plug-in Connection Box, with standard box for comparison, another view

8/1/1/12	54	150 x 198 mm: Connection Box Testing Feature
8/1/1/13	55	200 x 250 mm: Tabulator base
"	56	200 x 250 mm: Tabulator base
"	57	200 x 250 mm: Tabulator base
8/1/1/14	58	200 x 250 mm: Tabulator automatic totalling attachment
"	59	200 x 250 mm: Tabulator automatic totalling attachment
"	60	200 x 250 mm: Tabulator automatic totalling attachment
"	61	200 x 250 mm: Tabulator automatic totalling attachment
8/1/1/15	62	200 x 250 mm: Tabulator - side view of conn box and head
"	63	200 x 250 mm: Tabulator - side view of conn box and head
"	64	200 x 250 mm: Tabulator - side view of conn box and head
"	65	200 x 250 mm: Tabulator - side view of conn box and head
"	66	200 x 250 mm: Tabulator - side view of conn box and head
"	67	200 x 250 mm: Tabulator - side view of conn box and head
"	68	200 x 250 mm: Tabulator - side view of conn box and head
"	69	200 x 250 mm: Tabulator - side view of conn box and head
8/1/1/16	70	110 x 160 mm: Tabulator - various components and sub-assemblies
"	71	110 x 160 mm: Tabulator - various components and sub-assemblies
"	72	110 x 160 mm: Tabulator - various

		components and sub-assemblies
"	73	110 x 160 mm: Tabulator - various components and sub-assemblies
"	74	110 x 160 mm: Tabulator - various components and sub-assemblies
"	75	110 x 160 mm: Tabulator - various components and sub-assemblies
"	76	110 x 160 mm: Tabulator - various components and sub-assemblies
"	77	110 x 160 mm: Tabulator - various components and sub-assemblies
"	78	110 x 160 mm: Tabulator - various components and sub-assemblies
"	79	110 x 160 mm: Tabulator - various components and sub-assemblies
"	80	110 x 160 mm: Tabulator - various components and sub-assemblies
"	81	110 x 160 mm: Tabulator - various components and sub-assemblies
"	82	110 x 160 mm: Tabulator - various components and sub-assemblies
"	83	110 x 160 mm: Tabulator - various components and sub-assemblies
8/1/1/17	84	120 x 165 mm: Tabulator - "Double Drive A/N" (A/N = alphanumeric)
"	85	120 x 165 mm: Tabulator - "Double Drive A/N"
"	86	120 x 165 mm: Tabulator - "Double Drive A/N"
8/1/1/18	87	150 x 200 mm: Tabulator - "8.L.S. Split-Platen Carriage"
"	88	150 x 200 mm: Tabulator - "8.L.S. Split-Platen Carriage"
"	89	150 x 200 mm: Tabulator - "8.L.S.

		Split-Platen Carriage"
	" 90	150 x 200 mm: Tabulator - "8.L.S. Split-Platen Carriage"
	" 91	150 x 200 mm: Tabulator - "8.L.S. Split-Platen Carriage"
	" 92	150 x 200 mm: Tabulator - "8.L.S. Split-Platen Carriage"
8/1/1/19	93	150 x 210 mm: Tabulator - "Multi P & S", close-up with parts identified by part nos
	" 94	150 x 210 mm: Tabulator - "Multi P & S", close-up with parts identified by part nos
	" 95	150 x 210 mm: Tabulator - "Multi P & S", close-up with parts identified by part nos
	" 96	150 x 210 mm: Tabulator - "Multi P & S", close-up with parts identified by part nos
8/1/1/20	97	180 x 240 mm: Tabulator - French paper-feed mechanism
	" 98	180 x 240 mm: Tabulator - French paper-feed mechanism
	" 99	180 x 240 mm: Tabulator - French paper-feed mechanism
	" 100	180 x 240 mm: Tabulator - French paper-feed mechanism
	" 101	180 x 240 mm: Tabulator - French paper-feed mechanism
8/1/1/21	102	160 x 260 mm: 2-stage sensing Tabulator - TDM
	" 103	160 x 260 mm: 2-stage sensing Tabulator - TDM
8/1/1/22	104	120 x 165 mm: Plugboard Tabulator
8/1/1/23	105	90 x 100 mm: Tabulator - Early type of Variable Control

8/1/1/24	106	90 x 100 mm: 1930s?: Tabulator - 1st Automatic Sub & Grand Total
"	107	90 x 100 mm: 1930s?: Tabulator - 1st Automatic Sub & Grand Total
8/1/1/25	108	105 x 150 mm: Tabulator - 2-stage sensing
8/1/1/26	109	110 x 160 mm: Tabulator - Details of base of "HANSA TAB"
"	110	110 x 160 mm: Tabulator - Details of base of "HANSA TAB"
8/1/1/27	111	110 x 150 mm: Tabulator - Paper- feed - "LONG FEED ONLY"
8/1/1/28	112	120 x 165 mm: Tabulator - "Ist Experimental Model of Automatic Sub & Grand Total Mechanism"
"	113	75 x 100 mm: Tabulator - "Ist Experimental Model of Automatic Sub & Grand Total Mechanism"
8/1/1/29	114	120 x 165 mm: Tabulator - 2-stage sensing
8/1/1/30	115	165 x 215 mm: Tabulator - double position Sheet Feed with variable controls
8/1/1/31	116	175 x 175 mm: Tabulator - model of an alphanumerical sector
8/1/1/32	117	120 x 140 mm: Tabulator - model of Automatic Sub and Grand Total Pin Box
8/1/1/33	118	125 x 195 mm: Tabulator - model of the first Paper Feed Control Device
8/1/1/34	119	150 x 200 mm: Tabulator with Triple Card Receiver for D.E.R. Ltd
"	120	150 x 200 mm: Tabulator with Triple Card Receiver for D.E.R. Ltd

	"	121	150 x 200 mm: Tabulator with Triple Card Receiver for D.E.R. Ltd
	"	122	150 x 200 mm: Tabulator with Triple Card Receiver for D.E.R. Ltd
	"	123	150 x 200 mm: Tabulator with Triple Card Receiver for D.E.R. Ltd
	"	124	150 x 200 mm: Tabulator with Triple Card Receiver for D.E.R. Ltd
8/1/1/35		125	120 x 160 mm: Tabulator - front view of head of a 5-unit tabulator
	"	126	120 x 160 mm: Tabulator - rear view of head of a 5-unit tabulator
8/1/1/36		127	200 X 250 mm: Tabulator - side view of base
8/1/1/37		128	205 x 255 mm: Tabulator with Independent de-latching and Balance Card Punching Card Feed Control
	"	129	205 x 255 mm: Tabulator with Independent de-latching and Balance Card Punching Card Feed Control
8/1/1/38		130	205 x 255 mm: Tabulator with Split Platen Carriage
8/1/1/39		131	200 x 250 mm: Powers-Four Tabulator with B.C.P.
8/1/1/40		132	200 x 250 mm: Tabulator with Long Feed Slow Action
8/1/1/41		133	210 x 260 mm: Tabulator
	"	134	210 x 260 mm: Tabulator
	"	135	210 x 260 mm: Tabulator
8/1/1/42		136	205 x 255 mm: 1935: Tabulator with 40/90 Designation Indicator

8/1/1/43	137	205 x 255 mm: 1935: Summary Card Punch with Independent delatching and card feed control
8/1/1/44	138	205 x 255 mm: 1935: Powers Four tabulator - SCP attachment
8/1/1/45	139	205 x 255 mm: 1935: Tabulator - Subtraction and Grand Total Units
8/1/1/46	140	205 x 255 mm: 1935: Tabulator - Platen-type Long Feed
8/1/1/47	141	200 x 250 mm: Tabulator with Split Platen E.J. Carriage
8/1/1/48	142	180 x 245 mm: Tabulator
"	143	180 x 245 mm: Tabulator
8/1/1/49	144	210 x 240 mm: Tabulator
8/1/1/50	145	210 x 260 mm: Tabulator with special paper feed
8/1/1/51	146	210 x 260 mm: Tabulator - close-up of print control
8/1/1/52	147	165 x 210 mm: Unidentified machine with unconventional conn box. Box reads only 13 columns from middle of card. Unconventional head instead of normal stop basket and counter units
"	148	165 x 210 mm: U/I m/c. rear view of con box
"	149	165 x 210 mm: U/I m/c. rear view of con box
"	150	165 x 210 mm: Oblique view of similar mechanism mounted in a much older machine
"	151	165 x 210 mm: Oblique view of similar mechanism mounted in a much older machine
"	152	165 x 210 mm: Dismantled

components on a bench

8/1/1/53	153	65 x 95 mm: Tabulator - very old type with 7 units
"	154	65 x 95 mm: Tabulator - very old type with 7 units
"	155	75 x 130 mm: Unidentified tabulator with roll-feed paper; no covers
"	156	85 x 115 mm: Unidentified tabulator with 6 units
"	157	75 x 130 mm: Unidentified tabulator - rear view
"	158	75 x 130 mm: Tabulator - hand-operated paper feed - no covers
"	159	85 x 115 mm: Unidentified tabulator with roll-feed paper - no covers
"	160	75 x 130 mm: Unidentified tabulator - no covers
"	161	85 x 115 mm: Unidentified tabulator - side view of head
"	162	85 x 115 mm: Unidentified tabulator - side view of head
"	163	110 x 150 mm: Unidentified mechanism
"	164	110 x 150 mm: Unidentified mechanism
"	165	110 x 150 mm: Unidentified mechanism
"	166	110 x 150 mm: Unidentified mechanism
"	167	110 x 150 mm: 10-sector printing unit, 23 characters per sector
"	168	110 x 150 mm: Platen with two separate webs of roll-mounted

paper

- " 169 110 x 150 mm: Connection box - no covers, showing detail of wiring
- " 170 110 x 150 mm: E.J. handle for manual paper feed
- " 171 110 x 150 mm: Hand showing vernier adjustment at LH end of platen
- " 172 120 x 160 mm: 1920s?: Tabulator - head of very old 7-unit tab, with only unit 4 fitted
- " 173 120 x 160 mm: Tabulator - E.J. handle in pulled-down position
- " 174 120 x 160 mm: Vernier adjustment at LH end of platen
- " 175 120 x 160 mm: Tabulator - another view of 172
- " 176 120 x 160 mm: Possibly a census machine, with bowden cables from combs on three columns of a reading station to some unidentified counting mechanism
- " 177 120 x 160 mm: Tabulator - another view of 172
- " 178 120 x 160 mm: Unidentified mechanism
- " 179 120 x 160 mm: Unidentified paper feed mechanism
- " 180 120 x 160 mm: Tabulator - Line Adjuster at LH end of platen
- " 181 120 x 160 mm: Tabulator - E.J. end of early form of platen
- " 182 120 x 160 mm: Tabulator - platen and paper, showing early alpha
- " 183 120 x 160 mm: Tabulator - Line Adjuster at LH end of platen
- " 184 120 x 160 mm: Tabulator - a

complete platen

" 185 120 x 160 mm: Tabulator - as 181 - oblique view

" 186 120 x 160 mm: Tabulator - as 186, but with no visible printing

" 187 120 x 160 mm: Tabulator - eject end of card track

" 188 120 x 160 mm: Tabulator - a complete platen

" 189 120 x 160 mm: Tabulator - unidentified mechanism

" 190 120 x 160 mm: Tabulator - head and print controls of a 5-unit machine

" 191 120 x 160 mm: Tabulator - rear view of conn box and stop basket

" 192 120 x 160 mm: Tabulator - head of 7-unit tab, unit 1/2 printing alpha

" 193 120 x 160 mm: Tabulator - detail of print control mechanism

" 194 120 x 160 mm: Tabulator - unidentified mechanism

" 195 120 x 160 mm: Tabulator - as 192, showing external print control knobs

" 196 120 x 160 mm: Tabulator - rear view of conn box and print units

" 197 120 x 160 mm: Tabulator - unidentified mechanism

" 198 120 x 160 mm: Tabulator - rear view of a restyled tab, with covers

" 199 120 x 160 mm: Tabulator - rear view of head of an 8-unit tab

" 200 120 x 160 mm: Tabulator -

dismounted stop basket of the tab
in 199

" 201 120 x 160 mm: Tabulator - oblique
view of a large tab, with
experimental Long Feed linkage
outside the covers of the head

" 202 90 x 120 mm: Unidentified
tabulator, perhaps same one as in
161/162

" 203 120 x 160 mm: Side view of
linkages between Tabulator and SCP

" 204 120 x 160 mm: Unidentified
mechanism

" 205 110 x 155 mm: 3-unit tabulator -
front view of head

" 206 110 x 155 mm: Tabulator - side
view of 205

" 207 110 x 155 mm: Tabulator - similar
paper tray mech. on a 21-col tab

" 208 110 x 155 mm: Tabulator - similar
paper tray mech. on a 5-unit tab

" 209 110 x 155 mm: Tabulator - oblique
view from above of 205

" 210 110 x 155 mm: Tabulator - oblique
view from right front

" 211 110 x 155 mm: Tabulator - oblique
view from left front

" 212 110 x 155 mm: A single numeric
printing sector

" 213 110 x 155 mm: Frame of a printing
unit

" 214 110 x 155 mm: Rear view of a
complete platen

" 215 110 x 155 mm: 10-sector printing
unit, 23 characters per sector

- " 216 110 x 155 mm: 1930s?: Side view of a complete tabulator, with no covers
- " 217 110 x 155 mm: A unit of 10 adding/subtracting sub-total gears
- " 218 110 x 155 mm: Unidentified mechanism, mounted on a base-plate
- " 219 180 x 240 mm: 1930s: Front view of head and print controls of a 5-unit tab
- " 220 170 x 215 mm: Detail of mechanism, rear of picture marked 'Non-Add Gear'
- " 221 170 x 215 mm: Detail of end of counter units
- " 222 165 x 220 mm: Front view of an 8-unit tabulator, with no covers. On reading station, columns 1-30 are linked by bowden cable to a unit on a parallel card track, perhaps for transferring designation information into summary cards
- " 223 165 x 220 mm: Unidentified tabulator, with no covers, view of LHS
- " 224 165 x 220 mm: Unidentified tabulator, with no covers, view of RHS
- " 225 160 x 240 mm: 2 pictures of counting mechanism, sellotaped together
- " 226 160 x 240 mm: 2 pictures of counting and printing mechanisms
- " 227 150 x 215 mm: Frame of head of a restyled tabulator
- " 228 150 x 215 mm: Frame of head of a restyled tabulator
- " 229 150 x 215 mm: Detail of normal/interstage control on card

track

"	230	150 x 200 mm: Restyled Summary Card Punch - side view RHS
"	231	150 x 200 mm: Restyled Summary Card Punch - side view LHS
"	232	150 x 200 mm: Restyled Summary Card Punch - rear view
"	233	150 x 200 mm: Unidentified tabulator, no covers, some parts identified by part numbers
"	234	150 x 200 mm: Unidentified tabulator, no covers, some parts identified by part numbers
"	235	150 x 200 mm: Unidentified tabulator, no covers, some parts identified by part numbers
"	236	150 x 200 mm: Miscellaneous components, mounted for display
"	237	150 x 200 mm: Restyled tabulator, detail of bowden cable linkage from card track to a parallel unit
"	238	150 x 200 mm: Side view of frame of restyled tabulator, no covers
"	239	150 x 200 mm: Oblique front view of restyled 40-column tabulator
"	240	150 x 200 mm: Unidentified tabulator, rear view of mechanism
"	241	150 x 200 mm: Unidentified tabulator, side view of mechanism
"	242	150 x 200 mm: Unidentified tabulator, side view of head
"	243	150 x 200 mm: Detail of counter units
"	244	150 x 200 mm: Detail of counter units

- " 245 150 x 200 mm: Side view of unidentified mechanism
- " 246 150 x 200 mm: Rear view of counters
- " 247 150 x 200 mm: Unidentified 5-unit tabulator, no covers, front view
- " 248 150 x 200 mm: Closer view of head of 247, oblique from left
- " 249 150 x 200 mm: Closer view of head of 247, oblique from right
- " 250 150 x 200 mm: Detail of unidentified controls on front of 247
- " 251 150 x 200 mm: Details of side of head of 247
- " 252 150 x 200 mm: Unidentified paper feed mechanism
- " 253 150 x 200 mm: Detail of rear of alpha units
- " 254 150 x 200 mm: Unidentified restyled tabulator, side view
- " 255 150 x 200 mm: Base of unidentified tabulator, no covers
- " 256 150 x 200 mm: Detail of print controls on unidentified 7-unit tabulator
- " 257 150 x 200 mm: Unidentified tabulator, side view
- " 258 180 x 240 mm: Unidentified mechanism
- " 259 190 x 240 mm: 1930s?: Head of 5-unit tabulator with early form of Sheet Feed
- " 260 200 x 256 mm: Display of a 10 digit numeric unit's stop basket

" 261 160 x 210 mm: 1920s?: Part of card track of a very early machine

" 262 200 x 260 mm: Two shots of a platen: complete; and in components

" 263 160 x 210 mm: Unidentified mechanism

" 264 160 x 210 mm: Unidentified mechanism; two shots from different views

" 265 160 x 210 mm: as 263

" 266 205 x 280 mm: 7-unit tabulator, looking down from directly above. Shows an exchangeable panel in front of the sectors, engraved with the names of the data fields being printed in each position; and a detail of the mechanism by which such a panel is held in place

" 267 220 x 290 mm: 1930s: Side view of head of unidentified tabulator

" 268 220 x 290 mm: Side view of head of a different unidentified tabulator

" 269 210 x 240 mm: Unidentified mechanism

" 270 210 x 240 mm: Unidentified mechanism

" 271 210 x 250 mm: Partial side view of tabulator card track

" 272 220 x 290 mm: 1920s?: Front view of head of old 7-unit tabulator

" 273 210 x 240 mm: Unidentified mechanism

" 274 215 x 305 mm: Details of an unidentified electrical sensing unit fitted at the back of the head of a numeric unit. Parts

identified by part no

8/1/2

Tabulators [Power Tabulators - Box 2]

Items 275 to 304 consist of photos mounted on stiff card, often with particular components or dimensions highlighted

<i>Box 1</i>	<i>[Serial Number]</i>	<i>[Size: Date: Caption]</i>
8/1/2/1	275	155 x 120 mm: POWERS 1 ELECTRIC LONG FEED
8/1/2/2	276	155 x 120 mm: POWERS 1 ELECTRIC LONG FEED
8/1/2/3	277	230 x 165 mm: Publicity photo of the head of a 7-unit tabulator. Paper feed contains a stack of simulated paper sheets showing typical applications -Personnel Statistics, Pay Roll, Employees' Income Tax Records, Invoicing and Billing, Sales Ledgers, Materials Control, Labour Costs, Production Control
8/1/2/4	278	185 x 140 mm: 21-column Tabulator - Arithmetic and alpha units mounted in a display frame, seen from behind and below. Spring 77169 and Spring Anchor Bracket DR7319 highlighted
8/1/2/5	279	185 x 140 mm: as 278, oblique rear view
8/1/2/6	280	185 x 140 mm: as 278, rear view
8/1/2/7	281	185 x 140 mm: as 278, another rear view
8/1/2/8	282	185 x 140 mm: as 278, front view
8/1/2/9	283	185 x 140 mm: 21 COL. TABULATOR (SUBT.). Complete machine without covers. Oblique view showing side and rear
8/1/2/10	284	185 x 140 mm: 21 COL. TABULATOR

(SUBTRACTION) UNIT ASSEMBLY.
Looking up at the stop basket and sectors from below. Many components identified

8/1/2/11	285	185 x 140 mm: 21 COL. TABULATOR (SUBTRACTION UNIT ASSEMBLY. Rear of sectors. Some components identified
8/1/2/12	286	185 x 145 mm: 21 COL. TABULATOR (SUBTRACTION) UNIT ASSEMBLY. Front of head showing sectors but with no print hammers fitted. Some components identified.
8/1/2/13	287	180 x 145 mm: 21 COL TABULATOR (SUBT.) General view of left hand side
8/1/2/14	288	185 x 145 mm: 21 COL TABULATOR (SUBT.) HEAD ASSY. Damping pawl shaft and retaining collar identified
8/1/2/15	289	185 x 145 mm: 21 COL TABULATOR (SUBT.) HEAD ASSY. View from front. Miscellaneous components identified
8/1/2/16	290	190 x 145 mm: 21 COL TABULATOR (SUBT.) FINAL ASSY. Oblique front view; many components identified
8/1/2/17	291	190 x 145 mm: 21 COL TABULATOR (SUBT.) FINAL ASSY. Oblique front view; many components identified
8/1/2/18	292	190 x 145 mm: 21 COL TABULATOR (SUBT.) FINAL ASSY. Oblique front view; many components identified
8/1/2/19	293	230 x 170 mm: Complete view of whole 21 col tabulator, LHS
8/1/2/20	294	230 x 170 mm: Complete view of whole 21 col tabulator, RHS
8/1/2/21	295	230 x 170 mm: Complete view of whole 21 col tabulator, rear
8/1/2/22	296	230 x 170 mm: Complete view of

		whole 21 col tabulator, front
8/1/2/23	297	190 x 140 mm: 21 col tabulator with additional Long Feed mechanism, oblique view from right front
8/1/2/24	298	190 x 140 mm: 21 col tabulator with additional Long Feed mechanism, right hand side and rear, showing additional connections for Long Feed mechanism
8/1/2/25	299	190 x 140 mm: 21 col tabulator with additional Long Feed mechanism, left hand side and rear, showing connections to upper shaft of Long Feed mechanism
8/1/2/26	300	190 x 140 mm: 21 col tabulator with additional Long Feed mechanism, left hand side and front, showing connections to upper shaft of Long Feed mechanism
8/1/2/27	301	190 x 140 mm: 21 col tabulator with partial covers, seen from front
8/1/2/28	302	190 x 140 mm: As 301, but without covers for print hammers and without paper guides
8/1/2/29	303	190 x 140 mm: As 302, from rear
8/1/2/30	304	190 x 140 mm: As 303, from rear, including conn box
8/1/2/31	305	215 x 150 mm: Unidentified 5-unit tabulator, with print unit drive shafts and associated mechanism. Seen from front, with many components identified on the paper copy. <i>Transparency and paper copy both in a flimsy envelope</i>
8/1/2/32	306	215 x 150 mm: Unidentified 5-unit tabulator. Side view of base, showing long connecting rods and cranks. <i>Transparency and paper</i>

copy both in a flimsy envelope

8/1/2/33	307	215 x 150 mm: Unidentified 5-unit tabulator, Side view of base, showing a different version of the mechanism in 306, with additional mechanical connections. <i>Transparency and paper copy both in a flimsy envelope</i>
8/1/3		<i>Tabulators [Power Tabulators - Box 3]</i>
8/1/3/1	308	290 x 220 mm: ?1920s: 45 Column Tabulator. Powers Samas, Paris. Front view of Tab showing Universal Print Control - the first Tab fitted with this
8/1/3/2	309	290 x 220 mm: ?1920s: 45 Column Tabulator. Powers Samas, Paris. Back of stop basket tray
8/1/3/3	310	210 x 160 mm: Double Sensing Tabulator. Assembly of cams, gears and rods mounted for display
8/1/3/4	311	210 x 160 mm: Double Sensing Tabulator. As 310, from the other side
8/1/3/5	312	210 x 160 mm: Powers One Tabulator. Section of card track and sensing box, mounted for display
8/1/3/6	313	210 x 160 mm: Powers One Tabulator - Locked Pinbox. As 312, from the other side
8/1/3/7	314	210 x 160 mm: Powers One Tabulator - ATA Pinbox. Section of card track with sensing and comparing boxes, mounted for display ("ATA" = Automatic Totalling Attachment)
8/1/3/8	315	210 x 160 mm: Powers One Tabulator - ATA Pinbox. As 314 from the other side
8/1/3/9	316	210 x 160 mm: Powers One Tabulator

		- Section of tabulator base, showing frame and end view of feed rolls
8/1/3/10	317	210 x 160 mm: Powers One Tabulator - Section of tabulator base, as 316, from the side
8/1/3/11	318	240 x 190 mm: Powers One Tabulator - Head Unit, mounted for display, from the side
8/1/3/12	319	210 x 185 mm: Powers One Tabulator - Head Unit, as 318 from the front
8/1/3/13	320	245 x 195 mm: Powers One Tabulator - Head Print Unit mounted for display, from the side
8/1/3/14	321	245 x 195 mm: Powers One Tabulator - Locked Pinbox - side frames and pinbox mounted for display
8/1/3/15	322	245 x 195 mm: Powers One Tabulator - Locked Pinbox, as 321 from the other side
8/1/3/16	323	210 x 160 mm: Powers One Tabulator - Base mounted for display, from side
8/1/3/17	324	210 x 160 mm: Powers One Tabulator - Base mounted for display, as 323, other side
8/1/3/18	325	210 x 160 mm: Powers One Tabulator - Base mounted for display, as 323, rear
8/1/3/19	326	210 x 160 mm: Powers One Tabulator - Base mounted for display, as 323, front
8/1/3/20	327	210 x 160 mm: Powers One Tabulator - Base mounted for display, oblique front view, showing hopper, ATA, pinbox and associated frames
8/1/3/21	328	210 x 160 mm: Powers One Tabulator - Base mounted for display, as

327, from rear

8/1/3/22 329 210 x 160 mm: Powers One Tabulator - Base mounted for display, as 327, oblique view from rear

8/1/3/23 330 250 x 200 mm: Tabulator (?45 column). Close-up of left front of head, marked 'illegible for SCP attachment'

8/1/3/24 331 250 x 200 mm: Tabulator (?45 column). Oblique front view of head, marked 'Tabulator and SCP Attachment'

8/1/3/25 332 205 x 155 mm: Tabulator Base (Double Sensing)

8/1/3/26 333 205 x 155 mm: Tabulator Base (Double Sensing), from front

8/1/3/27 334 200 x 150 mm: Tabulator Base (Double Sensing)

8/1/3/28 335 200 x 150 mm: Tabulator Base (Double Sensing), from front

8/1/3/29 336 275 x 225 mm: Tabulator Base (65 column) Double Sensing

8/1/3/30 337 275 x 225 mm: Tabulator Base (65 column) Double Sensing. British Celanese 9/1502

8/1/3/31 338 210 x 155 mm: Tabulator Base (65 column) Double Sensing. British Celanese 9/1502

8/1/3/32 339 210 x 155 mm: Powers Four Tabulator (36 column). Simmons Aerocessaries 9/3043, from front

8/1/3/33 340 210 x 155 mm: Powers Four Tabulator (36 column). Simmons Aerocessaries 9/3043, from rear

8/1/3/34 341 210 x 155 mm: Tabulator 9/616 with special punched paper feed, Alacra Stationery

8/1/3/35	342	210 x 155 mm: Tabulator 9/616 with special punched paper feed, Alacra Stationery, as 341, another view
8/1/3/36	343	210 x 155 mm: Powers Four Tabulator (5 unit), Facchmos (?) 9/5004, partial rear view
8/1/3/37	344	290 x 120 mm: Powers Four Tabulator (5 unit) 9/5004
8/1/3/38	345	290 x 220 mm: Tabulator (Six Stop Basket) 9/839, rear view of head
8/1/3/39	346	290 x 220 mm: Tabulator (Six Stop Basket) 9/839, side view of head
8/1/3/40	347	210 x 160 mm: Powers Four Tabulator and SCP, with Alacra Stationery and special punched paper feed. Stationery is printed 'J.Sainsbury' but photo is marked 'NOT a Sainsbury m/c'
8/1/3/41	348	210 x 160 mm: Powers Four Tabulator and SCP, with Alacra Stationery and special punched paper feed. Stationery is printed 'J.Sainsbury' but photo is marked 'NOT a Sainsbury m/c'
8/1/3/42	349	285 x 225 mm: Tabulator, wide head. Machine's casting marked 'Fabrique en Angleterre'. Photo is marked 'Samas Paris' and also 'Powers Accounting Machines Ltd' - ie before the company became 'Powers-Samas'.
8/1/3/43	350	285 x 225 mm: Samas Paris - Standard Tabulator. Photo marked '45 col'
8/1/3/44	351	250 x 195 mm: Powers Four Tabulator, front view of 4-unit print head
8/1/3/45	352	285 x 225 mm: Powers Four Tabulator (Cross-Totalling); oblique rear view of arithmetic unit

8/1/3/46	353	210 x 165 mm: Tabulator (Cross-Adding), rear view of arithmetic unit
8/1/3/47	354	210 x 165 mm: Tabulator (Cross-Adding), rear view of base
8/1/3/48	355	300 x 225 mm: Powers Four Tabulator (Cross-Adding), oblique view of front and LHS of base
8/1/3/49	356	300 x 225 mm: Powers Four Tabulator (Cross-Adding), oblique view of rear and LHS of base
8/1/3/50	357	215 x 160 mm: Powers One Tabulator (Print Control Unit)
8/1/3/51	358	215 x 160 mm: Powers Four Tabulator, rear view of base
8/1/3/52	359	290 x 220 mm: 36-col Tabulator Head, Jaeger 9/3064
8/1/3/52	359	290 x 220 mm: 36-col Tabulator Head, Jaeger 9/3064
8/1/3/53	360	290 x 220 mm: 7-unit Tabulator Head, Telefon A/B, Sweden 9/6018, Front
8/1/3/54	361	290 x 220 mm: 7-unit Tabulator Head, Lloyds Bank 9/6017, front
8/1/3/55	362	290 x 220 mm: 7-unit Tabulator Head, Lloyds Bank 9/6017, rear
8/1/3/56	363	290 x 220 mm: 7-unit Tabulator Head, W.H. Smith 9/885, Pinwheel paper feed, front
8/1/3/57	364	290 x 220 mm: Tabulator, with Alacra fitting for sprocket-fed paper, LHS and head
8/1/3/58	365	290 x 220 mm: 7-unit Tabulator Head W.H. Smith 9/885, pinwheel paper feed, LHS and front
8/1/3/59	366	290 x 220 mm: 7-unit Tabulator W.H. Smith 9/885, pinwheel paper feed, rear view of head and conn

box.

8/1/3/60	367	290 x 220 mm: 5-unit Tabulator 36 Column, David Cope. Signal light fitted above top of head
8/1/3/61	368	230 x 180 mm: 5-unit Tabulator 36 Column, David Cope. Signal light fitted above top of head. RHS and rear
8/1/3/62	369	200 x 150 mm: 5-unit Tabulator. Close-up of front of head, with date printing wheel fitted to right of unit 1/2
8/1/3/63	370	200 x 150 mm: 5-unit Tabulator 36 Column, 9/5003. David Cope. Signal light fitted above top of head. Rear view
8/1/3/64	371	200 x 150 mm: 7-unit Tabulator 9/823, Great Western Railway. Split platen carriage Oblique view of front of head
8/1/3/65	372	210 x 170 mm: 7-unit Tabulator. Oblique view LHS and front of head
8/1/3/66	373	215 x 165 mm: Unidentified Tabulator. Close up of RHS of head
8/1/3/67	374	215 x 165 mm: Unidentified Tab. Close up of unidentified control
8/1/3/68	375	215 x 170 mm: 7-unit Tabulator. LHS and rear, showing base, conn box and head
8/1/3/69	376	215 x 170 mm: 7-unit Tabulator. Close up of LHS and rear of head, same m/c as 375
8/1/3/70	377	200 x 150 mm: 5-unit Tabulator. Rear view of conn box and head
8/1/3/71	378	290 x 220 mm: 7-unit Tabulator. Front view of head
8/1/3/72	379	290 x 220 mm: 7-unit Tabulator.

Rear view of head

8/1/3/73	380	200 x 150 mm: Unidentified Tabulator. Close up of counting controls; counting lines required; count clearing; Variable Control connected to Sheet Feed
8/1/3/74	381	240 x 190 mm: 7-unit Tabulator 9/856. Royal Army Pay Corps Front view of head
8/1/3/75	382	240 x 190 mm: 7-unit Tabulator 9/856. Royal Army Pay Corps Front view of head. Front control panel removed to show internal detail
8/1/3/76	383	290 x 220 mm: 7-unit Tabulator 9/6016, with 10" Long Feed (friction type) Front and RHS of head
8/1/3/77	384	135 x 100 mm: Close up of part of Long Feed mechanism; same m/c as 383
8/1/3/78	385	290 x 220 mm: 7-unit Tabulator 9/6016 with 10" Long Feed (friction type) Front and LHS, showing details of long feed linkages and controls
8/1/3/79	386	280 x 105 mm: 7-unit Tabulator. Detail of Stop Tray
8/1/3/80	387	290 x 225 mm: 4-unit Tabulator. Front view of head, showing detail of print controls
8/1/3/81	388	290 x 225 mm: 4-unit Tabulator. Front view of head. Same m/c as 387, shown without front key plate
8/1/3/82	389	290 x 220 mm: 7-unit Tabulator 9/6033, LMS Railway. Multi-ribbon device, showing 4 rolls of paper with a single ribbon looping to and fro between successive rolls Front view of head
8/1/3/83	390	210 x 150 mm: 7-unit Tabulator

		9/6033, LMS Railway. Multi-ribbon device, showing detail of ribbon guide columns. Front view of head
8/1/3/84	391	255 x 195 mm: 2 Stage Sensing Tabulator. 1 Cycle Total Delay Mechanism
8/1/3/85	392	250 x 190 mm: Independent Line Feed Mechanism B25730 for old type 10" long feed B11880, close-up detail of end of platen
8/1/3/86	393	250 x 190 mm: Independent Line Feed Mechanism B25730 for old type 10" long feed B11880, close-up detail of end of platen, another view of 392
8/1/3/87	394	285 x 220 mm: 7-unit Interstage Sensing Tabulator, 9/6023, Hansa. Front view of head
8/1/3/88	395	285 x 220 mm: 7-unit Interstage Sensing Tabulator, 9/6023, Hansa. Side view of base
8/1/3/89	396	270 x 220 mm: 7-unit Interstage Sensing Tabulator, 9/6023, Hansa. Close-up of interstage mechanism
8/1/3/90	397	200 x 150 mm: 7-unit Interstage Sensing Tabulator, 9/6023, Hansa. Close-up of unidentified mechanism
8/1/3/91	398	200 x 150 mm: 7-unit Interstage Sensing Tabulator, 9/6023, Hansa. Front view of base
8/1/3/92	399	235 x 190 mm: 5-unit Tabulator. Side view of head. Signal lamp on top. Perhaps same m/c as 367 - 370
8/1/3/93	400	200 x 155 mm: 5-unit Tabulator, 9/3098. D.Cope. Side view of mechanism in base
8/1/3/94	401	200 x 155 mm: 5-unit Tabulator, 9/3098. D.Cope. Rear view of conn box and head

8/1/3/95	402	285 x 225 mm: Tabulator with Cross-Adding Device. RHS view of extended head
8/1/3/96	403	285 x 225 mm: Tabulator with Cross-Adding Device. LHS view of extended head
8/1/3/97	404	200 x 150 mm: Tabulator with Cross-Adding Device. RHS and rear of head
8/1/3/98	405	200 x 155 mm: Tabulator with Cross-Adding Device. Underside of arithmetic units
8/1/3/99	406	200 x 155 mm: Tabulator with Cross-Adding Device. Close up of driving mechanism
8/1/3/100	407	285 x 220 mm: Powers One Tabulator - side view
8/1/3/101	408	250 x 155 mm: New Design 2-stage Sensing Tabulator, with 2-stage Total Delay Mechanism
8/1/3/102	409	250 x 155 mm: New Design 2-stage Sensing Tabulator, with 2-stage Total Delay Mechanism; another view
8/1/3/103	410	250 x 150 mm: Cross-Adding Tabulator fitted with subtraction with extended head. RHS view of head
8/1/3/104	411	250 x 150 mm: Cross-Adding Tabulator fitted with subtraction with extended head. RHS view of head, another view
8/1/3/105	412	210 x 160 mm: LHS of base of experimental tabulator showing part of two-stage sensing
8/1/3/106	413	210 x 160 mm: 7-unit Tabulator, 9/914 Front view of head
8/1/3/107	414	210 x 160 mm: 7-unit Tabulator 9/914 Close up of RHS of head

8/1/3/108	415	210 x 160 mm: 7-unit Tabulator, 9/914. Rear view, showing conn box, stop basket controls and underside of arithmetic units
8/1/3/109	416	210 x 160 mm: Tab 9/3127. Rate card Device
8/1/3/110	417	150 x 110 mm: Tab 9/3127. Rate card Device and 4-line space
8/1/3/111	418	200 x 150 mm: Tab 9/1507. Shown on plinth with SCP and account-number designating light panel on stand
8/1/3/112	419	200 x 150 mm: Tab 9/1507. Shown on plinth with SCP and account-number designating light panel on stand
8/1/3/113	420	200 x 150 mm: Tab 9/1507. Shown on plinth with SCP and account-number designating light panel on stand. Background air-brushed out. Operator's foot-mat bears the name 'POWERS'
8/1/3/114	421	200 x 150 mm: Tab 9/1507. Shown on plinth with account-number designating light panel on stand. SCP out of shot. LHS and rear
8/1/3/115	422	200 x 150 mm: Tab 9/1507. Shown on plinth with account-number designating light panel on stand. SCP out of shot. RHS and rear
8/1/3/116	423	200 x 155 mm: Tab 9/1507. V.C. (= Variable Control?) coupling to Long Feed. A note on back of print: "Conn Box says 150!"
8/1/3/117	424	150 x 110 mm: no date: Tab 9/1507. Showing 4-line space and Carriage Feed Eliminator, and Independent Sector Designator
8/1/3/118	425	150 x 110 mm: Tab 9/1507 7-unit Tabulator. Control panel on front of head
8/1/3/119	426	150 x 110 mm: Experimental Tabulator. LHS side of base,

showing Double Sensing Control and partially showing Correct Grand Total Balance unit

8/1/3/120	427	150 x 110 mm: Experimental Tabulator. Card track and hopper, with control unit for Correct Grand Total Balance unit
8/1/3/121	428	200 x 150 mm: Lloyds Bank - control gear for 2-colour ribbon device. Mechanism separated for display
8/1/3/122	429	200 x 150 mm: Lloyds Bank - control gear for 2-colour ribbon device. Mechanism separated for display
8/1/3/123	430	150 x 110 mm: Lucas - Double Sensing Tabulator. Mechanism separated for display.
8/1/3/124	431	150 x 110 mm: Lucas - Double Sensing Tabulator. Mechanism separated for display.
8/1/3/125	432	150 x 110 mm: Lucas - Double Sensing Tabulator. Mechanism separated for display.
8/1/3/126	433	150 x 110 mm: Lucas - Double Sensing Tabulator. Mechanism separated for display.
8/1/3/127	434	150 x 110 mm: Lucas - Double Sensing Tabulator. Mechanism separated for display.
8/1/3/128	435	160 x 110 mm: Experimental Tabulator. Correct Grand Total Balance unit.
8/1/3/129	436	210 x 160 mm: Experimental Tabulator. Arrangement of AS & GT Control Unit, and early delay gear for AS & GT. ("AS & GT" = Automatic Sub and Grand Totals)
8/1/3/130	437	205 x 155 mm: Experimental Tabulator - Card Stop unit

8/1/3/131	438	160 x 150 mm: Experimental Tabulator - Card Stop unit for two-stage sensing
8/1/3/132	439	160 x 150 mm: Experimental Tabulator - Card Stop unit for two-stage sensing
8/1/3/133	440	150 x 110 mm: 1938: 9/903. Shropshire & Worcester Electric Co. 3-phase motor drive for tabulator
8/1/3/134	441	150 x 110 mm: 1938: 9/903. Shropshire & Worcester Electric Co. 3-phase motor drive for tabulator
8/1/3/135	442	150 x 110 mm: 7-unit Tabulator. Front view
8/1/3/136	443	150 x 110 mm: 7-unit Tabulator. LHS
8/1/3/137	444	150 x 110 mm: 7-unit Tabulator. Rear view of head
8/1/3/138	445	145 x 110 mm: Lucas - Double Sensing Tabulator - another view. Same machine as 430 to 434
8/1/3/139	446	155 x 110 mm: Unidentified Tabulator - rear view of head, showing Stop tray controls
8/1/3/140	447	155 x 110 mm: Unidentified Tabulator - rear view of head, showing Stop tray controls
8/1/3/141	448	150 x 110 mm: Tabulator accumulator unit
8/1/3/142	449	150 x 110 mm: Tabulator accumulator unit
8/1/3/143	450	150 x 110 mm: Tab 9/851. L.M.S. Crewe
8/1/3/144	451	150 x 110 mm: Tab 9/851. L.M.S. Crewe

8/1/3/145	452	150 x 110 mm: Tab 9/6096. C.A.V. Grand Total operated by Variable Control
8/1/3/146	453	150 x 110 mm: Tab 9/6096 C.A.V. View of Stop Tray and rear of arithmetic units
8/1/3/147	454	150 x 110 mm: Tab 9/6096 C.A.V. View showing D4/5 SOB Carriage Feed Eliminator
8/1/3/148	455	Foolscap: 3 sheets listing many of the photos in this box, and others, identified by old print numbers written on the face of the prints
8/1/3/149	456	210 x 170 mm: Unidentified Tabulator. Side view of head, highlighting ribbon control mechanism
8/1/3/150	457	205 x 160 mm: Unidentified Tabulator. Right hand end of platen, showing mechanism for controlling length of paper advance
8/1/3/151	458	210 x 170 mm: 7-unit Tabulator. View of Front and LHS of head
8/1/3/152	459	210 x 170 mm: 7-unit Tabulator. View of RHS and rear
8/1/3/153	460	250 x 200 mm: 1931: 7-unit Tabulator, Barclays. vView of rear and Conn Box
8/1/3/154	461	255 x 205 mm: Unidentified Tabulator. LHS
8/1/3/155	462	255 x 205 mm: Unidentified Tabulator. Close up of LH end of platen
8/1/3/156	463	255 x 200 mm: 1935: Tab 9/723. War Office Tabulator. The device shown on the left of the 25-sector Alpha Unit is a Date Printing Device (single print wheel) operated by

total stroke. The device shown on the right is an Asterisk Printing Hammer operated by the last carry over of the 10-Sector Unit on the right of the Alpha Unit

8/1/3/157	464	255 x 200 mm: 1937: 7-unit Tabulator. Close up rear view
8/1/3/158	465	210 x 155 mm: 1938: 7-unit Tabulator 9/6023. Hansa. Rear view of Stop Tray controls
8/1/3/159	466	205 x 155 mm: 1938: 7-unit Tabulator 9/6023. Hansa. Rear view of head
8/1/3/160	467	250 x 200 mm: 1938: 7-unit Tabulator 9/6023. Hansa. Rear view of head. Larger print of 466
8/1/3/161	468	250 x 200 mm: 1938: 7-unit Tabulator 9/6023. Hansa. Front, showing control panel
8/1/3/162	469	250 x 200 mm: 1938: 4-unit Tabulator 9/3093 and 3094. Front view of head
8/1/3/163	470	250 x 200 mm: 1938: 4-unit Tabulator 9/3093 and 3094. Rear close up of Stop Tray
8/1/3/164	471	255 x 195 mm: 1938: 7-unit Tabulator 9/6038. Rear view of Stop Tray controls
8/1/3/165	472	255 x 200 mm: 1938: 4-unit Tabulator 9/3104 and 3105. Front view of head
8/1/3/166	473	255 x 200 mm: 1938: 7-unit Tabulator 9/847. Back of Stop Tray
8/1/3/167	474	215 x 160 mm: 1938: Powers Four Tabulator. Rear of Stop Tray & head
8/1/3/168	475	205 x 155 mm: 1938: Tabulator Base, showing Automatic Sub &

Grand Totals, Variable Control,
and Designating Light Device

8/1/3/169	476	255 x 200 mm: 1938: Tabulator 9/6038. Variable Control coupled to Sheet Feed, top half.
8/1/3/170	477	255 x 200 mm: 1938: 7-unit Tabulator 9/6038. Front view of head
8/1/3/171	478	210 x 160 mm: 1938: Unidentified Tabulator. Part view of LHS and head, showing SCP Control and Sheet Feed drive
8/1/3/172	479	200 x 160 mm: 1938: Unidentified Tabulator. Part view of LHS and rear, showing SCP Control
8/1/3/173	480	255 x 200 mm: 1937: 7-unit Tabulator. Front view of head
8/1/3/174	481	255 x 200 mm: 1937: 7-unit Tabulator. Front view of head. Same picture as 173; print slightly torn
8/1/3/175	482	150 x 110 mm: 65 Col Tabulator - 4 Stage Sensing - Front
8/1/3/176	483	150 x 110 mm: 65 Col Tabulator - 4 Stage Sensing - Base
8/1/3/177	484	150 x 110 mm: 65 Col Tabulator - 4 Stage Sensing - Rear
8/1/3/178	485	150 x 110 mm: 40 Col Tabulator with Adrema Hook Up - full view
8/1/3/179	486	150 x 110 mm: 40 Col Tabulator with Adrema Hook Up - front controls
8/1/3/180	487	140 x 100 mm: Interstage Tabulator - front control. Front and rear views of control mechanism mounted for display
8/1/3/181	488	140 x 100 mm: Interstage Tabulator - control mechanism mounted for

		display
8/1/3/182	489	140 x 100 mm: Interstage Tabulator - mechanism mounted for display
8/1/3/183	490	140 x 100 mm: Interstage Tabulator - card track mechanism, showing rear of ATA and interstage mechanism beneath the card track
8/1/3/184	491	140 x 100 mm: Interstage Tabulator - card track mechanism
8/1/3/185	492	205 x 150 mm: 8-unit Tabulator - front and RHS. The "New Tabulator", shown with full covers in crackle finish
8/1/3/186	493	205 x 150 mm: 8-unit Tabulator - front. The "New Tabulator", shown with full covers in crackle finish
8/1/3/187	494	155 x 110 mm: Re-styled Tabulator - LHS and RHS of base. Two prints, mounted on both sides of the same index card
8/1/3/188	495	155 x 110 mm: Re-styled Tabulator - rear of head and card track. Mounted on index card. The reverse side shows an old 5-unit tabulator
8/1/3/189	496	155 x 110 mm: Re-styled 80 Col Tabulator with SCP. Mounted on index card. The reverse side shows a Tabulator and old UAKPs in the background
8/1/3/190	497	155 x 110 mm: Re-styled Tabulator - side view of base. Mounted on index card. The reverse side shows a partial print of the same mechanism
8/1/3/191	498	155 x 110 mm: Re-styled Tabulator - rear view. Mounted on index card. Tabulator shown incomplete, without conn box and without cover
8/1/3/192	499	155 x 110 mm: Re-styled Tabulator - LHS and part view of front.

		Mounted on index card. Shown without covers
8/1/3/193	500	155 x 110 mm: 65 Col Re-styled Tabulator and SCP - side view. Mounted on index card. Both machines shown without covers
8/1/3/194	501	155 x 110 mm: 65 Col Re-styled Tabulator - rear. Mounted on index card. Shown without covers
8/1/3/195	502	155 x 110 mm: 65 Col Re-styled Tabulator - rear and LHS. Mounted on index card. Shown without covers
8/1/3/196	503	155 x 110 mm: 65 Col Re-styled Tabulator - front and RHS. Mounted on index card. Shown without covers
8/1/3/197	504	155 x 110 mm: 7-unit Tabulator - front. The Long Feed development machine
8/1/3/198	505	155 x 110 mm: 40 Col Re-styled Tabulator Conn Box - rear. Mounted on index card
8/1/3/199	506	155 x 110 mm: 3-unit Tabulator 9/42 - front and RHS
8/1/3/200	507	155 x 110 mm: 3-unit Tabulator 9/44 - front and LHS
8/1/3/201	508	155 x 110 mm: 5-unit Tabulator 9/65 - front and LHS
8/1/3/202	509	155 x 110 mm: 5-unit Re-styled Tabulator 9/66 - front
8/1/3/203	510	155 x 110 mm: 5-unit Re-styled Tabulator 9/67 Thames Tabulator - front and RHS
8/1/3/204	511	155 x 110 mm: 5-unit Re-styled Tabulator 9/70 - RHS
8/1/3/205	512	155 x 110 mm: 5-unit Re-styled Tabulator 9/71 - LHS

8/1/3/206	513	155 x 110 mm: 3-unit 36 or 40 Col Tabulator front and RHS
8/1/3/207	514	200 x 145 mm: Tabulator - left hand end of carriage. Probably same machine as 513
8/1/3/208	515	200 x 145 mm: Tabulator - rear detail. Probably same machine as 513. Shows Stop Before and After Total Control
8/1/3/209	516	200 x 145 mm: Tabulator - right hand end of carriage
8/1/3/210	517	200 x 145 mm: Tabulator - front detail. Probably same machine as 513. Shows 40-character alphanumeric 'O' control
8/1/3/211	518	160 x 120 mm: Unidentified Tabulator - RHS and rear. Probably 21 col
8/1/3/212	519	160 x 120 mm: Unidentified Tabulator - rear. Probably 21 col
8/1/3/213	520	205 x 155 mm: Unidentified Tabulator - front. Shows single 25-sector printing unit
8/1/3/214	521	132 x 118 mm: 7-unit Tabulator L.M.S. Rate Card Device (non-add) - front
8/1/3/215	522	132 x 118 mm: 7-unit Tabulator L.M.S. Rate Card Device (non-add) - RHS
8/1/3/216	523	132 x 118 mm: 7-unit Tabulator L.M.S. Rate Card Device (non-add) - detail of device
8/1/4		<i>Tabulators [Power Tabulators - Box 4]</i>
8/1/4/1	524	490 x 205 mm: Fitter working on head of 7-unit Tabulator
8/1/4/2	525	490 x 205 mm: Fitter working on head of 7-unit Tabulator; copy of

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8/1/4/3	526	195 x 160 mm: Twin stackers at rear of a modern tabulator, showing cards from an insurance application
8/1/4/4	527	220 x 165 mm: 1950s: 7-unit Tabulator. Front view of head, shown printing a list of insurance policies
8/1/4/5	528	210 x 155 mm: 1950s: 7-unit Tabulator. Front view of head, shown printing another part of the same list
8/1/4/6	529	280 x 215 mm: 7-unit Tabulator, L.M.S. Railway RHS
8/1/4/7	530	280 x 215 mm: 7-unit Tabulator, L.M.S. Railway LHS, showing the No Balance Device
8/1/4/8	531	280 x 215 mm: 7-unit Tabulator L.M.S. Railway LHS and Front
8/1/4/9	532	250 X 200 mm: 7-unit Tabulator L.M.S. Railway RHS and front of head
8/1/4/10	533	285 x 220 mm: Tabulator. Close up of RHS of ATA - the first Automatic Totalling Attachment ever fitted to a Powers tabulator
8/1/4/11	534	290 x 225 mm: 7-unit Tabulator. Rear view of head
8/1/4/12	535	290 x 225 mm: Tabulator base (Card Totalling)
8/1/4/13	536	270 x 225 mm: 5-unit Tabulator. Oblique view of RHS and rear, showing ATA and Grand Total units
8/1/4/14	537	275 x 225 mm: 7-unit Tabulator. Rear view of head, showing Grand Total units
8/1/4/15	538	250 x 215 mm: Powers Four

		Tabulator base (Early model)
8/1/4/16	539	245 x 210 mm: Powers Four Tabulator base (Early model), showing original clutch
8/1/4/17	540	225 x 165 mm: Tabulator and SCP. LHS. Early model - German
8/1/4/18	541	225 x 165 mm: Tabulator and SCP. Close-up of LHS. Early model - German, showing SCP slides in home position
8/1/4/19	542	225 x 165 mm: Tabulator and SCP. Close-up of LHS. Early model - German, showing SCP slides engaged with tab segments
8/1/4/20	543	150 x 105 mm: Tabulator RHS of head, showing detail of unnamed paper feed mechanism
8/1/4/21	544	290 x 220 mm: Powers Four Tabulator - Card Total base, from front, showing detail of patented cams in card feed mechanism
8/1/4/22	545	280 x 220 mm: Tabulator 26 column - Card Total m/c. LHS
8/1/4/23	546	280 x 220 mm: Tabulator 26 column - Card Total m/c. Front - an early 4-unit machine
8/1/4/24	547	280 x 220 mm: Tabulator 26 column - Card Total m/c. Rear. Same m/c as 546
8/1/4/25	548	255 x 205 mm: Tabulator and SCP. Oblique view of LHS and rear. Balance card punching (Austin)
8/1/4/26	549	250 x 200 mm: Tabulator and SCP. LHS of head of Tabulator. Balance card punching (Austin)
8/1/4/27	550	250 x 200 mm: SCP control for Tabulator; mechanism isolated for display

8/1/4/28	551	250 x 200 mm: Tabulator. Oblique view of LHS of carriage: Tabulator with Special Long Feed
8/1/4/29	552	295 x 215 mm: Tabulator. Oblique view of front and RHS. Same m/c as 551
8/1/4/30	553	275 x 215 mm: 7-unit Tabulator. Oblique view of front and LHS. 5" Feed with E.J. Carriage and Double Drive
8/1/4/31	554	265 x 225 mm: 1933?: 7-unit Tabulator and SCP. RHS. M/c no 9/1002. Early form of SCP coupled to Tab. Metropolitaine (France)
8/1/4/32	555	215 x 160 mm: Powers Four Tabulator - ATA pinbox isolated for display
8/1/4/33	556	300 x 205 mm: Powers Four Tabulator - ATA pinbox isolated for display opposite view from 555
8/1/4/34	557	210 x 170 mm: Tabulator. RHS and rear of arithmetic units. Coates special, the first m/c fitted with these subtraction units
8/1/4/35	558	210 x 170 mm: 1932: Tabulator. RHS and rear of arithmetic units. Coates special, the first m/c fitted with these subtraction units
8/1/4/36	559	240 x 190 mm: Tabulator. Close-up of controls at RH end of front, Coates special m/c
8/1/4/37	560	250 x 200 mm: 7-unit Tabulator. Oblique view of front and LHS, Coates special m/c
8/1/4/38	561	210 x 170 mm: Tabulator. Close-up of mechanism at RHS of base. Balance card punch control on Coates special m/c
8/1/4/39	562	250 x 200 mm: Tabulator and SCP.

		LHS and front, Coates special m/c
8/1/4/40	563	215 x 175 mm: LMS Tabulator RHS. Close up of rate card (non-add) mechanism
8/1/4/41	564	250 x 200 mm: Powers Four Tabulator. Side of base, with details of ATA and associated linkages
8/1/4/42	565	240 x 210 mm: Powers Four Tabulator. Base. ATA viewed from stacker end of card track
8/1/4/43	566	240 x 210 mm: Powers Four Tabulator. Side of base, with details of ATA and associated linkages. Opposite side from 564
8/1/4/44	567	210 x 170 mm: 7-unit Tabulator Oblique view of front and RHS, showing power-operated E.J. Carriage paper-feed mechanism
8/1/4/45	568	300 x 215 mm: Powers Four Tabulator. LHS, with Type 'D' subtraction mechanism
8/1/4/46	569	160 x 120 mm: 10-column ATA mechanism. 569 to 580 are held together by paper clip. 569 shows many components identified on the print, with explanation of their functions
8/1/4/47	570	160 x 120 mm: 10-column ATA mechanism
8/1/4/48	571	160 x 120 mm: 10-column ATA mechanism
8/1/4/49	572	135 x 120 mm: 10-column ATA mechanism seen from above, showing that this version was fitted to a 45 col Tabulator
8/1/4/50	573	155 x 110 mm: 10-column ATA mechanism
8/1/4/51	574	165 x 120 mm: 10-column ATA

		mechanism
8/1/4/52	575	155 x 110 mm: 10-column ATA mechanism
8/1/4/53	576	160 x 120 mm: 10-column ATA mechanism. Copy of 569
8/1/4/54	577	140 x 110 mm: 10-column ATA mechanism
8/1/4/55	578	215 x 165 mm: 10-column ATA mechanism, left hand rear view
8/1/4/56	579	215 x 165 mm: 10-column ATA mechanism, right hand rear view
8/1/4/57	580	190 x 150 mm: 10-column ATA mechanism
8/1/4/58	581	160 x 120 mm: Tabulator. Oblique view of RHS and front of head, showing Improved Carriage Feed and Four Line Spacer
8/1/4/59	582	160 x 120 mm: Tabulator. Oblique view from behind of LHS of head, showing Improved Carriage Feed and Four Line Spacer
8/1/4/60	583	195 x 155 mm: Tabulator. Enlargement of part of 581
8/1/4/61	584	200 x 155 mm: Tabulator. Enlargement of part of 582
8/1/4/62	585	240 x 180 mm: Tabulator. 'Exploded' view of base, with hopper and ATA assembly shown detached from remainder of card track
8/1/4/63	586	200 x 155 mm: Tabulator. 'Exploded' view of base, produced to show what had to be done to convert a space-and-total m/c to an ATA m/c
8/1/4/64	587	255 x 200 mm: Connection box. Close up of complex wiring

8/1/4/65	588	255 x 200 mm: Connection box. Close up of complex wiring
8/1/4/66	589	160 x 150 mm: Tabulator - Adjustable Stop Basket (old pattern)
8/1/4/67	590	200 x 145 mm: Tabulator - G.T.A. Detail assemblies - 13 sub- assemblies mounted for display of instruction
8/1/4/68	591	165 x 120 mm: Tabulator with Long Feed. Front and LHS
8/1/4/69	592	165 x 120 mm: Tabulator with Long Feed. Front and LHS. Similar to 591, but with cover removed to expose detail of Long Feed mechanism
8/1/4/70	593	150 x 110 mm: Tabulator with early model Long Feed. Mechanism at LHS
8/1/4/71	594	150 x 110 mm: Tabulator showing Operating Disc and Connection Arm of Long Feed. Mechanism at LHS
8/1/4/72	595	150 x 110 mm: Tabulator with Automatic Accumulative Total Device. Close up of front of head
8/1/4/73	596	170 x 140 mm: Tabulator. Alpha type sector mounted for display, showing an early sector with 23- position alpha and no numerics
8/1/4/74	597	160 x 110 mm: 7-unit Tabulator, with 'the 1st Long Feed'
8/1/4/75	598	145 x 115 mm: Tabulator with Variable Control. Mechanism at RHS of base
8/1/4/76	599	160 x 115 mm: Tabulator with early type of Variable Control Mechanism at RHS of base
8/1/4/77	600	150 x 110 mm: 7-unit Tabulator. Front view of Adding Machine, showing sectors raised during

printing and adding

8/1/4/78	601	165 x 120 mm: Tabulator. RHS and rear of head with Grand Total unit
8/1/4/79	602	150 x 110 mm: Tabulator. Rear view of adding head
8/1/4/80	603	200 x 150 mm: Tabulator. Counting Attachment, with counters, bracket and linkage detached for display or instruction
8/1/4/81	604	200 x 150 mm: Tabulator. Counting Attachment, another view
8/1/4/82	605	205 x 160 mm: Tabulator. A.T.A. Counting Attachment and Independent Designating Device
8/1/4/83	606	285 x 220 mm: Tabulator. Instructional model of adding head. LHS
8/1/4/84	607	285 x 220 mm: Tabulator. Instructional model of adding head. RHS
8/1/4/85	608	255 x 205 mm: No date: 45 col Tabulator. Rear, showing hopper and ATA mech'm
8/1/4/86	609	255 x 205 mm: Tabulator. Rear, showing hopper and uncovered ATA mechanism
8/1/4/87	610	255 x 205 mm: Tabulator. Rear, showing hopper and ATA; like 610, but with ATA cover fitted and named as 'Auto sub and grand total device'
8/1/4/88	611	255 x 205 mm: Tabulator. Rear, showing hopper and ATA; like 610, but with ATA cover fitted and named as 'Auto sub and grand total device'
8/1/4/89	612	250 x 200 mm: Tabulator. LHS
8/1/4/90	613	300 x 220 mm: Powers Four

		Tabulator with Direct Negative Balance at S. Sub. Gas Co
8/1/4/91	614	300 x 220 mm: Powers Four Tabulator with Direct Negative Balance at S. Sub. Gas Co
8/1/4/92	615	280 x 220 mm: Tabulator with two- colour printing attachment. RHS of head
8/1/4/93	616	280 x 220 mm: Tabulator with two- colour printing attachment (a different version of the mechanism from 615). RHS of head
8/1/4/94	617	245 x 200 mm: Tabulator at Shell- Mex RHS
8/1/4/95	618	300 x 225 mm: Tabulator. RHS. Copy of 615
8/1/4/96	619	280 x 220 mm: 7-unit Tabulator at Shell-Mex. Oblique view of front and LHS
8/1/4/97	620	300 x 225 mm: 7-unit Tabulator at Shell-Mex. Oblique view of front and RHS
8/1/4/98	621	285 x 220 mm: 7-unit Tabulator at Shell-Mex. Rear view of conn box and head
8/1/4/99	622	285 x 220 mm: 45 col 7-unit Tabulator at Shell-Mex. Rear view of conn box and head. Different arithmetic units from 621
8/1/4/100	623	290 x 225 mm: 45 col 7-unit Tabulator at Shell-Mex. Rear view of conn box and head. Same m/c as 622
8/1/4/101	624	295 x 225 mm: 7-unit Tabulator at Shell-Mex. Rear view of stop tray & conn box
8/1/4/102	625	250 x 200 mm: Tabulator. LH end of platen; multi-ribbon device

8/1/4/103	626	165 x 120 mm: Tabulator subtraction carry cut-out - out of operation
8/1/4/104	627	165 x 120 mm: Tabulator subtraction carry cut-out - in operation
8/1/4/105	628	295 x 225 mm: Tabulator - front view of head, showing two-colour printing attachment
8/1/4/106	629	290 x 225 mm: 7-unit Tabulator. Oblique front view of LH of head, with multi-ribbon device
8/1/4/107	630	280 x 220 mm: 7-unit Tabulator. Oblique front view of RH of head, with multi-ribbon device
8/1/4/108	631	300 x 225 mm: Powers Four Tabulator with covers. LHS and front. The Cardigan Gas Company. Ledger sheet feed attachment
8/1/4/109	632	290 x 225 mm: Powers Four Tabulator; no covers. LHS and front. Sheet feed - rack drive. Same machine as 631
8/1/4/110	633	290 x 225 mm: Conn box for 7-unit 45-column Tabulator
8/1/4/111	634	290 x 220 mm: 7-unit Tabulator. LHS and front of head. L.M.S. Rate card device (non-add)
8/1/4/112	635	290 x 225 mm: Powers Four Tabulator; no covers. LHS and front. Copy of 632
8/1/4/113	636	290 x 220 mm: Powers Four Tabulator with covers. LHS and front, showing Sheet Feed with rack drive. Same m/c as 631
8/1/4/114	637	300 x 220 mm: Powers Four Tabulator with covers. LHS and front. Similar to 636, but with ledger sheets loaded in Sheet Feed device

8/1/4/115	638	285 x 220 mm: Powers Four Tabulator with covers. LHS and front. Similar to 637, but with operator's hand loading a ledger sheet.
8/1/4/116	639	290 x 220 mm: Unidentified Tabulator. Close-up of rear of head. Type 'D' subtraction
8/1/4/117	640	290 x 220 mm: Tabulator. Sheet Feed - rack drive. Statement stationary headed 'Macleans'
8/1/4/118	641	215 x 144 mm: Powers Four Tabulator. RHS of head. Type D2 - D3 subtraction
8/1/4/119	642	275 x 225 mm: 8-unit wide-head Tabulator. Oblique view of LH front. Print marked 'M/C 9/1005 La Winterthur, France', but machine's label says '9/555'
8/1/4/120	643	275 x 225 mm: 8-unit wide-head Tabulator. Oblique view of LH front. Same m/c as 642. Without covers, showing detail of unspecified devices
8/1/4/121	644	250 x 220 mm: 1933: 8-unit wide-head Tabulator. Rear, showing conn box. French tabulator no 9/1005. Date 2-10-33 visible on conn box diagram
8/1/4/122	645	250 x 220 mm: 8-unit wide-head Tabulator. LHS, without covers
8/1/4/123	646	300 x 220 mm: 1934: 7-unit Tabulator. Oblique view of RHS and rear. Coats
8/1/4/124	647	285 x 225 mm: 7-unit Tabulator. Front view of head, without covers. Baker Perkins. M/c no 699
8/1/4/125	648	285 x 225 mm: 7-unit Tabulator. Front view of head, with covers. Baker Perkins. M/c no 699

8/1/4/126	649	280 x 220 mm: Powers-Four Tabulator. Oblique view of LHS & front. Alpha sheet feed
8/1/4/127	650	285 x 220 mm: 7-unit Tabulator. Oblique view of LHS and front. Ford Motor Co. M/c no 9/704. Stationary headed 'Monthly Costs'
8/1/4/128	651	285 x 220 mm: 7-unit Tabulator. Oblique view of RHS and front. Same m/c as 650
8/1/4/129	652	280 x 225 mm: 7-unit Tabulator with Sheet Feed.
8/1/4/130	653	250 x 200 mm: Powers-Four Tabulator Base
8/1/4/131	654	290 x 215 mm: Detail of Split Platen E.J. Carriage
8/1/4/132	655	290 x 215 mm: Detail of LH end of Split Platen E.J. Carriage
8/1/4/133	656	275 x 220 mm: Powers Four Tabulator. Rear of head
8/1/4/134	657	275 x 220 mm: Powers Four Tabulator. Oblique LHS & rear of head, showing non-add device
8/1/4/135	658	295 x 220 mm: 1934: Tabulator and SCP. RHS
8/1/4/136	659	300 x 225 mm: 1934: Tabulator and SCP. Oblique view of RHS and rear. Coats
8/1/4/137	660	300 x 225 mm: 1934: Tabulator and SCP. Oblique view of rear. Coats. SCP conn box diagram dated 23-7-34
8/1/4/138	661	300 x 225 mm: 1934: Tabulator and SCP. Oblique view of rear; no covers. Same m/c as 660
8/1/4/139	662	295 x 220 mm: 1934: Tabulator and SCP. RHS. No covers. Coats
8/1/4/140	663	300 x 220 mm: 1934: Tabulator and

SCP. RHS and front. No covers.
Coats

8/1/4/141	664	300 x 220 mm: 1934: 7-unit 45 col Tabulator. Rear. No covers
8/1/4/142	665	295 x 225 mm: 1934: 7-unit 45 col Tabulator. RHS and rear; no covers. Coats. M/c no 9/1001.
8/1/4/143	666	270 x 220 mm: 1934: 7-unit 45 col Tabulator and SCP. Front and LHS; no covers. Coats. M/c no 9/1001
8/1/4/144	667	270 x 215 mm: 1934: 7-unit 45 col Tabulator and SCP. Front and LHS; no covers. Coats. M/c no 9/1001
8/1/4/145	668	295 x 210 mm: 1934: 7-unit 45 col Tabulator. Front and RHS; no covers. Coats. M/c no 9/1001
8/1/4/146	669	285 x 210 mm: Tabulator with continuous stationary equipment
8/1/4/147	670	210 x 155 mm: Tabulator with schedule shelves and designation indicator
8/1/4/148	671	290 x 220 mm: Tabulator. Close up of rear of base. Auto Sub and Grand Total - 10 col
8/1/4/149	672	290 x 220 mm: Tabulator. Close up of rear of base. Auto Sub and Grand Total - 10 col
8/1/4/150	673	295 x 220 mm: Tabulator. Close up of RHS of head. Subtraction control
8/1/4/151	674	250 x 195 mm: 7-unit 45 col Tabulator. Front view of head
8/1/4/152	675	295 x 220 mm: 45 col Tabulator. Close up of RHS of head. L.M.S. Crewe. Rate card device - B7628. Balance card device - B7630. Auto acc GT control - B7626
8/1/4/153	676	275 x 215 mm: Tabulator. LHS of

head. No covers. Print and space device?

8/1/4/154 677 285 x 220 mm: Tabulator. Close up of LH end of head

8/1/4/155 678 285 x 220 mm: Tabulator. Close up of LHS and front of head, showing SCP attachment

8/1/4/156 679 290 x 225 mm: 7-unit Tabulator. Rear of head. Lucas m/c no 9/1013. SCP attachment sockets and driving sectors

8/1/4/157 680 285 x 220 mm: 45 col Summary Card Punch, showing hopper end of card track and opened chip tray

8/1/4/158 681 285 x 220 mm: 7-unit Tabulator. RHS. No covers

8/1/4/159 682 250 x 200 mm: 7-unit Tabulator. Rear, showing SCP attachment sockets and driving sectors

8/1/4/160 683 245 x 195 mm: Powers-Four Tabulator. LHS of head. Platen removed to show detail of alpha-numerical print unit

8/1/4/161 684 295 x 115 mm: 9/1012 and 1013 Tabulators. Back view of unmounted stop tray and its controls

8/1/4/162 685 285 x 225 mm: 1935: 5-unit Tabulator. Rear of conn box and head. M/c no 9/764. 25-sector Designating Device. Conn box diagram dated 24-9-35

8/1/4/163 686 285 x 220 mm: 1935: 7-unit Demonstration Tabulator 9/764. B.E. Exhibition 1935. Unit 4/5 fitted with Universal Grand Total Print Control - split shutters

8/1/4/164 687 295 x 225 mm: 7-unit 45/90 col Tabulator. Samas Paris. Close up of rear

8/1/4/165	688	295 x 225 mm: 7-unit 45/90 col Tabulator. Samas Paris. Another view of rear
8/1/4/166	689	290 x 225 mm: 7-unit Tabulator. Royal Exchange. Rear, showing stop basket controls
8/1/4/167	690	290 x 225 mm: 8-unit Tabulator. Liverpool Victoria Friendly Society. M/c no 9/1018, with 6- stop basket. Close-up of rear
8/1/4/168	691	290 x 225 mm: 7-unit Tabulator. Samas Paris. M/c no 9/773. Rear of head
8/1/4/169	692	280 x 220 mm: 7-unit Tabulator. Messrs Lyons. M/c no 9/780 Front of head; no covers
8/1/4/170	693	215 x 165 mm: Tabulator conn box. J.J. Carnaud (France)
8/1/4/171	694	250 x 200 mm: 7-unit Tabulator. Samas Paris. M/c no 9/766. Sheet Feed mechanism
8/1/4/172	695	280 x 225 mm: Mechanism on Double Sensing Tabulator
8/1/4/173	696	205 x 155 mm: 1936: Flavells Tabulator m/c no 9/789. Part of conn box and stop basket from rear, showing arrangement of Auto Accumulative Total Attachment on Units 1 and 3, while Unit 2 has alpha summary card punching device
8/1/4/174	697	245 x 195 mm: Powers One Tabulator - Experimental. Rear
8/1/4/175	698	245 x 195 mm: Powers One Tabulator - Experimental. Front
8/1/4/176	699	295 x 220 mm: Powers-Four Tabulator? Rear of head. A.C. Wickmann. M/c no 8/1241
8/1/4/177	700	160 x 115 mm: Tabulator - Double posting device. Mechanism

disconnected for display

8/1/4/178	701	205 x 160 mm: Tabulator - Double posting device mounted on tab. Barclays Bank m/c no 9/792
8/1/4/179	702	205 x 160 mm: Tabulator - Double posting device mounted on tab. Barclays Bank m/c no 8/792
8/1/4/180	703	205 x 160 mm: Tabulator LHS. Barclays Bank m/c no 9/792, with double posting device
8/1/4/181	704	205 x 160 mm: Tabulator - Oblique view of LHS and rear. Barclays Bank n/c no 9/792, with double posting device and designation indicator
8/1/4/182	705	205 x 160 mm: 7-unit Tabulator - Front view of head without covers. Barclays Bank m/c no 9/793, with double posting device
8/1/4/183	706	295 x 220 mm: Powers-Four Tabulator - Rear view of head
8/1/4/184	707	280 x 220 mm: 7-unit Tabulator/SCP - Oblique view of front & RHS. Barclays Bank m/c no 9/792, with double posting device
8/1/4/185	708	285 x 220 mm: 7-unit Tabulator - LHS and front without covers. Barclays Bank m/c no 9/792, with double posting device
8/1/4/186	709	290 x 220 mm: 7-unit Tabulator - RHS without covers. Barclays Bank m/c no 9/794, with double posting device
8/1/4/187	710	300 x 225 mm: 7-unit Tabulator - LHS and rear without covers
8/1/4/188	711	280 x 190 mm: 7-unit Tabulator - rear view, without covers. Barclays Bank M/c no 9/794, with Double Posting Device

8/1/4/189	712	290 x 225 mm: 7-unit Tabulator - rear view showing conn box. Barclays Bank m/c no 9/793
8/1/4/190	713	300 x 225 mm: Tabulator - close up of RHS of head without covers, showing experimental Progressive Total Attachment (Cross-Adding Device)
8/1/4/191	714	295 x 225 mm: Experimental Progressive Total Attachment (Cross-Adding Device)
8/1/4/192	715	290 x 220 mm: Tabulator - Oblique view of RHS. Rover. M/c no 9/5001
8/1/4/193	716	210 x 160 mm: 1936: SCP for Powers-Four Tabulator no 9/5001 - front and RHS without covers. Rover. Date on conn box diagram 22-6-36
8/1/4/194	717	210 x 160 mm: Powers-Four 5-unit Tabulator and SCP, front & RHS. M/c no 9/5001
8/1/4/195	718	205 x 160 mm: Connection box for 21 col Tabulator
8/1/4/196	719	250 x 200 mm: Chain drive on side of unidentified Tabulator
8/1/4/197	720	295 x 220 mm: Powers-One Tabulator - LHS. M/c no 9/9000
8/1/4/198	721	290 x 215 mm: Powers-One Tabulator - Front
8/1/4/199	722	300 x 215 mm: Powers-One Tabulator - Rear
8/1/4/200	723	295 x 225 mm: Powers-One Tabulator - Oblique view of RHS. M/c no 9/9000
8/1/4/201	724	280 x 210 mm: Powers-One Tabulator - RHS
8/1/4/202	725	290 x 210 mm: Powers-One Tabulator - Front

8/1/4/203	726	300 x 220 mm: Powers-One Tabulator - LHS
8/1/4/204	727	235 x 175 mm: Summary Card Punch - 40 col, 40 character
8/2		<i>Special punches; reproducers; gang punches</i>

**POWERS REPRODUCERS, GANG PUNCHES AND SPECIAL
PUNCHES**

8/2/1	728	100 x 75 mm: Reproducer 36 col - Front
8/2/2	729	100 x 75 mm: Reproducer 36 col with Card Count Control - Front
8/2/3	730	100 x 75 mm: Reproducer 36 col with Card Count Control - Front. Copy of 729
8/2/4	731	160 x 110 mm: Reproducer 80 col - Front
8/2/5	732	215 x 170 mm: May 1960: Reproducer 40 col - Rear, no covers
8/2/6	733	215 x 170 mm: May 1960: Reproducer 40 col - Rear, no covers. Copy of 732
8/2/7	734	215 x 170 mm: May 1960: Reproducer 40 col with Card Count Control - Front. No covers
8/2/8	735	215 x 170 mm: May 1960: Reproducer 40 col with Card Count Control - Front
8/2/9	736	215 x 170 mm: May 1960: Reproducer 40 col - Rear
8/2/10	737	205 x 160 mm: 1938?: Reproducer 45 col - Front. Date on conn box probably 1938
8/2/11	738	305 x 215 mm: Reproducer 45 col - Rear, no covers
8/2/12	739	305 x 215 mm: Reproducer 45 col -

Front, no covers

8/2/13	740	305 x 210 mm: Reproducer 45 col - RHS, no covers. Red ink arrow points to an oil hole in the upper card track
8/2/14	741	305 x 210 mm: Reproducer 45 col - LHS, no covers
8/2/15	742	290 x 210 mm: Reproducer 45 col - Oblique, front & LHS, no covers
8/2/16	743	295 x 210 mm: Reproducer - RHS, no covers
8/2/17	744	295 x 210 mm: Reproducer 26 col - Rear, no covers
8/2/18	745	295 x 215 mm: Reproducer - LHS, no covers
8/2/19	746	295 x 215 mm: Reproducer 26 col - Oblique, front & RHS, no covers
8/2/20	747	295 x 220 mm: Reproducer - RHS, no covers
8/2/21	748	295 x 215 mm: Powers-Four Reproducing M/C - LHS. 3rd stage of mechanism
8/2/22	749	255 x 225 mm: Reproducer - LHS, no covers. A very early machine
8/2/23	750	250 x 220 mm: Reproducer 36 col - Oblique, front & LHS, no covers. Several components named and identified by part numbers on the print
8/2/24	751	255 x 200 mm: Reproducer 45 col - Oblique, front & LHS
8/2/25	752	270 x 230 mm: 1936: 36 Col Reproducing Punch with Count Control and Numbering Attachment. A controls identified on the print. Attached is a set of operating instructions dated 22.12.36

8/2/26	753	250 x 200 mm: Reproducer - LHS, no covers
8/2/27	754	250 x 200 mm: Reproducer - LHS, no covers
8/2/28	755	250 x 200 mm: Reproducer - RHS, no covers
8/2/29	756	250 x 200 mm: Reproducer - RHS, no covers
8/2/30	757	155 x 110 mm: Powers-Four Reproducing Punch 36 col with Card Weight Lifting Mechanism. Distant oblique view of front & RHS
8/2/31	758	155 x 110 mm: Powers-Four Reproducing Punch 36 col with Card Weight Lifting Mechanism. Oblique view of front & RHS, no covers, showing details of the C.W.L.M.
8/2/32	759	155 x 110 mm: Powers-Four Reproducing Punch 36 col with Card Weight Lifting Mechanism. LHS, no covers
8/2/33	760	165 x 120 mm: Powers-Four Reproducing Punch 36 col with Card Weight Lifting Mechanism. Same as 758
8/2/34	761	165 x 120 mm: Powers-Four Reproducing Punch 36 col with Card Weight Lifting Mechanism. Same as 759
8/2/35	762	165 x 120 mm: Powers-Four Reproducing Punch 36 col with Card Weight Lifting Mechanism. Same as 758
8/2/36	763	155 x 110 mm: Powers-Four Reproducing Punch 36 col with Card Weight Lifting Mechanism. Oblique view of front & LHS, no covers, showing detail of C.W.L.M.
8/2/37	764	155 x 110 mm: Powers-Four Reproducing Punch 36 col with Card

		Weight Lifting Mechanism. Same as 757
8/2/38	765	155 x 110 mm: Powers-Four Reproducing Punch 36 col with Card Weight Lifting Mechanism. Same as 757
8/2/39	766	155 x 110 mm: Powers-Four Reproducing Punch 36 col with Card Weight Lifting Mechanism. Same as 757
8/2/40	767	245 x 230 mm: No date: Reproducer - early model. Close-up (partially blurred) of upper mechanism on LHS. Label says 'Ac & Tab'
8/2/41	768	245 x 230 mm: No date: Reproducer - early model. Close-up of mechanism on RHS
8/2/42	769	255 x 185 mm: Reproducer 36 col - Front. Back of print says 'Standard m/c'
8/2/43	770	295 x 225 mm: Powers Four Reproducing Punch -Experimental. RHS, no covers
8/2/44	771	295 x 225 mm: Powers Four Reproducing Punch - Experimental. Same as 770
8/2/45	772	295 x 225 mm: Powers Four Reproducing Punch - Experimental. LHS, no covers
8/2/46	773	295 x 225 mm: Powers Four Reproducing Punch - Experimental. Same as 772
8/2/47	774	250 x 200 mm: 26 Col Reproducing Punch - Experimental. Oblique front & LHS, no covers
8/2/48	775	250 x 200 mm: 26 Col Reproducing Punch - Experimental. Same as 774
8/2/49	776	295 x 220 mm: Powers Four Reproducing Punch - LHS, no

covers. Many components numbered on the print with part numbers and references to a written document which is no longer attached

8/2/50	777	295 x 220 mm: Powers Four Reproducing Punch - LHS, no covers. Same as 776 without the annotations
8/2/51	778	295 x 220 mm: Powers Four Reproducing Punch - RHS, no covers. Many components numbered on the print with part numbers and references to a written document which is no longer attached
8/2/52	779	295 x 220 mm: Powers Four Reproducing Punch - RHS, no covers. Same as 778 without the annotations
8/2/53	780	280 x 225 mm: Powers Four Reproducing Punch - LHS, no covers. Experimental machine, 1st stage
8/2/54	781	280 x 225 mm: Powers Four Reproducing Punch - LHS, no covers. Same as 780
8/2/55	782	290 x 220 mm: Reproducer 45 col - Oblique front and LHS, no covers, showing Card Count Control
8/2/56	783	290 x 220 mm: Reproducer 45 col - Oblique front and LHS, no covers. Same as 782
8/2/57	784	290 x 220 mm: Reproducer 45 col - Oblique rear and LHS, no covers, showing Card Count Control
8/2/58	785	290 x 220 mm: Reproducer 45 col - Oblique rear and LHS, no covers. Same as 784
8/2/59	786	245 x 190 mm: Reproducer 45 col - Close-up of front, no covers
8/2/60	787	245 x 190 mm: Reproducer 45 col -

		Close-up of front, no covers. Same as 786
8/2/61	788	290 x 220 mm: Reproducer 45 col - Close-up of RHS, no covers
8/2/62	789	290 x 220 mm: Reproducer 45 col - Close-up of RHS, no covers. Same as 788
8/2/63	790	255 x 200 mm: Reproducer 45 col - Distant shot of front, no covers. Shows workshop environment
8/2/64	791	300 x 225 mm: Reproducer 45 col - LHS, no covers. Early machine in workshop environment
8/2/65	792	250 x 200 mm: Reproducer 26 col - Rear. Components of covers identified by part numbers
8/2/66	793	250 x 200 mm: Reproducer 45 col - Front
8/2/67	794	235 x 190 mm: Reproducer 80/40 col - Rear. Master cards 80 col, copy cards 40 col
8/2/68	795	205 x 150 mm: Reproducer 40/80 col - unmounted transfer box. Master cards 40 col, copy cards 80 col. Box shown upside down
8/2/69	796	205 x 150 mm: Reproducer 40/80 col - Oblique view of front and LHS. 40 col read mechanism in situ; transfer box and 80 col punching mechanism not fitted
8/2/70	797	200 x 155 mm: Reproducer 40/80 col - 40 col read mechanism only. Unmounted, and viewed from underneath
8/2/71	798	205 x 150 mm: Reproducer 40/80 col - unmounted transfer box. Master cards 40 col, copy cards 80 col; shown right way up; cf 795
8/2/72	799	205 x 145 mm: Reproducer 40/80 col

		- Front. 40 col read mechanism in situ; transfer box and 80 col punching mechanism not fitted
8/2/73	800	205 x 145 mm: Reproducer 40/80 col - Rear. 40 col read mechanism in situ; transfer box and 80 col punching mechanism not fitted
8/2/74	801	205 x 145 mm: Reproducer 40/80 col - Oblique view of front and RHS. 40 col read mechanism in situ; transfer box and 80 col punching mechanism not fitted
8/2/75	802	200 x 155 mm: Reproducer 40/80 col - unmounted transfer box. Same as 798
8/2/76	803	200 x 155 mm: Reproducer 40/80 col - unmounted transfer box. Same as 795
8/2/77	804	200 x 155 mm: Reproducer 40/80 col - 40 col read mechanism only. Same as 797
8/2/78	805	205 x 150 mm: Reproducer 40/80 col - Oblique view of front and RHS. Same as 801
8/2/79	806	205 x 145 mm: Reproducer 40/80 col - Rear. 40 col read mechanism in situ; transfer box and 80 col punching mechanism not fitted. Same as 800
8/2/80	807	205 x 155 mm: Reproducer 40/80 col - Front. Same as 799
8/2/81	808	210 x 155 mm: Reproducer 40/80 col - Oblique view of front and LHS
8/2/82	809	240 x 190 mm: Reproducer 45/80 col - Oblique view of rear. Master cards 45 col, copy cards 80 col
8/2/83	810	240 x 190 mm: Reproducer 45/80 col - Oblique view of front. Master cards 45 col, copy cards 80 col

8/2/84	811	240 x 190 mm: Reproducer 45/80 col - LHS. Master cards 45 col, copy cards 80 col
8/2/85	812	240 x 190 mm: Reproducer 45/80 col - RHS. Master cards 45 col, copy cards 80 col
8/2/86	813	240 x 190 mm: Reproducer 45/80 col - Rear. Master cards 45 col, copy cards 80 col
8/2/87	814	210 x 160 mm: Reproducer 36 col - Stop/Start & other mechanism
8/2/88	815	210 x 160 mm: Reproducer 36 col - Stop/Start & other mechanism. Same as 814
8/2/89	816	210 x 160 mm: Reproducer 36 col - Receiver & numbering device
8/2/90	817	210 x 160 mm: Reproducer 36 col - Receiver & numbering device. Same as 816
8/2/91	818	210 x 160 mm: Reproducer 36 col - Receiver & numbering device. Same as 816
8/2/92	819	210 x 160 mm: Reproducer 36 col - Stop/Start & other mechanism. Same as 814
8/2/93	820	285 x 225 mm: Reproducer 45 col - Oblique view of Front and RHS. Shows pedal-operated Card Weight Lifting Device - pedal raised, card weights down
8/2/94	821	285 x 225 mm: Reproducer 45 col - Oblique view of Front and RHS. Same as 820
8/2/95	822	285 x 225 mm: Reproducer 45 col - Oblique view of Front and RHS. Shows pedal-operated Card Weight Lifting Device - pedal depressed, card weights up
8/2/96	823	295 x 225 mm: Reproducer 36 col -

		Oblique close-up of front
8/2/97	824	295 x 225 mm: Reproducer 36 col - Oblique close-up of front. Same as 823
8/2/98	825	290 x 225 mm: Powers Four Reproducing Punch - RHS & front. Experimental machine, 1st stage
8/2/99	826	255 x 200 mm: 1936: Powers Four Reproducing Punch - Front. All controls identified on the print. Glued into a printed set of operating instructions dated March 1936

GANG PUNCHES

8/2/100	827	200 x 150 mm: Powers Four High Speed Gang Punch - Front
8/2/101	828	250 x 200 mm: Powers Four Gang Punch - from above, no covers
8/2/102	829	250 x 200 mm: Powers Four Gang Punch - from behind, no covers
8/2/103	830	250 x 200 mm: Powers Four Gang Punch - from front, no covers
8/2/104	831	255 x 210 mm: 1938: Powers One Gang Punch - Rear & RHS from above. Fitted with serial number punching device
8/2/105	832	255 x 210 mm: 1938: Powers One Gang Punch - Rear & RHS from above. Same as 831
8/2/106	833	255 x 210 mm: 1938: Powers One Gang Punch - Front from slightly above
8/2/107	834	180 x 160 mm: 1938: Powers One Gang Punch - Front and RHS, covers on
8/2/108	835	205 x 155 mm: Powers Four Gang Punch (Special)

8/2/109	836	155 x 110 mm: High Speed Gang Punch 45 col
8/2/110	837	155 x 110 mm: High Speed Gang Punch 45 col. Same as 836
8/2/111	838	290 x 220 mm: Powers Four High Speed Gang Punch - Rear, no covers. Fitted with numbering device
8/2/112	839	290 x 220 mm: Powers Four High Speed Gang Punch - Front, no covers. Fitted with numbering device
8/2/113	840	250 x 200 mm: High Speed Gang Punch. Apparently a very early machine
8/2/114	841	100 x 80 mm: High Speed Gang Punch. Small copy of 840
8/2/115	842	245 x 195 mm: 1931: Powers Four Gang Punch 26 col
8/2/116	843	100 x 80 mm: Powers Four Gang Punch 26 col. Small copy of 842
8/2/117	844	215 x 160 mm: Powers Four Gang Punch with Count Control and Serial Numbering Device. View from behind the hopper, showing detail of Count Control
8/2/118	845	100 x 75 mm: Powers Four Gang Punch with Count Control and Serial Numbering Device. Small copy of 844
8/2/119	846	100 x 75 mm: Powers Four Gang Punch with Count Control and Serial Numbering Device. Small copy of 844
8/2/120	847	100 x 85 mm: Powers Four Gang Punch with Serial Numbering Device. View from the side
8/2/121	848	100 x 85 mm: Powers Four Gang Punch with Count Control and

Serial Numbering Device, no covers. Oblique view from behind and above

8/2/122 849 100 x 85 mm: Powers Four Gang Punch with Count Control and Serial Numbering Device, no covers. Copy of 848

SPECIAL PUNCHES

8/2/123 850 215 x 170 mm: 1958: High Speed Summariser Punch 40 col

8/2/124 851 250 x 200 mm: Tape Perforating Machine, no covers, front

8/2/125 852 250 x 200 mm: Tape Perforating Machine, no covers, front from slightly above

8/2/126 853 250 x 200 mm: Tape Perforating Machine, no covers, rear

8/2/127 854 165 x 120 mm: Tape Perforating Machine, no covers. Smaller copy of 852

8/2/128 855 165 x 120 mm: Tape Perforating Machine, no covers. Smaller copy of 852

8/2/129 856 230 x 165 mm: Tape Perforating Machine, no covers. Smaller copy of 851, cut out in outline and mounted on glossy white card

8/2/130 857 230 x 165 mm: Tape Perforating Machine, no covers. Smaller copy of 852, cut out in outline and mounted on glossy white card

8/2/131 858 230 x 165 mm: Tape Perforating Machine, no covers. Smaller copy of 852, cut out in outline and mounted on glossy white card

8/2/132 859 230 x 165 mm: Tape Perforating Machine, no covers. Smaller copy of 853, cut out in outline and mounted on glossy white card

8/2/133	860	215 x 165 mm: Sales Recorder. Eleven push- buttons mounted in a detached frame, for fitting in the machine shown in 861
8/2/134	861	150 x 105 mm: 1950: Sales Recorder. Comptometer-like keyboard, 7-cylinder drum with hand-settable slides, printable till-roll. Label identifies it as "Sales Recorder Punch"
8/2/135	862	170 x 120 mm: 1950: Input and Output Machine. Probably the mechanical elements of the E.M.P. Electronic Multiplying Punch
8/2/136	863	165 x 120 mm: Hand Punch 45 col with front-mounted tab rack and extended slide
8/2/137	864	100 x 90 mm: Plate Punch 45 col
8/2/138	865	150 x 95 mm: The All-Electric Verifier 45 col
8/2/139	866	105 x 70 mm: The All-Electric Verifier 45 col. Smaller copy of 865
8/2/140	867	105 x 70 mm: The All-Electric Verifier 45 col. Smaller copy of 865
8/2/141	868	105 x 70 mm: The All-Electric Verifier 45 col. Smaller copy of 865
8/2/142	869	105 x 90 mm: Hand Punch with Qwerty keyboard 45 col
8/2/143	870	105 x 90 mm: Hand Punch with Qwerty keyboard 45 col
8/2/144	871	105 x 90 mm: Hand Punch with Motor assistance 45 col
8/2/145	872	150 x 90 mm: Hand Punch with Motor assistance 45 col

8/2/146	873	110 x 70 mm: Hand Punch with Motor assistance 45 col. Smaller copy of 872
8/2/147	874	155 x 110 mm: Unidentified Machine 65 col with selective column cut-out levers. Possibly the lower half of a reproducing punch
8/2/148	875	100 x 75 mm: Multifield Punching Machine
8/2/149	876	100 x 75 mm: Multifield Punching Machine
8/2/150	877	165 x 120 mm: Multifield Punching Machine 65 col. No covers
8/2/151	878	140 x 110 mm: Portable Punch 65 col. Mounted on stand
8/2/152	879	140 x 110 mm: Portable Punch 65 col. Mounted on stand. Copy of 878
8/2/153	880	105 x 85 mm: Portable Punch 65 col. Mounted on stand. Copy of 878
8/2/154	881	145 x 100 mm: Portable Punch 65 col. End view, no covers
8/2/155	882	155 x 110 mm: Portable Punch 65 col. Front view, no covers
8/2/156	883	155 x 110 mm: Portable Punch 65 col. Front view, no covers. Copy of 882
8/2/157	884	155 x 110 mm: Portable Punch 65 col. Front view, no covers. Copy of 882
8/2/158	885	125 x 90 mm: Portable Punch 65 col. Top view
8/2/159	886	135 x 115 mm: Portable Punch 65 col. Top view. Copy of 885
8/2/160	887	105 x 85 mm: Portable Punch 36 col. Mounted on stand. Caption says 'With Covers', but they don't appear to be there.

8/2/161	888	150 x 110 mm: Portable Punch 36 col. No covers. Shows rotating punch-setting mechanism
8/2/162	889	150 x 110 mm: Portable Punch 36 col. No covers. Copy of 888
8/2/163	890	160 x 110 mm: Special Machine for Cross-Perforating Stub Cards
8/2/164	891	100 x 75 mm: Special Machine for Cross-Perforating Stub Cards. Copy of 890
8/2/165	892	150 x 110 mm: Serial Numbering Machine - Top view, no covers. Actual numbering mechanism missing?
8/2/166	893	150 x 110 mm: Serial Numbering Machine - Top view, no covers. Copy of 892
8/2/167	894	150 x 110 mm: Serial Numbering Machine - Top view, no covers. Copy of 892
8/2/168	895	165 x 120 mm: 1956: 40 col Serial Punch (as supplied to G.K.N. Cardiff). Front view, with covers on base
8/2/169	896	165 x 120 mm: 1956: 40 col Serial Punch (as supplied to G.K.N. Cardiff). As 895, without covers
8/2/170	897	165 x 120 mm: 1956: 40 col Serial Punch (as supplied to G.K.N. Cardiff). Side view, without covers
8/2/171	898	165 x 120 mm: 1956: 40 col Serial Punch (as supplied to G.K.N. Cardiff). Numbering mechanism and control buttons
8/2/172	899	165 x 120 mm: 1956: 40 col Serial Punch (as supplied to G.K.N. Cardiff). As 898, from above
8/2/173	900	165 x 120 mm: 1956: 40 col Serial

		Punch (as supplied to G.K.N. Cardiff). Close-up of a card passing from magazine through the numbering mechanism
8/2/174	901	165 x 120 mm: 1956: 40 col Serial Punch (as supplied to G.K.N. Cardiff). A pile of 40 column cards, with no serial numbers visible
8/2/175	902	100 x 75 mm: Multiplying Punch
8/2/176	903	100 x 75 mm: Multiplying Punch. Copy of 902
8/2/177	904	155 x 115 mm: 36 col Mark Scanning Punch
8/2/178	905	160 x 115 mm: Cross-Adding Punch - Front view
8/2/179	906	100 x 75 mm: Cross-Adding Punch - Front view. Copy of 905
8/2/180	907	100 x 75 mm: Cross-Adding Punch - Front view. Copy of 905
8/2/181	908	145 x 95 mm: Cross-Adding Punch - Front view, different machine, showing panel of individual sector non-print levers
8/2/182	909	170 x 120 mm: Cross-Adding Punch - Front view of machine in 905, with shelf added to LHS
8/2/183	910	170 x 120 mm: Cross-Adding Punch. Copy of 909
8/2/184	911	170 x 120 mm: Cross-Adding Punch. Copy of 909
8/2/185	912	100 x 70 mm: Cross-Adding Punch. Copy of 909
8/2/186	913	100 x 70 mm: Cross-Adding Punch. Copy of 909
8/2/187	914	170 x 120 mm: Cross-Adding Punch - Rear view, with access door on RHS

open

8/2/188	915	160 x 115 mm: Cross-Adding Punch - Oblique view of front & LHS, no covers
8/2/189	916	160 x 115 mm: Cross-Adding Punch. Copy of 915
8/2/190	917	160 x 115 mm: Cross-Adding Punch - Oblique view of LHS, no covers
8/2/191	918	160 x 115 mm: Cross-Adding Punch - Oblique view of LHS, no covers. Copy of 917
8/2/192	919	160 x 115 mm: Cross-Adding Punch - Oblique view of RHS and rear of head, no covers, showing bowden cables leading from transfer mechanism above arithmetic unit to punch unit
8/2/193	920	160 x 115 mm: Cross-Adding Punch - Oblique view of RHS and rear of head, no covers. Copy of 919
8/2/194	921	160 x 115 mm: Cross-Adding Punch - Oblique view of LHS and rear of head, no covers, showing bowden cables leading from transfer mechanism above arithmetic unit to punch unit
8/2/195	922	160 x 115 mm: Cross-Adding Punch - Oblique view of LHS and rear of head, no covers. Copy of 921
8/2/196	923	160 x 115 mm: No date: Cross-Adding Punch - Oblique view of LHS and rear of head, no covers. Copy of 921
8/2/197	924	160 x 115 mm: No date: Cross-Adding Punch - Oblique view of RHS & rear, no covers, showing bowden cables leading to punch unit
8/2/198	925	160 x 115 mm: No date: Cross-Adding Punch - Oblique view of RHS & rear, no covers. Copy of 924

8/2/199	926	160 x 115 mm: Cross-Adding Punch - Close-up of part of mechanism
8/2/200	927	155 x 115 mm: Comparing Reproducing Punch - Oblique view of Front & RHS
8/2/201	928	155 x 115 mm: Comparing Reproducing Punch - Oblique view of Rear & LHS
8/2/202	929	155 x 115 mm: Comparing Reproducing Punch - Oblique view of Rear & RHS
8/2/203	930	155 x 115 mm: Comparing Reproducing Punch - Oblique view of Rear & RHS. Copy of 929
8/2/204	931	155 x 115 mm: Comparing Reproducing Punch - Oblique view of Front and LHS
8/2/205	932	155 x 115 mm: Comparing Reproducing Punch - Oblique view of Front & RHS, no covers
8/2/206	933	155 x 115 mm: Comparing Reproducing Punch - Oblique view of Front and LHS, no covers
8/2/207	934	155 x 115 mm: Comparing Reproducing Punch - Oblique view of Rear & LHS, no covers
8/2/208	935	155 x 115 mm: Comparing Reproducing Punch - Oblique view of Rear & RHS, no covers
8/2/209	936	155 x 115 mm: Comparing Reproducing Punch - upper card track from LHS/Rear and above, no covers
8/2/210	937	155 x 115 mm: Comparing Reproducing Punch - upper card track from LHS/Rear and above, no covers. Copy of 936
8/2/211	938	155 x 115 mm: Comparing Reproducing Punch - upper card

		track from LHS/Front and above, no covers
8/2/212	939	155 x 115 mm: Comparing Reproducing Punch - upper card track from LHS/Front and above, no covers. Copy of 938
8/2/213	940	155 x 115 mm: Comparing Reproducing Punch - gearing and drive chains, no covers
8/2/214	941	155 x 115 mm: Comparing Reproducing Punch - gearing and drive chains, no covers - another view
8/2/215	942	155 x 115 mm: Comparing Reproducing Punch - gearing in LHS of base, no covers
8/2/216	943	155 x 115 mm: No date: Comparing Reproducing Punch - LHS of base, no covers
8/2/217	944	155 x 115 mm: Comparing Reproducing Punch - punch unit from front, no covers
8/2/218	945	155 x 115 mm: Comparing Reproducing Punch - punch unit from above, no covers
8/2/219	946	155 x 115 mm: Comparing Reproducing Punch - close-up of punch unit from front, no covers. Note on back of print says 'Rear view (Top)', which contradicts note on back of 944
8/2/220	947	155 x 115 mm: Comparing Reproducing Punch - punch unit on lower card track, no cover
8/2/221	948	155 x 115 mm: Comparing Reproducing Punch - close up of magazine on lower card track, no covers
8/2/222	949	155 x 115 mm: Comparing Reproducing Punch - rear rank of

base, no covers

8/2/223 950 155 x 115 mm: Comparing
Reproducing Punch - close up of
cams and cam-followers in base, no
covers

8/2/224 951 155 x 115 mm: Comparing
Reproducing Punch - close up of
cams and cam-followers in base, no
covers. Copy of 950

REPRODUCERS

952 to 956 logically belong after 826

8/2/225 952 150 x 105 mm: 1949: 36 col
Reproducer - Oblique view of RHS &
Front, no covers

8/2/226 953 150 x 105 mm: 1949: 36 col
Reproducer - Oblique view of Rear
& RHS, no covers

8/2/227 954 150 x 105 mm: 1949: 36 col
Reproducer - Oblique view of LHS &
Rear, no covers

8/2/228 955 135 x 110 mm: 1949: 36 col
Reproducer - Close-up of drive
chain on RHS, no covers. Partial
copy of 953

8/2/229 956 190 x 110 mm: 65 col Reproducer -
Front

MISCELLANEOUS

8/2/230 957 200 x 150 mm: Early 7-unit Summary
Card Punch. This logically belongs
in boxes 8/1/1 to 8/1/4

8/2/231 958 280 x 225 mm: Unidentifiable
machine; looks very early

8/3 *Interpreters; interpolators; sales
recorder*

POWERS - INTERPRETERS, INTERPOLATORS AND SALES RECORDERS

8/3/1	959	160 x 120 mm: Jan-62: 80 col Interpreter, Type 430/431 - Front
8/3/2	960	215 x 165 mm: Nov-60: 80 col Interpreter - Front and LHS, no covers
8/3/3	961	215 x 165 mm: Nov-60: 80 col Interpreter - Rear and RHS, no covers
8/3/4	962	215 x 165 mm: Nov-60: 80 col Interpreter - Rear and RHS, with covers
8/3/5	963	215 x 165 mm: Nov-60: 80 col Interpreter - Front and LHS, with covers
8/3/6	964	215 x 165 mm: May-60: 40 col Interpreter - Front and RHS, no covers
8/3/7	965	215 x 165 mm: May-60: 40 col Interpreter - Rear and LHS, no covers
8/3/8	966	215 x 165 mm: May-60: 40 col Interpreter - Front and RHS, with covers
8/3/9	967	215 x 165 mm: May-60: 40 col Interpreter - Rear and LHS, with covers
8/3/10	968	215 x 165 mm: 29/06/1960: Powers Interpreter at No 4 Factory, Letchworth - Front. 968 and 969 are mounted back-to-back on the same card
8/3/11	969	215 x 165 mm: 29/06/1960: Powers Interpreter at No 4 Factory, Letchworth - Rear
8/3/12	970	155 x 110 mm: 65 or 80 col Interpreter - Rear - Hopper and detail of printing mechanism seen from RHS
8/3/13	971	280 x 220 mm: 65 col Interpreter -

		LHS and Rear, no covers. M/c no 15/6001. Austins
8/3/14	972	250 x 200 mm: 65 col Interpreter - RHS and Front, no covers. M/c no 15/6001. Austins
8/3/15	973	250 x 200 mm: 65 col Interpreter - LHS and Rear, no covers. Copy of 971, with outline of machine cut out to eliminate background detail of workshop
8/3/16	974	275 x 215 mm: 36 col Interpreter - RHS, no covers
8/3/17	975	275 x 215 mm: 36 col Interpreter - LHS, no covers
8/3/18	976	180 x 155 mm: 65 col Interpreter - dismantled print unit, side view
8/3/19	977	180 x 155 mm: 65 col Interpreter - dismantled print unit, other side view
8/3/20	978	245 x 195 mm: 65 col Interpreter - dismantled print unit, front
8/3/21	979	245 x 195 mm: 65 col Interpreter - dismantled print unit, rear
8/3/22	980	275 x 225 mm: Interpreter (original model?) - LHS, no covers
8/3/23	981	215 x 180 mm: Interpreter (original model?) - from above, no covers
8/3/24	982	240 x 240 mm: Interpreter (original model?) - close-up from above, no covers
8/3/25	983	280 x 230 mm: Sorter (45/90 col Interpreter) - part of card track from front and above
8/3/26	984	280 x 230 mm: Sorter (45/90 col Interpreter) - part of card track from rear

INTERPOLATORS

8/3/27	985	210 x 155 mm: 36 or 40 col Interpolator - Front
8/3/28	986	215 x 170 mm: Type 372 40 col Interpolator - Front. Mounted on card
8/3/29	987	215 x 170 mm: May-60: Type 372 40 col Interpolator - Rear
8/3/30	988	215 x 170 mm: May-60: Type 372 40 col Interpolator - Front, no covers
8/3/31	989	215 x 170 mm: May-60: Type 372 40 col Interpolator - Rear, no covers
8/3/32	990	215 x 170 mm: May-60: Type 372 40 col Interpolator - Rear, no covers. Copy of 989
8/3/33	991	155 x 110 mm: 36 or 40 col Interpolator - Front. Additional control or display mounted on front panel under the stackers
8/3/34	992	155 x 110 mm: 36 or 40 col Interpolator - RHS and Front
8/3/35	993	155 x 110 mm: Interpolator - Close-up of mechanism
8/3/36	994	155 x 110 mm: Interpolator - Close-up of mechanism, showing three push-rods operated by bowden cables
8/3/37	995	155 x 110 mm: Interpolator - Close-up of mechanism
8/3/38	996	155 x 110 mm: Interpolator - Close-up of comparator mechanism
8/3/39	997	155 x 110 mm: Interpolator - from front and above, showing top- mounted stacker controls
8/3/40	998	155 x 110 mm: Interpolator - Close-up of comparator mechanism -

early machine

8/3/41	999	155 x 110 mm: Interpolator - distant view of LHS, no covers
8/3/42	1000	240 x 170 mm: Interpolator - from front and below. No stackers fitted; shows card feed-rolls and deflectors
8/3/43	1001	240 x 165 mm: No date: Interpolator - Close-up along card track from RHS
8/3/44	1002	240 x 165 mm: Interpolator - Close-up along card track from LHS. 1001 and 1002 are a matching pair
8/3/45	1003	255 x 205 mm: Interpolator - From front, no covers, shot against a white background
8/3/46	1004	240 x 165 mm: Interpolator - From front and slightly above, no covers
8/3/47	1005	240 x 165 mm: Interpolator - From rear
8/3/48	1006	240 x 195 mm: Original Interpolator - Detail of top-mounted comparator
8/3/49	1007	245 x 185 mm: Original Interpolator - Overview of mechanism from rear, no covers. Shows primary and secondary hoppers, twin sensing units, comparator, and an unexplained third hopper
8/3/50	1008	245 x 185 mm: Original Interpolator - Overview of mechanism from front, no covers, showing only two stackers
8/3/51	1009	245 x 190 mm: Original Interpolator - Close-up of rear from behind the third hopper

8/3/52 1010 250 x 195 mm: Original
Interpolator - Overview of
mechanism from rear, no covers,
with third hopper removed to show
more detail of linkages

SALES RECORDER

8/3/53 1011 145 x 90 mm: Sales Recorder -
Front, showing open till drawer

8/3/54 1012 110 x 75 mm: Sales Recorder -
Front

8/3/55 1013 110 x 75 mm: Sales Recorder -
Front. Copy of 1012

8/3/56 1014 165 x 120 mm: Sales Recorder -
LHS, no covers; Showing ribbon
mechanism. Mounted on card

8/3/57 1015 165 x 120 mm: Sales Recorder -
Rear, no covers. Mounted on card

8/3/58 1016 165 x 120 mm: Sales Recorder - RHS
and rear from above, no covers.
Mounted on card

8/3/59 1017 165 x 120 mm: 1951: Sales Recorder
- Front, no covers. Mounted on
card

8/3/60 1018 165 x 120 mm: Sales Recorder -
lower mechanism from RHS and
above, no covers. Mounted on card

8/3/61 1019 165 x 120 mm: Sales Recorder -
lower mechanism from LHS, no
covers. Mounted on card

8/3/62 1020 165 x 120 mm: Sales Recorder -
Close-up of shafts and gearing.
Mounted on card

8/3/63 1021 165 x 120 mm: Sales Recorder, 36
col - assembled but no covers,
from LHS and front. Mounted on
card

8/3/64 1022 165 x 120 mm: Sales Recorder -
Rear and RHS from above, no

		covers. Mounted on card
8/3/65	1023	165 x 120 mm: 1951: Sales Recorder, 36 col - Front. Mounted on card
8/3/66	1024	140 x 110 mm: Sales Recorder - view showing card eject mechanism
8/3/67	1025	150 x 110 mm: Sales Recorder - view showing bell mechanism and card receiver
8/3/68	1026	150 x 110 mm: Sales Recorder - plan view of machine partly assembled
8/3/69	1027	150 x 110 mm: pre 1940: Sales Recorder - LHS, no covers
8/3/70	1028	150 x 110 mm: Sales Recorder - RHS, no covers
8/3/71	1029	150 x 110 mm: Sales Recorder - Rear, no covers
8/3/72	1030	160 x 115 mm: Sales Recorder - Close-up of lower mechanism from LHS
8/3/73	1031	140 x 105 mm: Sales Recorder - 1940 model, Front and above
8/3/74	1032	150 x 110 mm: Sales Recorder, 21 col - ribbon mechanism top view. Back of print says 'Now obsolete'!
8/3/75	1033	150 x 110 mm: Sales Recorder - motor and lower mechanism, front and RHS
8/3/76	1034	150 x 110 mm: Sales Recorder - motor and lower mechanism, rear
8/3/77	1035	150 x 110 mm: Sales Recorder - Front and RHS from slightly above
8/3/78	1036	150 x 110 mm: Sales Recorder - Front, no covers
8/3/79	1037	150 x 110 mm: Sales Recorder -

plan view, no covers

8/3/80	1038	150 x 110 mm: Sales Recorder - motor and lower mechanism, rear. Copy of 1034
8/3/81	1039	150 x 110 mm: 1945: Sales Recorder, 21 col - Front and LHS
8/3/82	1040	150 x 110 mm: 1940: Sales Recorder - LHS, no covers. Mounted on card on reverse of 1039
8/3/83	1041	160 x 110 mm: 1945: Sales Recorder, 21 col - paper unit from LHS. Mounted on card
8/4		<i>Hand punches; auto key punches</i>

POWERS PUNCHES

"AKP" = Automatic Key Punch

"UAKP" = Universal Automatic Key Punch

8/4/1	1042	160 x 120 mm: Hand Punch 80 (65?) col with printing mechanism
8/4/2	1043	160 x 120 mm: Hand Punch Model C
8/4/3	1044	160 x 120 mm: Hand Punch Model C
8/4/4	1045	160 x 120 mm: Hand Punch 90 col
8/4/5	1046	180 x 130 mm: Hand Punch Early Model D
8/4/6	1047	180 x 130 mm: Hand Punch Early Model D
8/4/7	1048	180 x 130 mm: Hand Punch Early Model D, from underneath
8/4/8	1049	160 x 120 mm: Hand Punch Model D
8/4/9	1050	160 x 120 mm: Hand Punch Model D
8/4/10	1051	160 x 120 mm: Hand Punch Model D
8/4/11	1052	160 x 120 mm: Hand Punch Model D
8/4/12	1053	160 x 120 mm: Hand Punch Model D

8/4/13	1054	160 x 120 mm: Hand Punch Model D
8/4/14	1055	160 x 120 mm: Hand Punch Model D
8/4/15	1056	160 x 120 mm: Hand Punch Model D
8/4/16	1057	100 x 110 mm: Hand Punch Model D
8/4/17	1058	150 x 110 mm: Early Model "D"
8/4/18	1059	175 x 155 mm: Early Model "D". 2 copies
8/4/19	1060	200 x 150 mm: Card Gripper for Model D Punch. 2 copies
8/4/20	1061	200 x 150 mm: Early Model "D"
8/4/21	1062	250 x 150 mm: Hand Punch (Special?)
8/4/22	1063	300 x 190 mm: Hand Punch 65 col
8/4/23	1064	290 x 230 mm: Close-up of Model "S" Punch. 2 copies
8/4/24	1065	150 x 110 mm: UAKP with Count Control 36 col. 2 copies
8/4/25	1066	150 x 110 mm: UAKP with Count Control 36 col
8/4/26	1067	150 x 110 mm: UAKP with Count Control 36 col. Rear LHS showing mechanism. 2 copies
8/4/27	1068	150 x 110 mm: UAKP with Count Control 36 col. Front LHS showing mechanism. 2 copies
8/4/28	1069	150 x 110 mm: 65 col UAKP no 2/8024 with 2-stage punching. Cover removed showing mechanism
8/4/29	1070	130 x 115 mm: 65 col UAKP no 2/8024 with 2-stage punching. Attached label says 'Interstage Punching <u>and</u> Sensing Key Punch'
8/4/30	1071	150 x 115 mm: 65 col UAKP no 2/8024 with 2-stage punching. 2

copies

8/4/31	1072	150 x 115 mm: 65 col UAKP no 2/8024 with 2-stage punching
8/4/32	1073	150 x 115 mm: 65 col UAKP no 2/8024 with 2-stage punching. Rear view with covers
8/4/33	1074	150 x 115 mm: 65 col UAKP no 2/8024 with 2-stage punching. Rear view with covers
8/4/34	1075	150 x 115 mm: 65 col UAKP no 2/8024 with 2-stage punching. Front view with covers
8/4/35	1076	215 x 150 mm: UAKP no 23/6002 65 col
8/4/36	1077	300 x 225 mm: UAKP no 23/6002 65 col. Larger version of 1076. 2 copies
8/4/37	1078	300 x 225 mm: UAKP no 23/6002 65 col. 2 copies
8/4/38	1079	150 x 110 mm: UAKP showing Automatic Carriage Return
8/4/39	1080	150 x 110 mm: UAKP 36 col with Count Control
8/4/40	1081	260 x 155 mm: New Visible AKP 45 col
8/4/41	1082	260 x 155 mm: New Visible AKP 45 col. 2 copies
8/4/42	1083	235 x 175 mm: AKP with Variable Control. 2 copies
8/4/43	1084	235 x 175 mm: AKP with Variable Control, from rear
8/4/43	1085	235 x 175 mm: AKP with complementary carriage. 2 copies
8/4/44	1086	235 x 175 mm: AKP with complementary carriage. 2 copies

8/4/45	1087	235 x 175 mm: AKP with Auto carriage return. 2 copies
8/4/46	1088	190 x 140 mm: AKP with Auto carriage return
8/4/47	1089	290 x 230 mm: AKP with Relay keyboard. 2 copies
8/4/48	1090	290 x 230 mm: AKP with Relay keyboard. 2 copies
8/4/49	1091	250 x 180 mm: Serial Number punching control unit
8/4/50	1092	250 x 180 mm: Serial Number punching control unit
8/4/51	1093	185 x 170 mm: Bookkeeping m/c for AKP hook-up
8/4/52	1094	215 x 180 mm: Bookkeeping m/c for AKP hook-up
8/4/53	1095	245 x 190 mm: Bookkeeping m/c for AKP hook-up
8/4/54	1096	245 x 195 mm: AKP Carriage (AKP coupled to Sundstrand)
8/4/55	1097	245 x 195 mm: AKP Carriage (AKP coupled to Sundstrand)
8/4/56	1098	245 x 195 mm: UAKP receiver with mirror, etc. 2 copies
8/4/57	1099	240 x 185 mm: AKP (American?). 2 copies
8/4/58	1100	200 x 155 mm: Restyled 65 col UAKP with Normal/Interstage. Close-up of front of carriage
8/4/59	1101	240 x 220 mm: AKP with Variable Control 45 col. 2 copies
8/4/60	1102	240 x 220 mm: AKP with Variable Control 45 col, rear view. 2 copies
8/4/61	1103	220 x 190 mm: AKP rear view. 2

copies

8/4/62	1104	290 x 230 mm: AKP rear view - old type receiver
8/4/63	1105	210 x 165 mm: 1960: UAKP 40 col - Front, with covers
8/4/64	1106	210 x 165 mm: 1960: UAKP 40 col - Rear, with covers
8/4/65	1107	210 x 165 mm: 1960: UAKP 40 col - Rear, without covers
8/4/66	1108	210 x 165 mm: 1960: UAKP 40 col - Front, without covers. 2 copies
8/4/67	1109	290 x 205 mm: Girl operating an AKP - probably 45 col. 2 copies
8/4/68	1110	275 x 190 mm: Alphabetical Tabulating by Powers Machines. Part of a publicity poster showing an AKP with automatic carriage return and typewriter keyboard
8/4/69	1111	285 x 225 mm: S.F.P. 65 col VAKP. 3 copies. "VAKP" probably means 'Visible' AKP
8/4/70	1112	275 x 225 mm: T.F.P. 36 col VAKP Count control & Serial Numbering. 2 copies
8/4/71	1113	105 x 80 mm: AKP Marginal Stop. Brown envelope containing 3 copies of a small photo of a small component.
8/4/72	1114	240 x 225 mm: 45 col AKP with Variable Control
8/4/73	1115	275 x 220 mm: 45 col AKP - rear view
8/4/74	1116	190 x 220 mm: 45 col AKP - rear view. Cut down copy of 1115
8/4/75	1117	145 x 110 mm: AKP with Auto carriage return - no covers, Front RHS

8/4/76	1118	145 x 110 mm: AKP with Auto carriage return - no covers, Front LHS
8/4/77	1119	235 x 170 mm: AKP showing Variable Control - Front LHS
8/4/78	1120	235 x 170 mm: AKP showing Variable Control - Front RHS
8/4/79	1121	205 x 155 mm: AKP 45 col - Front
8/4/80	1122	200 x 155 mm: 1957: Auto Recording Feature fitted to UAKP. Box closed
8/4/81	1123	200 x 155 mm: 1957: Auto Recording Feature fitted to UAKP. Box open showing major components
8/4/82	1124	200 x 155 mm: 1957: Auto Recording Feature fitted to UAKP. Component detail
8/4/83	1125	200 x 155 mm: 1957: Auto Recording Feature fitted to UAKP. Component detail, another view
8/4/84	1126	200 x 155 mm: 1957: Auto Recording Feature fitted to UAKP. Component detail, another view
8/4/85	1127	200 x 155 mm: 1957: Auto Recording Feature fitted to UAKP. Component detail, another view
8/4/86	1128	200 x 155 mm: 1957: Auto Recording Feature fitted to UAKP. Keyboard fitment
8/4/87	1129	200 x 155 mm: 1957: Auto Recording Feature fitted to UAKP. Box fitted in place above keypad
8/4/88	1130	150 x 105 mm: 36 col UAKP - Count Control - No covers, Front LHS
8/4/89	1131	150 x 105 mm: 36 col UAKP - Count Control - No covers, Front RHS
8/4/90	1132	150 x 105 mm: 36 col UAKP - Count Control - No covers, Rear LHS

8/4/91	1133	155 x 110 mm: 65 col two-stage AKP no 2/8024 - Front RHS
8/4/92	1134	155 x 110 mm: 65 col two-stage AKP no 2/8024 - Rear
8/4/93	1135	155 x 110 mm: 65 col two-stage AKP no 2/8024 - Rear RHS
8/4/94	1136	155 x 110 mm: 65 col two-stage AKP no 2/8024 - Rear RHS. No covers. Stage key down for 2-stage punching
8/4/95	1137	155 x 110 mm: 65 col two-stage AKP no 2/8024 - Rear RHS. No covers. Stage key up for single stage (normal) punching
8/4/96	1138	130 x 110 mm: 65 col two-stage AKP no 2/8024 - RHS, no covers
8/4/97	1139	155 x 110 mm: 65 col two-stage AKP no 2/8024 - RH rear corner, no covers
8/4/98	1140	150 x 110 mm: AKP - RHS, no covers, keypad & bowden cables
8/4/99	1141	210 x 170 mm: 65 col Restyled UAKP - RH rear, no covers
8/4/100	1142	210 x 170 mm: 65 col Restyled UAKP - R end of Front, no covers. Punch key assembly not fitted
8/4/101	1143	210 x 170 mm: 65 col Restyled UAKP - RH rear, no covers
8/4/102	1144	210 x 170 mm: 65 col Restyled UAKP - R end of Front, no covers. Punch key assembly not fitted
8/4/103	1145	210 x 170 mm: 65 col Restyled UAKP - RH rear, no covers
8/4/104	1146	210 x 170 mm: 65 col Restyled UAKP - RH from above, no covers
8/4/105	1147	210 x 170 mm: 80 col Restyled UAKP - RH, interstage mechanism

8/4/106	1148	205 x 195 mm: 65 col UAKP - rear from above, no covers
8/4/107	1149	205 x 205 mm: 65 col UAKP - RH rear corner, no covers
8/4/108	1150	205 x 190 mm: 65 col UAKP - rear, no covers
8/4/109	1151	205 x 220 mm: 65 col UAKP - LH, no covers
8/4/110	1152	210 x 210 mm: 21 col AKP - close-up of front. 3 copies
8/4/111	1153	210 x 210 mm: 21 col AKP - close-up of front. 2 copies
8/4/112	1154	210 x 210 mm: AKP - close-up of punch block and bowden cables. 2 copies
8/4/113	1155	215 x 165 mm: 1959: Prototype "Visible" card receiver - 65/80 col UAKP. Front
8/4/114	1156	215 x 165 mm: 1959: Prototype "Visible" card receiver - 65/80 col UAKP. Front & LHS
8/4/115	1157	215 x 165 mm: 1959: Prototype "Visible" card receiver - 65/80 col UAKP. Front & RHS
8/4/116	1158	215 x 165 mm: 1959: Prototype "Visible" card receiver - 65/80 col UAKP. Rear
8/4/117	1159	205 x 205 mm: 40 col UAKP (DP 8000)- front, no covers. Punch key block not fitted
8/4/118	1160	205 x 205 mm: 40 col UAKP (DP 8000)- front and above, no covers
8/4/119	1161	260 x 205 mm: 45 col AKP - front and LH
8/4/120	1162	220 x 205 mm: 65 col UAKP - LHS and rear, no covers

8/4/121	1163	165 x 120 mm: 65 col UAKP - front and RHS
8/4/122	1164	120 x 95 mm: Multifield Punching Machine
8/4/123	1165	215 x 160 mm: 1935: AKP verifying attachment - dismounted components
8/4/124	1166	200 x 145 mm: 65 col UAKP with overhead lamp - front
8/4/125	1167	215 x 165 mm: 36 col modified punch - front. 2 copies
8/4/126	1168	215 x 165 mm: 36 col modified punch - front & LH from above
8/4/127	1169	215 x 165 mm: 36 col modified punch - rear
8/4/128	1170	215 x 165 mm: 36 col modified punch - rear & RH. Punch key block upside down
8/4/129	1171	215 x 165 mm: 65 col modified punch - rear. 2 copies
8/4/130	1172	215 x 165 mm: 65 col modified punch - RH & rear. Punch key block upside down. 2 copies
8/4/131	1173	215 x 165 mm: 65 col modified punch - front & LH from above. 2 copies
8/4/132	1174	215 x 165 mm: 65 col modified punch - front, hopper from below. 2 copies
8/4/133	1175	215 x 165 mm: 65 col modified punch - RH & rear. Punch key block upside down
8/4/134	1176	215 x 165 mm: 36 and 65 col UAKPs - new type set bars. See photo 1199 for explanation of details
8/4/135	1177	100 x 80 mm: UAKP - Punch/Verify indicator seen from behind

8/4/136	1178	100 x 80 mm: Unidentified assembly
8/4/137	1179	100 x 75 mm: AKP - partial close-up of carriage
8/4/138	1180	155 x 110 mm: "Australian Rep AKP" - partial view of set-bar ass'y
8/4/139	1181	255 x 200 mm: Unidentified assembly
8/4/140	1182	220 x 150 mm: AKP - set-bar ass'y from rear LH & above. Arrow on print marks "Bracket F1972 fitted here for future"
8/4/141	1183	165 x 110 mm: Early AKP - front LH, no covers
8/4/142	1184	150 x 110 mm: 80 col UAKP with Counter - LH front from above. Counter fitted on LH frame
8/4/143	1185	155 x 110 mm: 65 (?) col UAKP - LH front from above. 2 punch key blocks fitted side by side
8/4/144	1186	155 x 110 mm: AKP 130 col - RH rear. Two 65 col set-bar units superimposed
8/4/145	1187	155 x 110 mm: AKP 130 col - rear. Two 65 col set-bar units superimposed
8/4/146	1188	160 x 110 mm: Australian Reproducing AKP - rear LH from above. Shows extra mechanism on top of punch unit
8/4/147	1189	160 x 110 mm: Australian Reproducing AKP - mechanical details
8/4/148	1190	255 x 155 mm: 45 col AKP - front and LH, no covers. Called the "New Visible AKP"
8/4/149	1191	255 x 155 mm: 45 col AKP - LH and front, no covers. Called the "New Visible AKP"

8/4/150	1192	285 x 225 mm: Early AKP - base and frame from RH rear
<p><i>Photos 1193 to 1204 are bound together in a buff cover and identified as referring to the "New Standard 36 and 65 Column U.A.K.P.s" On each print recent mechanical modifications are highlighted</i></p>		
8/4/151	1193	215 x 165 mm: 65 col UAKP - front and LHS from above
8/4/153	1194	215 x 165 mm: 65 col UAKP - hopper from front and below
8/4/154	1195	215 x 165 mm: 65 col UAKP - front from above
8/4/155	1196	215 x 165 mm: 65 col UAKP - RHS and rear
8/4/156	1197	215 x 165 mm: 65 col UAKP - distant shot of rear, covers fitted
8/4/157	1198	215 x 165 mm: 65 col UAKP - distant shot of front, covers fitted
8/4/158	1199	215 x 165 mm: 36 and 65 col UAKPs - new type set bars
8/4/159	1200	215 x 165 mm: 36 col UAKP - front and LHS
8/4/160	1201	215 x 165 mm: 36 col UAKP - front from slightly below
8/4/161	1202	215 x 165 mm: 36 col UAKP - rear
8/4/162	1203	215 x 165 mm: 36 col UAKP - RHS and rear
8/4/163	1204	215 x 165 mm: 36 col UAKP - distant shot of front, covers fitted
8/4/164	1205	250 x 200 mm: 45-90 col AKP with relay keyboards and numbering attachment - RHS and rear
8/4/165	1206	45-90 col AKP with relay keyboards

- rear, showing detail of receiver and numbering attachment

8/4/166 1207 300 x 225 mm: 45 col AKP
"uncoupled from MERCEDES m/c". 2 copies

REPRODUCERS

Photos 1208 to 1210 should have been filed in Box 8/2

8/4/167 1208 155 x 110 mm: Card Weight Lifting Mechanism fitted to 36 col Powers Four Reproducing Punch - Front RHS, no covers

8/4/168 1209 155 x 110 mm: Card Weight Lifting Mechanism fitted to 36 col Powers Four Reproducing Punch - Close-up of LHS, no covers

8/4/169 1210 155 x 110 mm: Card Weight Lifting Mechanism fitted to 36 col Powers Four Reproducing Punch - Close-up of Front & LHS, no covers

8/5 *Sorters*

POWERS SORTERS

8/5/1 1211 220 x 155 mm: Pinbox Selective Sorting

8/5/2 1212 290 x 225 mm: 45/90 Col Interpreter Unit for Sorter

8/5/3 1213 250 x 180 mm: 45/90 Col Interpreter Unit for Sorter - Components

8/5/4 1214 220 x 170 mm: 45/90 Col Interpreter Unit for Sorter

8/5/5 1215 295 x 230 mm: 45/90 Col Interpreter Unit for Sorter - Sub-Assembly

8/5/6 1216 300 x 225 mm: 45/90 Col Interpreter Unit for Sorter - Sub-Assembly

8/5/7	1217	250 x 200 mm: 45/90 Col Interpreter Unit for Sorter - Sub- Assembly
8/5/8	1218	250 x 200 mm: 45/90 Col Interpreter Unit for Sorter - Sub- Assembly
8/5/9	1219	250 x 200 mm: 45/90 Col Interpreter Unit for Sorter - Sub- Assembly
8/5/10	1220	290 x 225 mm: Grading Sorter
8/5/11	1221	210 x 160 mm: Grading Sorter
8/5/12	1222	210 x 160 mm: Grading Sorter
8/5/13	1223	210 x 160 mm: Grading Sorter
8/5/14	1224	280 x 225 mm: Grading Sorter
8/5/15	1225	210 x 155 mm: Selective Sorting - Pinbox. 2 copies
8/5/16	1226	210 x 160 mm: Selective Sorting Attachment, Powers Four
8/5/17	1227	250 x 200 mm: Selective Sorting - Knock-Off Mechanism
8/5/18	1228	250 x 200 mm: Selective Sorting - Knock-Off Mechanism
8/5/19	1229	250 x 200 mm: Selective Sorting
8/5/20	1230	280 x 230 mm: Selective Sorting Attachment, Powers Four
8/5/21	1231	275 x 225 mm: Selective Sorting Attachment, Powers Four
8/5/22	1232	245 x 195 mm: Selective Sorting Attachment, Powers Four
8/5/23	1233	255 x 205 mm: 1934: Selective Sorting - Group Sorting Device
8/5/24	1234	120 x 90 mm: Selective Sorting - Pins for Pinbox. In brown envelope; 4 copies

8/5/25	1235	155 x 115 mm: Selective Sorting Device
8/5/26	1236	155 x 115 mm: Selective Sorting Device
8/5/27	1237	155 x 115 mm: Selective Sorting Device
8/5/28	1238	155 x 115 mm: Selective Sorting Device
8/5/29	1239	245 x 195 mm: Powers Four Sorter - Full Column Counting
8/5/30	1240	215 x 160 mm: Powers Four Sorter - Full Column Counting
8/5/31	1241	290 x 125 mm: Powers Four Sorter - Full Column Counting - Sub-Assembly
8/5/32	1242	290 x 125 mm: Powers Four Sorter - Full Column Counting - Sub-Assembly
8/5/33	1243	255 x 210 mm: 1937: 2-Stage Sensing Sorter
8/5/34	1244	255 x 210 mm: 2-Stage Sensing Sorter
8/5/35	1245	255 x 210 mm: 2-Stage Sensing Sorter
8/5/36	1246	165 x 110 mm: Early Multiple Counting Sorter - Rear
8/5/37	1247	165 x 110 mm: Early Multiple Counting Sorter - from above
8/5/38	1248	165 x 110 mm: Early Multiple Counting Sorter - Front
8/5/39	1249	285 x 225 mm: Multi-Counting Sorter - Close-up of mechanism
8/5/40	1250	165 x 115 mm: 1931: Census Sorter - Hammer Unit
8/5/41	1251	220 x 190 mm: Printing Counting

		Sorter - being packed for despatch
8/5/42	1252	220 x 190 mm: Printing Counting Sorter - being packed for despatch
8/5/43	1253	155 x 110 mm: Census Machine - Adding & Counting mechanism
8/5/44	1254	155 x 110 mm: Census Machine - Adding & Counting mechanism
8/5/45	1255	155 x 110 mm: Census Machine - Adding & Counting mechanism
8/5/46	1256	155 x 110 mm: Census Machine - Adding & Counting mechanism
8/5/47	1257	250 x 195 mm: Census Machine - Experimental Printing Device
8/5/48	1258	210 x 160 mm: Census Machine - Experimental Printing Device
8/5/49	1259	145 x 110 mm: Printing Counting Sorter - test rig for sensing mechanism
8/5/50	1260	145 x 110 mm: Printing Counting Sorter - test rig for sensing mechanism
8/5/51	1261	165 x 110 mm: Census Sorter - Detail of mechanism
8/5/52	1262	155 x 120 mm: Multiple Counting Sorter
8/5/53	1263	140 x 105 mm: Printing Counting Sorter
8/5/54	1264	165 x 120 mm: 1960s: Restyled Multiple Counting Sorter
8/5/55	1265	200 x 150 mm: Unidentified mechanism
8/5/56	1266	290 x 205 mm: 1935: Girl operator loading cards into Sorter. 2 copies
8/5/57	1267	210 x 155 mm: Powers Four Sorter

		no 6/2028
8/5/58	1268	210 x 155 mm: Powers Four Sorter no 6/2028
8/5/59	1269	210 x 155 mm: Powers Four Sorter no 6/2028
8/5/60	1270	220 x 165 mm: Powers Four Sorter, showing FENNER BELT driving mechanism
8/5/61	1271	95 x 75 mm: 80 col Sorter
8/5/62	1272	210 x 155 mm: 1960: 40 col Sorter - front
8/5/63	1273	210 x 155 mm: 1960: 40 col Sorter - front, without covers
8/5/64	1274	210 x 155 mm: 1960: 40 col Sorter - rear
8/5/65	1275	210 x 155 mm: 1960: 40 col Sorter - rear, without covers
8/5/66	1276	210 x 155 mm: 21 col Sorter
8/5/67	1277	210 x 155 mm: 21 col Sorter
8/5/68	1278	155 x 115 mm: 36 or 40 col Sorter - front
8/5/69	1279	155 x 115 mm: 36 or 40 col Sorter - rear
8/5/70	1280	155 x 115 mm: 36 or 40 col Sorter - detail of mechanism
8/5/71	1281	155 x 115 mm: 36 or 40 col Sorter - rear, without covers
8/5/72	1282	155 x 115 mm: 36 or 40 col Sorter - detail of hopper mechanism
8/5/73	1283	155 x 115 mm: 36 or 40 col Sorter - body raised, showing motor
8/5/74	1284	155 x 115 mm: 36 or 40 col Sorter - body raised, showing motor, close-up

8/5/75	1285	150 x 110 mm: Sorter - twin sensing station, cover raised, mounted on stiff card
8/5/76	1286	215 x 165 mm: Unidentified Sorter - close-up of drive belt
8/5/77	1287	215 x 165 mm: Unidentified Sorter - close-up of stackers, reject end
8/5/78	1288	215 x 165 mm: Unidentified Sorter - close-up of motor
8/5/79	1289	215 x 165 mm: Unidentified Sorter - close-up of unidentified mechanism
8/5/80	1290	165 x 110 mm: Unidentified mechanism
8/5/81	1291	205 x 155 mm: Sorter - shutter delay device
8/5/82	1292	150 x 110 mm: Sorter - cover for pinbox
8/5/83	1293	165 x 110 mm: 45 col Sorter - close-up of sensing station and bowden cable
8/5/84	1294	165 x 110 mm: 45 col Sorter - mechanism
8/5/85	1295	165 x 110 mm: 45 col Sorter - countershaft drive mechanism
8/5/86	1296	165 x 110 mm: 45 col Sorter - mechanism
8/5/87	1297	165 x 110 mm: Very early Sorter - presumably 45 col
8/5/88	1298	215 x 175 mm: Unidentified Sorter - close-up of hopper end
8/5/89	1299	265 x 160 mm: Diagram showing how data is distributed, accumulated and printed in one passage of the cards through the Printing Multiple Counting Sorter

8/5/90	1300	280 x 195 mm: 1920s: Page showing typewriter key punch and sorter, from brochure of the Powers Accounting Machine Corporation of New York
8/5/91	1301	185 x 170 mm: Graph of card movement, in feet per second, against periods of the cycle, in degrees. Mounted on stiff card
8/6	1936-1959	Powers 'R' series [4 ring binders]

POWERS 'R' SERIES - 4 volumes of reference photos, numbered 8/6/1 to 8/6/4. The 'R' numbers by which the photos were once identified are given in the 'Other References' column

Most photos are 195 x 150 mm; the rest are 170 x 120 mm

<i>Item No.</i>	<i>[Serial Refernce]</i>	<i>[Date: Caption: Other reference(R No.)]</i>
8/6/1		R1-R199, with index
8/6/1/1-28	1302-1329	1940: 65 col Interpreter - original model: R1-R28
8/6/1/29	1330	21 col Interpreter: R29
8/6/1/30-32	1331-1333	36 col Interpreter: R30-R32
8/6/1/33	1334	21 col Interpreter: R33
8/6/1/34-48	1335-1349	1940/45: 21 col Sales Recorder: R34-R48
8/6/1/49-57	1350-1358	65 col Universal Automatic Key Punch: R49-R57 65 col Modified Punch
8/6/1/58	1359	Automatic Key Punch - 36 & 65 col set bar unit: R58
8/6/1/59	1360	1946: Hand Punch 65/130 col: R59
8/6/1/60-65	1361-1366	1943: 65 col Multifield Punch: R60-R65

8/6/1/66-88	1367-1389	Paper Cutting Machine: R66-R88
8/6/1/89-91	1390-1392	36 col Portable Punch: R89-91
8/6/1/92-98	1393-1399	36 col Universal Automatic Key Punch: R92-98
8/6/1/100- 114	1400-1414	1939: American Multiplier: R100- R114
8/6/1/115- 116	1415-1416	1936: Hansa 2 Stage Sensing Unit - Original: R115-R116
8/6/1/117- 118	1417-1418	1939: Transcriber: R117-R118
8/6/1/119- 123	1419-1423	1944: 65 col Cross Adding Punch - Experimental: R119-R123
8/6/1/124	1424	65 col Universal Automatic Key Punch: R124
8/6/1/125	1425	Multiple Counter Bowden Units: R125
8/6/1/126- 131	1426-1431	Breman Adding Machine: R126-R131
8/6/1/132- 135	1432-1435	Variable Pitch Screw Cutting Machine: R132-R135
8/6/1/136	1436	Machine for Cutting Three- Dimensional Cams: R137
8/6/1/137	1437	Servo Assembly: R142
8/6/1/138- 146	1438-1446	Gyro Bearing and Cutting Machine: R155-R163
8/6/1/147	1447	Type Rolling Machine: R170
8/6/1/148	1448	Cross Adding Punch 65 col: R171
8/6/1/149	1449	Paper ribbon punching machine: R172
8/6/1/150	1450	Interpolator 65 col: R173
8/6/1/151	1451	Multiplying Machine: R174
8/6/1/152	1452	Multiple Counter: R175
8/6/1/153	1453	Type Rolling Machine: R176

8/6/1/154	1454	Paper Ribbon Punching Machine: R177
8/6/1/155	1455	Cross Adding Punch - Geneva Movement: R178
8/6/1/156- 160	1456-1460	65 col Drum Punch: R179-R183
8/6/1/161	1461	65 col Cross Adding Punch - Experimental: R184
8/6/1/162	1462	Card Sensing Machine - Pre Set Run: R185
8/6/1/163-66	1463-1466	36 col Avoirdupois Unit: R186-R189
8/6/1/167-68	1467-1468	Dashpots: R193-R194
8/6/1/169	1469	Trail Cam Testing Fixture: R197
<i>Item No.</i>	<i>[Serial Refernce]</i>	<i>[Date: Caption: Other reference(R No.)]</i>
8/6/2		R200-R599, with index
8/6/2/1-8	1470-1477	Card Sensing Machine: R206-R213
8/6/2/9-10	1478-1479	American Multiplier - Parts Not Required: R224-R225
8/6/2/11-13	1480-1482	65 col Wide Tabulator: R230-R232
8/6/2/14	1483	Tape Perforating Machine: R233
8/6/2/15-16	1484-1485	Card Sensing Machine: R248-R249
8/6/2/16-17	1486-1487	80 col U.A.K.P.: R256-R257
8/6/2/18-19	1488-1489	65 col Interpolator: R258-R259
8/6/2/20	1490	80 col Sorter: R265
8/6/2/21	1491	1949: 65 col High Speed Sorter: R266
8/6/2/22-25	1492-1495	80 col Reproducing Punch: R270- R273
8/6/2/26-30	1496-1500	40 col Tabulator - Single Card Totals: R274-R278

8/6/2/31-40	1501-1510	1952: 80 col Auto Verifier: R287-R296
8/6/2/41-48	1511-1518	40 col Tabulator - Single Card Totals: R297-R304
8/6/2/49-50	1519-1520	80 col U.A.K.P.: R305-R306
8/6/2/51-56	1521-1526	1951: 80 col Tabulator: R323-R328
8/6/2/57	1527	Addressing Machine Stop Basket: R331
8/6/2/58-61	1528-1531	Ferranti Machine - Card Input Unit for Pegasus: R332-R335
8/6/2/62-65	1532-1535	36 col U.A.K.P. - Special Reproducing Mechanism: R340-R343
8/6/2/66-69	1536-1539	65 col Electronic Multiplying Punch: R345-R348
8/6/2/70-74	1540-1544	Printing Counting Sorter: R53-R56
8/6/2/75	1545	Bowden Connection Box: R371
8/6/2/76	1546	Wire Coiling Machine: R374
8/6/2/77	1547	Wire Straightening Machine: R379
8/6/2/78-80	1548-1550	Electronic £.s.d. Multiplier: R384-R386
8/6/2/81-82	1551-1552	1949: 65 col Interpolator - Exhibition Model: R392-R393
8/6/2/83-98	1553-1568	Sales Recorder: R415-R430
8/6/2/99-102	1569-1572	65 col Tabulator - Single Card Totals: R431-R434
8/6/2/103-105	1573-1575	65 col Tabulator - Interstage Reverse Feed: R435-R437
8/6/2/106-110	1576-1580	High Speed Adder: R440-R444
8/6/2/111-112	1581-1582	Plug in v Standard Connection Box: R462-R463
8/6/2/113-117	1583-1587	80 col Interpreter: R468-R472

8/6/2/118- 122	1588-1592	Interpreter: R474-R478
8/6/2/123- 126	1593-1596	130 col U.A.K.P.: R480-R483
8/6/2/127- 131	1597-1601	Addressing Machine: R490-R494
8/6/2/132- 142	1602-1612	80 col Reproducing Punch: R496- R504
8/6/2/143- 147	1613-1617	Electrical Plugboard & Connection Box for Tabulator: R510-R514
8/6/2/148- 151	1618-1621	1948: 80 col Auto Verifier: R520- R523
8/6/2/152- 153	1622-1623	40 col Tape to Card (American): R524-R525
8/6/2/154	1624	65 col U.A.K.P. (Reproducing) - Exhibition Model: R526
8/6/2/155- 161	1625-1631	Cross Adding Punch: R530-R536
8/6/2/62	1632	Signal Specialities Verifier (U.S.A): R540
8/6/2/163- 166	1633-1636	Cheque Sorter: R576-R579
8/6/2/167- 176	1637-1646	1949: Posting Interpreter: R581- R590
8/6/2/177- 180	1647-1650	65 col U.A.K.P.Alpha Keyboard: R591-594
8/6/2/181	1651	Envelope Feed - Tabulator: R595
8/6/2/182	1652	Card to Tape Translator: R596
8/6/2/183- 186	1653-1655	Air Sensing Machine & Punches: R597-R599
<i>Item No.</i>	<i>[Serial Refernce]</i>	<i>[Date: Caption: Other reference(R No.)]</i>
8/6/3		R600-R809, with index
8/6/3/1-2	1656-1665	Card to Tape Translator: R600-R609
8/6/3/3-6	1666-1669	Electrical Control for Sheet Feed Pinwheel Feed: R610-R613

8/6/3/7-13	1670-1676	Card to Tape Translator: R614-620
8/6/3/14-18	1677-1681	Posting Interpreter: R626-630
8/6/3/19-21	1682-1684	65 col Auto Line Selection Interpreter: R642-644
8/6/3/22-31	1685-1694	1950: 65 col Comparing Machines: R645-654
8/6/3/32-39	1695-1702	1950: 65 col Comparing Machines: R777-784
8/6/3/40-50	1703-1713	High Speed Adding Machine: R655- 665
8/6/3/51-52	1714-1715	1949: 65 col Cross Adding Punch: R667-668
8/6/3/53-55	1716-1718	P.C.E. French Machine: R669-671
8/6/3/56-58	1719-1721	1949: 65 col Printing Machine - Exhibition Model: R676-678
8/6/3/59-64	1722-1727	Interpreter Model A: R689-694
8/6/3/65-67	1728-1730	Interpreter Model B: R695-697
8/6/3/68-75	1731-1738	Electronic Sensing Punch: R698-705
8/6/3/76	1739	Ready Reckoner: R706
8/6/3/77	1740	Adrema Hook up: R712
8/6/3/78-84	1741-1747	65 col Reproducing Comparing Machine: R714-740
8/6/3/85-89	1748-1752	40 col Tabulator Carbon Ribbon Device: R741-745
8/6/3/90-92	1753-1755	65 col Posting Interpreter (Following Card): R751-753
8/6/3/93-98	1756-1761	Tape to Card Translator: R755-760
8/6/3/99-114	1762-1777	Printing Counting Sorter (1951 Census) - Components: R761-776
8/6/3/115	1778	U.A.K.P. (Reproducing): R780
8/6/3/116- 120	1779-1783	40 col Tape to Card Translator: R786-790

8/6/3/121-126	1784-1791	36 col Mark Scanning Punch: R791-796
8/6/3/127-132	1792-1797	65 col Mark Scanning Punch: R797-802
8/6/3/133-139	1798-804	c1955-59: 40 col Tape to Card Translator: R803-809
<i>Item No.</i>	<i>[Serial Refernce]</i>	<i>[Date: Caption: Other reference(R No.)]</i>
8/6/4		R810-R1121, with index
8/6/4/1-2	1805-1806	Interpolator - New Style Comparator Unit: R816-817
8/6/4/3-5	1807-1809	65 col 100 Rack High Speed Printer: R818-820
8/6/4/6-9	1810-1813	Ferranti Machine - Card Input for Pegasus: R821-824
8/6/4/10-24	1814-1828	65 col Printing Machine - Card Feed Attachment: R831-845
8/6/4/25-40	1829-1844	65 col High Speed Adding Machine: R846-861
8/6/4/41-45	1845-1849	65 col Cross Adding Punch: R862-866
8/6/4/46-47	1850-1851	21 col Adrema Hook Up Machine: R867-868
8/6/4/48-51	1852-1855	40 col High Speed Adding Machine: R871-874
8/6/4/52-56	1856-1860	65 col Programme Calculator: R886-890
8/6/4/57-60	1861-1864	65 col Air Sensing Machine: R894-897
8/6/4/61-68	1865-1872	65 col U.A.K.P. - Reproducing Feature: R903-910
8/6/4/69-71	1873-1875	Tag Feed Model: R911-913
8/6/4/72-73	1876-1877	65 col U.A.K.P. - Reproducing Feature: R914-915

8/6/4/74	1878	65 col U.A.K.P. - Reproducing Feature: R928
8/6/4/75-79	1879-1883	80 col Interpreter: R936-940
8/6/4/80-95	1884-1899	21 col Currency Note & Voucher Machine: R946-961
8/6/4/96-100	1900-1904	Ferranti Machine - Card Input for Pegasus: R962-966
8/6/4/101- 108	1905-1912	65 col Restyled Reproducing Punch: R972-979
8/6/4/109	1913	Card Feed Attachment: R980
8/6/4/110- 113	1914-1917	40 col Tabulator Duplex Unit: R981-984
8/6/4/114- 120	1918-1924	40 col Tabulator Duplex Unit: R1067-1073
8/6/4/121- 126	1925-1930	40 col High Speed Adding Machine: R985-990
8/6/4/127- 129	1931-1933	40 col U.A.K.P. (Guest Keen & Nettlefold): R991-993
8/6/4/130- 135	1934-1939	Air Sensing Machine: R994-999
8/6/4/136- 143	1940-1947	21 col Currency Note & Voucher Machine: R1025-1032
8/6/4/144- 145	1948-1949	40 col U.A.K.P. (Guest Keen & Nettlefold): R1060-1061
8/6/4/146- 150	1950-1954	65 col Interpreter - Auto Line Selection: R1062-1066
8/6/4/151- 156	1955-1960	80 col Desk Reproducer: R1100-1105
8/6/4/157- 161	1961-1965	36 col Adrema Hook Up Machine: R1106-1110
8/6/4/162- 166	1966-1970	65 col Tabulator - Card Feed Attachment: R1111-1115
8/6/4/167- 171	1971-1975	32 col Pre-Set Run Machine: R1116- 1120
8/6/4/172	1976	32 col Hand Punch (Pre-Set Run

Machine): R1121

<i>Item No.</i>	<i>[Serial Refernce]</i>	<i>[Date: Caption: Other reference(R No.)]</i>
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8/7		Powers Tabulators [1 ring binder]
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**POWERS - Photographs mounted on boards, many with
components identified by part numbers**

8/7/1-10	1977-1986	195 x 145 mm: P3 Tabulator
8/7/11-12	1987-1988	195 x 145 mm: 40 col Tabulator DR 8400 Stage "G" Electric
8/7/13-17	1989-1993	195 x 145 mm: 4/5 Unit Tabulator Covers
8/7/18-20	1994-1996	195 x 145 mm: 4/5 Unit Tabulator Sheet Feed
8/7/21-22	1997-1998	195 x 145 mm: 4/5 Unit Tabulator S.C.P. Link Up
8/7/23-24	1999-2000	195 x 145 mm: 4/5 Unit Tabulator - Skeleton Assembly
8/7/25-27	2001-2003	195 x 145 mm: 4/5 Unit Tabulator - Stage A
8/7/28	2004	195 x 145 mm: 4/5 Unit Tabulator - Stage D
8/7/29-32	2005-2008	195 x 145 mm: 4/5 Unit Tabulator - Stage E
8/7/33-37	2009-2013	195 x 145 mm: 4/5 Unit Tabulator - Stage F
8/7/38-42	2014-2018	195 x 145 mm: 4/5 Unit Tabulator - Stage S.C.P. Link Up

<i>Item No.</i>	<i>[Serial Refernce]</i>	<i>[Date: Caption: Other reference(R No.)]</i>
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8/8		POWERS/ICT reference photos - Whyteleafe Mechanisms 1958-59
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Two 4-ring binders containing photos mounted on
light card

8/8/1	1958 Mar-58 May	Whyteleafe mechanisms, with index [1 ring binder]
8/8/1/1	2019	March 1958: 195 x 150 mm: 40 col Electrically Controlled Tabulator: R3/226
8/8/1/2-10	2020-2028	March 1958: 195 x 150 mm: 40 col Mark Scanning Machine: R7/241-249
8/8/1/11-12	2029-2030	April 1958: 195 x 145 mm: Card Reader End Feed Machine - Model 732: R9/256-257
8/8/1/13	2031	April 1958: 195 x 145 mm: Relay Trays - Electro Mechanical Interpolator: R5/258
8/8/1/14-19	2033-2038	April 1958: 195 x 145 mm: Selective Sorting Attachment - 25 col Auto Setting: R9/260-265
8/8/1/20-22	2039-2041	April 1958: 195 x 145 mm: 65 col Electro Mechanical Interpolator: R9/266-268
8/8/1/23-31	2042-2050	April 1958: 195 x 145 mm: 21 col Irish Currency Note & Voucher Control Machine: R9/269-277
8/8/1/32	2051	April 1958: 195 x 145 mm: Magnetic Recording Heads - Slow Store: R9/278
8/8/1/33-42	2052-2061	April 1958: 195 x 145 mm: Addendum Digit Checking Device fitted to 80 col UAKP : R9/279-288
8/8/1/43-45	2062-2064	May 1958: 195 x 145 mm: 40 col High Speed Summariser Punch: R9/304-306
8/8/1/46	2065	May 1958: 195 x 145 mm: 40 col Interpolator: R6/308
8/8/1/47	2066	May 1958: 195 x 145 mm: Vickers Armstrong Mark Sensing Machine: R12/309
8/8/1/48	2067	May 1958: 195 x 145 mm: 40 col High Speed Summariser: R12/310

8/8/1/49	2068	May 1958: 195 x 145 mm: 21 col Summary Punch A.K.P.: R12/311
8/8/1/50	2069	May 1958: 195 x 145 mm: "Kimbal" Tag Reproducer: R12/312
8/8/1/51	2070	May 1958: 195 x 145 mm: LTK/UAKP - Combined English/Swedish Design (Light Touch Keyboard/Universal Automatic Key Punch): R12/313
8/8/1/52	2071	May 1958: 195 x 145 mm: Electrically Controlled Sorter: R12/314
8/8/1/53	2072	May 1958: 195 x 145 mm: C.I.S. RangeCode Changing Reproducer: R12/319
8/8/1/54	2073	May 1958: 195 x 145 mm: Electro/Mechanical Interpolator: R12/322
8/8/1/55-56	2074-2075	May 1958: 195 x 145 mm: 40 col Mark Scanning Machine: R12/323-324
8/8/1/57	2076	May 1958: 195 x 145 mm: Proof Totalling: R12/326
8/8/1/58-62	2077-2081	June 1958: 195 x 145 mm: LTK/UAKP - English/Swedish Design: R9/327- 331
8/8/1/63-64	2082-2083	June 1958: 195 x 145 mm: 40 col Summary Card Punch (Production Machine): R6/333-334
8/8/1/65-68	2084-2087	June 1958: 195 x 145 mm: 65 col Electro Mechanical Interpolator: R6/336-339
8/8/1/69	2088	May 1958: 195 x 145 mm: 40 col Mark Scanning Machine: R7/347
8/8/1/70-91	2089-2110	195 x 145 mm: 40 col Mark Scanning Machine - 22 photos 165 x 120 mm, not included in R series of numbers
8/8/1/92-107	2111-2126	195 x 145 mm: 40 col Mark Scanning Machine - 16 photos 200 x 155 mm,

not included in R series of numbers

8/8/2	1958 Jun-59 Jan	Whyteleafe mechanisms, with index [1 ring binder]
8/8/2/1-3	2127-2130	June 1958: 195 x 145 mm: 65/80 col Range Code Change Reproducer: R7/348-350
8/8/2/4-6	2131-2133	July 1958: 195 x 145 mm: 40 col High Speed Summariser: R9/367-369
8/8/2/7	2134	July 1958: 195 x 145 mm: 40 col Sorter - 25 col Auto Setting Selective Pinbox: R9/371
8/8/2/8-16	2135-2143	July 1958: 195 x 145 mm: Auto Route Conveyor Installation at Messrs LOTUS, Stafford: R8/372-380
8/8/2/17-24	2144-2151	July 1958: 195 x 145 mm: 40 col Mark Sensing Machine: R9/381-388
8/8/2/25-30	2152-2157	Aug 1958: 195 x 145 mm: Electro- Mechanical Interpolator - Tecalemit Oiling System: R9/389- 394
8/8/2/31-35	2158-2162	Aug 1958: 195 x 145 mm: 40 col High Speed Summariser: R9/399-403
8/8/2/36-41	2163-2168	Sep 1958: 195 x 145 mm: U.A.K.P. - Auto Recording Feature & Scanner Unit: R8/404-409
8/8/2/42-43	2169-2170	Sep 1958: 195 x 145 mm: Electrical Sensing Unit for Parallel Input Unit: R8/410-411
8/8/2/44-59	2171-2186	Sep 1958: 195 x 145 mm: 21 col Summary Card Punch (AKP) and Tabulator: R9/412-427
8/8/2/60-64	2187-2191	Sep 1958: 195 x 145 mm: Loop Sorting Machine - Development: R3/430-434
8/8/2/65	2192	Sep 1958: 195 x 145 mm: Valve Unit Interconnection Panel - Bank of England Computer: R3/443

8/8/2/66-68	2193-2195	Oct 1958: 195 x 145 mm: Presentation Unit of Proof Totalling Machine: R9/458-460
8/8/2/69-76	2196-2203	Oct 1958: 195 x 145 mm: High Speed Summariser: R7/461-468
8/8/2/77-81	2204-2208	Dec 1958: 195 x 145 mm: Range Code Changing Reproducer for Standard Telephones: R7/510-514
8/8/2/82-86	2209-2213	Jan 1959: 195 x 145 mm: 65 col Auto Parallel Input Machine: R8/518-522

<i>Item No.</i>	<i>[Serial Refernce]</i>	<i>[Date: Caption: Other reference(R No.)]</i>
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8/9		POWERS photos in twenty 2-hole lever-arch files, numbered 8/9/1 to 8/9/20
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Powers / ICT (ENG) / ICL [20 lever arch files]

8/9/1	1959 Feb-60 Sep	Nos 536 - 850
8/9/1/1-4	2214-2217	Feb 1959: 215 x 165 mm: PLUTO Card Punch: R536-539
8/9/1/5-7	2218-2220	Feb 1959: 215 x 165 mm: Punch Setting Unit for PLUTO Punch: R545-547
8/9/1/8-9	2221-2222	Feb 1959: 215 x 165 mm: Matrix Module for PERSEUS Printer: R548- 549
8/9/1/10-12	2223-2225	Feb 1959: 215 x 165 mm: Random Access Machine - Reading Head Driving System: R551-553
8/9/1/13-17	2226-2230	Feb 1959: 215 x 165 mm: PERSEUS Printer Modifications: R554-558
8/9/1/18-21	2231-2234	March 1959: 215 x 165 mm: Special Control Unit for Samastronic: R563-566
8/9/1/22	2235	March 1959: 215 x 165 mm: PERSEUS Paper Feed Drive - Gearbox Assembly: R570

8/9/1/23-24	2236-2237	April 1959: 215 x 165 mm: Proof Totalling Feature for Auto Verifier: R571-572
8/9/1/25-26	2238-2239	April 1959: 215 x 165 mm: 21 col Tabulator with S.C.P. (AKP) with Operator: R573-574
8/9/1/27-38	2240-2251	April 1959: 215 x 165 mm: Bank of England Project: R578-589
8/9/1/39-40	2252-2253	May 1959: 215 x 165 mm: Bank of England Printer: R606-607
8/9/1/41-42	2254-2255	May 1959: 215 x 165 mm: 400 cpm Parallel Punch: R608-609
8/9/1/43-44	2256-2257	May 1959: 215 x 165 mm: 3 Magnetic Tape Printers for Ferranti PERSEUS: R610-611
8/9/1/45-47	2258-2260	May 1959: 215 x 165 mm: Re-Circulating Card Reader: R612-614
8/9/1/48-51	2261-2264	May 1959: 215 x 165 mm: Adaptor for Auto Recording Feature to be fitted to Hand Punches: R615-618
8/9/1/52-54	2265-2267	June 1959: 215 x 165 mm: Samastronic Tabulator - Oiling Procedure: R619-621
8/9/1/55-57	2268-2270	June 1959: 215 x 165 mm: Variable Power Supply Unit for use with Transistors: R622-624
8/9/1/58-61	2271-2274	June 1959: 215 x 165 mm: Samastronic Tabulator - Modifications to Paper Feed: R625-628
8/9/1/62-68	2275-2281	June 1959: 215 x 165 mm: 3 Magnetic Tape Printers for Ferranti PERSEUS: R629-635
8/9/1/69	2282	July 1959: 215 x 165 mm: Programme Board in Mr Harvey's Office: R641
8/9/1/70-72	2283-2285	July 1959: 215 x 165 mm: 65 col PERSEUS Card Reader: R643-645

8/9/1/73-74	2286-2287	July 1959: 215 x 165 mm: 65/80 col Standard Range Code Changing Reproducer: R648-649
8/9/1/75-76	2288-2289	July 1959: 215 x 165 mm: Kimball Tag Machine: R650-651
8/9/1/77-79	2290-2292	July 1959: 215 x 165 mm: Samastronic - Test Rig & Soldering Detail: R654-656
8/9/1/80-83	2293-2296	Sep 1959: 215 x 165 mm: FCC Card Track Unit: R658-661
8/9/1/84-90	2297-2303	Sep 1959: 215 x 165 mm: 80 col Works Study U.A.K.P.: R662-668
8/9/1/91-92	2304-2305	Nov 1959: 215 x 165 mm: Samastronic & S.C.P.: R674-675
8/9/1/93	2306	Nov 1959: 215 x 165 mm: 3 Magnetic Tape Printers for Ferranti PERSEUS: R676
8/9/1/94-98	2307-2311	Jan 1960: 215 x 165 mm: 65/80 col Range Code Changing Reproducer for C.I.S.: R692-696
8/9/1/99	2312	Feb 1960: 215 x 165 mm: Special Works Dept - Data Logger Machines: R697
8/9/1/100	2313	Feb 1960: 215 x 165 mm: Special Works Dept - Special Line Printer & Gang Punch: R698
8/9/1/101- 102	2314-2315	Feb 1960: 215 x 165 mm: Special Works Dept - Data Logger Control Unit: R699-700
8/9/1/103- 111	2316-2324	Feb 1960: 215 x 165 mm: Printing Counting Sorter - New Zealand Statistics: R701-709
8/9/1/112- 118	2325-2331	April 1960: 215 x 165 mm: Assembly Methods for Ferrite Core Matrices: R712-718
8/9/1/119- 122	2332-2335	April 1960: 215 x 165 mm: Variable Power Supply Unit for use with Transistors: R726-729

8/9/1/123- 126	2336-2369	May 1960: 215 x 165 mm: 40 col Sorter: R730-733
8/9/1/127- 130	2370-2373	May 1960: 215 x 165 mm: 40 col Interpreter: R734-737
8/9/1/131- 134	2374-2377	May 1960: 215 x 165 mm: 40 col Interpolator: R738-741
8/9/1/135- 138	2378-2381	May 1960: 215 x 165 mm: 40 col Auto Verifier: R742-745
8/9/1/139- 142	2382-2385	May 1960: 215 x 165 mm: 40 col Reproducer: R746-749
8/9/1/143- 144	2386-2387	May 1960: 215 x 165 mm: Powers 4/5 Tabulator and S.C.P.: R773-774
8/9/1/145- 148	2388-2391	May 1960: 215 x 165 mm: Powers 4/5 Tabulator: R775-778
8/9/1/149- 152	2392-2395	May 1960: 215 x 165 mm: Powers One Tabulator: R779-782
8/9/1/153- 154	2396-2397	May 1960: 215 x 165 mm: Powers Three Tabulator: R783-784
8/9/1/155- 158	2398-2401	June 1960: 215 x 165 mm: 21 col Card Reader for 80 col Punch: R788-791
8/9/1/159- 160	2402-2403	June 1960: 215 x 165 mm: 80 col On Demand Card Reader: R800-801
8/9/1/161- 162	2404-2405	June 1960: 215 x 165 mm: 21 col Card Reader for 80 col Punch: R802-803
8/9/1/163- 166	2406-2407	June 1960: 215 x 165 mm: Samastronic - Modifications to Paper Feed: R804-807
8/9/1/167- 174	2408-2415	July 1960: 215 x 165 mm: FCC - Part Assembled: R812-819
8/9/1/175	2416	July 1960: 215 x 165 mm: Czech Characters Printed by Samastronic: R820
8/9/1/176- 177	2417-2418	July 1960: 215 x 165 mm: PCC Gear Drive Modifications: R821-822

8/9/1/178	2419	July 1960: 215 x 165 mm: 80 col On Demand Card Reader: R823
8/9/1/179-182	2420-2423	July 1960: 215 x 165 mm: Samastronic Tabulator & S.C.P. Sheet Feed: R824-827
8/9/1/183-184	2424-2425	July 1960: 215 x 165 mm: 80 col On Demand Card Reader: R828-829
8/9/1/185-186	2426-2427	Aug 1960: 215 x 165 mm: FCC - A Frame: R830-831
8/9/1/187	2428	Aug 1960: 215 x 165 mm: Special Works Dept - Counter Test Equipment: R832
8/9/1/188	2429	Aug 1960: 215 x 165 mm: Special Works Dept - Voting Machine, Kenya: R833
8/9/1/189-191	2430-2433	Aug 1960: 215 x 165 mm: FCC Card Track Unit: R834-836
8/9/1/192	2433	Aug 1960: 215 x 165 mm: 3 Magnetic Tape Printers for Ferranti PERSEUS: R837
8/9/1/193-199	2434-2440	Sep 1960: 215 x 165 mm: Samastronic Tabulator & S.C.P. Sheet Feed: R838-844
8/9/1/200-205	2441-2446	Sep 1960: 215 x 165 mm: Postal Order Sorter: R845-850
8/9/2	1960 Sep-61	Nos 853 - 1109
	Mar	
8/9/2/1 - 2	2447-2448	Sep 1960: 215 x 165 mm: F.C.C. Card Track: R853-854
8/9/2/3-4	2449-2450	Sep 1960: 215 x 165 mm: 40 col U.A.K.P. (Danish Calculator): R855-856
8/9/2/5-6	2451-2452	Sep 1960: 215 x 165 mm: 80 col Interpreter with restyled covers: R857-858
8/9/2/7-8	2453-2454	Oct 1960: 215 x 165 mm: Samastronic Tabulator & S.C.P - Delay Unit.: R859-860

8/9/2/9-12	2455-2458	Oct 1960: 215 x 165 mm: Dyelines - FCC Further Assembly Stage: R861- 864
8/9/2/13-23	2459-2469	Oct 1960: 215 x 165 mm: Proof Totalling (Auto Verifier): R869- 879
8/9/2/24-27	2470-2473	Nov 1960: 215 x 165 mm: 80 col Interpreter, Restyled: R894-897
8/9/2/28	2474	Nov 1960: 215 x 165 mm: F.C.C. Card Track: R898
8/9/2/29-39	2475-2485	Nov 1960: 215 x 165 mm: F.C.C. Punch Setting Unit: R899- 909
8/9/2/40-50	2486-2496	Nov 1960: 215 x 165 mm: F.C.C. Magazine: R910-920
8/9/2/51-54	2497-2500	Nov 1960: 215 x 165 mm: 40 col U.A.K.P. (Danish Calculator): R921-924
8/9/2/55-58	2501-2504	Nov 1960: 215 x 165 mm: F.C.C. Card Track: R925-928
8/9/2/59-62	2505-2508	Nov 1960: 215 x 165 mm: Standard 65/80 Range Code Changing Reproducer: R934-937
8/9/2/63-69	2509-2515	Nov 1960: 215 x 165 mm: F.C.C. Card Track: R939-945
8/9/2/70-74	2516-2520	Nov 1960: 215 x 165 mm: Special Works Department - Tote Machine: R946-950
8/9/2/75-76	2521-2522	Nov 1960: 215 x 165 mm: Special Works Department - Postal Order Sorter: R951-952
8/9/2/77-89	2523-2535	Nov 1960: 215 x 165 mm: Electric Keyboard A.K.P. for Mayfair Hotel Restaurant: R953-965
8/9/2/90-91	2536-2537	Nov 1960: 215 x 165 mm: F.C.C. Photocell Block Assembly: R969-970
8/9/2/92-96	2538-2542	Nov 1960: 215 x 165 mm: F.C.C.

		Photocell Assembly (Wreck Detection): R971-975
8/9/2/97	2543	Nov 1960: 215 x 165 mm: F.C.C. Index Disc & Cell Assembly: R976
8/9/2/98-101	2544-2547	Nov 1960: 215 x 165 mm: F.C.C. Sensing Stage Photocells: R977-980
8/9/2/102- 104	2548-2550	Nov 1960: 215 x 165 mm: F.C.C. Clock Pulse Disc: R981-983
8/9/2/105	2551	Dec 1960: 215 x 165 mm: Timing Diagram for Samastronic Stylus Bar: R984
8/9/2/106- 109	2552-2555	Dec 1960: 215 x 165 mm: 40 col U.A.K.P. (Danish Calculator): R985-988
8/9/2/110- 115	2556-2561	Dec 1960: 215 x 165 mm: L.E.D.A. Card Numbering Device on U.A.K.P.: R989-994
8/9/2/116- 146	2562-2592	Dec 1960: 215 x 165 mm: Tape Deck: R995-1025
8/9/2/147- 148	2593-2594	Dec 1960: 215 x 165 mm: F.C.C. - Frame for Card Track Unit: R1026- 1027
8/9/2/149- 150	2595-2596	Jan 1961: 215 x 165 mm: F.C.C. Card Track Unit: R1028-1029
8/9/2/151	2597	Jan 1961: 215 x 165 mm: F.C.C. Punch Setter Drive Chain Adjustment: R1030
8/9/2/152	2598	Jan 1961: 215 x 165 mm: F.C.C. Index Strobe Disc: R1031
8/9/2/153	2599	Jan 1961: 215 x 165 mm: F.C.C. Harness FD 200: R1032
8/9/2/154	2600	Jan 1961: 215 x 165 mm: F.C.C. Card Track - covers unpainted: R1033
8/9/2/155- 161	2601-2607	Jan 1961: 215 x 165 mm: 40 col Interpolator: R1034-1040

8/9/2/162-164	2608-2610	Jan 1961: 215 x 165 mm: Special Works Department - Special Control on 65 col Sorter: R1041-1043
8/9/2/165-167	2611-2613	Jan 1961: 215 x 165 mm: 40 col Sorter (666 cpm) - Magnet Unit: R1044-1046
8/9/2/168-200	2614-2646	Feb 1961: 215 x 165 mm: 21 col SCP & Tabulator: R1047-1079
8/9/2/201-217	2647-2663	Mar 1961: 215 x 165 mm: Swedish Interpreter: R1080-1096
8/9/2/218-220	2664-2666	Mar 1961: 215 x 165 mm: Proof Totalling Feature (Auto Verifier): R1097-1099
8/9/2/221-222	2667-2668	Mar 1961: 215 x 165 mm: High Speed Adding Machine (Swiss): R1100-1101
8/9/2/223	2669	Mar 1961: 215 x 165 mm: Silicon "MESA" Transistor (Texas Instruments): R1102
8/9/2/224-227	2670-2673	Mar 1961: 215 x 165 mm: Tape Deck: R1103-1106
8/9/2/228	2674	Mar 1961: 215 x 165 mm: Stop Basket for Bowden Conn Box (80 col Interpreter): R1107
8/9/2/229-230	2675-2676	Mar 1961: 215 x 165 mm: Relay Panel for Samastronic Independent Print Head: R1108-1109
8/9/3	1961 Mar-61 Nov	Nos 1110 - 1399
8/9/3/1-2	2677 - 2678	Mar 1961: 215 x 165 mm: 65/80 U.A.K.P. with Card Numbering and Repro Features: R1110-1111
8/9/3/3-5	2679-2681	Mar 1961: 215 x 165 mm: P.C.C. Modifications (Phase III) to Drive: R1112-1114
8/9/3/6-7	2682-2683	Mar 1961: 215 x 165 mm: 40 col U.A.K.P.: R1115-1116
8/9/3/8-11	2684-2687	Mar 1961: 215 x 165 mm: 65/80 U.A.K.P. with Card Numbering and

Repro Features: R1117-1120

8/9/3/12-22	2688-2698	Mar 1961: 215 x 165 mm: 40 col U.A.K.P.: R1121-1131
8/9/3/23-34	2699-2710	Apr 1961: 215 x 165 mm: Bank of England Samastronic No 2: R1132- 1143
8/9/3/35-44	2711-2720	Apr 1961: 215 x 165 mm: 80 col On- Demand Card Reader: R1144-1153
8/9/3/45	2721	Apr 1961: 215 x 165 mm: F.C.C. Punch Setting Unit: R1154
8/9/3/46-47	2722-2723	Apr 1961: 215 x 165 mm: F.C.C. Neon Test Rig: R1155-1156
8/9/3/48-51	2724-2727	Apr 1961: 215 x 165 mm: Samastronic (STC) Paper Feed: R1164-1167
8/9/3/52-53	2728-2729	Apr 1961: 215 x 165 mm: Bank of England Samastronic No 2: R1168- 1169
8/9/3/54	2730	Apr 1961: 215 x 165 mm: 80 col U.A.K.P. Partly Dismantled for Vibration Test: R1170
8/9/3/55-56	2731-2732	Apr 1961: 215 x 165 mm: F.C.C. Ferrite Core Tester: R1171-1172
8/9/3/57-59	2733-2735	Apr 1961: 215 x 165 mm: 65/80 col Range Changing Checking Machine: R1173-1175
8/9/3/60-61	2736-2737	Apr 1961: 215 x 165 mm: F.C.C. Production Model - Base Assembly: R1176-1177
8/9/3/62	2738	Apr 1961: 215 x 165 mm: F.C.C. Production Model - Motor Mounting: R1178
8/9/3/63-64	2739-2740	Apr 1961: 215 x 165 mm: F.C.C. Production Model - Outboard Bearing: R1179-1180
8/9/3/65-67	2741-2742	Apr 1961: 215 x 165 mm: F.C.C. Production Model - Punch Setter Pendulum Drive: R1181-1183

8/9/3/68-69	2742-2744	Apr 1961: 215 x 165 mm: F.C.C. Pressure Roll Assemblies: R1184-1185
8/9/3/70	2745	Apr 1961: 215 x 165 mm: F.C.C. Handwheel Assembly: R1186
8/9/3/71-74	2746-2749	May 1961: 215 x 165 mm: F.C.C. Card Feed (Box Casting): R1191 - 1194
8/9/3/75	2750	May 1961: 215 x 165 mm: F.C.C. Pack Raising Mechanism: R1195
8/9/3/76	2751	May 1961: 215 x 165 mm: F.C.C. Card Aligining Operating: R1198
8/9/3/77-79	2752-2754	May 1961: 215 x 165 mm: F.C.C. Modified Punch Unit: R1200-1202
8/9/3/80-85	2755-2760	May 1961: 215 x 165 mm: F.C.C. 64 Word Arithmetic Store: R1204-1209
8/9/3/86-89	2761-2764	May 1961: 215 x 165 mm: F.C.C. Further Assembly Stage of Card Track: R1211-1214
8/9/3/90-93	2765-2768	May 1961: 215 x 165 mm: 40 col Interpolator Q Control: R1215-1218
8/9/3/94-98	2769-2773	May 1961: 215 x 165 mm: Bank of England Samastronic No 2: R1219-1223
8/9/3/99-100	2774-2775	May 1961: 215 x 165 mm: F.C.C. Core Tester: R1224-1225
8/9/3/101	2776	Jun 1961: 215 x 165 mm: F.C.C. Further Assembly Stage : R1226
8/9/3/102-104	2777-2779	Jun 1961: 215 x 165 mm: 21 col Reproducer - Selective Punching Feature: R1227-1229
8/9/3/105-107	2780-2782	Jun 1961: 215 x 165 mm: 80 col On- Demand Card Reader: R1232-1234
8/9/3/108-111	2783-2786	Jun 1961: 215 x 165 mm: 21 col U.A.K.P. - Reproducing Feature: R1235-1238

8/9/3/112- 113	2787-2788	Jun 1961: 215 x 165 mm: Power Pack for Tape Handling: R1239-1240
8/9/3/114- 115	2789-2790	Jun 1961: 215 x 165 mm: Samastronic Independent Print Head: R1241-1242
8/9/3/116- 128	2791-2803	Jul 1961: 215 x 165 mm: Samastronic Independent Print Head: R1255-1267
8/9/3/129- 130	2804-2805	Jul 1961: 215 x 165 mm: 21 col U.A.K.P. - Reproducing Feature: R1268-1269
8/9/3/131- 134	2806-2809	Jul 1961: 215 x 165 mm: Samastronic Independent Print Head: R1270-1273
8/9/3/135- 136	2810-2811	Jul 1961: 215 x 165 mm: Samastronic Tabulator & S.C.P.: R1274-1275
8/9/3/137	2812	Jul 1961: 215 x 165 mm: Tandem Card Reader (Ferranti) - Connection Panel & Harness: R1276
8/9/3/138- 144	2813-2819	Jul 1961: 215 x 165 mm: 80 col On- Demand Card Reader: R1277-1283
8/9/3/145- 151	2820-2826	Aug 1961: 215 x 165 mm: F.C.C. for Dartford - Various Details: R1284- 1290
8/9/3/152- 153	2827-2828	Aug 1961: 215 x 165 mm: N.D.P. Punch: R1292-1293
8/9/3/154- 162	2829-2837	Aug 1961: 215 x 165 mm: Card Reader and Control Desk for Parkinson Cowan: R1294-1302
8/9/3/163	2838	Aug 1961: 215 x 165 mm: Tandem Card Reader (Ferranti) - Base Unit: R1303
8/9/3/164- 183	2839-2858	Aug 1961: 215 x 165 mm: Tandem Card Reader (Ferranti) - Details of Electronic Units: R1305-1324
8/9/3/184	2859	Aug 1961: 215 x 165 mm: 40 col Alphanumerical 5-zone Pinwheel

Interpreter: R1325

8/9/3/185- 188	2860-2863	Aug 1961: 215 x 165 mm: N.D.P. Punch: R1326-1329
8/9/3/189	2864	Sep 1961: 215 x 165 mm: F.C.C. Delay Line Calibrator Oscilloscope Set-up: R1330
8/9/3/190	2865	Sep 1961: 215 x 165 mm: Tandem Card Reader (Ferranti) : R1339
8/9/3/191- 194	2866-2869	Sep 1961: 215 x 165 mm: Samastronic Independent Print Head: R1340-1343
8/9/3/195- 200	2870-2875	Sep 1961: 215 x 165 mm: 40 col U.A.K.P. (Danish Calculator): R1344 - 1349
8/9/3/201	2876	Sep 1961: 215 x 165 mm: Samastronic - Russian Print Characters: R1350
8/9/3/202- 208	2877-2883	Sep 1961: 215 x 165 mm: A.K.P. - Mayfair Hotel: R1351-1357
8/9/3/209- 212	2884-2887	Oct 1961: 215 x 165 mm: Tandem Card Reader (Ferranti): R1358-1361
8/9/3/213- 221	2888-2896	Nov 1961: 215 x 165 mm: Special Projects Department - Record Replay: R1362-1370
8/9/3/222- 224	2897-2899	Nov 1961: 215 x 165 mm: Special Projects Department - Radar Signal Simulator: R1371-1373
8/9/3/225- 226	2900-2901	Oct 1961: 215 x 165 mm: No 3 Factory, Purley Way - Fine Blanking Press: R1374-1375
8/9/3/227- 232	2902-2907	Oct 1961: 215 x 165 mm: A.K.P. - Card Inverting: R1376-1381
8/9/3/233- 238	2908-2913	Oct 1961: 215 x 165 mm: Tandem Card Reader (Ferranti): R1382-1387
8/9/3/239- 241	2914-2916	Nov 1961: 215 x 165 mm: Production Division - Punch Setting Test Machine for F.C.C.: R1388-1390

8/9/3/242-244	2917-2919	Nov 1961: 215 x 165 mm: 80 col On-Demand Card Reader - Photocell Details: R1391-1393
8/9/3/245	2920	Nov 1961: 215 x 165 mm: Tandem Card Reader (Ferranti) - Plugboard Complete on Machine: R1394
8/9/3/246	2921	Nov 1961: 215 x 165 mm: Tandem Card Reader (Ferranti) - Cad Reader with Plugged Wiring : R1395
8/9/3/247	2922	Nov 1961: 215 x 165 mm: Tandem Card Reader (Ferranti) - Suppressors and Relays on Control Panel: R1396
8/9/3/248	2923	Nov 1961: 215 x 165 mm: 80 col On-Demand Card Reader - Magnetic Call Card Feed: R1397
8/9/3/249-250	2924-2925	Nov 1961: 215 x 165 mm: N.D.P. Punch - 51 col Punch Unit: R1398-1399
8/9/4	1961 Nov-62 Jul	Nos 1410 - 1750
8/9/4/1-6	2926-2931	Dec 1961: 215 x 165 mm: 40 col Sorter 666 cpm: R1410-1415
8/9/4/7-16	2932-2943	Dec 1961: 215 x 165 mm: 40 col Sorter 1200 cpm: R1416-1427
8/9/4/17-20	2944-2947	Dec 1961: 215 x 165 mm: Tandem Card Reader, Ferranti: R1429-1432
8/9/4/21	2948	Dec 1961: 215 x 165 mm: N.D.P. Punch: R1433
8/9/4/22-25	2949-2952	Jan 1962: 215 x 165 mm: N.D.P. Punch: R1442-1445
8/9/4/26-31	2953-2958	Jan 1962: 215 x 165 mm: Punch Setting Test Machine for F.C.C.: R1446-1451
8/9/4/32-37	2959-2964	Jan 1962: 215 x 165 mm: Modified 21 col Hand Punch for British Railways: R1456-1461

8/9/4/38-39	2965-2966	Jan 1962: 215 x 165 mm: Tandem Card Reader, Ferranti: R1478-1479
8/9/4/40-45	2967-2972	Jan 1962: 215 x 165 mm: F.C.C. - Second Machine: R1481-1486
8/9/4/46-48	2973-2975	Jan 1962: 215 x 165 mm: 80 col On-Demand Card Reader: R1487-1489
8/9/4/79-52	2976-2979	Jan 1962: 215 x 165 mm: N.D.P. Punch: R1490-1493
8/9/4/53	2980	Jan 1962: 215 x 165 mm: Modified 21 col Hand Punch for British Railways: R1494
8/9/4/54-60	2981-2987	Jan 1962: 215 x 165 mm: F.C.C. Test Gear Unit: R1495-1501
8/9/4/61-68	2988-2995	Feb 1962: 215 x 165 mm: N.D.P. Punch: R1502-1509
8/9/4/69-70	2996-2997	Feb 1962: 215 x 165 mm: 40 col Interpreter: R1510-1511
8/9/4/71-74	2998-3001	Feb 1962: 215 x 165 mm: 80 col On-Demand Card Reader: R1513-1516
8/9/4/75-76	3002-3003	Feb 1962: 215 x 165 mm: 51/80 col On-Demand Card Reader: R1517-1518
8/9/4/77-80	3004-3007	Feb 1962: 215 x 165 mm: Converted Cossor Oscilloscope as Tunnel Diode & Backward Diode Curve Tracer: R1519-1522
8/9/4/81	3008	Feb 1962: 215 x 165 mm: Samastronic Independent Print Head - Russian characters: R1523
8/9/4/82-86	3009-3013	Mar 1962: 215 x 165 mm: Special Projects Dept - Line Printer for English Electric, Luton: R1524-1528
8/9/4/87-92	3014-3019	Mar 1962: 215 x 165 mm: N.D.P. Punch - 51 col Machine: R1529-1534
8/9/4/93	3020	Mar 1962: 215 x 165 mm: Hand-Operated Parallel Input Punch (McVitie Price) - Pinplate,

showing flour dust accumulation:
R1535

8/9/4/94-96	3021-3023	Mar 1962: 215 x 165 mm: F.C.C. - Finished Machine on Test: R1539- 1541
8/9/4/97	3024	Mar 1962: 215 x 165 mm: F.C.C. - Switch: R1542
8/9/4/98-101	3025-3028	Mar 1962: 215 x 165 mm: F.C.C. - Test Gear: R1543-1546
8/9/4/102- 112	3029-3039	Mar 1962: 215 x 165 mm: 80 col Bowden Box Interpreter: R1547-1557
8/9/4/113- 117	3040-3044	Mar 1962: 215 x 165 mm: 65 col Sorter with Month Coding: R1559- 1563
8/9/4/118- 132	3045-3059	Mar 1962: 215 x 165 mm: Special Projects Dept - Data Logger Equipment for British Aluminium: R1564-1578
8/9/4/133- 135	3060-3062	Mar 1962: 215 x 165 mm: 80 col On- Demand Card Reader: R1579-1581
8/9/4/136- 139	3063-3066	Apr 1962: 215 x 165 mm: F.C.C. Cabinet: R1582-1585
8/9/4/140- 155	3067-3082	Apr 1962: 215 x 165 mm: Row-by-row Punch: R1591-1606
8/9/4/156- 162	3083-3089	Apr 1962: 215 x 165 mm: F.C.C. - Various details in close-upL: R1607-1613
8/9/4/163- 169	3090-3096	Apr 1962: 215 x 165 mm: Tandem Card Reader, Ferranti: R1614-1620
8/9/4/170- 181	3097-3108	Apr 1962: 215 x 165 mm: Special Projects Dept - Data Logger Equipment for British Aluminium: R1621-1632
8/9/4/182- 189	3109-3116	May 1962: 215 x 165 mm: 40 col Sorter, 1200 cpm: R1637-1644
8/9/4/190- 200	3117-3127	May 1962: 215 x 165 mm: 80 col U.A.K.P. (Electric Keyboard):

R1646-1656

8/9/4/201- 215	3128-3140	May 1962: 215 x 165 mm: Electric U.A.K.P. for Australia: R1657-1669
8/9/4/216- 217	3141-3142	May 1962: 215 x 165 mm: 80 col On- Demand Card Reader: R1670-1671
8/9/4/218- 227	3143-3152	May 1962: 215 x 165 mm: U.A.K.P. Type 34/0 at Dartford: R1672-1681
8/9/4/228- 230	3153-3155	May 1962: 215 x 165 mm: Electric U.A.K.P. for Australia: R1682-1684
8/9/4/231- 243	3156-3168	May 1962: 215 x 165 mm: G.P.O. Printer (Samastronic Print Head): R1685-1697
8/9/4/244- 248	3169-3173	Jun 1962: 215 x 165 mm: Fast Punch Control Unit: R1698-1702
8/9/4/249- 251	3174-3176	Jun 1962: 215 x 165 mm: Fast Punch: R1703-1705
8/9/4/252- 256	3177-3181	Jun 1962: 215 x 165 mm: 1301 Card Reader: R1706-1710
8/9/4/257- 272	3182-3207	Jun 1962: 215 x 165 mm: Row-by-row Punch: R1712-1727
8/9/4/273- 274	3208-3209	Jun 1962: 215 x 165 mm: Electric U.A.K.P. for Australia: R1728-1729
8/9/4/275- 279	3210-3214	Jun 1962: 215 x 165 mm: Test Rig of Solenoids for Electrical U.A.K.P...: R1730-1734
8/9/4/280- 284	3215-3219	Jun 1962: 215 x 165 mm: On Demand Card Reader: R1735-1739
8/9/4/285- 286	3220-3221	Jun 1962: 215 x 165 mm: 1301 Card Reader: R1740-1741
8/9/4/287- 289	3222-3224	Jul 1962: 215 x 165 mm: High Speed Punch: R1742-1744
8/9/4/290- 292	3225-3228	Jul 1962: 215 x 165 mm: On Demand Card Reader: R1747-1750

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8/9/5/1-3	3229-3232	Jul 1962: 215 x 165 mm: Mark Registration Checking Machine: R1754-1757
8/9/5/4-18	3233-3247	Jul 1962: 215 x 165 mm: Mayfair Hotel Telephone Charge Recording Equipment: R1758-1772
8/9/5/19-20	3248-3249	Jul 1962: 215 x 165 mm: Calculating Store for J. Dowding (40 col Multiplier): R1780-1781
8/9/5/21-25	3250-3254	Jul 1962: 215 x 165 mm: Modified 21 col Hand Punch for British Railways: R1783-1787
8/9/5/26-28	3255-3257	Aug 1962: 215 x 165 mm: High Speed Punch, 400 cpm: R1788-1790
8/9/5/29	3258	Aug 1962: 215 x 165 mm: Character Disc (Samastronic) at Croydon: R1792
8/9/5/30	3259	Aug 1962: 215 x 165 mm: Mark Registration Checking Machine: R1795
8/9/5/31	3260	Aug 1962: 215 x 165 mm: Special Projects Dept - 80 col Parallel Input Hand Punch: R1796
8/9/5/32-35	3261-3264	Aug 1962: 215 x 165 mm: Special Projects Dept - Concentrator Unit for British Aluminium: R1797-1800
8/9/5/36	3265	Aug 1962: 215 x 165 mm: Electric U.A.K.P. - Keyboard: R1811
8/9/5/37-48	3266-3277	Sep 1962: 215 x 165 mm: F.C.C. Test Gear: R1813-1824
8/9/5/49-58	3278-3287	Sep 1962: 215 x 165 mm: LEO Print Output: R1825-1834
8/9/5/59-75	3288-3294	Sep 1962: 215 x 165 mm: F.C.C. "B Frame" Test Gear: R1838-1844
8/9/5/76-81	3295-3300	Sep 1962: 215 x 165 mm: EMI Printer: R1848-1853
8/9/5/82-84	3301-3303	Sep 1962: 215 x 165 mm: Uptime

		1500 Speed Reader: R1854-1856
8/9/5/85-87	3304-3306	Oct 1962: 215 x 165 mm: Row-by-Row Punch: R1859-1861
8/9/5/88	3307	Nov 1962: 215 x 165 mm: Advanced Research 2 bit M.A.D. Shift Register: R1883
8/9/5/89-98	3308-3315	Nov 1962: 215 x 165 mm: Rootes O/N 122 Equipment - Parallel Input & Print Out Unit: R1884-1893
8/9/5/99-100	3316-3317	Nov 1962: 215 x 165 mm: Fielding & Platt O/N 110 - Hydraulic Ram Control: R1895-1896
8/9/5/101	3318	Nov 1962: 215 x 165 mm: Magnetic Ink Character Reader: R1897
8/9/5/102-103	3319-3320	Nov 1962: 215 x 165 mm: Type 203/1 Reproducer: 1912 - 1913: R1912-1913
8/9/5/104-105	3321-3322	Nov 1962: 215 x 165 mm: High Speed Punch (400 cpm): R1914-1915
8/9/5/106-110	3323-3327	Nov 1962: 215 x 165 mm: 40 col Calculator Row-by-Row - (formerly Row-by-Row Punch): R1916-1920
8/9/5/111-113	3328-3330	Nov 1962: 215 x 165 mm: High Speed Punch (400 cpm): R1924-1926
8/9/5/114-120	3331-3337	Nov 1962: 215 x 165 mm: 313 Sorter - Letchworth: R1928-1934
8/9/5/121	3338	Dec 1962: 215 x 165 mm: Advanced Research - Multi-Aperture Devices (M.A.D.)- Transfluxors: R1935
8/9/5/122-123	3339-3340	Dec 1962: 215 x 165 mm: Prototype Audit Lister - Framework: R1936-1937
8/9/5/124-126	3341-3343	Dec 1962: 215 x 165 mm: 590 Serial Card Reader: R1939-1941
8/9/5/127-136	3344-3353	Dec 1962: 215 x 165 mm: Kimball Tag Machine - 40 col Punch & Reader: R1942-1951

8/9/5/137	3354	Dec 1962: 215 x 165 mm: M.A.D. - R - 2-bit Shift Register: R1953
8/9/5/138- 148	3355-3365	Dec 1962: 215 x 165 mm: 144 Wheel Printer for Bank fo England: R1956-1966
8/9/5/149- 153	3366-3368	Dec 1962: 215 x 165 mm: 40 col Sorter - 1200 cpm: R1967-1971
8/9/5/154- 158	3369-3373	Dec 1962: 215 x 165 mm: Electric U.A.K.P. for Australia: R1972-1976
8/9/5/159- 162	3374-3377	Jan 1963: 215 x 165 mm: 80 col Reproducer ASM 18 Link: R1977-1980
8/9/5/163- 166	3378-3381	Jan 1963: 215 x 165 mm: 582/3 Series "C" Ferranti Output Punch: R1986-1989
8/9/5/167- 170	3382-3385	Jan 1963: 215 x 165 mm: 51 col Type 29 Punch: R1990-1993
8/9/5/171	3386	Dec 1962: 215 x 165 mm: Giant Drawing Board Display: R1995: R1995
8/9/5/172	3387	Jan 1963: 215 x 165 mm: Electric U.A.K.P. for Australia: R1997
8/9/5/173- 180	3388-3395	Jan 1963: 215 x 165 mm: City Hotels End Printing Punch (Mandarin Hotel, Hong Kong): R2000-2007
8/9/5/181- 184184	3396-3399	Jan 1963: 215 x 165 mm: Fielding & Platt O/N 110: R2008-2011
8/9/5/185	3400	Jan 1963: 215 x 165 mm: Artist's Impression of Collator: R2013
8/9/5/186	3401	Jan 1963: 215 x 165 mm: Artist's Impression of On Demand Card Reader: R2014
8/9/5/187	3402	Jan 1963: 215 x 165 mm: Artist's Impression of 1200 cpm Sorter: R2015
8/9/5/188	3403	Jan 1963: 215 x 165 mm: High Speed Punch, 400 cpm: R2016

8/9/5/189	3404	Jan 1963: 215 x 165 mm: Electric Keyboard for U.A.K.P.: R2017
8/9/5/190-197	3405-3412	Jan 1963: 215 x 165 mm: 1000 cpm Sorter: R2029-2030
8/9/5/198-199	3413-3415	Jan 1963: 215 x 165 mm: ASM 18 Computer Read Punch: R2029-2030
8/9/5/200-204	3416-3420	Jan 1963: 215 x 165 mm: 40 col 1301 Card Reader: R2031-2035
8/9/5/205-206	3421-3422	Jan 1963: 215 x 165 mm: Cabinet Covers redesigned for Mr E.C.H. Organ: R2036-2037
8/9/5/207-208	3423-3424	Feb 1963: 215 x 165 mm: 40 col Calculator Row-by-Row : R2039-2040
8/9/5/209-219	3425-3435	Feb 1963: 215 x 165 mm: Fielding & Platt Equipment: R2041-2051
8/9/5/220-221	3436-3437	Feb 1963: 215 x 165 mm: 915/- Feed Unit: R2052-2053
8/9/5/222	3438	Feb 1963: 215 x 165 mm: Geneva Clutch Assembly: R2054
8/9/5/223-234	3439-3450	Feb 1963: 215 x 165 mm: 915/- Document Feed Machine: R2055-2066
8/9/5/235-236	3451-3452	Feb 1963: 215 x 165 mm: 40 col Verifier: R2067-2068
8/9/5/237-238	3453-3454	Feb 1963: 215 x 165 mm: E.U.A.K.P. with N. London Designed Covers: R2069-2070
8/9/5/239	3455	Feb 1963: 215 x 165 mm: High Speed Punch - card stop operating mechanism: R2081
8/9/5/240-243	3456-3459	Feb 1963: 215 x 165 mm: City Hotels Equipment: R2090-2093
8/9/5/244	3460	Feb 1963: 215 x 165 mm: Windscale Equipment: R2094
8/9/5/245	3461	Feb 1963: 215 x 165 mm: E.U.A.K.P. - Modified carriage: R2095

8/9/5/246- 248	3462-3464	Feb 1963: 215 x 165 mm: Windscale Equipment: R2097-2099
8/9/5/249	3465	Feb 1963: 215 x 165 mm: 1200 cpm Sorter: R2100
8/9/5/250	3466	Feb 1963: 215 x 165 mm: Desk Counter - for coupling up to the 1200 cpm Sorter: R2101
8/9/5/251- 252	3467-3468	Feb 1963: 215 x 165 mm: 7/PDR 30/ Power Unit Type "D": R2102-2103
8/9/5/253- 258	3469-3474	Feb 1963: 215 x 165 mm: Simple Card Reader: R2104-2109
8/9/5/259- 262	3475-3478	Feb 1963: 215 x 165 mm: High Speed Punch: R2110-2113
8/9/5/263- 272	3479-3488	Feb 1963: 215 x 165 mm: F.C.C. Test Gear: R2114-2123
8/9/5/273	3489	Feb 1963: 215 x 165 mm: High Speed Punch - plan view of card track and drive: R2124
8/9/5/274- 275	3490-3491	Feb 1963: 215 x 165 mm: E.U.A.K.P. - 1st assembly stage: R2132-2133
8/9/5/276- 277	3492-3493	Mar 1963: 215 x 165 mm: 1301 Card Reader: R2139-2140
8/9/5/278- 279	3494-3495	Mar 1963: 215 x 165 mm: 40 col Sorter - 666 cpm: R2141-2142
8/9/5/280- 283	3496-3499	Mar 1963: 215 x 165 mm: E.U.A.K.P. - Carriage assembly: R2148-2151
8/9/5/284- 285	3500-3501	Mar 1963: 215 x 165 mm: 80 col Collator: R2152-2153
8/9/5/286- 290	3502-3506	Mar 1963: 215 x 165 mm: City Hotels Equipment: R2155-2159
8/9/5/291- 295	3507-3511	Mar 1963: 215 x 165 mm: 1301 40 col Card Reader: R2172-2176
8/9/5/296	3512	Mar 1963: 215 x 165 mm: 029 Punch: R2177
8/9/5/297	3513	Mar 1963: 215 x 165 mm: 1000

Reader: R2178

8/9/5/298	3514	Mar 1963: 215 x 165 mm: Vacuum Band Card Feed - model: R2181
8/9/5/299	3515	Mar 1963: 215 x 165 mm: E.U.A.K.P. - Printed Circuit Relay Board: R2182
8/9/5/300-307	3516-3519	Mar 1963: 215 x 165 mm: 80 col On Demand Card Reader: R2185-2192
8/9/5/308-309	3520-3521	Mar 1963: 215 x 165 mm: Audit Lister Cabinet - part assembled: R2193-2194
8/9/5/310	3522	Mar 1963: 215 x 165 mm: Artist's Impression - 40 col Calculator: R2195
8/9/5/311	3523	Mar 1963: 215 x 165 mm: E.U.A.K.P. - Counter cam assembly: R2196
8/9/5/312-313	3524-3525	Mar 1963: 215 x 165 mm: 80 col Collator - test gear cabinet: R2197-2198
8/9/5/314-315	3526-3527	Apr 1963: 215 x 165 mm: 660 High Speed Printer: R2199-2200
8/9/5/316-318	3528-3530	Apr 1963: 215 x 165 mm: 665 High Speed Printer: R2201-2203
8/9/6	1963 Apr-35263	Nos 2205 - 2551
	Nov	
8/9/6/1-7	3531-3537	Apr 1963: 215 x 165 mm: 1020 Tape Punch & 1021 Tape Punch Verifier: R2204-2210
8/9/6/8	3538	Apr 1963: 215 x 165 mm: 80 col Collator - sub-assembly of Plugboard & Store: R2211
8/9/6/9-16	3539-3546	Apr 1963: 215 x 165 mm: 40 col Calculator - Power Supply Units: R2212 - 2219
8/9/6/17-22	3547-3552	Apr 1963: 215 x 165 mm: R.C.A. Adding Machine fitted to N.D.P. Punch: R2220 - 2225

8/9/6/23-27	3553-3557	Sep 1962: 215 x 165 mm: On Demand Card Reader: R2226-2250
8/9/6/28-29	3558-3559	Jan 1963: 215 x 165 mm: F.C.C. Card Receiver Assembly: R2251-2252
8/9/6/30	3560	Jan 1963: 215 x 165 mm: Uniselector: R2253
8/9/6/31-34	3561-3564	Apr 1963: 215 x 165 mm: Reproducer 2030/0/328 with special features: R2255-2258
8/9/6/35-36	3565-3566	Apr 1963: 215 x 165 mm: 80 col Collator - Pulse Switch Unit: R2259-2260
8/9/6/37	3567	Apr 1963: 215 x 165 mm: E.U.A.K.P. Power Supply: R2261
8/9/6/38-39	3568-3569	Apr 1963: 215 x 165 mm: Power Pack for Document Handler: R2262-2263
8/9/6/40-41	3570-3571	Apr 1963: 215 x 165 mm: Type 029 Punch with Multiplying Unit: R2266-2267
8/9/6/42-45	3572-3575	May 1963: 215 x 165 mm: E.U.A.K.P.: R2268-2271
8/9/6/46-50	3576-3580	Apr 1963: 215 x 165 mm: On Demand Card Reader - Track Roll Assembly and other details: R2272-2276
8/9/6/51	3581	Apr 1963: 215 x 165 mm: On Demand Card Reader - Stacker Unit: R2277
8/9/6/52	3582	May 1963: 215 x 165 mm: 80 col Collator - Plugboard Assembly: R2278
8/9/6/53-54	3583-3584	Apr 1963: 215 x 165 mm: On Demand Card Reader - Stacker details: R2279-2280
8/9/6/55	3585	May 1963: 215 x 165 mm: 80 col Collator - Main Shaft of feed unit: R2281
8/9/6/56	3586	May 1963: 215 x 165 mm: On Demand Card Reader - Reject Card

		Deflector: R2282
8/9/6/57-60	3587-3590	May 1963: 215 x 165 mm: Audit Lister: R2283-2286
8/9/6/61	3591	May 1963: 215 x 165 mm: On Demand Card Reader - Reject Track: R2287
8/9/6/62-63	3592-3593	May 1963: 215 x 165 mm: 80 col Collator - Motor Mounting assembly: R2288-2289
8/9/6/64-66	3594-3596	May 1963: 215 x 165 mm: 40 col Calculator: R2290-2292
8/9/6/67-68	3597-3598	May 1963: 215 x 165 mm: 80 col On Demand Card Reader: R2293-2294
8/9/6/69	3599	May 1963: 215 x 165 mm: 80 col Collator - Main Base Frame assembly: R2297
8/9/6/70	3600	May 1963: 215 x 165 mm: E.U.A.K.P. - Line Drawing: R2298
8/9/6/71-74	3601-3604	May 1963: 215 x 165 mm: Type 915/- Feed Unit: R2299-2302
8/9/6/75	3605	May 1963: 215 x 165 mm: Copy of Fig 32 - M.H. Loops: R2303
8/9/6/76	3606	May 1963: 215 x 165 mm: Anelex Printer - rear of Printed Circuit Board: R2304
8/9/6/77-78	3607-3608	May 1963: 215 x 165 mm: 80 col On Demand Card Reader - Card Track assembly: R2307-2308
8/9/6/79	3609	May 1963: 215 x 165 mm: 80 col On Demand Card Reader - Gearbox assembly: R2309
8/9/6/80-81	3610-3611	May 1963: 215 x 165 mm: 2nd Audit Lister: R2312-2313
8/9/6/82-83	3612-3613	May 1963: 215 x 165 mm: 915/- Document Feed Machine
8/9/6/84-87	3614-3617	May 1963: 215 x 165 mm: Power Supplies: R2319-2322

8/9/6/88-91	3618-3621	May 1963: 215 x 165 mm: 80 col On Demand Card Reader - Magazine Castings: R2323-2326
8/9/6/92	3622	May 1963: 215 x 165 mm: 80 col Collator - Sub-Assembly of Electronic Frame: R2327
8/9/6/93-94	3623-3624	Jun 1963: 215 x 165 mm: 80 col On Demand Card Reader - Machine Partly assembled: R2328-2329
8/9/6/95	3625	Jun 1963: 215 x 165 mm: 80 col On Demand Card Rader - Reading Head: R2330
8/9/6/96-100	3626-3630	Jun 1963: 215 x 165 mm: 40 col Calculator (Row by Row) - details: R2335-2339
8/9/6/101	3631	Jun 1963: 215 x 165 mm: 1200 cpm Sorter - Belt arrangement: R2340
8/9/6/102	3632	Jul 1963: 215 x 165 mm: 80 col Hand-Operated Card Reader: R2359
8/9/6/103- 111	3633-3641	Jul 1963: 215 x 165 mm: 1200 cpm Sorter: R2360-2368
8/9/6/112- 113	3642-3643	Jul 1963: 215 x 165 mm: 80 col Collator - Test Equipment: R2369- 2370
8/9/6/114- 115	3644-3645	Jul 1963: 215 x 165 mm: High Speed Punch - Pattern Generator Test Equipment: R2371-2372
8/9/6/116- 121	3646-3651	Jul 1963: 215 x 165 mm: Account Checking Machine: R2373-2378
8/9/6/122- 132	3652-3662	Jul 1963: 215 x 165 mm: High Speed Punch: R2379-2389
8/9/6/133	3663	Jul 1963: 215 x 165 mm: 80 col On Demand Card Reader - Parity Unit Test Equipment: R2390
8/9/6/134	3664	Jul 1963: 215 x 165 mm: N.D.P. Electric Punch - Modified Connection Box: R2391
8/9/6/135-	3665-3667	Jul 1963: 215 x 165 mm: Type 915/-

137		Gearbox: R2392-2394
8/9/6/138- 141	3668-3671	Jul 1963: 215 x 165 mm: 40 col Card to Tape Machine: R2395-2398
8/9/6/142	3672	Jul 1963: 215 x 165 mm: High Speed Punch: R2399
8/9/6/143- 144	3673-3674	Jul 1963: 215 x 165 mm: Power Packs: R2400-2401
8/9/6/145	3675	Jul 1963: 215 x 165 mm: 21 col Card Reader: R2402
8/9/6/146	3676	Jul 1963: 215 x 165 mm: Natpro2 (Character Recognition) Sorter: R2404
8/9/6/147- 149	3677-3679	Jul 1963: 215 x 165 mm: On Demand Card Reader - details: R2405-2407
8/9/6/150	3680-3681	Jul 1963: 215 x 165 mm: On Demand Card Reader - Test Gear: R2408- 2409
8/9/6/151- 153	3682-3684	Jul 1963: 215 x 165 mm: High Speed Punch: R2410-2412
8/9/6/154- 155	3685-3686	Jul 1963: 215 x 165 mm: 40 col Card to Tape Machine: R2413-2414
8/9/6/156- 162	3687-3693	Aug 1963: 215 x 165 mm: On Demand Card Reader: R2415-2421
8/9/6/163- 164	3694-3695	Aug 1963: 215 x 165 mm: Power Supplies: R2422-2423
8/9/6/165- 176	3696-3707	Aug 1963: 215 x 165 mm: Character Recognition - High Speed Document Feeder & Stacker: R2424-2435
8/9/6/177- 178	3708-3709	Aug 1963: 215 x 165 mm: On Demand Card Reader - Test Gear Printed Circuit Board: R2436-2437
8/9/6/179- 180	3710-3711	Jul 1963: 215 x 165 mm: 1200 cpm Sorter - Printed Circuit Boards: R2438-2439
8/9/6/181	3712	Jul 1963: 215 x 165 mm: 1200 cpm Sorter - Picker Knife Assembly:

R2440

8/9/6/182	3713	Aug 1963: 215 x 165 mm: Character Recognition - High Speed Document Reader: R2441
8/9/6/183-186	3714-3717	Aug 1963: 215 x 165 mm: Character Recognition - Universal Slow Speed Document Transport: R2442-2445
8/9/6/187	3718	Aug 1963: 215 x 165 mm: High Speed Punch - detail: R2446
8/9/6/188-189	3719-3720	Aug 1963: 215 x 165 mm: 1200 cpm Sorter - Base Frame Assembly: R2447-2448
8/9/6/190	3721	Aug 1963: 215 x 165 mm: Artist's Impression of High Speed Punch: R2449
8/9/6/191	3722	Aug 1963: 215 x 165 mm: Character Recognition - Slow Speed Document Feed: R2450
8/9/6/192-193	3723-3724	Aug 1963: 215 x 165 mm: Advanced Research - Tunnel Diode Store: R2452-2453
8/9/6/194	3725	Sep 1963: 215 x 165 mm: On Demand Card Reader - Printed Circuit Board: R2454
8/9/6/195	3726	Aug 1963: 215 x 165 mm: High Speed Punch: R2455
8/9/6/196-197	3727-3728	Aug 1963: 215 x 165 mm: Audit Lister: R2456-2457
8/9/6/198-199	3729-3730	Aug 1963: 215 x 165 mm: Power Supply: R2458-2459
8/9/6/200-202	3731-3733	Aug 1963: 215 x 165 mm: On Demand Card Reader - Test Gear: R2460-2462
8/9/6/203-205	3734-3736	Aug 1963: 215 x 165 mm: Anelex Printer: R2463-2465
8/9/6/206	3737	Sep 1963: 215 x 165 mm: On Demand Card Reader - Printed Circuit

Board: R2466

8/9/6/207- 211	3738-3742	Sep 1963: 215 x 165 mm: Type 36 Punch: R2467-2471
8/9/6/212	3743	Sep 1963: 215 x 165 mm: Natpro2 (Character Recognition): R2472
8/9/6/213- 215	3744-3746	Sep 1963: 215 x 165 mm: 2nd N.D.P. Sorter: R2473-2475
8/9/6/216- 220	3747-3751	Sep 1963: 215 x 165 mm: On Demand Card Reader - Test Gear: R2476- 2480
8/9/6/221- 222	3752-3753	Sep 1963: 215 x 165 mm: 1301 Computer Card Reader: R2481-2482
8/9/6/223- 226	3754-3757	Sep 1963: 215 x 165 mm: Buffered PF 90 Printer: R2483-2486
8/9/6/227- 233	3758-3764	Sep 1963: 215 x 165 mm: 1200 cpm Sorter: R2487-2493
8/9/6/234- 237	3765-3768	Sep 1963: 215 x 165 mm: On Demand Card Reader - various details: R2494-2497
8/9/6/238- 243	3769-3774	Oct 1963: 215 x 165 mm: 21 col Powers Tabulator with 21 col SCP - Bowden Connection: R2498-2503
8/9/6/244- 245	3775-3776	Oct 1963: 215 x 165 mm: 319 Sorter (1200 cpm): R2504-2505
8/9/6/246- 254	3777-3785	Oct 1963: 215 x 165 mm: 51/80 col On Demand Card Reader: R2506-2514
8/9/6/255- 261	3786-3794	Oct 1963: 215 x 165 mm: FACIT - U.A.K.P. Link: R2515-2521
8/9/6/262	3795	Oct 1963: 215 x 165 mm: Adding Machine for Customs: R2523
8/9/6/263- 267	3796-3800	Oct 1963: 215 x 165 mm: Type 36 Punch: R2524-2528
8/9/6/268- 270	3801-3803	Oct 1963: 215 x 165 mm: High Speed Punch: R2529-2531
8/9/6/271	3804	Oct 1963: 215 x 165 mm: Character

		Recognition - Cheque: R2532
8/9/6/272	3805	Oct 1963: 215 x 165 mm: FACIT - U.A.K.P. Link: R2533
8/9/6/273- 274	3806-3807	Oct 1963: 215 x 165 mm: Power Supply - Type F: R2534-2535
8/9/6/275	3808	Oct 1963: 215 x 165 mm: 21 col Powers Tabulator with 21 col SCP: R2536
8/9/6/276- 280	3809-3813	Oct 1963: 215 x 165 mm: High Speed Punch: R2541-2545
8/9/6/281	3814-3815	Oct 1963: 215 x 165 mm: 51/80 col On Demand Card Reader: R2546-2547
8/9/6/282	3816-3819	Nov 1963: 215 x 165 mm: 319 Sorter - Desk Counter: R2548-2551
8/9/7	1963 Oct-64 May	Nos 2552 - 2900
8/9/7/1-2	3820-3821	Oct 1963: 215 x 165 mm: 40 col Calculator - Cabinet: R2552-2553
8/9/7/3	3822	Nov 1963: 215 x 165 mm: High Speed Punch - Partial Assembly of Punch Unit: R2555
8/9/7/4	3823	Nov 1963: 215 x 165 mm: 40 col Calculator - Cabinet: R2556
8/9/7/5-8	3824-3827	Nov 1963: 215 x 165 mm: Burroughs Adding Machine: R2559-2562
8/9/7/9-10	3828-3829	Nov 1963: 215 x 165 mm: High Speed Punch - Partial Assembly of Punch Unit: R2564-2565
8/9/7/11-13	3830-3832	Nov 1963: 215 x 165 mm: Burroughs Adding Machine: R2566-2568
8/9/7/14-26	3833-3845	Nov 1963: 215 x 165 mm: 51/80 col On Demand Card Reader - showing location of connection boards: R2569-2581
8/9/7/27	3846	Nov 1963: 215 x 165 mm: High Speed Punch - Further Partial Assembly

		of Punch Unit: R2582
8/9/7/28-32	3847-3851	Nov 1963: 215 x 165 mm: Olivetti Adding Machine: R2583-2587
8/9/7/33	3852	Nov 1963: 215 x 165 mm: M.I.C.R. Document Encoder: R2588
8/9/7/34	3853	Nov 1963: 215 x 165 mm: Artist's Impression of APF 190 High Speed Printer: R2590
8/9/7/35-36	3854-3855	Nov 1963: 215 x 165 mm: High Speed Punch: R2591-2592
8/9/7/37-38	3856-3857	Nov 1963: 215 x 165 mm: 80 col Collator: R2593-2594
8/9/7/39-40	3858-3859	Dec 1963: 215 x 165 mm: High Speed Punch: R2595-2596
8/9/7/41	3860	Dec 1963: 215 x 165 mm: Character Recognition CMC7 (FGPO) Cheques: R2616
8/9/7/42-43	3861-3862	Dec 1963: 215 x 165 mm: Programme Routine Tester: R2617-2618
8/9/7/44-45	3863-3864	Dec 1963: 215 x 165 mm: High Speed Punch Disc Unit: R2619-2620
8/9/7/46	3865	Dec 1963: 215 x 165 mm: 80 col Collator: R2621
8/9/7/47	3866	Dec 1963: 215 x 165 mm: Printed Circuit Board (on Printer Buffer) showing damaged connector: R2622
8/9/7/48-51	3867-3870	Dec 1963: 215 x 165 mm: Numerical Keyboard: R2623-2626
8/9/7/52-54	3871-3873	Dec 1963: 215 x 165 mm: Character Recognition - 10x magnification of E 13 B print samples: R2629-2631
8/9/7/55-57	3874-3876	Dec 1963: 215 x 165 mm: On Demand Card Reader - Test Gear: R2633-2635
8/9/7/58-59	3877-3878	Dec 1963: 215 x 165 mm: Single Plane Construction - Printed

Circuit Tester: R2636-2637

8/9/7/60-61	3879-3880	Jan 1964: 215 x 165 mm: High Speed Punch: R2640-2641
8/9/7/62	3881	Jan 1964: 215 x 165 mm: On Demand Card Reader - Rear of control panel: R2642
8/9/7/63	3882	Jan 1964: 215 x 165 mm: Character Recognition - Reduction to 3mm of characters: R2643
8/9/7/64	3883	Jan 1964: 215 x 165 mm: Powers One Summary Card Punch: R2644
8/9/7/65	3884	Jan 1964: 215 x 165 mm: Type 033 Punch (Bull): R2645
8/9/7/66-67	3885-3886	Jan 1964: 215 x 165 mm: Selective Reproducer for the Bank of England: R2646-2647
8/9/7/68	3887	Jan 1964: 215 x 165 mm: Type 314 Sorter: R2648
8/9/7/69-71	3888-3890	Jan 1964: 215 x 165 mm: Type 666 High Speed Printer: R2649-2651
8/9/7/72-73	3891-3892	Jan 1964: 215 x 165 mm: APF 190 1000 Line Printer: R2652-2653
8/9/7/74	3893	Jan 1964: 215 x 165 mm: Simulator for 666 High Speed Printer: R2654
8/9/7/75-78	3894-3897	Jan 1964: 215 x 165 mm: High Speed Punch: R2655-2658
8/9/7/79-89	3898-3908	Jan 1964: 215 x 165 mm: 80 col Collator & Radial Stacker Unit: R2659-2669
8/9/7/90-91	3909-3910	Jan 1964: 215 x 165 mm: On Demand Card Reader - Printed Circuit Board: R2670-2671
8/9/7/92-99	3911-3918	Jan 1964: 215 x 165 mm: Brush Assembly Setting: R2673 -2680
8/9/7/100	3919	Jan 1964: 215 x 165 mm: On Demand Card Reader - Test Gear: R2681

8/9/7/101- 115	3920-3924	Feb 1964: 215 x 165 mm: Datasend Equipment: R2689-2703
8/9/7/116- 118	3925-3927	Feb 1964: 215 x 165 mm: High Speed Gang Punch: R2704-2706
8/9/7/119	3928	Feb 1964: 215 x 165 mm: 40 col Tape to Card Converter: R2707
8/9/7/120- 123	3929-3932	Feb 1964: 215 x 165 mm: High Speed Punch (2nd Prototype): R2711-2714
8/9/7/124- 126	3933-3935	Feb 1964: 215 x 165 mm: Random Access File: R2715-2717
8/9/7/127	3936	Feb 1964: 215 x 165 mm: Character Recognition - Trial Font Type 21: R2718
8/9/7/128	3937	Feb 1964: 215 x 165 mm: Character Recognition - Clock Disc Layout: R2719
8/9/7/129- 130	3938-3939	Feb 1964: 215 x 165 mm: 40 col Calculator, showing fluff accumulation: R2720-2721
8/9/7/131	3940	Mar 1964: 215 x 165 mm: PF 118 High Speed Punch (2nd Prototype): R2722
8/9/7/132- 139	3941-3948	Mar 1964: 215 x 165 mm: 40 col Calculator: R2723-2730
8/9/7/140	3949	Mar 1964: 215 x 165 mm: Brush Setting Fixture: R2731
8/9/7/141- 142	3950-3951	Mar 1964: 215 x 165 mm: 90 col Collator - Electronics Cabinet: R2732-2733
8/9/7/143- 145	3952-3954	Mar 1964: 215 x 165 mm: 40 col Calculator - Electronics Cabinet): R2734-2736
8/9/7/146- 148	3955-3957	Mar 1964: 215 x 165 mm: 40 col Calculator - Front Upper Track Assembly: R2738-2740
8/9/7/149	3958	Mar 1964: 215 x 165 mm: 80 col High Speed Punch: R2741

8/9/7/150- 151	3959-3960	Mar 1964: 215 x 165 mm: On Demand Card Reader - Test Gear: R2742- 2743
8/9/7/152	3961	Mar 1964: 215 x 165 mm: On Demand Card Reader - Track: R2744
8/9/7/153- 155	3962-3964	Mar 1964: 215 x 165 mm: Character Recognition - Format Specimen for APF 212: R2745-2747
8/9/7/156- 160	3965-3969	Apr 1964: 215 x 165 mm: On Demand Card Reader - Test Gear: R2748- 2752
8/9/7/161- 163	3970-3972	Apr 1964: 215 x 165 mm: 21 col Tabulator & Summary Card Punch: R2753-2755
8/9/7/164- 167	3973-3976	Apr 1964: 215 x 165 mm: Reproducer - Special Features for Manfield & Son: R2756-2759
8/9/7/168	3977	Apr 1964: 215 x 165 mm: 40 col Calculator - Front Lower Track: R2766
8/9/7/169	3978	Apr 1964: 215 x 165 mm: Character Recognition - Clock Disc: R2800
8/9/7/170- 173	3979-3982	Apr 1964: 215 x 165 mm: Character Recognition - Lab Model APF 189 Universal Disc Transport: R2801- 2804
8/9/7/174- 175	3983-3984	Apr 1964: 215 x 165 mm: On Demand Card Reader: R2824-2825
8/9/7/176	3985	May 1964: 215 x 165 mm: On Demand Card Reader: R2829
8/9/7/177- 180	3986-3989	May 1964: 215 x 165 mm: High Speed Punch - Prototype Covers: R2830- 2833
8/9/7/181- 198	3990-4007	May 1964: 215 x 165 mm: Electrical Council Central Equipment: R2834- 2851
8/9/7/199- 200	4008-4009	May 1964: 215 x 165 mm: Unit for Aberporth: R2852-2853

8/9/7/201- 202	4010-4011	May 1964: 215 x 165 mm: 40 col Card Reader - 1301 modified: R2854-2855
8/9/7/203- 212	4012-4021	May 1964: 215 x 165 mm: On Demand Card Reader - Test Gear: R2856- 2865
8/9/7/213- 217	4022-4026	May 1964: 215 x 165 mm: British Banks Encoder: R2866-2870
8/9/7/218- 226	4027-4035	May 1964: 215 x 165 mm: 8510 Amount Encoder - Mock-up by Noel London Design: R2871-2879
8/9/7/227- 228	4036-4037	Jun 1964: 215 x 165 mm: CMC Characters: R2880-2881
8/9/7/229- 236	4038-4045	Jun 1964: 215 x 165 mm: On Demand Card Reader - Machine Wired up in USA by R.C.A.: R2888-2895
8/9/7/237- 238	4046-4047	May 1964: 215 x 165 mm: Type V Tape Transport: R2896-2897
8/9/7/239- 241	4048-4050	May 1964: 215 x 165 mm: PF 183: R2898-2900
8/9/8	1964 May-65 Mar	Nos 2901 - 3246
8/9/8/1-3	4051-4053	May 1964: 215 x 165 mm: 1302: R2901-2903
8/9/8/4-9	4054-4059	May 1964: 215 x 165 mm: High Speed Printer: R2904-2909
8/9/8/10-11	4060-4061	May 1964: 215 x 165 mm: 1000 cpm Sorter: R2910-2911
8/9/8/12	4062	May 1964: 215 x 165 mm: 80 col Collator: R2915
8/9/8/13	4063	May 1964: 215 x 165 mm: Random Access File: R2916
8/9/8/14	4064	May 1964: 215 x 165 mm: On Demand Card Reader: R2917
8/9/8/15-16	4065-4066	May 1964: 215 x 165 mm: High Speed Punch: 2918-2919

8/9/8/17-23	4067-4073	Jun 1964: 215 x 165 mm: 1301 Input-Output Equipment: R2921-2927
8/9/8/24-26	4074-4076	Jun 1964: 215 x 165 mm: Type V Tape Transport: R2928-2930
8/9/8/27-37	4077-4087	Jun 1964: 215 x 165 mm: Adler Typewriter - Modifications for A.E.R.E. Harwell: R2931-2941
8/9/8/38-47	4088-4097	Jun 1964: 215 x 165 mm: Samastronic Print Heads - E.M.I. Watford: R2944-2953
8/9/8/48-50	4098-4100	Jul 1964: 215 x 165 mm: High Speed Punch: R2963-2965
8/9/8/51-63	4101-4113	Jul 1964: 215 x 165 mm: Type 666 High Speed Printer: R2966-2978
8/9/8/64-69	4114-4119	Jul 1964: 215 x 165 mm: Type 902 21 col Tabulator: R2979-2984
8/9/8/70-71	4120-4121	Jul 1964: 215 x 165 mm: Type 335 Sorter - Statistical Unit: R2985- 2986
8/9/8/72-73	4122-4123	Jul 1964: 215 x 165 mm: Type 37 Punch: R2987-2988
8/9/8/74-78	4124-4128	Jul 1964: 215 x 165 mm: CMC-7 Reader: R2989-2993
8/9/8/79-90	4129-4140	Aug 1964: 215 x 165 mm: Type 035 A.K.P. with Adler Typewriter: R2994-3005
8/9/8/91-94	4141-4144	Sep 1964: 215 x 165 mm: 40/80 col Reproducer: R3007-3010
8/9/8/95-99	4145-4149	Sep 1964: 215 x 165 mm: Typewriter on 1301 Machine: R3011-3015
8/9/8/100- 108	4150-4158	Sep 1964: 215 x 165 mm: P.F. 208 Encoder: R3016-3024
8/9/8/109	4159	Sep 1964: 215 x 165 mm: Print Samples - *8 images combined on 1 print*: R3025-3032*
8/9/8/110-	4160-4161	Sep 1964: 215 x 165 mm: P.F. 215 -

111		Paper Tape Punch: R3033-3034
8/9/8/112- 116	4162-4166	Oct 1964: 215 x 165 mm: Demand Data Recorder: R3036-3040
8/9/8/117	4167	Oct 1964: 215 x 165 mm: C des C Specification for PEN 5 B - ½" Magnetic Tape Handler: R3041
8/9/8/118	4168	Oct 1964: 215 x 165 mm: P.F. 182 Central Processor, showing Standard Interface: R3042
8/9/8/119- 123	4169-4173	Oct 1964: 215 x 165 mm: British Banks Encoder: R3043-3047
8/9/8/124	4174	Oct 1964: 215 x 165 mm: On Demand Card Reader - Test Gear: R3048
8/9/8/125- 126	4175-4176	Oct 1964: 215 x 165 mm: 40/80 col Reproducer: R3054-3055
8/9/8/127	4177	Oct 1964: 215 x 165 mm: 80 col Collator - Timing Disc: R3056
8/9/8/128- 129	4178-4179	Nov 1964: 215 x 165 mm: Thin Film Stack: R3060-3061
8/9/8/130- 131	4180-4181	Nov 1964: 215 x 165 mm: Optical bench set-up for measuring light radiation & testing TEXAS H60 series photocells: R3062-3063
8/9/8/132- 138	4182-4188	Nov 1964: 215 x 165 mm: Type 37 Interpreter: R3064-3070
8/9/8/139- 142	4189-4192	Nov 1964: 215 x 165 mm: Type 1020 Tape Punch & Type 1021 Tape Verifier Control Boxes
8/9/8/143- 153	4193-4203	Nov 1964: 215 x 165 mm: Type 36 Punch: R3075-3085
8/9/8/154- 160	4204-4210	Nov 1964: 215 x 165 mm: Type 29 Punch: R3086-3092
8/9/8/161	4211	Nov 1964: 215 x 165 mm: P.F. 215 - Paper Tape Punch: R3093
8/9/8/162- 169	4212-4219	Nov 1964: 215 x 165 mm: Type 36 Punch: R3094-3103

8/9/8/170-171	4220-4221	Nov 1964: 215 x 165 mm: 1200 cpm Sorter - prototype machine - magazine area: R3105-3106
8/9/8/172-176	4222-4226	Nov 1964: 215 x 165 mm: On Demand Card Reader - Test Gear: R3107- 3111
8/9/8/177-183	4227-4233	Dec 1964: 215 x 165 mm: Type 666 Printer - Printer mechanism: R3112-3118
8/9/8/184	4234	Dec 1964: 215 x 165 mm: Type 36 Punch - Feed mechanism: R3124
8/9/8/185-189	4235-4239	Dec 1964: 215 x 165 mm: Type 666 High Speed Printer - Stacker: R3125-3129
8/9/8/190-194	4240-4244	Dec 1964: 215 x 165 mm: 1059/0 Automatic Card Reader, 80 col: R3133-3137
8/9/8/195-196	4245-4246	Dec 1964: 215 x 165 mm: Kidder Press : Whirly-Sig Mk II: R3138- 3139
8/9/8/197-199	4247-4249	Jan 1965: 215 x 165 mm: P.F. 215 - Paper Tape Punch: R3146-3148
8/9/8/200	4250	Jan 1965: 215 x 165 mm: PF 214 Paper Tape Reader: R3149
8/9/8/201-203	4251-4253	Jan 1965: 215 x 165 mm: British Banks Encoder: R3150-3152
8/9/8/204-213	4254-4263	Jan 1965: 215 x 165 mm: 40 col Sorter for Siemens: R3156-3165
8/9/8/214-217	4264-4267	Jan 1965: 215 x 165 mm: PF 190 Printer: R3166-3169
8/9/8/218-221	4268-4271	Jan 1965: 215 x 165 mm: On Demand Card Reader - Test Gear: R3170- 3173
8/9/8/222-226	4272-4276	Jan 1965: 215 x 165 mm: 1920 Punch Unit: R3175-3179
8/9/8/227-229	4277-4279	Jan 1965: 215 x 165 mm: Type 915 Tabulator Feed: R3180-3182

8/9/8/230- 238	4280-4288	Jan 1965: 215 x 165 mm: MICR Recorder - showing replacement operations for Operator's Handbook: R3183-3191
8/9/8/239- 241	4289-4291	Jan 1965: 215 x 165 mm: Power Supply Type 'D': R3192-3194
8/9/8/242- 243	4292-4293	Jan 1965: 215 x 165 mm: Encoder Unit & Variac: R3195-3196
8/9/8/244- 248	4294-4298	Feb 1965: 215 x 165 mm: Type 590/2 Card Reader: R3197-3201
8/9/8/249- 258	4299-4308	Feb 1965: 215 x 165 mm: Type 424 Interpreter for Univac: R3202-3211
8/9/8/259- 265	4309-4315	Feb 1965: 215 x 165 mm: 666 cpm Sorter 327/0 with re-styled covers: R3216-3222
8/9/8/266- 267	4316-4317	Feb 1965: 215 x 165 mm: Statistical Machine 335/0/1: R3223-3224
8/9/8/268- 269	4318-4319	Feb 1965: 215 x 165 mm: Type 915 Tabulator 40 col - for Kasuda, Japan: R3225-3226
8/9/8/270- 288	4320-4338	Feb 1965: 215 x 165 mm: 40 col Calculator Type 559: R3228-3246
8/9/9	1965 Feb-65 Nov	Nos 3247 - 3697
8/9/9/1-5	4339-4344	Feb 1965: 215 x 165 mm: Type 582/1 Gang Punch - Stewart & Lloyds: R3247-3252
8/9/9/6-8	4345-4347	Feb 1965: 215 x 165 mm: Paper Tape Verifying Equipment - mock-up of successor to 1020/1021: R3253-3255
8/9/9/9-11	4348-4350	Mar 1965: 215 x 165 mm: P.F. 214/2 Paper Tape Reader: R3258-3260
8/9/9/12	4351	Mar 1965: 215 x 165 mm: Paper Tape Centre Unwind: R3266
8/9/9/13-14	4352-4353	Mar 1965: 215 x 165 mm: Paper Tape Rewind: R3267-3268

8/9/9/15-18	4354-4357	Mar 1965: 215 x 165 mm: 80 col Auto Card Reader - Wire pin sensing; belt drive: R3271-3274
8/9/9/19-25	4358-4364	Mar 1965: 215 x 165 mm: Machine Performance Recording Equipment: R3275-3281
8/9/9/26-29	4365-4368	Mar 1965: 215 x 165 mm: Type 314 Sorter: R3282-3285
8/9/9/30-33	4369-4372	Mar 1965: 215 x 165 mm: On Demand Card Reader - m/c no 1111 - Timing belt on card track, showing belt tracking: R3286-3289
8/9/9/34-47	4373-4386	Mar 1965: 215 x 165 mm: Siemens Sorter: R3291-3304
8/9/9/48-50	4387-4389	Mar 1965: 215 x 165 mm: C.M.C. 7 Reader: R3306-3308
8/9/9/51-56	4390-4395	Apr 1965: 215 x 165 mm: Type 327 40 col Sorter: R3309-3314
8/9/9/57-64	4396-4403	Apr 1965: 215 x 165 mm: Type 596 On Demand Card Reader: R3315-3322
8/9/9/65-68	4404-4407	Apr 1965: 215 x 165 mm: Assembly Unit of 'WELMEC' Tape Punch: R3344-3347
8/9/9/69-74	4408-4413	Apr 1965: 215 x 165 mm: Type V Tape Transport - 'C des C': R3349- 3354
8/9/9/75-80	4414-4419	Apr 1965: 215 x 165 mm: Electrical U.A.K.P. 35/0: R3362-3367
8/9/9/81-84	4420-4423	Apr 1965: 215 x 165 mm: Dynamic Interface Tester Mk III: R3368- 3371
8/9/9/85	4424	Apr 1965: 215 x 165 mm: Serial Printer - Special character repertoire: R3373
8/9/9/86-87	4425-4426	Apr 1965: 215 x 165 mm: Termi- Point Wiring (Reliability): R3378- 3379

8/9/9/88-96	4427-4435	May 1965: 215 x 165 mm: National Coal Board - Print out system for coal train loading: R3382-3390
8/9/9/97	4436	May 1965: 215 x 165 mm: 80 col Automatic Parallel Input Unit: R3391
8/9/9/98	4437	May 1965: 215 x 165 mm: 1922/1 Punch Unit: R3392
8/9/9/99-106	4438-4445	May 1965: 215 x 165 mm: Print Quality Monitor and Power Unit: R3393-3400
8/9/9/107-115	4446-4454	May 1965: 215 x 165 mm: 80 col Electrical U.A.K.P.: R3407-3415
8/9/9/116-119	4455-4458	May 1965: 215 x 165 mm: Type 327 40 col Sorter: R3416-3419
8/9/9/120	4459	May 1965: 215 x 165 mm: 40 col Calculator Electronics Cabinet - re-positioned harness run: R3420
8/9/9/121-122	4460-4461	Jun 1965: 215 x 165 mm: E.U.A.K.P. - numerical keyboard: R3429-3430
8/9/9/123-127	4462-4466	Jun 1965: 215 x 165 mm: Type 33 Punch: R3431-3435
8/9/9/128	4467	Jun 1965: 215 x 165 mm: Type 36 Punch - underside of card feed: R3443
8/9/9/129-131	4468-4470	Jun 1965: 215 x 165 mm: AMP Termi-Point m/c - Set-up for proving the m/c and its repeatability: R3944-3946
8/9/9/132	4471	Jul 1965: 215 x 165 mm: Type V Tape Transport - Photograph for Exhibition Display: R3449
8/9/9/133	4472	Jul 1965: 215 x 165 mm: Central Processor -Photograph for Exhibition Display: R3450
8/9/9/134	4473	Jul 1965: 215 x 165 mm: 666 Line Printer - Photograph for Exhibition Display: R3451

8/9/9/135	4474	Jul 1965: 215 x 165 mm: Type 1920 100 cpm Punch - Photograph for Exhibition Display: R3452
8/9/9/136	4475	Jul 1965: 215 x 165 mm: Paper Tape Reader - Photograph for Exhibition Display: R3453
8/9/9/137	4476	Jul 1965: 215 x 165 mm: Paper Tape Punch - Photograph for Exhibition Display: R3454
8/9/9/138	4477	Jul 1965: 215 x 165 mm: Type 1920 100 cpm Punch - Photograph for Exhibition Display: R3455
8/9/9/139	4478	Jul 1965: 215 x 165 mm: Display in 5/6 Factory - Photograph for Exhibition Display: R3456
8/9/9/140- 150	4479-4489	Jul 1965: 215 x 165 mm: Type 314 Sorter - (Light sensing m/c) - Group selection A & A U: R3457- 3467
8/9/9/151- 171	4490-4510	Jul 1965: 215 x 165 mm: Welmec' Tape Reader - Units and broken- down units showing components: R3472-3492
8/9/9/172- 175	4511-4514	Jul 1965: 215 x 165 mm: Photographs of KODAK Aperture Card Reader for instruction pamphlet: R3496-3499
8/9/9/176- 182	4515-4522	Jul 1965: 215 x 165 mm: Type 1038 Card-To-Tape machine: R3502-3509
8/9/9/183- 196	4523-4536	Jul 1965: 215 x 165 mm: Type 129 Verifier: R3512-3525
8/9/9/197- 205	4537-4545	Jul 1965: 215 x 165 mm: Type 36 Punch Keyboard: R3535-3543
8/9/9/206	4546	Aug 1965: 215 x 165 mm: E.U.A.K.P. with painted covers: R3544
8/9/9/207- 218	4547-4558	Aug 1965: 215 x 165 mm: Type 1920 100 cpm Card Punch - Photographs showing sequence of cover assembly: R3545-3556

8/9/9/219- 234	4559-4574	Aug 1965: 215 x 165 mm: P.F. 302/2 Reader Punch (Univac 300 cpm): R3561-3576
8/9/9/235- 236	4575-4576	Aug 1965: 215 x 165 mm: Reductions of Nomograms for Mr R. Piper: R3578-3579
8/9/9/237	4578	Aug 1965: 215 x 165 mm: P.F. 302/2 Reader Punch (Univac 300 cpm): R3580
8/9/9/238	4579-4587	Sep 1965: 215 x 165 mm: P.F. 219 300 cpm Reader: R3583
8/9/9/239- 247	4588	Oct 1965: 215 x 165 mm: 80 col slotted hole Self Interpreter: R3643-3651
8/9/9/248	4589-4590	Oct 1965: 215 x 165 mm: P.F. 252 Central Processor: R3652
8/9/9/249- 250	4591-4599	Oct 1965: 215 x 165 mm: P.F. 219 300 cpm Reader Type 2162: R3653- 3654
8/9/9/251- 259	4600-4602	Oct 1965: 215 x 165 mm: 1901 Central Processor: R3657-3665
8/9/9/260- 262	4603	Oct 1965: 215 x 165 mm: P.F. 207 2000 cpm Reader - No 1 main base casting: R3666-3668
8/9/9/263	4604-4611	Oct 1965: 215 x 165 mm: Geneva Clutch Mechanism for Type 203 & Type 208 Reproducers: R3669
8/9/9/264- 271	4612-4617	Nov 1965: 215 x 165 mm: Magnetic Tally-Roll Reader: R3670-3677
8/9/9/272- 277	4618-4619	Nov 1965: 215 x 165 mm: Type 424 Interpreter (Univac) - Control Panels (Comparison & Plugging Unit): R3678-3683
8/9/9/278- 279	4620-4628	Nov 1965: 215 x 165 mm: Optical Print Quality Monitor: R3685-3686
8/9/9/280- 288		Nov 1965: 215 x 165 mm: Recording Research - Disc File High Density Recording: R3689-3697

8/9/10	1965 Dec-66 Sep	Nos 3718 - 4038
8/9/10/1-9	4629-4637	Dec 1965: 215 x 165 mm: 1900 Data Link (Modified D.T. 10A): R3718-3726
8/9/10/10-22	4638-4650	Jan 1966: 215 x 165 mm: E.M.I. Camera: R3731-3743
8/9/10/23-25	4651-4653	Jan 1966: 215 x 165 mm: Fluid Logic Elements: R3746-3748
8/9/10/26-42	4654-4670	Feb 1966: 215 x 165 mm: Successor to 1020/1021 Verifier Equipment: R3755-3771
8/9/10/43-50	4671-4678	Feb 1966: 215 x 165 mm: 1953 Disc File: R3772-3779
8/9/10/51-53	4679-4681	Feb 1966: 215 x 165 mm: Type 596 On Demand Card Reader: R3781-3783
8/9/10/54-57	4682-4685	Feb 1966: 215 x 165 mm: Physics: Monolithic Integrated Circuit Conductors: R3786-3789
8/9/10/58-65	4686-4693	Feb 1966: 215 x 165 mm: Magnetic Tape Tester for D.R.I.C.O. (Staines): R3790-3797
8/9/10/66-69	4694-4697	Feb 1966: 215 x 165 mm: Type 1971 Cluster III Tape Deck - dropped from a height of 8 feet, off a fork-lift, at an airport: R3801-3804
8/9/10/70-73	4698-4701	Mar 1966: 215 x 165 mm: Self Interpreter: R3807-3810
8/9/10/74-75	4702-4703	Mar 1966: 215 x 165 mm: Type 2401 300 lpm Printer: R3811-3812
8/9/10/76	4704	Mar 1966: 215 x 165 mm: Type 2401 300 lpm Printer and Type 666 Printer: R3813
8/9/10/77-81	4705-4709	Mar 1966: 215 x 165 mm: Engineer's 'Test Box' for use with 1900 machines: R3822-3826

8/9/10/82-84	4710-4712	Mar 1966: 215 x 165 mm: 1972 Tape System: R3827-3829
8/9/10/85-89	4713-4717	Mar 1966: 215 x 165 mm: 666 High Speed Printer - hammer assembly boards: R3830-3834
8/9/10/90	4718	Mar 1966: 215 x 165 mm: Engineer's 'Test Box' for use with 1900 machines: R3835
8/9/10/91	4719	Mar 1966: 215 x 165 mm: Engineer's 'Test Box' for use with 1900 machines: R3837
8/9/10/92-96	4720-4724	Mar 1966: 215 x 165 mm: Optical Print Quality Monitor: R3839-3843
8/9/10/97-99	4725-4727	Mar 1966: 215 x 165 mm: Self Interpreter: R3845-3847
8/9/10/100-127	4728-4755	Apr 1966: 215 x 165 mm: UNIVAC 1500 - 80 A.K.P.: R3857-3884
8/9/10/128	4756	Apr 1966: 215 x 165 mm: OZALID machine E.P. 20/30: R3885
8/9/10/129-135	4757-4763	Apr 1966: 215 x 165 mm: Optical Print Quality Monitor: R3886-3892
8/9/10/136-145	4764-4773	Apr 1966: 215 x 165 mm: Magnetic Tally Roll Reader: R3893-3902
8/9/10/146-152	4774-4778	May 1966: 215 x 165 mm: Engraved Fluid Logic Elements: R3903-3907
8/9/10/153	4779	May 1966: 215 x 165 mm: Amount Encoders E1, E2, E3 for G.P.O. Giro system: R3910
8/9/10/154	4780	May 1966: 215 x 165 mm: Amount Encoder E1 for G.P.O. Giro system: R3911
8/9/10/155	4781	May 1966: 215 x 165 mm: Amount Encoder E2 for G.P.O. Giro system: R3912
8/9/10/156	4782	May 1966: 215 x 165 mm: Amount Encoder E3 for G.P.O. Giro system: R3913

8/9/10/157- 169	4783-4795	May 1966: 215 x 165 mm: Magnetic Tally Roll Reader - completed alterations: R3914-3926
8/9/10/170- 171	4796-4797	May 1966: 215 x 165 mm: P.F. 207 High Speed Card Reader: R3928-3929
8/9/10/172- 181	4798-4807	Jun 1966: 215 x 165 mm: Type 596 On Demand Card Reader - Power Supply Unit: R3930-3939
8/9/10/182- 186	4808-4812	Jun 1966: 215 x 165 mm: Type 68 80 col Punch: R3940-3944
8/9/10/187- 193	4813-4819	Jun 1966: 215 x 165 mm: P.F. 219 Card Reader - Feeding & Reading Test Equipment: R3945-3951
8/9/10/194- 197	4820-4823	Jun 1966: 215 x 165 mm: Mains Interference Monitor T.E. 69: R3952-3955
8/9/10/198- 200	4824-4826	Jun 1966: 215 x 165 mm: Processor Dynamic Interface Tester T.E. 56: R3956-3958
8/9/10/201- 202	4827-4828	Jul 1966: 215 x 165 mm: Terminator Unit 2801/1 for Disc File: R3964- 3965
8/9/10/203- 208	4829-4835	Jul 1966: 215 x 165 mm: P.F. 238/1 Card Reader: R3966-3971
8/9/10/209- 214	4836-4841	Jul 1966: 215 x 165 mm: T.E. 70 Power Supply Test Equipment Mk II: R3972-3977
8/9/10/215- 217	4842-4844	Jul 1966: 215 x 165 mm: P.F. 400 Reader Punch: R3978-3980
8/9/10/218- 222	4845-4849	Aug 1966: 215 x 165 mm: Universal Document Transport: R3981-3985
8/9/10/223- 244	4850-4871	Aug 1966: 215 x 165 mm: Tape Systems in 5/6 Factory: R3986-4007
8/9/10/245- 257	4872-4884	Aug 1966: 215 x 165 mm: Power Packs photographed at Falk Factory, Letchworth: R4008-4020
8/9/10/258-	4885-4891	Sep 1966: 215 x 165 mm: U.D.F.

264		Type 1980 - part assembled: R4025-4031
8/9/10/265-267	4892-4894	Sep 1966: 215 x 165 mm: Font for Reproduction: R4032-4034
8/9/10/268-271	4895-4898	Sep 1966: 215 x 165 mm: P.F. 207 Card Reader: R4035-4038
8/9/11	1966 Oct-67 Jul	Nos 4063 - 4547
8/9/11/1-2	4899-4900	Oct 1966: 215 x 165 mm: Prototype 1028 m/c - Replacement for 1020/1021 Verifier equipment: R4063-4064
8/9/11/3-10	4901-4908	Oct 1966: 215 x 165 mm: P.F. 246 - 1004 Switching Unit: R4065-4072
8/9/11/11-15	4909-4913	Oct 1966: 215 x 165 mm: Universal Document Transport: R4073-4077
8/9/11/16-37	4914-4935	Oct 1966: 215 x 165 mm: Power Supplies for 1902 & 1903 machines: R4098-4119
8/9/11/38-43	4936-4941	Oct 1966: 215 x 165 mm: Universal Document Transport - with camera: R4120-4125
8/9/11/44-50	4942-4948	Oct 1966: 215 x 165 mm: P.F. 207 Type 201 Card Reader: R4126-4132
8/9/11/51-52	4949-4950	Nov 1966: 215 x 165 mm: Infra-Red Print Quality Monitor: R4133-4134
8/9/11/53-54	4951-4952	Nov 1966: 215 x 165 mm: Tape Cassette - to show the formation, 240 ft in cassette, Tape Type 951: R4135-4136
8/9/11/55-58	4953-4956	Nov 1966: 215 x 165 mm: 40 col Card Reader Type 2103 - Early assembly stages: R4138-4141
8/9/11/59	4957	Nov 1966: 215 x 165 mm: Tape Cassette - to show the formation, 240 ft in cassette, Tape Type 951: R4147

8/9/11/60-61	4958-4959	Nov 1966: 215 x 165 mm: 40 col Card Reader Type 2103 - Further assembly stages: R4148-4149
8/9/11/62	4960	Nov 1966: 215 x 165 mm: Fluid Logic Elements: R4151
8/9/11/63-67	4961-4965	Nov 1966: 215 x 165 mm: P.F. 207 Card Reader: R4152-4156
8/9/11/68-72	4966-4970	Nov 1966: 215 x 165 mm: Integrated Circuit Production: R4157-4161
8/9/11/73-75	4971-4973	Nov 1966: 215 x 165 mm: Universal Document Transport machine: R4162- 4164
8/9/11/76-83	4974-4981	Dec 1966: 215 x 165 mm: P.F. 275 1004 Standard Interface Switching Unit - 1900 Series - *8 photos*: R4162A-4169*
8/9/11/84-86	4982-4984	Dec 1966: 215 x 165 mm: Disc Recording Heads (Metrology 5/5): R4170-4172
8/9/11/87-89	4985-4987	Dec 1966: 215 x 165 mm: Reworked Belex Power Supply Soak Tester: R4175-4177
8/9/11/90-92	4988-4990	Dec 1966: 215 x 165 mm: Power Supply Fixed Pulsed Load Test Equipment: R4178-4180
8/9/11/93- 102	4991-5000	Dec 1966: 215 x 165 mm: 9440 Disc Drive (Control Data Corporation): R4181-4190
8/9/11/103- 105	5001-5003	Dec 1966: 215 x 165 mm: 1925/8 Paper Tape Punch: R4192-4194
8/9/11/106- 110	5004-5008	Dec 1966: 215 x 165 mm: P.F. 501 Paper Tape Reader Punch: R4195- 4199
8/9/11/111	5009	Dec 1966: 215 x 165 mm: Universal Document Transport - Read Head Lampholder: R4204
8/9/11/112- 115	5010-5012	Jan 1967: 215 x 165 mm: P.F. 400 Paper Tape Reader Punch: R4211-

4214

8/9/11/116- 119	5013-5016	Jan 1967: 215 x 165 mm: T.E. 77 Bi-Directional Loop Tester: R4222- 4225
8/9/11/120- 122	5017-5019	Jan 1967: 215 x 165 mm: T.E. 27 Data Terminal Interface Test Unit: R4226-4228
8/9/11/123- 125	5020-50222	Jan 1967: 215 x 165 mm: T.E. 78 Data Terminal Interface - Twin Static Test Unit: R4229-4231
8/9/11/126- 128	5023-5025	Jan 1967: 215 x 165 mm: P.F. 207 Card Reader - Card feed area: R4232-4234
8/9/11/129- 134	5026-5031	Jan 1967: 215 x 165 mm: T.E.39 Clutch and Brake Test Equipment: R4235-4240
8/9/11/135- 136	5032-5033	Jan 1967: 215 x 165 mm: P.F. 222 40 col Card Reader: R4241-4242
8/9/11/137- 138	5034-5035	Jan 1967: 215 x 165 mm: 40 col Interpreter (Green Lees) Large Wheels: R4253-4254
8/9/11/139	5036	Jan 1967: 215 x 165 mm: 80 col E.U.A.K.P. Series 2: R4255
8/9/11/140- 141	5037-5038	Jan 1967: 215 x 165 mm: Universal Document Transport - Vacuum Pump: R4256-4257
8/9/11/142	5039	Jan 1967: 215 x 165 mm: Universal Document Transport - Read Unit: R4258
8/9/11/143	5040	Jan 1967: 215 x 165 mm: Universal Document Transport - Hinged End Cover: R4259
8/9/11/144	5041	Jan 1967: 215 x 165 mm: Universal Document Transport - Control Panel: R4260
8/9/11/145- 150	5042-5047	Feb 1977: 215 x 165 mm: Continuous Stationery Encoder for Roffs Print Ltd: R4271-4276

8/9/11/151	5048	Feb 1977: 215 x 165 mm: Section of Multi-Layer P.C.B. taken through Zeiss Microscope in Metrology Labs: R4279
8/9/11/152-154	5049-5051	Feb 1977: 215 x 165 mm: Transformer Logic - Tape to Card Type 1071/1 8-channel tape: R4286-4288
8/9/11/155-169	5052-5066	Mar 1967: 215 x 165 mm: Continuous Stationery Encoder for Roffs Print Ltd - Encoder units: R4297-4311
8/9/11/170-175	5067-5072	Mar 1967: 215 x 165 mm: P.F. 999 Cheque Sorter - Power Supply: R4314-4319
8/9/11/176-179	5073-5076	Mar 1967: 215 x 165 mm: Universal Document Transport Machine Type 8101: R4334-4337
8/9/11/180-187	5077-5084	Mar 1967: 215 x 165 mm: P.F. 207 Card Reader - Dust Extraction Unit: R4343-4350
8/9/11/188-198	5085-5095	Apr 1967: 215 x 165 mm: UNIVAC Check Sorter 8500: R4351-4361
8/9/11/199	5096	Apr 1967: 215 x 165 mm: Fluid Logic Element - showing dirty area: R4362
8/9/11/200	5097	Apr 1967: 215 x 165 mm: Universal Document Transport Machine Type 8101 - Document Separator Unit: R4381
8/9/11/201-205	5098-5102	Apr 1967: 215 x 165 mm: P.F. 50 Central Processor -Successor to 1902, 1903, 1904: R4395-4399
8/9/11/206	5103	May 1967: 215 x 165 mm: Hand-Wired Version of 6179 Quadruple Dilic Board: R4413
8/9/11/207-212	5104-5109	May 1967: 215 x 165 mm: Continuous Stationery Encoder for Roffs Print Ltd - with covers: R4414-4419
8/9/11/213-	5110-5113	May 1967: 215 x 165 mm: Equipment

216		for Producing Integrated Circuits: R4420-4423
8/9/11/217- 219	5114-5116	May 1967: 215 x 165 mm: Keyboard Navcon Model 1050N: R4427-4429
8/9/11/220	5117	May 1967: 215 x 165 mm: 80 col Card Punch & Verifier - Type 066 with card program: R4430
8/9/11/221- 222	5118-5119	May 1967: 215 x 165 mm: 80 col Card Punch & Verifier - Type 166 with card program: R4431-4432
8/9/11/223- 238	5120-5135	Jun 1967: 215 x 165 mm: How to Splice Format Tape on High Speed Printers: R4433-4448
8/9/11/239	5136	Jun 1967: 215 x 165 mm: Mark Reader Type 8301 as fitted to Universal Document Transport Type 8101: R4454
8/9/11/240- 246	5137-5143	Jun 1967: 215 x 165 mm: P.F. 222 Type 2103 40 col Card Reader: R4460-4466
8/9/11/247- 249	5144-5146	Jun 1967: 215 x 165 mm: P.F. 207 Card Reader - New Door to card feed area: R4478-4480
8/9/11/250- 258	5147-5155	Jun 1967: 215 x 165 mm: Type 131 Auto-Verifier: R4481-4489
8/9/11/259	5156	Jun 1967: 215 x 165 mm: Wiring of Planes - Nylon-covered - Colour Natural 28 s.w.g.: R4490
8/9/11/260	5157	Jun 1967: 215 x 165 mm: Wiring of Planes - Nylon-covered - Colour Yellow/Black: R4491
8/9/11/261	5158	Jun 1967: 215 x 165 mm: Wiring of Planes - Nylon-covered - Colour Natural 28 s.w.g.: R4517
8/9/11/262	5159	Jun 1967: 215 x 165 mm: Wiring of Planes - Nylon-covered - Colour Black/Yellow 25 s.w.g: R4518
8/9/11/263-	5160-5161	Jul 1967: 215 x 165 mm: P.F. 207

264		Card Reader - Card Fluff and Dust: R4519-4520
8/9/11/265- 266	5162-5163	Jul 1967: 215 x 165 mm: P.F. 207 Card Reader - Drive Magnet Production Model: R4521-4522
8/9/11/267- 271	5164-5178	Jul 1967: 215 x 165 mm: Printing Punch for British Shoe Corporation 80/160 col: R4523-4537
8/9/11/272- 281	5179-5188	Jul 1967: 215 x 165 mm: 40 col Plastic Card Punch: R4538-4547
8/9/12	1967 Jul-68 Apr	Nos 4551 - 5098
8/9/12/1	5189	Jul 1967: 215 x 165 mm: Type 1028 Paper Tape Verifier: R4551
8/9/12/2-3	5190-5191	Jul 1967: 215 x 165 mm: High Speed Printer Type 666 - Paper Tractor Unit: R4563-4564
8/9/12/4-9	5192-5197	Jul 1967: 215 x 165 mm: Hammer Flight and Density Test Unit: R4565-4570
8/9/12/10	5198	Jul 1967: 215 x 165 mm: 21 col A.K.P. Feed Roll Guard: R4571
8/9/12/11-17	5199-5205	Jul 1967: 215 x 165 mm: Type 144 40 col Auto-Verifier: R4572-4578
8/9/12/18-23	5206-5211	Jul 1967: 215 x 165 mm: 40 col Interpreter Type 442: R4579-4584
8/9/12/24	5212	Jul 1967: 215 x 165 mm: 80 col Interpreter: R4585
8/9/12/25-27	5213-5215	Aug 1967: 215 x 165 mm: Type 1 66/3 Punch with Check Digit Feature: R4590-4592
8/9/12/28	5216	Aug 1967: 215 x 165 mm: P.F. 254 Type 066 Punch - Modified card carrier: R4598
8/9/12/29	5217	Aug 1967: 215 x 165 mm: P.F. 254 Type 066 Punch - Mechanism side- plate with reed switch: R4599

8/9/12/30	5218	Aug 1967: 215 x 165 mm: P.F. 254 Type 066 Punch - Mechanism side-plate without reed switch: R4600
8/9/12/31-36	5219-5224	Aug 1967: 215 x 165 mm: Datek Tape Reader: R4602-4607
8/9/12/37-41	5225-5229	Aug 1967: 215 x 165 mm: High Speed Printer Type 666 - T.E. 83 - Hammer Flight & Density Test Equipment: R4608-4612
8/9/12/42-51	5230-5239	Aug 1967: 215 x 165 mm: British Shoe Corporation 80/160 col Printer Punch: R4613-4622
8/9/12/52	5240	Aug 1967: 215 x 165 mm: British Shoe Corporation Plastic Card Punch: R4623
8/9/12/53	5241	Aug 1967: 215 x 165 mm: British Shoe Corporation Plastic Card Punch and Printer Punch: R4624
8/9/12/54	5242	Aug 1967: 215 x 165 mm: P.F. 254 Type 066 Punch, Alpha Keyboard: R4625
8/9/12/55-58	5243-5246	Sep 1967: 215 x 165 mm: P.F. 254 Type 066 Punch: R4634-4637
8/9/12/59-61	5247-5255	Sep 1967: 215 x 165 mm: DRICO Tape Deck Type 6 75 i.p.s. Tape Cinch: R4638-4640
8/9/12/62-64	5256-5258	Sep 1967: 215 x 165 mm: Universal Document Transport machine with camera: R4642-4644
8/9/12/65-67	5259-5261	Sep 1967: 215 x 165 mm: P.F. Logic using C.S.B. Plan Construction: R4645-4647
8/9/12/68-69	5262-5263	Oct 1967: 215 x 165 mm: P.F. 254 Type 066 Punch - Restyled Alpha Keyboard: R4648-4649
8/9/12/70-71	5264-5265	Oct 1967: 215 x 165 mm: P.F. 311 600 cpm Card Reader: R4650-4651

8/9/12/72-74	5266-5268	Oct 1967: 215 x 165 mm: P.F. 207 Card Reader: R4652-4654
8/9/12/75-78	5269-5282	Oct 1967: 215 x 165 mm: T.E. 86 Desk Assembly: R4655-4668
8/9/12/79-81	5283-5285	Oct 1967: 215 x 165 mm: Type 64 E.U.A.K.P./Imperial Typewriter: R4678-4680
8/9/12/82-85	5286-5289	Oct 1967: 215 x 165 mm: P.F. 284 Magnetic Tape - Engineer's Panel: R4686-4689
8/9/12/86-87	5290-5291	Oct 1967: 215 x 165 mm: High Speed Printer - Stepping Motor and Particle Clutch: R4697-4698
8/9/12/88-95	5292-5299	Oct 1967: 215 x 165 mm: T.E. 85 Dilic Functional Test Equipment: R4699-4706
8/9/12/96-98	5300-5302	Nov 1967: 215 x 165 mm: P.F. 279 Mini Disc Storage Cabinet: R4709- 4711
8/9/12/99- 101	5303-5305	Nov 1967: 215 x 165 mm: DRICO Tape Deck Type 6 after RCA Tape Test: R4712-4714
8/9/12/102- 103	5306-5307	Nov 1967: 215 x 165 mm: Initial Reset PC Board 6041: R4715-4716
8/9/12/104- 112	5308-5316	Nov 1967: 215 x 165 mm: Type 1071/1 Tape to Card Converter for BME Berlin: R4717-4725
8/9/12/113- 117	5317-5321	Nov 1967: 215 x 165 mm: Type 1071/1 Tape to Card Converter: R4732-4736
8/9/12/118	5322	Dec 1967: 215 x 165 mm: Type 7071 Teletypewriter: R4752
8/9/12/119	5323	Dec 1967: 215 x 165 mm: Type 2042 Line Printer: R4753
8/9/12/120- 128	5324-5332	Dec 1967: 215 x 165 mm: T.E. 86 Dilic AC Test Equipment: R4754- 4762

8/9/12/129	5333	Dec 1967: 215 x 165 mm: As 4752 but with chip-tray and different switch: R4763
8/9/12/130- 147	5334-5351	Dec 1967: 215 x 165 mm: P.F. 279 Line Printer, Central Processor, and 80 col Card Reader: R4772-4789
8/9/12/148- 151	5352-5355	Jan 1968: 215 x 165 mm: P.F. 207 Card Reader - Dust on machine and filter: R4790-4793
8/9/12/152	5356	Jan 1968: 215 x 165 mm: Universal Document Transport - Mark Reader Head: R4794
8/9/12/153- 160	5357-5364	Jan 1968: 215 x 165 mm: P.F. 279 Central Processor: R4795-4802
8/9/12/161- 169	5365-5373	Jan 1968: 215 x 165 mm: Format Tape Loop Splicing Procedure: R4804-4812
8/9/12/170- 173	5374-5377	Jan 1968: 215 x 165 mm: P.F. 189 Universal Document Transport: R4813-4816
8/9/12/174- 180	5378-5384	Jan 1968: 215 x 165 mm: P.F. 279 Disc Drive: R4832-4838
8/9/12/181- 184	5385-5388	Jan 1968: 215 x 165 mm: P.F. 279 80 col Card Reader: R4839-4842
8/9/12/185- 194	5389-5398	Jan 1968: 215 x 165 mm: Integrated Circuit Boards and Substrates: R4848-4857
8/9/12/195- 201	5399-5405	Jan 1968: 215 x 165 mm: Type 1028 Paper Tape Verifier Mk 2 - Mock-up machine: R4858-4864
8/9/12/202- 205	5406-5409	Feb 1968: 215 x 165 mm: Fluid Logic Components: R4891-4894
8/9/12/206- 209	5410-5413	Feb 1968: 215 x 165 mm: P.F. 59 Showing Wiring of Planes: R4899- 4902
8/9/12/210- 211	5414-5415	Feb 1968: 215 x 165 mm: Photocell Camera: R4903-4904

8/9/12/212- 214	5416-5418	Feb 1968: 215 x 165 mm: Cannon Connectors 79-way: R4907-4909
8/9/12/215- 223	5419-5427	Feb 1968: 215 x 165 mm: Optical Store *9 Photos*: R4910A-4916*
8/9/12/224- 227	5428-5431	Feb 1968: 215 x 165 mm: T.E. 90 Power Supply Mk III: R4930-4933
8/9/12/228- 233	5432-5437	Feb 1968: 215 x 165 mm: D I T M C O Connection Rig: R4934-4939
8/9/12/234	5438	Feb 1968: 215 x 165 mm: Fluid Logic Board: R4941
8/9/12/235- 245	5439-5449	Feb 1968: 215 x 165 mm: T.E. 84 Macro-Board Test Equipment: R4948- 4958
8/9/12/246- 247	5450-5451	Mar 1968: 215 x 165 mm: DRICO Magnetic Recording Heads: R4964- 4965
8/9/12/248	5452	Mar 1968: 215 x 165 mm: 17 Pole 10 Position Rotary Switch Test Equipment 83: R4983
8/9/12/249	5453	Mar 1968: 215 x 165 mm: Plessey Self Tester Circuit Board: R4984
8/9/12/250- 265	5454-5469	Mar 1968: 215 x 165 mm: Type 1027 - 1028 & Datek Punch: R4994-5009
8/9/12/266- 267	5470-5471	Mar 1968: 215 x 165 mm: High Speed & Low Speed Disc Stacker: R5030- 5031
8/9/12/268- 270	5472-5474	Mar 1968: 215 x 165 mm: Type 066 Punch Pin Sensing Unit: R5036-5038
8/9/12/271- 279	5475-5483	Mar 1968: 215 x 165 mm: DRICO Power Supply Unit P.F. 3371: R5042-5050
8/9/12/280- 283	5484-5487	Mar 1968: 215 x 165 mm: P.F. 207 High Speed Card Reader: R5051-5054
8/9/12/284	5488	Mar 1968: 215 x 165 mm: P.F. 502/0 Power Supply: R5056
8/9/12/285-	5489-5496	Apr 1968: 215 x 165 mm: T.E. 84

292		Adapter Boards: R5057-5064
8/9/12/293- 295	5497-5499	Apr 1968: 215 x 165 mm: P.F. 207 High Speed Card Reader: R5065-5067
8/9/12/296- 298	5500-5502	Apr 1968: 215 x 165 mm: T.E. 97 6223 Threshold Calibrator: R5068- 5070
8/9/12/299	5503	May 1968: 215 x 165 mm: Type 1971 Tape System - Read/Write Head Connector: R5074
8/9/12/300- 302	5504-5506	Apr 1968: 215 x 165 mm: Type 1028 Tape Punch Verifier: R5087-5089
8/9/12/303- 311	5507-5515	Apr 1968: 215 x 165 mm: P.F. 311 600 cpm Card Reader: R5090-5098
8/9/13	1968 Apr-68 Jun	Nos 5108 - 5448
8/9/13/1-3	5516-5518	Apr 1968: 215 x 165 mm: 1027/1928 Paper Tape Punch - mock-up keyboard: R5108-5110
8/9/13/4-8	5519-5523	Apr 1968: 215 x 165 mm: R.C.A. p Fibre Optics Test Rig and 4 results at various settings: R5115-5119
8/9/13/9-11	5524-5526	Apr 1968: 215 x 165 mm: P.F. 207 High Speed Card Reader - Noise- reduced machine: R5120-5122
8/9/13/12	5527	Apr 1968: 215 x 165 mm: P.F. 207 High Speed Card Reader - Brass card face before plating: R5123
8/9/13/13	5528	Apr 1968: 215 x 165 mm: P.F. 207 High Speed Card Reader - Test Gear Control Panel: R5124
8/9/13/14-37	5529-5552	Apr 1968: 215 x 165 mm: P.F. 207 High Speed Card Reader - Type 2101 1200 cpm P.A.T. m/c: R5125-5148
8/9/13/38-58	5553-5573	Apr 1968: 215 x 165 mm: Type 1971/2 D.R.I.C.O. 4-Deck Cluster - Assemblies: R5152-5172

8/9/13/59-65	5574-5578	May 1968: 215 x 165 mm: Type 2401 Printer - Tray 1036 Mk. 1 Hammer: R5182-5186
8/9/13/66-67	5579-5580	May 1968: 215 x 165 mm: Integrated Circuits: R5195-5196
8/9/13/68-86	5581-5599	May 1968: 215 x 165 mm: Type 1971/2 D.R.I.C.O. 4-Deck Cluster - Assemblies: R5197-5215
8/9/13/87- 114	5600-5617	May 1968: 215 x 165 mm: Type 1971/2 D.R.I.C.O. 4-Deck Cluster - Assemblies: R5217-5244
8/9/13/115- 125	5618-5628	May 1968: 215 x 165 mm: Splicing Procedure for 12-channel Paper Tape - Format control: R5247-5257
8/9/13/126- 158	5629-5661	May 1968: 215 x 165 mm: Type 1971/2 D.R.I.C.O. 4-Deck Cluster: R5258-5290
8/9/13/159- 168	5662-5673	May 1968: 215 x 165 mm: Test Equipment T.E. 94 P.S. P.C.B.: R5312-5323
8/9/13/169- 174	5674-5679	May 1968: 215 x 165 mm: T.E. 57 C.C.I.T.T. Interface Test Equipment - Power Supply Unit: R5324-5329
8/9/13/175- 177	5680-5682	May 1968: 215 x 165 mm: T.E. 9 Test Equipment: R5330-5332
8/9/13/178- 179	5683-5684	May 1968: 215 x 165 mm: T.E. 94 P.S. P.C.B. Test Equipment: R5338- 5339
8/9/13/180- 185	5685-5690	May 1968: 215 x 165 mm: T.E. 76 Core Store Test Equipment: R5340- 5345
8/9/13/186- 206	5691-5711	May 1968: 215 x 165 mm: Type 1920/2 80 col Punch: R5346-5366
8/9/13/207- 249	5712-5754	May 1968: 215 x 165 mm: Type 1920/2 80 col Punch: R5367-5409
8/9/13/250- 251	5755-5756	May 1968: 215 x 165 mm: P.F. 207 High Speed Card Reader - P.A.T.

		m/c 9k x 25 Card Passes: R5411-5412
8/9/13/252-256	5757-5761	May 1968: 215 x 165 mm: P.F. 254 80 col Card Punch Type 071 - Card Track Mechanism: R5415-5419
8/9/13/257	5762	Jun 1968: 215 x 165 mm: P.F. 284 Tape Deck/2505 - DRICO Type 6: R5422
8/9/13/258-259	5763-5764	Jun 1968: 215 x 165 mm: Welch Allyn Fibre Optic Converter and Bulb: R5424-5425
8/9/13/260-268	5765-5773	Jun 1968: 215 x 165 mm: 80/160 col British Shoe Corp Printing Punch - Assembly Stage: R5433-5441
8/9/13/269-273	5774-5778	Jun 1968: 215 x 165 mm: P.F. 284 Power Supply - C.V.T. Cabinet: R5443-5447
8/9/13/274-277	5779-5782	Jun 1968: 215 x 165 mm: Punch Clutch Magnetizer Unit: R5448-5451
8/9/14	1968 Jun-68 Aug	Nos 5462 - 5824
8/9/14/1	5783	Jun 1968: 215 x 165 mm: P.F. 254 Type 071 Punch - Motor Drive Unit: R5452
8/9/14/2-5	5784-5787	Jun 1968: 215 x 165 mm: Universal Document Transport - Videcon Camera Machine: R5462-5465
8/9/14/6-11	5788-5793	Jun 1968: 215 x 165 mm: Triple Card Guide: R5466-5471
8/9/14/12-13	5794-5795	Jul 1968: 215 x 165 mm: High Density Recording Disc Machine: R5475-5476
8/9/14/14	5796	Jul 1968: 215 x 165 mm: P.F. 207 Card Reader - Picker Motor Terminal Box: R5477
8/9/14/15	5797	Jul 1968: 215 x 165 mm: High Speed Printer - Stepping Motor Damper: R5479

8/9/14/16-27	5798-5811	Jul 1968: 215 x 165 mm: 80/160 col British Shoe Corporation Printing Punch: R5505-5516
8/9/14/28-38	5812-5822	Jul 1968: 215 x 165 mm: Type 2802 Disc Drive Heads: R5528-5538
8/9/14/39- 114	5823-5898	Jul 1968: 215 x 165 mm: 1901A Computer - Disc Drive & 80 col Card Reader: R5547-5622
8/9/14/112	5899	Aug 1968: 215 x 165 mm: P.C. Boards: R5623
8/9/14/116- 121	5900-5905	Aug 1968: 215 x 165 mm: Type 1028 Paper Tape Punch / Verifier: R5631-5636
8/9/14/122- 126	5906-5910	Aug 1968: 215 x 165 mm: Types of Component Packaging: R5637-5641
8/9/14/127- 130	5911-5914	Aug 1968: 215 x 165 mm: Recording Heads: R5642-5645
8/9/14/131- 135	5915-5919	Aug 1968: 215 x 165 mm: P.F. 352 (Re-Styled 1933) Stacker: R5654- 5658
8/9/14/136- 219	5920-6003	Aug 1968: 215 x 165 mm: 1901A Computer - Line Printer & Central Processor: R5666-5749
8/9/14/220- 221	6004-6005	Aug 1968: 215 x 165 mm: High Speed Printer - Stepping Motor Damper: R5750-5751
8/9/14/222- 226	6006-6010	Aug 1968: 215 x 165 mm: High Speed Printer - Showing assembly of Cell Housing Unit for Format Tape : R5752-5756
8/9/14/227- 291	6011-6075	Aug 1968: 215 x 165 mm: 1901A Computer - Central Processor & Line Printer: R5760-5824
8/9/15	1968 Aug-69 Apr	Nos 5839 - 6553
8/9/15/1-35	6076-7010	Aug 1968: 215 x 165 mm: 1901A Computer - Power Supplies: R5839- 5873

8/9/15/36-46	7011-7021	Aug 1968: 215 x 165 mm: English Electric/Elliott 80 col Card Reader Mechanism: R5874-5884
8/9/15/47	7022	Aug 1968: 215 x 165 mm: Type 64 80 col Card Punch - Modified for typewriter link-up for Martins Bank: R5894
8/9/15/48-58	7023-7033	Aug 1968: 215 x 165 mm: 80/160 col British Shoe Corporation Printer Punch: R5895-5905
8/9/15/59-61	7034-7036	Aug 1968: 215 x 165 mm: Type 67 80 col Punch - Typewriter link-up: R5906-5908
8/9/15/62-75	7037-7050	Sep 1968: 215 x 165 mm: English Electric Series IV - Paper Tape Punch Verifier: R5911-5924
8/9/15/76	7051	Sep 1968: 215 x 165 mm: 7022 Printer - Acoustic head: R5925
8/9/15/77	7052	Sep 1968: 215 x 165 mm: P.F. 207 High Speed Card Reader - Cell block assembly: R5926
8/9/15/78-152	7053-7127	Sep 1968: 215 x 165 mm: 1901A Computer - Power Supplies and Planes: R5927-6001
8/9/15/153-154	7128-7129	Sep 1968: 215 x 165 mm: Silver migration on Dilics: R6003-6004
8/9/15/155-159	7130-7134	Oct 1968: 215 x 165 mm: 80 col Dual Hand Card Reader (for Geo. W. King, Stevenage). Triax Storage for Spain: R6048-6052
8/9/15/160-169	7135-7144	Oct 1968: 215 x 165 mm: 80/160 col British Shoe Corporation Printer Punch: R6053-6062
8/9/15/170	7145	Oct 1968: 215 x 165 mm: Line Printer - Alignment of pinwheel for paper tape format control: R6081
8/9/15/171-172	7146-7147	Oct 1968: 215 x 165 mm: 80/160 col British Shoe Corporation Printer

		Punch: R6082-6083
8/9/15/173- 185	7148-7160	Nov 1968: 215 x 165 mm: Type 1027/1028 Paper Tape Punch/Verifier: R6114-6126
8/9/15/186- 197	7161-7172	Nov 1968: 215 x 165 mm: 80/160 col British Shoe Corporation Printer Punch: R6154-6165
8/9/15/198- 200	7173-7175	Nov 1968: 215 x 165 mm: Universal Document Transport - Videcon Camera: R6180-6182
8/9/15/201- 202	7176-7177	Dec 1968: 215 x 165 mm: Line Printer - Noise reducing covers: R6215-6216
8/9/15/203	7178	Dec 1968: 215 x 165 mm: Card Preparation Equipment - Spacing Mechanism: R6225
8/9/15/204	7179	Dec 1968: 215 x 165 mm: Card Preparation Equipment - Print Unit Visual Display: R6226
8/9/15/205	7180	Dec 1968: 215 x 165 mm: Card Preparation Equipment: R6227
8/9/15/206	7181	Dec 1968: 215 x 165 mm: Card Preparation Equipment - High Speed Stacker: R6228
8/9/15/207	7182	Dec 1968: 215 x 165 mm: Card Preparation Equipment - Serial Printer: R6229
8/9/15/208- 214	7183-7189	Dec 1968: 215 x 165 mm: P.F. 504 Data Terminal: R6231-6237
8/9/15/215	7190	Jan 1969: 215 x 165 mm: Photographs of Type V Recording Heads - Head no 1142 before cleaning after 20,000 passes: R6269
8/9/15/216	7199	Jan 1969: 215 x 165 mm: Photographs of Type V Recording Heads - Head no 1142 after cleaning after 20,000 passes: R6270

8/9/15/217	7200	Jan 1969: 215 x 165 mm: Photographs of Type V Recording Heads: R6271
8/9/15/218	7201	Jan 1969: 215 x 165 mm: Photographs of Type V Recording Heads: R6272
8/9/15/219	7202	Jan 1969: 215 x 165 mm: Type V Recording Head, Tape no 174726: R6273
8/9/15/220	7203	Jan 1969: 215 x 165 mm: Type V Recording Head, Tape no 094139: R6274
8/9/15/221	7204	Jan 1969: 215 x 165 mm: Type V Recording Head no 1269 after a further 20,000 passes: R6275
8/9/15/222	7205	Jan 1969: 215 x 165 mm: Type V Recording Head no 1142 after a further 20,000 passes: R6276
8/9/15/223	7206	Jan 1969: 215 x 165 mm: Type V Recording Head, Tape no 174726: R6277
8/9/15/224	7207	Jan 1969: 215 x 165 mm: Type V Recording Head, Tape no 094139: R6279
8/9/15/225- 227	7208-7210	Jan 1969: 215 x 165 mm: High Density Recording Machine - Hover pad: R6281-6283
8/9/15/228- 233	7211-7216	Jan 1969: 215 x 165 mm: P.F. 316 Document Transport: R6284-6289
8/9/15/234- 237	7217-7220	Jan 1969: 215 x 165 mm: Photographs of POTTER K.D.R. (ICL 90 M.T.D.R.): R6301-6304
8/9/15/238- 241	7221-7224	Jan 1969: 215 x 165 mm: Line Printer - Hammer Drive Board: R6307-6310
8/9/15/242- 243	7225-7226	Jan 1969: 215 x 165 mm: P.F. 207 High Speed Card Reader - Clean Air Ducting: R6319-6320

8/9/15/244- 246	7227-7229	Jan 1969: 215 x 165 mm: Elliott 80 col Card Reader: R6321-6323
8/9/15/247	7230	Jan 1969: 215 x 165 mm: ICL 90 M.T.D.R. (Potter Key Data Recorder): R6324
8/9/15/248	7231	Jan 1969: 215 x 165 mm: P.F. 207 High Speed Card Reader - Clean Air Ducting: R6327
8/9/15/249- 259	7232-7242	Feb 1969: 215 x 165 mm: Printer Clutch & Brake T.E. 39: R6341-6351
8/9/15/260- 263	7243-7246	Feb 1969: 215 x 165 mm: P.F. 207 High Speed Card Reader: R6352-6355
8/9/15/264- 265	7247-7248	Feb 1969: 215 x 165 mm: Copy Photos of Memorex Disc Drive: R6356-6357
8/9/15/266- 268	7249-7251	Feb 1969: 215 x 165 mm: P.F. 207 High Speed Card Reader - Wreck in Stacker: R6408-6410
8/9/15/269	7252	Feb 1969: 215 x 165 mm: Interactive Visual Display Unit: R6424
8/9/15/270- 271	7253-7254	Mar 1969: 215 x 165 mm: Type 072 80 col Printing Punch with covers and print unit: R6474-6475
8/9/15/272- 273	7255-7256	Mar 1969: 215 x 165 mm: Double Macro-Board no 6314 for Lecture Purposes: R6476-6477
8/9/15/274	7257	Mar 1969: 215 x 165 mm: Polaroid photograph of a 'chip': R6479
8/9/15/275- 276	7258-7259	Mar 1969: 215 x 165 mm: Modem Power Supply - P.C. Board: R6502- 6503
8/9/15/277- 278	7262-7263	Mar 1969: 215 x 165 mm: Potter K.D.R. (ICL 90 M.T.D.R.) - Power Supply: R6504-6505
8/9/15/279- 281	7264-7266	Mar 1969: 215 x 165 mm: A.P.F. Document Transport: R6506-6508

8/9/15/282- 286	7267-7271	Mar 1969: 215 x 165 mm: ICL 90 Matador (Potter K.D.R.): R6509- 6513
8/9/15/287- 289	7272-7274	Apr 1969: 215 x 165 mm: Fast Head Actuator: R5422-6524
8/9/15/290- 292	7275-7277	Apr 1969: 215 x 165 mm: High Density Recording Rig - Air Pipes on Head: R6525-6527
8/9/15/293- 294	7278-7279	Apr 1969: 215 x 165 mm: P.F. 207 High Speed Card Reader - Hopper Juggling: R6528-6529
8/9/15/295- 299	7280-7284	Apr 1969: 215 x 165 mm: P.F. 504 Data Terminal - Scanner Cabinet: R6545-6549
8/9/15/300- 303	7285-7288	Apr 1969: 215 x 165 mm: P.F. 504 Data Terminal - L.T.U. 2: R6550- 6553
8/9/16	1969 Apr-70	Nos 6568 - 721
	Mar	
8/9/16/1-4	6289-6292	Apr 1969: 215 x 165 mm: Test Equipment T.E. 116 P.C.B. Test Box: R6568-6571
8/9/16/5-6	6293-6294	Apr 1969: 215 x 165 mm: Wire Matrix Printer (8-channel input): R6572-6573
8/9/16/7	6295	Apr 1969: 215 x 165 mm: ICL 90 Matador: R6574
8/9/16/8-11	6296-6299	May 1969: 215 x 165 mm: T.E. 115 Paper Tape Reader Test Equipment: R6575-6578
8/9/16/12-16	6300-6304	May 1969: 215 x 165 mm: T.E. 109 C.C.I.T.T. Interface Test Equipment Mark II: R6579-6583
8/179/16/17- 24	6305-6312	May 1969: 215 x 165 mm: Paper Tape Pinwheel: R6584-6591
8/9/16/25-26	6313-6314	May 1969: 215 x 165 mm: P.F. 56 Processor X2: R6592-6593
8/9/16/27	6315	May 1969: 215 x 165 mm: R.F.T.

		Page Printer Model T63 (for 2 alphabets - Russian/Roman): R6607
8/9/16/28-33	6316-6321	Jun 1969: 215 x 165 mm: Data Preparation Equipment - Paper Tape Machine 593/3: R6618-6623
8/9/16/34	6322	Jun 1969: 215 x 165 mm: Print Density Meter: R6624
8/9/16/35	6323	Jun 1969: 215 x 165 mm: Universal Keyboard: R6625
8/9/16/36	6324	Jun 1969: 215 x 165 mm: P.F. 313/2 Paper Tape Reader - 1500 c.p.s.: R6626
8/9/16/37-39	6325-6327	Jun 1969: 215 x 165 mm: Type 1027/1028 Power Supply Unit: R6627-6629
8/9/16/40-49	6328-6337	Jun 1969: 215 x 165 mm: P.F. 3511 Low Cost Printer: R6632-6641
8/9/16/50	6338	Jul 1969: 215 x 165 mm: Type 351 Printer - Hammer Module: R6653
8/9/16/51	6339	Jul 1969: 215 x 165 mm: Type 351 Printer - Printer Mechanism: R6654
8/9/16/52-53	6340-6341	Jul 1969: 215 x 165 mm: Zeiss Optics on the Ferranti machine: R6658-6659
8/9/16/54-57	6342-6345	Jul 1969: 215 x 165 mm: 40 col Plastic Card Punch - British Shoe Corporation: R6660-6663
8/9/16/58-64	6346-6352	Jul 1969: 215 x 165 mm: 80/160 col Printing Punch - British Shoe Corporation: R6664-6670
8/9/16/65-69	6353-6357	Aug 1969: 215 x 165 mm: Type 351 Line Printer: R6676-6680
8/9/16/70-73	6358-6361	Aug 1969: 215 x 165 mm: Electron Gun: R6685-6688
8/9/16/74-75	6362-6363	Aug 1969: 215 x 165 mm: Read/Write Amplifier Boards: R6689-6690

8/9/16/76-85	6364-6373	Aug 1969: 215 x 165 mm: G.E. Terminet 300 Typewriter: R6715-6724
8/9/16/86-88	6374-6376	Aug 1969: 215 x 165 mm: Short Interface Tester (S.I.T.): R6725-6727
8/9/16/89-118	6377-6406	Sep 1969: 215 x 165 mm: G.E. Terminet 300 P.C.B.s: R6731-6760
8/9/16/119-124	6407-6412	Sep 1969: 215 x 165 mm: P.F. 519/3 Data Preparation Equipment - Paper Tape Reader/Punch: R6761-6766
8/9/16/125-132	6413-6420	Sep 1969: 215 x 165 mm: P.F. 207 High Speed Card Reader Mark II: R6767-6774
8/9/16/133	6421	Oct 1969: 215 x 165 mm: T.E. Power Supply P.C.B. Test Equipment: R6799
8/9/16/134-141	6422-6429	Oct 1969: 215 x 165 mm: Keyboard Data Recorder: R6846-6853
8/9/16/142-143	6430-6431	Oct 1969: 215 x 165 mm: Paper Feed Test Rig: R6854-6855
8/9/16/144-145	6432-6433	Oct 1969: 215 x 165 mm: Paper Form Test Rig: R6856-6857
8/9/16/146-148	6434-6436	Oct 1969: 215 x 165 mm: Wear Test Rig: R6858-6860
8/9/16/149-150	6437-6438	Oct 1969: 215 x 165 mm: Automatic Computing Enhancement: R6861-6862
8/9/16/151	6439	Oct 1969: 215 x 165 mm: Universal Keyboard: R6865
8/9/16/152-161	6440-6449	Oct 1969: 215 x 165 mm: T.E. 117 Enhanceable Core Store Test Equipment: R6866-6875
8/9/16/162-165	6450-6453	Oct 1969: 215 x 165 mm: Magnetic Particle Clutch for Line Printers: R6876-6879
8/9/16/166-169	6454-6457	Nov 1969: 215 x 165 mm: 1.5 Ms Memory Store: R6882-6885

8/9/16/170- 176	6458-6464	Nov 1969: 215 x 165 mm: 80 col Card Pattern Searching for Data Retrieval with Hand Reader Type 33/31/7: R6943-6949
8/9/16/177- 181	6465-6469	Nov 1969: 215 x 165 mm: Line Printer Clutch - Light Sensing Model: R6951-6955
8/9/16/182- 187	6470-6475	Nov 1969: 215 x 165 mm: Ferrodot Project at S.T.L. Harlow: R6961- 6966
8/9/16/188- 195	6476-6483	Dec 1969: 215 x 165 mm: ICL 71/7 (N.C.R. Link): R7020-2027
8/9/16/196- 198	6484-6486	Dec 1969: 215 x 165 mm: High Density Recording Rig: R7028-7030
8/9/16/199- 218	6487-6506	Dec 1969: 215 x 165 mm: 2500 System Tape Decks: R7033-7052
8/9/16/219- 221	6507-6509	Dec 1969: 215 x 165 mm: Fast Head Actuator - Rig: R7053-7055
8/9/16/222	6510	Dec 1969: 215 x 165 mm: Integrated Circuit: R7065
8/9/16/223	6511	Jan 1970: 215 x 165 mm: P.F. 317 O.C.R.: R7080
8/9/16/224	6512	Jan 1970: 215 x 165 mm: Pneumatic Document Transport: R7081
8/9/16/225- 226	6513-6514	Jan 1970: 215 x 165 mm: 1903A Processor: R7083-7084
8/9/16/227- 229	6515-6517	Jan 1970: 215 x 165 mm: A.P.F. 316 Air Supply Unit - P.D.T.: R7085- 7087
8/9/16/230- 233	6518-6521	Jan 1970: 215 x 165 mm: P.F. 311 80 col Card Reader: R7114-7117
8/9/16/234	6522	Jan 1970: 215 x 165 mm: Fast Core Store: R7139
8/9/16/235- 237	6523-6525	Feb 1970: 215 x 165 mm: ICL 90 Matador: R7155-7157
8/9/16/238	6526	Feb 1970: 215 x 165 mm: V.D.U.

[Showing data from Multiplan - an early in-house spreadsheet package designed and implemented by Tony Obrist]: R7158

8/9/16/239- 240	6527-6528	Mar 1970: 215 x 165 mm: Daughter Boards M.E.C.L. Logic: R7169-7170
8/9/16/241- 245	6529-6533	Mar 1970: 215 x 165 mm: ICL 90 Matador: R7175-7179
8/9/16/246- 249	6534-6537	Mar 1970: 215 x 165 mm: Automatic Computing Enhancement: R7181-7184
8/9/16/250- 252	6538-6540	Mar 1970: 215 x 165 mm: Ditmoco machine: R7185-7187
8/9/16/253- 254	6541-6542	Mar 1970: 215 x 165 mm: P.F. 50 Plane: R7188-7189
8/9/16/255- 259	6543-6547	Mar 1970: 215 x 165 mm: Back Plane Transporter: R7190-7194
8/9/16/260- 268	6548-6556	Mar 1970: 215 x 165 mm: P.F. 519 Keyboard: R7195-7203
8/9/16/269- 276	6557-6564	Mar 1970: 215 x 165 mm: Test Equipment for India: R7204-7211
8/9/17	1970 Apr-70 Nov	Nos 7224 - 7693
8/9/17/1-18	6565-6582	Apr 1970: 215 x 165 mm: A.P.F. 519/3 Paper Tape Punch/Verifier: R7224-7241
8/9/17/19-53	6583-6587	Apr 1970: 215 x 165 mm: A.P.F.999 (S.J.C.C.) APF 316 Document Transport: R7242-7276
8/9/17/54-63	6588-6597	Apr 1970: 215 x 165 mm: 519/2 80 col Card Punch: R7278-7287
8/9/17/64-70	6598-6604	Apr 1970: 215 x 165 mm: Plessey Power Supply, as used in 2802 Disc Drive: R7288-7294
8/9/17/71-72	6605-6606	Apr 1970: 215 x 165 mm: P.F. 207 Card Reader - Cell Block Assembly: R7295-7296
8/9/17/73-78	6607-6612	Apr 1970: 215 x 165 mm: 1.5 μ s

Core Store: R7297-7302

8/9/17/79	6613	Apr 1970: 215 x 165 mm: P.F. 207 Card Reader - Cell Block Assembly: R7322
8/9/17/80	6614	May 1970: 215 x 165 mm: P.F. 207 Card Reader - Cell Block Assembly: R7325
8/9/17/81-87	6615-6621	May 1970: 215 x 165 mm: Paper Transport System with Stepping Motor Drive: R7337-7343
8/9/17/88-97	6622-6631	May 1970: 215 x 165 mm: Universal Keyboard: R7344-7353
8/9/17/98	6632	May 1970: 215 x 165 mm: P.F. 207 Card Reader - Cell Block Assembly: R7354
8/9/17/99- 101	6633-6635	May 1970: 215 x 165 mm: ICL 90 Matador Keyboard: R7378-7380
8/9/17/102	6636	May 1970: 215 x 165 mm: P.F. 519 Keyboard: R7381
8/9/17/103- 106	6637-6640	Jun 1970: 215 x 165 mm: T.E. 113 Mains Interference Generator: R7384-7387
8/9/17/107- 122	6641-6656	Jul 1970: 215 x 165 mm: 80/40 col Reproducer: R7399-7414
8/9/17/123- 134	6657-6668	Jul 1970: 215 x 165 mm: Highway Assemblies: R7415-7426
8/9/17/135- 138	6669-6672	Jul 1970: 215 x 165 mm: A.P.F. 316 Pneumatic Document Transport: R7427-7430
8/9/17/139- 144	6673-6678	Aug 1970: 215 x 165 mm: Dual E.D.S. Deck Unit at DRICO, Staines: R7435-7440
8/9/17/145- 146	6679-6680	Aug 1970: 215 x 165 mm: Univac 1710 80 col Card Punch/Verifier - Laminated Die Construction: R7441- 7442
8/9/17/147-	6681-6682	Aug 1970: 215 x 165 mm: P.F. 351

148		Printer - Operator's Control Panel: R7448-7449
8/9/17/149- 152	6683-6686	Aug 1970: 215 x 165 mm: Type 667 Printer from 1/3 Factory fire: R7450-7453
8/9/17/153- 161	6687-6695	Aug 1970: 215 x 165 mm: Type 1071 Tape to Card Punch at No 3 Factory: R7454-7462
8/9/17/162- 167	6696-6701	Aug 1970: 215 x 165 mm: Mk II Paper Stacker - Taken at No 3 Factory: R7476-7481
8/9/17/168- 170	6702-6704	Aug 1970: 215 x 165 mm: Automatic Computing Enhancement - at Oxon Road, Luton: R7508-7510
8/9/17/171- 172	6705-6706	Aug 1970: 215 x 165 mm: P.F. 351 Printer - Engineer's Panel: R7512- 7513
8/9/17/173- 174	6707-6708	Sep 1970: 215 x 165 mm: T.E. 75 Dynamic Interface Tester Mk II: R7514-7515
8/9/17/175- 186	6709-6720	Sep 1970: 215 x 165 mm: Flat Cable - Module and Store Interconnection System: R7521-7532
8/9/17/187- 193	6721-6727	Sep 1970: 215 x 165 mm: Data Collection System - Receiver: R7533-7539
8/9/17/194- 196	6728-6730	Sep 1970: 215 x 165 mm: Data Collection System - Input Station: R7540-7542
8/9/17/197	6731	Sep 1970: 215 x 165 mm: Data Collection System - Link Concentrator: R7543
8/9/17/198	6732	Sep 1970: 215 x 165 mm: ICL 90 Matador - Pooling Control Panel: R7544
8/9/17/199- 200	6733-6734	Sep 1970: 215 x 165 mm: General Electric D.R.D. 200 with ICL O.G.R.A. Read Head: R7545-7546

8/9/17/201- 203	6735-6737	Sep 1970: 215 x 165 mm: T.E. 132 Mains Monitor: R7577-7579
8/9/17/204- 205	6738-6739	Sep 1970: 215 x 165 mm: ICL 90 Matador: R7584-7585
8/9/17/206- 221	6740-6755	Oct 1970: 215 x 165 mm: P.F. 323 Page Reader Transport: R7586-7601
8/9/17/222- 225	6756-6759	Oct 1970: 215 x 165 mm: 519/2 80 col Card Punch/Verifier: R7608- 7611
8/9/17/226- 233	6760-6767	Oct 1970: 215 x 165 mm: High Density Mag Recording - Hover Pads: R7612-7619
8/9/17/234- 241	6768-6775	Oct 1970: 215 x 165 mm: 519/2 80 col Card Punch/Verifier: R7620- 7627
8/9/17/242- 245	6776-6779	Oct 1970: 215 x 165 mm: 519/2 80 col Card Punch/Verifier: R7628- 7631
8/9/17/246- 247	6780-6781	Oct 1970: 215 x 165 mm: Transmission Case - Universal Fixtures. Part No Pre M/c; Op No. Centre: Floor: R7632-7633
8/9/17/248- 250	6782-6784	Oct 1970: 215 x 165 mm: Card Reader Base - Universal Fixtures. Op No 4; Part No 806902/822167; Centre No. 410: R7634-7636
8/9/17/251	6785	Oct 1970: 215 x 165 mm: Hammer Housing - Universal Fixtures. Part No 822041; Op No 3; Centre No. 410: R7637
8/9/17/252- 255	6786-6789	Nov 1970: 215 x 165 mm: 519/2 80 col Card Punch/Verifier - Punch Unit Model A: R7638-7641
8/9/17/256- 265	6790-6799	Nov 1970: 215 x 165 mm: M.D.S. 4330 Printer: R7643-7652
8/9/17/266- 275	6800-6809	Nov 1970: 215 x 165 mm: Highway Assembly: R7658-7667
8/9/17/276-	6810-6812	Nov 1970: 215 x 165 mm: P.F. 519/2

278		Print Unit: R7672-7674
8/9/17/279- 281	6813-6815	Nov 1970: 215 x 165 mm: T.E. 129 Printer Board Tester: R7675-7677
8/9/17/282- 288	6816-6822	Nov 1970: 215 x 165 mm: T.E. 110: R7678-7684
8/9/17/289- 297	6823-6831	Nov 1970: 215 x 165 mm: D.R.D. 200 with 8691 Logic Cabinet: R7685- 7693
8/9/18	1970 Dec-72 Mar	Nos 7700 - 8418
8/9/18/1-6	6832-6838	Dec 1970: 215 x 165 mm: Decision Data Card Reader 9630: R7700-7706
8/9/18/7	6839	Dec 1970: 215 x 165 mm: Modem Unit: R7716
8/9/18/8	6840	Dec 1970: 215 x 165 mm: Communications Processor: R7717
8/9/18/9	6841	Dec 1970: 215 x 165 mm: Communications Processor - Scanner & L.T.U 2: R7718
8/9/18/10-13	6842-6845	Jan 1971: 215 x 165 mm: T.E. 83/10 Mk II; M.E.S.H. flight and density Test Equipment: R7728-7731
8/9/18/14-28	6846-6860	Jan 1971: 215 x 165 mm: D.I.D. 2710 Mag Tape Encoder: R7732-7746
8/9/18/29-32	6861-6864	Jan 1971: 215 x 165 mm: T.E. 135 Static T.T.L. Trunk Link Test Equipment: R7747-7750
8/9/18/33	6865	Jan 1971: 215 x 165 mm: Series 6000 P.C.B.: R7751
8/9/18/34	6866	Jan 1971: 215 x 165 mm: Series 7000 P.C.B.: R7752
8/9/18/35-36	6861-6868	Feb 1971: 215 x 165 mm: DRD 200 (G.E.C.) Feed Area: R7757-7758
8/9/18/37-40	6869-6872	Feb 1971: 215 x 165 mm: Teletype Spool Rewinder: R7774-7777
8/9/18/41-47	6873-6879	Mar 1971: 215 x 165 mm: Data

		Decision Data Recorder Type 9601: R7778-7784
8/9/18/48-62	6880-6894	Mar 1971: 215 x 165 mm: C.D.C. 512 Line Printer - Train Printer: R7785-7799
8/9/18/63-64	6895-6896	Mar 1971: 215 x 165 mm: 850 Nanosecond Store A/2 Rig: R7822- 7823
8/9/18/65	6897	Mar 1971: 215 x 165 mm: GPO Data Transmission 80" Console with 66", 40" & 28" Width Units: R7828
8/9/18/66	6898	Mar 1971: 215 x 165 mm: 66", 40" & 28" Racks: R7829
8/9/18/67	6899	Mar 1971: 215 x 165 mm: 80" Console: R7830
8/9/18/68	6900	Mar 1971: 215 x 165 mm: 66" width Jacking Field with dummy unit & 19" adaptor: R7831
8/9/18/69	6901	Mar 1971: 215 x 165 mm: 40" Rack I.P.B.: R7832
8/9/18/70	6902	Mar 1971: 215 x 165 mm: 28" Rack Distribution Unit: R7833
8/9/18/71	6903	Mar 1971: 215 x 165 mm: C.S.A. Testing Acceptance Logo: R7857
8/9/18/72-77	6904-6909	Apr 1971: 215 x 165 mm: T.E. 137 Multi-Channel Dynamic Interface Test Equipment: R7858-7863
8/9/18/78	6910	Apr 1971: 215 x 165 mm: Slug' from CDC Train Printer: R7874
8/9/18/79	6911	Apr 1971: 215 x 165 mm: IBM Bi- Polar Store Pack: 7875
8/9/18/80-82	6912-6914	Apr 1971: 215 x 165 mm: N.R.P. 86 Power Supplies: R7876-7878
8/9/18/83-86	6915-6918	Apr 1971: 215 x 165 mm: N.R.P. 96 Power Supplies: R7879-7882
8/9/18/87	6919	Apr 1971: 215 x 165 mm: N.R.P.

		Filter Box A.C.: R7885
8/9/18/88-91	6920-6923	Apr 1971: 215 x 165 mm: 80 col Serial Punch 649/5 (519/2): R7888- 7891
8/9/18/92- 102	6924-6934	Apr 1971: 215 x 165 mm: CDC Line Printer 512: R7892-7902
8/9/18/103- 106	6935-6938	Apr 1971: 215 x 165 mm: T.E. 139 Quad Board Static Test Equipment: R7903-7906
8/9/18/107- 110	6939-6942	Apr 1971: 215 x 165 mm: Dilic Store Tester: R7910-7913
8/9/18/111	6943	Apr 1971: 215 x 165 mm: 80 col Serial Punch 640/5: R7915
8/9/18/112	6944	Apr 1971: 215 x 165 mm: Paper Tape Reader/Punch: R7916
8/9/18/113- 118	6945-6950	May 1971: 215 x 165 mm: N.R.P. 6 AC & DC Power Supplies: R7919-7924
8/9/18/119- 121	6951-6953	May 1971: 215 x 165 mm: N.R.P. 4 Power Supply A 2: R7948-7950
8/9/18/122- 134	6954-6956	May 1971: 215 x 165 mm: M.D.S. 6011 Card Punch taken for Value Eng.: R7952-7964
8/9/18/135	6957	May 1971: 215 x 165 mm: Type 71 Printing Punch at N.C.R. London: R7965
8/9/18/136- 139	6958-6961	May 1971: 215 x 165 mm: 80 col Serial Punch 640/5: R7966-7969
8/9/18/140- 141	6962-6963	Jun 1971: 215 x 165 mm: CDC Printer Slugs: R7977-7978
8/9/18/142- 145	6964-6967	Jun 1971: 215 x 165 mm: Termiprinter with Paper Tape Reader/Punch: R7979-7982
8/9/18/146- 147	6968-6969	Jun 1971: 215 x 165 mm: P.F. 1052 Processor - Back Plane: R7993-7994
8/9/18/148- 149	6970-6971	Jun 1971: 215 x 165 mm: C.E.C. Back Plane: R7995-7996

8/9/18/150	6972	Jun 1971: 215 x 165 mm: Lundy Cheque Sorter & Brook Motors: R7997
8/9/18/151- 157	6973-6979	Jun 1971: 215 x 165 mm: Train Printer - Ballistic Hammer Tray Assembly: R8007-8013
8/9/18/158- 159	6980-6981	Jul 1971: 215 x 165 mm: DRICO Head B/UP 36050004: R8020-8021
8/9/18/160- 163	6982-6985	Jul 1971: 215 x 165 mm: 640/5 Card Punch: R8022-8025
8/9/18/164- 171	6986-6993	Jul 1971: 215 x 165 mm: M.D.S. 6002 80/51 col Card Reader 300 cpm: R8040-8047
8/9/18/172- 173	6994-6995	Jul 1971: 215 x 165 mm: Tape Rewind Machine: R8050-8051
8/9/18/174- 176	6996-6998	Jul 1971: 215 x 165 mm: 667 Printer Hammer: R8054-8056
8/9/18/177- 183	6999-7005	Oct 1971: 215 x 165 mm: T.E. 136 Dynamic Trunk Line Interface Test Equipment: R8116-8122
8/9/18/184- 187	7006-7009	Oct 1971: 215 x 165 mm: P.C.B. Board Tester: R8123-8126
8/9/18/188- 190	7010-7012	Oct 1971: 215 x 165 mm: Train Printer P.F. 642/14: R8131-8133
8/9/18/191- 194	7013-7016	Oct 1971: 215 x 165 mm: Special L.T.N. Type 7922 (Australia): R8134-8137
8/9/18/195- 196	7017-7018	Oct 1971: 215 x 165 mm: Co-Axial Daughter Board System: R8142-8143
8/9/18/197- 204	7019-7026	Oct 1971: 215 x 165 mm: Lundy- Farrington Pneumatic Document Transport: R8145-8152
8/9/18/205- 212	7027-7034	Oct 1971: 215 x 165 mm: Print Quality Evaluator & P.C.B.s: R8157-8164
8/9/18/213- 214	7035-7036	Oct 1971: 215 x 165 mm: Trunk Interface: R8165-8166

8/9/18/215- 227	7037-7049	Oct 1971: 215 x 165 mm: L.P.I. Mk II Printer: R8167-8179
8/9/18/228- 238	7050-7060	Oct 1971: 215 x 165 mm: Type 9625 Decision Data Card Reader 96 col (Compact desk top model): R8180-8190
8/9/18/239- 240	7061-7062	Nov 1971: 215 x 165 mm: 640/5 80 col Serial Card Punch: R8192-8193
8/9/18/241- 267	7063-7089	Nov 1971: 215 x 165 mm: Decision Data Card Punch/Print/Verify/Edit etc Type 9660/51: R8202-8228
8/9/18/268- 274	7090-7096	Nov 1971: 215 x 165 mm: Automatic Computing Enhancement: R8231-8237
8/9/18/275- 278	7097-7100	Nov 1971: 215 x 165 mm: P.F. 328/1 Paper Tape Rewind Unit: R8239-8242
8/9/18/279- 280	7101-7102	Nov 1971: 215 x 165 mm: P.F. 1055 New Range C.P.I.: R8250-8251
8/9/18/281- 288	7103-7110	Nov 1971: 215 x 165 mm: Lundy Transport: R8252-8259
8/9/18/289- 299	7111-7121	Dec 1971: 215 x 165 mm: Train Printer 642/14 T.P.1200: R8260-8270
8/9/18/300- 301	7122-7123	Dec 1971: 215 x 165 mm: Multi-Pocket Pneumatic Document Transport - (2 photos): R8277-8277B
8/9/18/302- 313	7124-7125	Dec 1971: 215 x 165 mm: Train Printer Slugs - manufactured by Charactres: R8296-8307
8/9/18/314- 316	7126-7128	Dec 1971: 215 x 165 mm: 640/5 80 col Serial Punch Spring Drum: R8308-8310
8/9/18/317- 326	7129-7138	Jan 1972: 215 x 165 mm: Lundy Document Transport: R8311-8320
8/9/18/327- 330	7139-7142	Jan 1972: 215 x 165 mm: Punch Knives taken straight from die and stripper no 15 for 519 Card Punch:

R8321-8324

8/9/18/331- 336	7143-7148	Jan 1972: 215 x 165 mm: 80 col Serial Punch with Print Unit 640/5: R8329-8334
8/9/18/337- 341	7149-7153	Feb 1972: 215 x 165 mm: A' Model Paper Tape Reader/Punch 640/6: R8335-8339
8/9/18/342- 354	7154-7166	Feb 1972: 215 x 165 mm: Syner-Data Printer: R8340-8352
8/9/18/355	7167	Feb 1972: 215 x 165 mm: Train Printer Slugs: R8357
8/9/18/356- 357	7168-7169	Feb 1972: 215 x 165 mm: Syner-Data Printer: R8370-8371
8/9/18/358- 364	7170-7176	Feb 1972: 215 x 165 mm: G.P.O. Console and Rack - Phase 1 Telegraph: R8372-8376
8/9/18/365- 366	7177-7178	Feb 1972: 215 x 165 mm: Motorola Card Reader: R8377-8378
8/9/18/367- 370	7179-7182	Feb 1972: 215 x 165 mm: P.F. 481 Dual Exchangeable Disc Store: R8379-8382
8/9/18/371- 387	7183-7199	Feb 1972: 215 x 165 mm: Lundy Transport Pneumatic Document Transport: R8383-8399
8/9/18/388- 394	7200-7206	Mar 1972: 215 x 165 mm: Lundy- Farrington Pneumatic Document Transport: R8412-8418
8/9/19	1972 Mar-73 Apr	Nos 8420 - 8961
8/9/19/1-4	7207-7210	Mar 1972: 215 x 165 mm: T.E. 144 Comm. Trunk Line Controller: R8420-8423
8/9/19/5-7	7211-7213	Mar 1972: 215 x 165 mm: T.E. 145 S.I.M.P.I. Converter: R8424-8426
8/9/19/8	7214	Apr 1972: 215 x 165 mm: T.E. 84/110 System: R8429

8/9/19/9-11	7215-7217	Apr 1972: 215 x 165 mm: T.E. 142 System: R8430-8432
8/9/19/12-14	7218-7220	Apr 1972: 215 x 165 mm: T.E. 142 System - Interim 'Bed of Nails' Jig: R8433-8435
8/9/19/15-18	7221-7224	Apr 1972: 215 x 165 mm: T.E. 142 System - Probe Testing P.C.B. Design with 6000 Series Boards: R8438-8441
8/9/19/19-24	7225-7230	Apr 1972: 215 x 165 mm: C.E.A. - Communications Equipment Ancillary: R8447-8452
8/9/19/25-28	7231-7234	Apr 1972: 215 x 165 mm: C.P.C. - Communications Peripheral Controller: R8453-8456
8/9/19/29-30	7235-7236	Apr 1972: 215 x 165 mm: Engineer's Test Box: R8457-8458
8/9/19/31-40	7237-7246	May 1972: 215 x 165 mm: High Speed Stacker: R8463-8472
8/9/19/41	7247	May 1972: 215 x 165 mm: Modem 5' 6" Stack: R8479
8/9/19/42-47	7248-7253	May 1972: 215 x 165 mm: E.D.S. 4000 DRICO: R8480-8485
8/9/19/48-60	7254-7266	May 1972: 215 x 165 mm: ICL Type II Mag Tape Deck (Autoload): R8498-8510
8/9/19/61-63	7267-7269	May 1972: 215 x 165 mm: P.F. 328/0 Paper Tape Reader: R8516-8518
8/9/19/64-65	7270-7271	Aug 1972: 215 x 165 mm: C.E.C. Mk II: R8538-8539
8/9/19/66-68	7272-7274	Aug 1972: 215 x 165 mm: P.T.R. 2: R8540-8542
8/9/19/69-71	7275-7277	Aug 1972: 215 x 165 mm: P.T.P. 1/2: R8543-8545
8/9/19/72-76	7278-7282	Aug 1972: 215 x 165 mm: High Frequency Power Supplies (Prototype): R8546-8550

8/9/19/77-78	7283-7284	Aug 1972: 215 x 165 mm: 667 Mk II Back Plane: R8551-8552
8/9/19/79-89	7285-7295	May 1972: 215 x 165 mm: Format Tape Punch and Spindle Cutting and Making Unit: R8553-8563
8/9/19/90-95	7296-7301	Jun 1972: 215 x 165 mm: Specification of Functional Test of Optical Format & Damper Units: R8569-8574
8/9/19/96-99	7302-7305	Jun 1972: 215 x 165 mm: L.P.I. Line Printer: R8575-8578
8/9/19/100- 101	7306-7307	Jun 1972: 215 x 165 mm: C.R. 4 Card Reader: R8579-8580
8/9/19/102- 103	7308-7309	Jun 1972: 215 x 165 mm: C.E.C.: R8581-8582
8/9/19/104- 105	7310-7311	Jun 1972: 215 x 165 mm: C.P.I. Card Punch: R8583-8584
8/9/19/106- 107	7312-7313	Jun 1972: 215 x 165 mm: P.T.R. 3 Paper Tape Reader: R8585-8586
8/9/19/108- 109	7314-7315	Jun 1972: 215 x 165 mm: P.T.P. 1 Paper Tape Punch: R8587-8588
8/9/19/110- 117	7316-7323	Jun 1972: 215 x 165 mm: 4552 Facit Strip Printer (Paper Tape): R8592- 8599
8/9/19/118- 120	7324-7326	Jun 1972: 215 x 165 mm: O.C.R. Camera: R8600-8602
8/9/19/121- 128	7327-7334	Jun 1972: 215 x 165 mm: Digital PDP 11/15 made by Digital Equipment Corporation: R8613-8620
8/9/19/129- 133	7335-7339	Jul 1972: 215 x 165 mm: 4844 Store P.C.B.: R8622-8626
8/9/19/134- 135	7340-7341	Jul 1972: 215 x 165 mm: Train Printer: R8630-8631
8/9/19/136- 139	7342-7345	Jul 1972: 215 x 165 mm: Load Cabinet Type 'A' T.E. 147: R8632- 8635

8/9/19/140- 165	7346-7371	Jul 1972: 215 x 165 mm: C.D.C. 9322 Line Printer: R8640-8665
8/9/19/166- 193	7372-7399	Jul 1972: 215 x 165 mm: Line Termination Equipment: R8666-8693
8/9/19/194- 198	7400-7404	Aug 1972: 215 x 165 mm: Train Printer T.E. Timing Platten: R8713-8717
8/9/19/199- 203	7405-7409	Sep 1972: 215 x 165 mm: 80 col Card Punch 640/5/007: R8718-8722
8/9/19/204	7410	Sep 1972: 215 x 165 mm: P.C.B. Component Side: R8736
8/9/19/205- 209	7411-7415	Sep 1972: 215 x 165 mm: P.F. 361 Printer: R8746-8750
8/9/19/210- 212	7416-7418	Oct 1972: 215 x 165 mm: 7015/1 Telephone Data Terminal used with 1901A Remote Job Entry: R8755-8757
8/9/19/213- 216	7419-7422	Oct 1972: 215 x 165 mm: LP 4 P.F. 1085 Line Printer: R8758-8761
8/9/19/217- 222	7423-7428	Oct 1972: 215 x 165 mm: P.F. 328/2 Paper Tape Punch Westrex Teletype Punch: R8762-8767
8/9/19/223	7429	Nov 1972: 215 x 165 mm: P.F. 2540 F.E.P. Rack Only: R8780
8/9/19/224- 225	7430-7431	Nov 1972: 215 x 165 mm: P.F. 2540 F.E.P.: R8781-8782
8/9/19/226- 232	7432-7438	Nov 1972: 215 x 165 mm: T.E. 103 Card Reader Running Test Equipment: R8783-8789
8/9/19/233- 237	7439-7443	Nov 1972: 215 x 165 mm: T.E. 104 Card Reader Mechanism Test Equipment: R8790-8794
8/9/19/238- 242	7444-7448	Dec 1972: 215 x 165 mm: 5085 Control Processor: R8814-8818
8/9/19/243	7449	Jan 1973: 215 x 165 mm: 7905 Communications Control System: R8823

8/9/19/244	7450	Jan 1973: 215 x 165 mm: West Gorton Store Macro (M.O.S.): R8824
8/9/19/245- 255	7451-7461	Jan 1973: 215 x 165 mm: For SPO Bracknell Control Console for Telephone/Data Communications System with associated Equipment Rack, Jacking Field Rack, and Interface Rack: R8825-8835
8/9/19/256- 262	7462-7468	Jan 1973: 215 x 165 mm: P.F. 363 TP 1500: R8846-8852
8/9/19/263- 266	7469-7472	Jan 1973: 215 x 165 mm: For SPO Bracknell Control Console for Telephone/Data Communications System with associated Equipment Rack, Jacking Field Rack, and Interface Rack: R8857-8860
8/9/19/267- 288	7473-7474	Jan 1973: 215 x 165 mm: Decision Data 9650 Multi-Function Card Unit: R8875-8896
8/9/19/289- 305	7475-7511	Jan 1973: 215 x 165 mm: Communications 2-wire Telephone Console and Associated Equipment: R8897-8913
8/9/19/306- 314	7512-7520	Mar 1973: 215 x 165 mm: Type 1922 Card Punch Mechanism (033): R8934-8942
8/9/19/315- 324	7521-7530	Apr 1973: 215 x 165 mm: Store P.C.B. & Device Test Equipment, T.E. 154: R8947-8956
8/9/19/325- 326	7531-7532	Apr 1973: 215 x 165 mm: 2807/1 2808/1 D.E.D.S.: R8960-8961
8/9/19/327- 328	7533-7534	Apr 1973: 215 x 165 mm: Dynamic Stacker: R8977-8978
8/9/20	1973 May-74 Dec	Nos 9031 - 9675
8/9/20/1	7535	May 1973: 215 x 165 mm: P.F.73 (2903) Direct Data Entry VDU: R9031
8/9/20/	7536	May 1973: 215 x 165 mm: P.F.73

		(2903) F.E.D.S. Control Panel B1: R9032
8/9/20/	7537	May 1973: 215 x 165 mm: P.F.72 (2903) Card Reader Control Panel B1: R9033
8/9/20/	7538-7539	Jun 1973: 215 x 165 mm: Paper Tape Reader Teletype Mechanism BRP 17: R9034-9035
8/9/20/	7540-7545	Jun 1973: 215 x 165 mm: A.M.P. Magnetic Credit Card Reader: R9037-9042
8/9/20/	7546-7550	Jun 1973: 215 x 165 mm: Unidentified Printer: R9047-9051
8/9/20/	7551-7556	Jun 1973: 215 x 165 mm: 2409 Buffered Line Printer and Dynamic Stacker: R9064-9069

**The remaining photos in volume 8/9/20 are too
badly stuck together to be listed at present.
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8/10		Powers/BTM/ICT/ICL [1 box]
8/10/1		1900 Series
8/10/1/1	8001	165 x 120 mm: 1900 Installation: R2868
8/10/1/2	8002	165 x 120 mm: 1900 Series - Medium installation - 1903 configuration: R128/2/5
8/10/1/3	8003	165 x 120 mm: 1903 Installation: R138/2/3
8/10/1/4	8004	165 x 120 mm: 1901 Installation - with cassette-loaded magnetic tape unit: R12392/15
8/10/1/5	8005	165 x 120 mm: 1901 Installation - with cassette-loaded decks - no model: R2900
8/10/1/6	8006	165 x 120 mm: Operator loading a 4-deck cassette-loaded magnetic tape unit: R2901

8/10/1/7	8007	165 x 120 mm: 1900 Series - Bryant Disc File (American covers): R697
8/10/1/8	8008	165 x 120 mm: ICT 1901 Installation with Cassette Tape: R2923
8/10/1/9	8009	165 x 120 mm: ICT 1901 Installation with Cassette Tape: R12505/3
8/10/1/10	8010	165 x 120 mm: 2102 Card Reader: R2937
8/10/1/11	8011	165 x 120 mm: Part of a 1901 Installation: RA6255/29
8/10/1/12	8012	165 x 120 mm: Part of a 1901 Installation with Cassette-Loaded Magnetic Tape Decks: RA6255/76
8/10/1/13	8013	165 x 120 mm: 1900 Console Typewriter version for Multi-Programming Computers: R2943
8/10/1/14	8014	165 x 120 mm: 2401 Printer (for 1900): R694
8/10/1/15	8015	165 x 120 mm: 1938 Interrogating Typewriter: R708
8/10/1/16	8016	165 x 120 mm: 1920/2 Card Punch: R709
8/10/1/17	8017	165 x 120 mm: 2201 Card Reader Punch: R2957
8/10/1/18	8018	165 x 120 mm: Universal Document Sorter 1900 Range: R732
8/10/1/19	8019	165 x 120 mm: 1962 Drum Store: R741
8/10/1/20	8020	165 x 120 mm: An ICT 1901 Installation with 1901 Central Processor, Card Punch & Card Reader, Cassette-Tape Unit, Line Printer and Console Typewriter: R2972
8/10/1/21	8021	165 x 120 mm: An ICT 1902/3

		Installation, with Central Processor, Card Punch & Card Reader, Paper Tape Punch and Paper Tape Reader, Magnetic Tape Unit, Line Printer and Console Typewriter: R2978
8/10/1/22	8022	165 x 120 mm: A large ICT 1900 Installation, with Central Processor, Card Punch & Card Reader, Paper Tape Punch and Paper Tape Reader, Magnetic Tape System, Line Printer and Console Typewriter: R2974
8/10/1/23	8023	165 x 120 mm: An ICT 1901 Installation, with Central Processor, Card Punch, Exchangeable Disc System, Card Reader, Magnetic Tape System and Console Typewriter: R2973
8/10/1/24	8024	165 x 120 mm: An ICT 1902/3 Installation, with Central Processor, Card Punch & Card Reader, Paper Tape Punch and Paper Tape Reader, Magnetic Tape System, Line Printer, Exchangeable Disc System and Console Typewriter: R2977
8/10/1/25	8025	165 x 120 mm: An ICT 1902/3 Installation, with Central Processor, Card Punch & Card Reader, Paper Tape Punch and Paper Tape Reader, Magnetic Tape Unit, Line Printer and Console Typewriter: R2980
8/10/1/26	8026	165 x 120 mm: 1900 Computer: R2779
8/10/1/27	8027	165 x 120 mm: ICT 596 Card Reader - 1313 Card Reader on 1302, 1524 Card Reader on 1500, 1610/1 Card Reader on 1600, 1911/1 Card Reader on 1900: R2791
8/10/1/28	8028	165 x 120 mm: 1900 Computer - 1901 or 1902 Central Processor: R2801
8/10/1/29	8029	165 x 120 mm: 1916/1 Paper Tape

		Reader for the 1900 Computer: R2803
8/10/1/30	8030	165 x 120 mm: 1925/1 Paper Tape Punch for the 1900 Computer: R2804
8/10/1/31	8031	165 x 120 mm: 1900 Computer - 1970/1 Magnetic Tape Unit: R2805
8/10/1/32	8032	165 x 120 mm: 1910/1 600 cpm Card Reader for the 1900 Computer: R2833
8/10/1/33	8033	165 x 120 mm: 1920/1 Output Punch 100 cpm: R2835
8/10/1/34	8034	165 x 120 mm: Large 1900 Series Installation: R2837
8/10/1/35	8035	165 x 120 mm: 1900 Series Processors 1904/5/6/7/9: R2840
8/10/1/36	8036	165 x 120 mm: 1925 Paper Tape Punch: R536
8/10/1/37	8037	165 x 120 mm: 1902/3 Processors: R555
8/10/1/38	8038	165 x 120 mm: Console Typewriter for 1904/5/6/7/9: R557
8/10/1/39	8039	165 x 120 mm: 1916 Paper Tape Reader - also 1317 Paper Tape Reader: R580
8/10/1/40	8040	165 x 120 mm: 1925 Paper Tape Punch - also 1326 Paper Tape Punch: R2861
8/10/1/41	8041	165 x 120 mm: Standard Interface for the 1900 Series: R6092
8/10/1/42	8042	165 x 120 mm: Type 1315 Paper Tape Reader (2 units): R2865
8/10/1/43	8043	165 x 120 mm: Magnetic Card File Type 1564, 1624, or 1958: R2806
8/10/1/44	8044	165 x 120 mm: 1956 Disc Store: R2849

8/10/1/45	8045	165 x 120 mm: 1974 Magnetic Tape Unit: R572
8/10/1/46	8046	165 x 120 mm: 1953 Exchangeable Disc System without Cartridge: R2338
8/10/1/47	8047	165 x 120 mm: 1953 Exchangeable Disc System with Cartridge beside it: R2339
8/10/1/48	8048	165 x 120 mm: 1937/1 Interrogating Typewriter: R2884
8/10/1/49	8049	165 x 120 mm: 1900 Series Magnetic Tape Unit 1971/2/3: R2776
8/10/1/50	8050	165 x 120 mm: 1931/32/33 Printer: R2854
8/10/1/51	8051	165 x 120 mm: 1934 Graph Plotter: R2848
8/10/1/52	8052	165 x 120 mm: 1922 Card Punch: R3625
8/10/1/53	8053	165 x 120 mm: 1830 Small Visual Display: R565
8/10/1/54	8054	165 x 120 mm: 1915/1 Paper Tape Reader for 1900 Computer: R2802
8/10/2		1600 Computer
8/10/2/1	8055	165 x 120 mm: 1600 Computer: R2775
8/10/2/2	8056	165 x 120 mm: 1600 Central Processor - Console: R2808
8/10/2/3	8057	165 x 120 mm: 1600 Computer - 1611 Card Reader: R2809
8/10/2/4	8058	165 x 120 mm: 1600 Computer - 1670/1 Magnetic Tape Unit: R2831
8/10/2/5	8059	165 x 120 mm: 1600 Computer - 1620/1 Card Punch: R2793
8/10/2/6	8060	165 x 120 mm: 1600 Computer - 1640 Disc File
8/10/2/7	8061	165 x 120 mm: 1600 Computer -

1637/1 Interrogating Typewriter:
R2807

8/10/3

1500 Computer

8/10/3/1	8062	165 x 120 mm: The ICT 1500 Computer at Putney Bridge House: R2519
8/10/3/2	8063	165 x 120 mm: The ICT 1500 Computer at ICT Computer Centre, Dusseldorf: R2715
8/10/3/3	8064	165 x 120 mm: 1500 Computer at Johannesburg: R2714
8/10/3/4	8065	165 x 120 mm: 1500 Installation at W.H.Smith & Sons Ltd: R2739
8/10/3/5	8066	165 x 120 mm: 1500 BEE 1962 Display Panel: R2686
8/10/3/6	8067	165 x 120 mm: 1500 BEE 1962 Display Panel of specimen tabulations: R2682
8/10/3/7	8068	165 x 120 mm: 1500 Model: R2427
8/10/3/8	8069	165 x 120 mm: 1500 at ICT Computer Centre, Putney Bridge. Pat Morrish and Ron Parrish explain 10 kcs Magnetic Tape Unit to a visitor. (In fact, the 'visitor' is Alan Bagshaw): R2516
8/10/3/9	8070	165 x 120 mm: ICT 1500 Data Processing System. Card Punch operating at 100 cpm: R2517
8/10/3/10	8071	165 x 120 mm: ICT 1500 Data Processing System. Combined Paper Tape Reader/Paper Tape Punch each operating at 100 cps: R278
8/10/3/11	8072	165 x 120 mm: Line Printer of the ICT 1500 Data Processing System. 120 characters per line and 1000 lines per minute: R2634
8/10/3/12	8073	165 x 120 mm: Close-up of Line Printer in 8/10/3/11: R2608

8/10/3/13	8074	165 x 120 mm: Console of the ICT 1500 Data Processing System: R2637
8/10/3/14	8075	165 x 120 mm: As 8/10/3/13, but with the covers open: R2611
8/10/3/15	8076	165 x 120 mm: Group of 6 10 Kcs Magnetic Tape Units for the ICT 1500 Data Processing System: R2639
8/10/3/16	8077	165 x 120 mm: Detail of one unit of 8/10/3/15: R2644
8/10/3/17	8078	165 x 120 mm: Data Record File for the ICT Data Processing System - 4,608,000 characters on 128 exchangeable magnetic records
8/10/3/18	8079	165 x 120 mm: Close-up of 8/10/3/17: R2617
8/10/3/19	8080	165 x 120 mm: ICT 1500 Electronic Data Processing System. Card Punch operates at 100 80 col cpm: R2620
8/10/3/20	8081	165 x 120 mm: Paper Tape Punch & Paper Tape Reader of the ICT 1500 Data Processing System. Reader at 1000 cps; Punch at 100 cps: R2622
8/10/3/21	8082	165 x 120 mm: Detail of ICT 1500 Electronic Data Processing System Paper Tape Reader: R2623
8/10/3/22	8083	165 x 120 mm: 1500 Paper Tape: R2624
8/10/3/23	8084	165 x 120 mm: ICT 1500 Electronic Data Processing System. Card Reader operates at 600 80 col cpm: R2625
8/10/3/24	8085	165 x 120 mm: Close-up of stacker of ICT 1500 Electronic Data Processing System Card Reader: R2627
8/10/3/25	8086	165 x 120 mm: 1500 Line Printer (New): R2742

8/10/3/26	8087	165 x 120 mm: 1500 Memory Store: R2753
8/10/3/27	8088	165 x 120 mm: 1566 Disc File: R2796
8/10/3/28	8089	165 x 120 mm: 1582 Magnetic Tape Unit: R2798
8/10/3/29	8090	165 x 120 mm: 1585 Industry- Compatible Magnetic Tape Unit: R2799
8/10/3/30	8091	165 x 120 mm: Magnetic Card File - Single card as contained in Magazine (Cartridges) in 1564/1 and 1642/1 systems: R2823
8/10/3/31	8092	165 x 120 mm: 1528 Interrogating Typewriter; 1508 Monitor Typewriter
8/10/3/32	8093	165 x 120 mm: 1500 Computer - 1523 Card Reader: R2818
8/10/3/33	8094	165 x 120 mm: 1528 Interrogating Typewriter for 1500 Computer: R2819
8/10/3/34	8095	165 x 120 mm: 1581 Magnetic Tape Unit: R2821
8/10/3/35	8096	165 x 120 mm: Interchangeable Cartridge (Magazine) for 1564/1 or 1642/1 Magnetic Card File Storage Units: R2822
8/10/4		EMI 1100
8/10/4/1	8097	165 x 120 mm: The 1100 Computer installed at Boots Pure Drug Co's Nottingham Offices, showing Magnetic Tape Units (at rear) and Paper Tape Reader and Paper Tape Punch (foreground). The 1100 is engaged on inventory control and order processing for some 60,000 different products held in Boots warehouses for distribution to over 1300 Boots shops: R2672

8/10/4/2	8098	165 x 120 mm: As 8/10/4/1, another view: R2691
8/10/4/3	8099	165 x 120 mm: As 8/10/4/1, another view: R2698
8/10/5		EMI 2400
8/10/5/1	8100	165 x 120 mm: General View of part of the EMIDEC 2400 Computing System for processing data for the Government Graduated Pensions Scheme, in a new computing centre at Newcastle-upon-Tyne: R2671
8/10/5/2	8101	165 x 120 mm: EMI 2400 under test before delivery to the Ministry of Pensions and National Insurance at Newcastle-upon-Tyne: R2673
8/10/6		ICT 1500 Series. 14 B/W photos mounted on card.
		This is the ICT version of the RCA 301, not the later ex-Singer machine which was also numbered 1500
8/10/6/1	8102	220 x 165 mm: 1580 Magnetic Tape Unit
8/10/6/2	8103	205 x 155 mm: 1521 Paper Tape Punch (left) & 1522 Paper Tape Reader (right)
8/10/6/3	8104	210 x 155 mm: 1521 Card Punch (Should be 1534 ? 1521 was Paper Tape Punch)
8/10/6/4	8105	200 x 160 mm: 1533 On-line Printer
8/10/6/5	8106	195 x 150 mm: 1500 Punched Card Reader
8/10/6/6	8107	205 x 140 mm: 1571 Data Disc File
8/10/6/7	8108	165 x 130 mm: 1500 Computer at North Sydney, Australia
8/10/6/8	8109	160 x 115 mm: Print Output Type 1535/1

8/10/6/9	8110	170 x 135 mm: 1523 Card Reader
8/10/6/10	8111	145 x 110 mm: Type 1580 Tape Group
8/10/6/11	8112	145 x 110 mm: Paper Tape Input Type 1522/1
8/10/6/12	8113	145 x 115 mm: Punched Card Input Type 1523/1
8/10/6/13	8114	165 x 115 mm: Punched Card Output Type 1534/1
8/10/6/14	8115	145 x 110 mm: Data Record Files Type 1561/1
8/10/7		1004, 12 B/W photos
8/10/7/1	8116	165 x 120 mm: 1004 High Speed Data Processor with 236 Output Punch: R2738
8/10/7/2	8117	165 x 120 mm: 1004 Printing Unit: R2743
8/10/7/3	8118	165 x 120 mm: 1004 (with operator at the printer controls): R2769
8/10/7/4	8119	165 x 120 mm: 1004 Data Processor: R2771
8/10/7/5	8120	165 x 120 mm: 1004 Data Processor - Rotating masks in console facilitate program testing: R2772
8/10/7/6	8121	165 x 120 mm: 1004 Optional Output Card Punch: R2773
8/10/7/7	8122	165 x 120 mm: 1004 Print Drum Close-up: R2781
8/10/7/8	8123	165 x 120 mm: 1004/3 with Magnetic Tape Units: R2883
8/10/7/9	8124	165 x 120 mm: 1004 with Magnetic Tape Units: R2850
8/10/7/10	8125	165 x 120 mm: 1004 Paper Tape Punch mounted on 236 or 241 Card Punch: R2852

8/10/7/11	8126	165 x 120 mm: 1004 Data Processor showing Auxiliary Paper Tape Reader: R2856
8/10/7/12	8127	165 x 120 mm: Type 597/0 Auxiliary Card Reader for the 1004: R2857
8/10/8		550 Calculator
8/10/8/1	8128	165 x 120 mm: The 550 Electronic Calculator developed by the British Tabulating Machine Co in the 1950s
8/10/8/2	8129	165 x 120 mm: Type 550 Electronic Calculator - BTM Co then ICT
8/10/8/3	8130	165 x 120 mm: 550 Calculator - Turret wiring: R1069
8/10/8/4	8131	165 x 120 mm: 550 Calculator: R1070
8/10/8/5	8132	165 x 120 mm: Type 550 Calculator - Inserting plug-board: R1446
8/10/8/6	8133	July 1961: 165 x 120 mm: Close-up of neon display panel, engineer's switch panel, and plugged control panels: R2436
8/10/8/7	8134	July 1961: 165 x 120 mm: ICT Type 550/2 Electronic Calculator: R2451
8/10/8/8	8135	165 x 120 mm: 550 Calculator Card Feed: R2217
8/10/8/9	8136	165 x 120 mm: 550 Plug Board: R2216
8/10/8/10	8137	165 x 120 mm: Plug Panel 550: R2215
8/10/8/11	8138	Mar 1960: 165 x 120 mm: 550 Calculator: R2214
8/10/8/12	8139	165 x 120 mm: 550 Calculating Unit: R2213
8/10/8/13	8140	165 x 120 mm: 555 Calculator:

R1173

8/10/8/14	8141	165 x 120 mm: 550 Calculator: R2135
8/10/8/15	8142	165 x 120 mm: Type 550 Electronic Calculator : R1163
8/10/8/16	8143	Oct 1954: 165 x 120 mm: The 550 Electronic Calculator manufactured by the British Tabulating Machine Co Ltd: R1161
8/10/8/17	8144	165 x 120 mm: 550 Calculator: R1067
8/10/8/18	8145	July 1954: 165 x 120 mm: Type 550 Electronic Calculator - covers off: R1071
8/10/8/19	8146	165 x 120 mm: 550 Calculator - half-open: R1065
8/10/8/20	8147	165 x 120 mm: 550 Calculator - half-open - close-up: R1064
8/10/8/21	8148	165 x 120 mm: 550 Calculator - half-open - close-up, another view: R1063

8/10/9

550 Calculator

8/10/9/1	8149	July 1954: 200 x 160 mm: 550 Calculator at Research Labs, Stevenage: R1070
8/10/9/2	8150	July 1954: 200 x 160 mm: 550 Calculator - Complete, but with unpainted covers: R1067
8/10/9/3	8151	July 1954: 200 x 160 mm: 550 Calculator - From above, with all bays opened: R1072
8/10/9/4	8152	July 1954: 200 x 160 mm: 550 Calculator - End view of 4 opened bays: R1066
8/10/9/5	8153	July 1954: 200 x 160 mm: 550 Calculator - End view, 1 bay open, 3 closed: R1063

8/10/10**Type 555 Calculator**

8/10/10/1	8154	Aug 1957: 165 x 120 mm: 555 Calculator -General view of complete system: R1591
8/10/10/2	8155	165 x 120 mm: 555 Calculator - as 8/10/10/1, with superimposed captions: R1994
8/10/10/3	8156	Oct 1956: 165 x 120 mm: 555 Calculator - Control Unit: R1513
8/10/10/4	8157	Nov 1957: 165 x 120 mm: 555 Calculator - Storage Drum, without heads: R1653
8/10/10/5	8158	Nov 1957: 165 x 120 mm: 555 Calculator - close-up of Display Panel and Plug Board: R1650
8/10/10/6	8159	Oct 1956: 165 x 120 mm: 555 Electronic Calculator - General View, no covers: R1476
8/10/10/7	8160	Oct 1956: 165 x 120 mm: 555 Electronic Calculator - Input/Output Unit, no covers (front): R1473
8/10/10/8	8161	Oct 1956: 165 x 120 mm: 555 Electronic Calculator - Input/Output Unit, no covers (rear)
8/10/10/9	8162	Oct 1956: 165 x 120 mm: 555 Electronic Calculator - Input/Output Unit, with covers: R1514
8/10/10/10	8163	Oct 1956: 165 x 120 mm: 555 Electronic Calculator - Arithmetic Unit, no covers: R1479
8/10/10/11	8164	Oct 1956: 165 x 120 mm: 555 Electronic Calculator - Arithmetic Unit, no covers: R1481
8/10/10/12	8165	Oct 1956: 165 x 120 mm: 555 Electronic Calculator - Engineer taking notes from neon display

panel: R1482

8/10/10/13	8166	Oct 1956: 165 x 120 mm: 555 Electronic Calculator - Arithmetic Unit, no covers, another view: R1480
8/10/10/14	8167	Mar 1957: 165 x 120 mm: Close-up of part of Arithmetic Unit: R1530
8/10/10/15	8168	1956: 165 x 120 mm: 125 x 110 mm. Close-up of Drum, mounted on card
8/10/10/16	8169	Mar 1957: 165 x 120 mm: 555 Calculator - Close-up of Neon Display Panel: R1526
8/10/10/17	8170	Mar 1957: 165 x 120 mm: 555 Calculator - Close-up of Calculator Panel: R1527
8/10/10/18	8171	Mar 1957: 165 x 120 mm: 555 Calculator - Close-up of Calculator Switch Panel: R1529
8/10/10/19	8172	Mar 1957: 165 x 120 mm: 555 Storage Drum, from above: R1697
8/10/10/20	8173	165 x 120 mm: 555 Storage Drum, oblique from above: R1698
8/10/10/21	81734	165 x 120 mm: Operator plugging control Panels for 555 Calculators at Atomic Energy Research Council, Harwell: R1726
8/10/10/22	8175	165 x 120 mm: 555 Calculators at A.E.R.E. Harwell: R1725
8/10/10/23	8176	165 x 120 mm: 555 Calculators at A.E.R.E. Harwell, another view: R1724
8/10/10/24	8177	165 x 120 mm: 555 Calculators at A.E.R.E. Harwell, another view: R1723
8/10/10/25	8178	165 x 120 mm: 555 Calculators at A.E.R.E. Harwell, operator inserting plugboard: R1722

8/10/11/5	8192	165 x 120 mm: 558 Computer - Card Track: R2447
8/10/11/6	8193	165 x 120 mm: 558 Computer - Dual Card Receivers: R2450
8/10/11/7	8194	165 x 120 mm: 558 Computer - Card Reader/Punch, covers partly open: R2453
8/10/11/8	8195	165 x 120 mm: 558 Computer - 256 Instruction Program Store: R2455
8/10/11/9	8196	165 x 120 mm: 558 Computer - Engineer's Control Panel: R2456
8/10/11/10	8197	165 x 120 mm: 558 Computer - Operator's Control Panel: R2457
8/10/11/11	8198	165 x 120 mm: 558 Computer - Arithmetic Control Unit on sliding frame: R2458
8/10/11/12	8199	165 x 120 mm: 558 Computer - Ferrite Core Data Storage containing: A Store 32 Registers; B Store 32 Registers; C Store 8 Registers: R2459
8/10/11/13	8200	165 x 120 mm: Restyled 40 col Range of Equipment, with model: R2782
8/10/11/14	8201	165 x 120 mm: New 40 col Range of Equipment at Letchworth: R2810
8/10/11/15	8202	165 x 120 mm: Mounted on card. New 40 col Range of Equipment at Letchworth, with 3 models: R2814
8/10/11/16	8203	200 x 100 mm: Mounted on card. Restyled 80 col Range, with model
8/10/12		Interpreters (Powers-Samas type), 21, 40 & 80 col.
8/10/12/1	8204	165 x 120 mm: 80 col Interpreter Type 430/431: R2550
8/10/12/2	8205	165 x 120 mm: 80 col Interpreter Type 430/431: R2878

8/10/12/3	8206	165 x 120 mm: 80 col Interpreter Type 430/431 - Print Head: R2852
8/10/12/4	8207	165 x 120 mm: 80 col Interpreter Type 430/431: R2325
8/10/12/5	8208	165 x 120 mm: 40 col Interpreter Type 442: R2178
8/10/12/6	8209	165 x 120 mm: Restyled 40 col Interpreter Type 442: R2828
8/10/13		Reproducers (Powers Samas type), 21 & 40 col.
8/10/13/1	8210	165 x 120 mm: 21 col Reproducing Punch: R2242
8/10/13/2	8211	165 x 120 mm: 40 col Reproducer: R2243
8/10/13/3	8212	165 x 120 mm: Restyled 40 col Reproducer Type 213: R2829
8/10/14		Interpolators (otherwise Collators) (Powers Samas Type), 21 & 40 col.
8/10/14/1	8213	165 x 120 mm: 21 col Collator: R2180
8/10/14/2	8214	165 x 120 mm: Type 372 40 col Collator: R2245
8/10/14/3	8215	165 x 120 mm: Restyled Type 372 40 col Collator: R2830
8/10/14/4	8216	165 x 120 mm: Restyled 40 col Range of Equipment. Type 372 Collator: R2789
8/10/15		Auto-Verifiers (Powers Samas Type) 21, 40 & 80 col.
8/10/15/1		165 x 120 mm: 40 col Auto Verifier, with model. Mounted on card
8/10/15/2	8217	165 x 120 mm: 21 col Auto Verifier: R2237

8/10/15/3	8218	165 x 120 mm: 80 col Auto Verifier Type 131: R2815
8/10/15/4	8219	165 x 120 mm: I.C.T. 40 Col Automatic Verifier Type 142: R2827
8/10/15/5	8220	165 x 120 mm: Restyled 40 col Range of Equipment. Automatic Varifier Type 142: R2787
8/10/16		Automatic Key Punches (Powers Samas Type) 21, 40 & 80 col.
8/10/16/1	8221	165 x 120 mm: 21 col AKP, close-up from above: R2265
8/10/16/2	8222	165 x 120 mm: 80 col slotted hole U.A.K.P.: R2305
8/10/16/3	8223	165 x 120 mm: 80 col U.A.K.P., close-up from above. Caption on back of photo says 'Printing Head', which is wrong: R2307
8/10/16/4	8224	165 x 120 mm: Remote Control U.A.K.P.: R2328
8/10/16/5	8225	165 x 120 mm: 80 col slotted hole U.A.K.P., close-up of keyboard from above: R2366
8/10/16/6	8226	165 x 120 mm: 40 col A.K.P., close-up of keyboard from above: R2368
8/10/16/7	8227	165 x 120 mm: 40 col A.K.P. with Card Count control: R2146
8/10/16/8	8228	165 x 120 mm: 21.col.U.A.K.P.: R2189
8/10/16/9	8229	165 x 120 mm: I.C.T. 40 col Equipment. Type 44 Automatic Key Punch: R2816
8/10/16/10	8230	165 x 120 mm: I.C.T. 40 col Equipment. Type 44 Automatic Key Punch. Same shot as 8/10/16/9, different scale: R2816
8/10/16/11	8231	165 x 120 mm: 21 col Automatic

Key Punch: R2017

8/10/16/12	8232	165 x 120 mm: 40 col Automatic Key Punch Type 44, with model: R2022
8/10/16/13	8233	165 x 120 mm: 80 col U.A.K.P., close-up from above, showing dual purpose card in visible position: R2413
8/10/16/14	8234	Jan 1961: 165 x 120 mm: 80 col U.A.K.P., close-up of keyboard from above.: R2366
8/10/16/15	8235	165 x 120 mm: 80 col A.K.P. Type 34, with model: R2306
8/10/16/16	8236	165 x 120 mm: Restyled 40 col A.K.P.

8/10/17

Sorters (Powers Samas Type).

8/10/17/1	8237	165 x 120 mm: 40 col Sorter: R2141
8/10/17/2	8238	165 x 120 mm: 21 col Sorter, with model: R2148
8/10/17/3	8239	165 x 120 mm: 21 col Sorter, close-up of stackers: R2308
8/10/17/4	8240	165 x 120 mm: 40 col Sorter, from above showing Sensing Device and Totals Counters: R2370
8/10/17/5	8241	165 x 120 mm: 40 col Sorter, close-up of stackers: R2372
8/10/17/6	8242	165 x 120 mm: Restyled 40 col Range of Equipment. Sorter: R2788
8/10/17/7	8243	165 x 120 mm: Restyled 40 col Sorter Type 327
8/10/17/8	8244	165 x 120 mm: 40 col Sorter, close-up of Sensing Pins: R2356

8/10/18

**Hand Verifiers (Powers Samas Type)
21 & 40 col.**

8/10/18/1	8245	165 x 120 mm: 21 col Hand Verifier: R2224
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8/10/18/2	8246	165 x 120 mm: 40 col Hand Verifier: R2003
8/10/18/3	8247	165 x 120 mm: I.C.T. 40 Hand Verifier Type 113: R2825
8/10/19		Hand Punches (Powers Samas Type) 21 & 40 col.
8/10/19/1	8248	165 x 120 mm: 21 col Hand Punch: R2187
8/10/19/2	8249	165 x 120 mm: 40 col Hand Punch, showing operator's hands: R2143
8/10/19/3	8250	165 x 120 mm: I.C.T. 40 Hand Punch Type 13: R2826
8/10/20		Tabulators (Powers Samas Type) 21 & 40 col.
8/10/20/1	8251	165 x 120 mm: 4/5 Tabulator: R2230
8/10/20/2	8252	165 x 120 mm: 40 col 4/5 Tabulator with Summary Card Punch: R2231
8/10/20/3	8253	165 x 120 mm: 21 col Tabulator with subtraction: R2234
8/10/20/4	8254	165 x 120 mm: 21 col Tabulator: R2236
8/10/20/5	8255	Apr 1958: 165 x 120 mm: 21 col Connection Box with subtraction: R2401
8/10/20/6	8256	165 x 120 mm: P3 40 col Tabulator: R2247
8/10/20/7	8257	165 x 120 mm: P3 40 col Tabulator, close-up of Print Unit and tabulated Statements: R2348
8/10/20/8	8258	165 x 120 mm: 4/5 40 col Tabulator, oblique from above showing Print Unit and tabulated InvoicesL R2369
8/10/20/9	8259	165 x 120 mm: P3 40 col Tabulator, close-up of Print Unit and tabulated Statements. Like

8/10/20/7, but shot during
printing: R2349

8/10/20/10	8260	165 x 120 mm: 40 col Tabulator, close-up of P3 Print Head: R2445
8/10/20/11	8261	165 x 120 mm: P3 40 col Tabulator Connection Box: R2365
8/10/20/12	8262	Sep 1959: 165 x 120 mm: Printing Head of 40 col 4/5 Tabulator: R2027
8/10/20/13	8263	Oct 1959: 165 x 120 mm: 40 col P3 Tabulator, with model: R2053
8/10/21		Machine Rooms. 4 B/W photos mounted on heavy card
8/10/21/1	8264	1952: 160 x 105 mm: BTM Machine Room, showing tabulators, reproducers, sorters and punches, with c 30 operators
8/10/21/2	8265	1952: 160 x 105 mm: BTM Machine Room, another view
8/10/21/3	8266	1952: 160 x 105 mm: BTM Machine Room, another view, showing 23 punch operators
8/10/21/4		c1954: 160 x 105 mm: BTM installation at Montague Burton. (Incidentally this illustrates that customer installations were always much more spacious than inhouse ones.)
8/10/22		BTM Installation at Ministry of Food, Guildford
8/10/22/1	8267	Sep 1954: 165 x 120 mm: BTM punch room, showing c 40 operators. Mounted on heavy card
8/10/22/2	8268	Sep 1954: 165 x 120 mm: BTM Junior Rolling Total Tabulators. Mounted on heavy card
8/10/22/3	8269	Sep 1954: 165 x 120 mm: Long Gallery, with rows of clerks at

tables: R1128

8/10/22/4	8270	Sep 1954: 165 x 120 mm: Copy of 8/10/22/1: R1129
8/10/22/5	8271	Sep 1954: 165 x 120 mm: Operator at a punch: R1135
8/10/22/6	8272	Sep 1954: 165 x 120 mm: Operator at a sorter: R1131
8/10/22/7	8273	Sep 1954: 165 x 120 mm: Operator at a punch with typewriter keyboard: R1136
8/10/22/8	8274	Sep 1954: 165 x 120 mm: Operator juggling cards on top of a reproducer: R1132
8/10/22/9	8275	Sep 1954: 165 x 120 mm: Operator examining cards on top of a collator: R1133
8/10/22/10	8276	Sep 1954: 165 x 120 mm: Operator examining printout at tabulator: R1134
8/10/22/11	8277	Sep 1954: 165 x 120 mm: Copy of 8/10/22/2: R1127
8/10/22/12	8278	Sep 1954: 165 x 120 mm: Copy of 8/10/22/2: R1127
8/10/22/13	8279	Sep 1954: 165 x 120 mm: Operator at a tabulator: R1126
8/10/22/14	8280	Sep 1954: 165 x 120 mm: Operator at a tabulator: R1139
8/10/22/15	8281	Sep 1954: 165 x 120 mm: Operator examining printout: R1141
8/10/22/16	8282	Sep 1954: 165 x 120 mm: Copy of 8/10/22/13: R1126
8/10/22/17	8283	Sep 1954: 165 x 120 mm: Close-up of tabulator print head from side: R1140
8/10/22/18	8284	Sep 1954: 165 x 120 mm: Close-up of tabulator print head from

front: R1138

8/10/22/19 8285 Sep 1954: 165 x 120 mm: Copy of
8/10/22/18: R1138

8/10/23

Specials.

8/10/23/1 8286 May 1954: 165 x 120 mm:
Electronically controlled
weighing, measuring and recording
equipment: R1047

8/10/23/2 8287 Mar 1962: 165 x 120 mm: A Special
Projects Data Distribution System
showing the central control unit
and its associated hand-operated
80 col parallel input unit, with 8
remote output printers: R2700

8/10/23/3 8288 Nov 1962: 165 x 120 mm:
Experimental Plate Stack with a
capacity of 500 52-bit words:
R2706

8/10/23/4 8289 165 x 120 mm: 40 col U.A.K.P.
operated by remote control: R2493

8/10/23/5 8290 165 x 120 mm: A modified Type 234
Gang Punch and control unit for
recording into punched cards data
available in the form of
electrical impulses from a variety
of equipment such as computers,
data loggers, test gear, and
monitoring machines. The control
unit has storage capacity. In
addition it has variable format
facilities both pre-determined and
under control of input data.:
R2660

8/10/24

Magnetic Tape Readers.

8/10/24/1 8291 165 x 120 mm: D.R.I.C.O. Tape
Deck: R2877

8/10/24/2 8292 165 x 120 mm: 1376 Mag Tape
Systems 22½ kcs ½" Tape Decks:
R2777

8/10/24/3 8293 165 x 120 mm: D.R. Tape Tester,

		with standing operator: R2560
8/10/24/4	8294	165 x 120 mm: D.R. Tape Tester, with operator sitting: R2561
8/10/24/5	8295	165 x 120 mm: DRICO Type '4' Tape Unit Cluster for ¼" Tape: R2702
8/10/24/6	8296	165 x 120 mm: Close-up of Deck 2 of DRICO Type '4' Tape Unit Cluster for ¼" Tape: R2704
8/10/25		Paper Tape Readers, Punches, and Verifiers.
8/10/25/1	8297	160 x 120 mm: 1500 Computer 1522 Paper Tape Reader: R2792
8/10/25/2	8298	160 x 120 mm: 1600 Computer 1625/1 Paper Tape Reader: R2794
8/10/25/3	8299	160 x 120 mm: 1600 Computer 1635/1 Paper Tape Reader/Punch: R2795
8/10/25/4	8300	160 x 120 mm: 1600 Computer 1626/1 Paper Tape Punch: R2800
8/10/25/5	8301	160 x 120 mm: 2601 Paper Tape Reader/Punch
8/10/25/6	8302	160 x 120 mm: 1020 Paper Tape Punch with operator: R2764
8/10/25/7	8303	160 x 120 mm: 1020 Paper Tape Punch - close-up: R2766
8/10/25/8	8304	160 x 120 mm: 1021 Paper Tape Verifier, with operator: R2767
8/10/25/9	8305	160 x 120 mm: Copy of 8/10/25/6, but labelled 1021 Paper Tape Verifier instead of 1020, and with the 'Verifier' crossed out and replaced by 'Punch': R2768
8/10/26		Tape to Card and Card to Tape Machines.
8/10/26/1	8306	160 x 120 mm: Type 1036 Tape Controlled Card Punch: R2364

8/10/26/2	8307	Apr 1962: 160 x 120 mm: Type 1039 Tape Controlled Card Punch: R2586
8/10/26/3	8308	Apr 1962: 160 x 120 mm: Type 1039 Tape Controlled Card Punch, with model: R2587
8/10/26/4	8309	Apr 1962: 160 x 120 mm: Type 1037 Card to Tape Converter: R2589
8/10/26/5	8310	Apr 1962: 160 x 120 mm: Type 1037 Card to Tape Converter - close-up: R2591
8/10/26/6	8311	Apr 1962: 160 x 120 mm: Type 1039 Tape Controlled Card Punch - (very similar to 8/10/26/2): R2596
8/10/26/7	8312	160 x 120 mm: Type 1036 Tape Controlled Card Punch, with model; mounted on light card
8/10/26/8	8313	Jun 1955: 160 x 120 mm: Type 1036 Tape Controlled Card Punch: R2132
8/10/26/9	8314	Jun 1955: 160 x 120 mm: Tape to Card Converter: R1260
8/10/26/10	8315	May 1957: 160 x 120 mm: Tape to Card Converter: R1267
8/10/26/11	8316	May 1957: 160 x 120 mm: Tape Controlled Card Punch: R1568
8/10/26/12	8317	May 1957: 160 x 120 mm: Tape Controlled Card Punch: R1569
8/10/26/13	8318	May 1957: 160 x 120 mm: Tape Controlled Card Punch, with model: R1570
8/10/26/14	8319	May 1957: 160 x 120 mm: Tape to Card Punch: R969
8/10/26/15	8320	May 1957: 160 x 120 mm: Tape to Card Punch: R970
8/10/26/16	8321	May 1957: 160 x 120 mm: Card to Tape Punch: R972
8/10/26/17	8322	May 1957: 160 x 120 mm: Card to

Tape Punch close-up: R974

8/10/26/18 8323 May 1957: 160 x 120 mm: Card to Tape Punch close-up, another view: R976

8/10/27

Gang Punches, 1930s/1940s.

8/10/27/1 8324 200 x 160 mm: BTM Gang Punch 1930s/40s: R362

8/10/27/2 8325 1946: 200 x 160 mm: Same photo as 8/10/27/1, but described as 517 Gang Punch with SCP Attachment: R362A

8/10/27/3 8326 200 x 160 mm: BTM Gang Punch 1930s/40s, without covers: R363

8/10/27/4 8327 Jul 1946: 200 x 160 mm: Same photo as 8/10/27/3, but described as 517 Gang Punch with SCP Attachment (Eng): R363A

8/10/27/5 8328 200 x 160 mm: BTM Gang Punch 1930s/40s, without covers: R364

8/10/27/6 8329 Jul 1946: 200 x 160 mm: Same photo as 8/10/27/5, but described as Gang Summary Punch with S.P. Attachment, showing Cam Contact Layout: R364A

8/10/28

Gang Punches, BTM type.

8/10/28/1 8330 Jan 1954: 160 x 120 mm: Gang Summary Punch, with model: R1022

8/10/28/2 8331 Oct 1954: 160 x 120 mm: Gang Summary Punch, with model: R1177

8/10/28/3 8332 Oct 1954: 160 x 120 mm: Gang Summary Punch assembly at Castlereagh: R46

8/10/28/4 8333 Jan 1958: 160 x 120 mm: Type 234 Gang Punch: R1661

8/10/28/5 8334 160 x 120 mm: Modified 234 Gang Punch and Control Unit for recording into Punch Cards: R2660

8/10/28/6	8335	160 x 120 mm: cf 8/10/23/5 The Control Unit which operates in conjunction with the Type 234 Gang Punch is used for recording into punched cards data available in the form of electrical impulses from a variety of equipment such as computers, data loggers, test gear, and monitoring machines: R2663
8/10/28/7	8336	Apr 1957: 160 x 120 mm: Type 238 Gang Punch: R1538
8/10/28/8	8337	160 x 120 mm: 235 Gang Punch: R2502
8/10/28/9	8338	Oct 1961: 160 x 120 mm: 235 Plug Panel: R2504
8/10/28/10	8339	160 x 120 mm: 235 Gang Punch Control Panel (or 'how not to insert a plugboard'): R2481
8/10/28/11	8340	160 x 120 mm: 235 Gang Punch Control Panel (or 'how not to insert a plugboard'): R2481
8/10/28/12	8341	160 x 120 mm: 235 Gang Punch Card Feed Stacker: R2482
8/10/28/13	8342	Apr 1953: 160 x 120 mm: Type 231 Gang Punch, close-up of interior: R940
8/10/28/14	8343	Apr 1953: 160 x 120 mm: British Gang Punch, close-up of card feed: R941
8/10/28/15	8344	Apr 1953: 160 x 120 mm: British Gang Punch, close-up of electronic components: R942
8/10/28/16	8345	Apr 1953: 160 x 120 mm: British Gang Punch, close-up of electronic components, another view: R943
8/10/28/17	8346	Sep 1954: 160 x 120 mm: 254 Gang Punch, with model
8/10/28/18	8347	160 x 120 mm: Mark Sensing

Operation - Operator marking a card: R285

8/10/29

Reproducer/Summary Card Punches, BTM type.

8/10/29/1	8348	1933/34: 200 x 155 mm: High Speed Reproducer.
8/10/29/2	8349	1930s/40s: 200 x 155 mm: Reproducer/Summary Card Punch, from rear
8/10/29/3	8350	1930s/40s: 200 x 155 mm: As 8/10/29/2, with some covers removed
8/10/29/4	8351	1930s/40s: 200 x 155 mm: Reproducer/Summary Card Punch, front oblique view
8/10/29/5	8352	1930s/40s: 200 x 155 mm: Reproducer/Summary Card Punch, rear oblique view, without covers
8/10/29/6	8354	1930s/40s: 200 x 155 mm: Similar to 8/10/29/4, but different machine
8/10/29/7	8355	1930s/40s: 200 x 155 mm: Reproducer/Summary Card Punch card feed, without covers
8/10/29/8	8356	1930s/40s: 200 x 155 mm: Reproducer/Summary Card Punch card feed, without covers - close-up
8/10/29/9	8357	1934: 200 x 155 mm: Plugboard of Multiplying Machine
8/10/29/10	8358	1934: 200 x 155 mm: Very similar to 8/10/29/9, with same caption on reverse "Plugboard of Multiplying Machine". On front is a label saying "Plugboard of High Speed Reproducer 1934"

8/10/30

Print Unit Attachments for 800 Series Tabulators.

8/10/30/1	8359	165 x 120 mm: Print Head of 852
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Tabulator

8/10/30/2	8360	165 x 120 mm: Printing on Sprocket-fed Paper
8/10/30/3	8361	165 x 120 mm: Printing Invoices
8/10/30/4	8362	165 x 120 mm: Printing Invoices - another view
8/10/30/5	8363	165 x 120 mm: Printing Invoices - another view
8/10/30/6	8364	165 x 120 mm: Blank fanfold paper, fed by only two sprocket holes per sheet
8/10/30/7	8365	165 x 120 mm: Blank fanfold paper, fed by only two sprocket holes per sheet
8/10/30/8	8366	165 x 120 mm: As 8/10/30/6, identified by "? Universal Tab Carriage"
8/10/30/9	8367	165 x 120 mm: Attachment for continuous sprocket-fed stationery
8/10/30/10	8368	165 x 120 mm: Copy of 8/10/30/9
8/10/30/11	8369	165 x 120 mm: Attachment for feeding separate sheets
8/10/30/12	8370	165 x 120 mm: Copy of 8/10/30/11
8/10/30/13	8371	165 x 120 mm: Printing on continuous sprocket-fed stationery
8/10/30/14	8372	165 x 120 mm: Copy of 8/10/30/13
8/10/30/15	8373	165 x 120 mm: Copy of 8/10/30/13
8/10/30/16	8374	165 x 120 mm: A different attachment for feeding separate sheets
8/10/30/17	8375	165 x 120 mm: Copy of 8/10/30/16
8/10/31		Hand Verifiers (BTM Type).
8/10/31/1	8376	Dec 53: 165 x 120 mm: Hand

Verifier Type? With operator, from above: R1014

8/10/31/2	8377	?1920s: 165 x 120 mm: 185 x 115 mm. Hand Verifier; BTM, but with round holes. When did BTM convert to the later slotted holes?: R319
8/10/31/3	8378	165 x 120 mm: 175 x 115 mm. Key Punch, wrongly labelled 'verifier'
8/10/31/4	8379	165 x 120 mm:
8/10/31/5	8380	165 x 120 mm: 38 col model 20 verifier: R3711
8/10/31/6	8381	165 x 120 mm: Verifier, with operator: R2362
8/10/31/7	8382	165 x 120 mm: Verifier: R2265
8/10/31/8	8383	165 x 120 mm: Type 103 Verifier: R1236
8/10/31/9	8384	165 x 120 mm: Type 103 (80 col) Hand Feed Verifier; mounted on light card

8/10/32

Auto Punches (BTM Type).

8/10/32/1	8385	1930s: 160 x 120 mm: Alphabetical Punch: R6006
8/10/32/2	8386	1930s: 160 x 120 mm: Alpha Printing Duplicating Punch: R243
8/10/32/3	8387	1930s: 160 x 120 mm: Automatic Duplicating Key Punch: R273
8/10/32/4	8388	Jun 1954: 160 x 120 mm: Keystor Punch: R1062
8/10/32/5	8389	160 x 120 mm: Keystor Punch - close-up of mechanism: R881
8/10/32/6	8390	160 x 120 mm: Keystor Punch, operator showing input document and card: R1025
8/10/32/7	8391	Jul 1954: 160 x 120 mm: 032 Keystor Punch, with operator:

R1105

8/10/32/8	8392	Jul 1954: 160 x 120 mm: 032 Keystor Punch, with operator, another view: R1106
8/10/32/9	8393	Jul 1954: 160 x 120 mm: 032 Keystor Punch, close-up of card in stacker end of card track: R1107
8/10/32/10	8394	Jul 1954: 160 x 120 mm: 032 Keystor Punch, close-up of card in feed end of card track: R1108
8/10/32/11	8395	Jul 1954: 160 x 120 mm: 032 Keystor Punch, close-up of timing wheel: R1109
8/10/32/12	8396	Jul 1954: 160 x 120 mm: 032 Keystor Punch, close-up of stacker(?): R1110
8/10/32/13	8397	Jul 1954: 160 x 120 mm: 032 Keystor Punch, close-up from above: R111
8/10/32/14	8398	Mar 1955: 160 x 120 mm: 032 Punch, from front and above: R1345
8/10/32/15	8499	Nov 1955: 160 x 120 mm: Type 29 Programme Board Punch: R1329
8/10/32/16	8400	Oct 1956: 160 x 120 mm: 31 Keystor Punch: R1462
8/10/32/17	8401	160 x 120 mm: Keystor Punch, operator's hand on keys: R2283
8/10/32/18	8402	160 x 120 mm: 029 Punch Control Panel: R2371
8/10/32/19	8403	160 x 120 mm: 36 Automatic Key Punch. "Cards to be duplicated can be inserted by hand": R2763
8/10/32/20	8404	160 x 120 mm: Castlereagh Keystor Punch. Worker's hands making some adjustment to components: R9574
8/10/32/21	8405	160 x 120 mm: Keystor Punch: R7421

8/10/32/22	8406	160 x 120 mm: Keystor Punch, with operator: R780
8/10/32/23	8407	160 x 120 mm: U.S. Type 031: R282
8/10/32/24	8408	1927: 160 x 120 mm: Duplicating Punch with automatic card ejector: R769
8/10/32/25	8409	160 x 120 mm: 032 Automatic Punch: R1228
8/10/32/26	8410	Feb 1955: 160 x 120 mm: Type 031 Keystor Punch: R1239
8/10/32/27	8411	Feb 1955: 160 x 120 mm: 032 Punch, from front and above: R1252
8/10/32/28	8412	Mar 1955: 160 x 120 mm: 032 Automatic Punch (Card feed and delivery): R1257
8/10/32/29	8413	160 x 120 mm: 29 Punch: R2122
8/10/32/30	8414	160 x 120 mm: 032 Punch: R224
8/10/32/31	8415	160 x 120 mm: Type 30 Punch, with operator: R2592
8/10/32/32	8416	160 x 120 mm: Close-up of Type 30 Keyboard. "Re-design of the alphabetic keysets gives a new look to ICT Automatic Key Punches. The new alphabetic keyboard for the 029 punch is finished in two matt colours and has fingertip hollowed keys for smooth operation. A cable link to the punching mechanism permits the placing of the separate keyset in the most comfortably position for the operator.": R2524
8/10/32/33	8417	160 x 120 mm: 66 Automatic Key Punch: R744
8/10/32/34	8418	160 x 120 mm: 67/68 Program Board Printing Punch: R2918
8/10/32/35	8419	160 x 120 mm: I.C.T. 80. 69 Punch with alpha-numeric typewriter

		keyboard: R2885
8/10/32/36	8420	Oct 1952: 160 x 120 mm: Band Punch: R927
8/10/32/37	8421	160 x 120 mm: Automatic Punch Type 29: R1989
8/10/32/38	8422	Dec 1956: 160 x 120 mm: Type 29 Punch: R1500
8/10/32/39	8423	160 x 120 mm: 036 Punch, with blonde model/operator
8/10/32/40	8424	Oct 1961: 160 x 120 mm: 030 Punch: R2561
8/10/32/41	8425	160 x 120 mm: Unidentified Punch: R2282
8/10/32/42	8426	160 x 120 mm: Unidentified Punch; very similar to 8/10/32/41, but a note on the back says "not the same": R206
8/10/32/43	8427	Aug 1961: 160 x 120 mm: Type 30 Punch : R2475
8/10/32/44	8428	Oct 1961: 160 x 120 mm: 030 Punch: R2499
8/10/32/45	8429	Oct 1961: 160 x 120 mm: 030 Punch, close-up: R2500
8/10/32/46	8430	Oct 1961: 160 x 120 mm: 030 Punch: R2501
8/10/32/47	8431	160 x 120 mm: Keystor Punch, showing cover of Control Panel open: R773
8/10/32/48	8432	160 x 120 mm: Keystor Punch, with operator's hands showing moveable keyset unit and connecting plug: R774
8/10/32/49	8433	160 x 120 mm: Keystor Punch: R775
8/10/32/50	8434	160 x 120 mm: Keystor Punch: R839
8/10/32/51	8435	Oct 1956: 160 x 120 mm: Type 031

		Keystor Punch, with operator: R467
8/10/32/52	8436	Oct 1956: 160 x 120 mm: Type 031 Keystor Punch: R1464
8/10/32/53	8437	Oct 1956: 160 x 120 mm: Type 031 Keystor Punch, showing cover of Control Panel open: R1465
8/10/32/54	8438	Oct 1956: 160 x 120 mm: Type 031 Keystor Punch, with operator's hands holding moveable keyset unit and connecting plug: R1466
8/10/32/55	8439	160 x 120 mm: Keystor Punch, card approaching stacker: R566
8/10/32/56	8440	160 x 120 mm: Copy of 8/10/32/39, mounted on light card (by someone who fancied the blonde?)
8/10/32/57	8441	c1968: 160 x 120 mm: Type 66/3 80 col Program Board Card Punch
8/10/32/58	8442	160 x 120 mm: Type 030 Punch: R2475
8/10/33		BTM Auto Punches, 1940s/50s.
8/10/33/1	8443	May 1947: 200 x 160 mm: BTM "Keystore" Storage Punch, 12th May 1947; from front: R380
8/10/33/2	8444	May 1947: 200 x 160 mm: BTM "Keystore" Storage Punch, 12th May 1947; from front and right: R379
8/10/33/3	8445	May 1947: 200 x 160 mm: BTM "Keystore" Storage Punch, 12th May 1947; copy of 8/10/33/2: R379
8/10/33/4	8446	Jul 1947: 200 x 160 mm: BTM Ducol Punch; from front and left: R381
8/10/33/5	8447	May 1947: 200 x 160 mm: BTM "Keystore" Storage Punch, 12th May 1947; cover open, looking down from above: R378
8/10/33/6	8448	200 x 160 mm: Unidentified Punch, from front. Photographer was from

Belfast, so presumably the punch was manufactured in Castlereagh: RF725

8/10/33/7	8449	200 x 160 mm: Unidentified Punch, from front and left: RF726
8/10/33/8	8450	200 x 160 mm: Unidentified Punch, from front and right: RF727
8/10/33/9	8451	c1954: 200 x 160 mm: 032 Auto Punch, with operator

8/10/34

BTM Auto Verifiers.

8/10/34/1	8452	Jul 1947: 160 x 120 mm: 195 x 160 mm. Ducol Verifier, from front and left
8/10/34/2	8453	Apr 1954: 160 x 120 mm: Programme Board Verifier Type 129: R1051
8/10/34/3	8454	Oct 1954: 160 x 120 mm: 129 Verifier with Alpha Keyboard, with operator: R1171
8/10/34/4	8455	160 x 120 mm: 129 Verifier, labelled 'I.C.T.'. Looking down on card track: R2375
8/10/34/5	8456	Feb 1955: 160 x 120 mm: 150 x 100 mm. 129 Verifier, from front: R1230
8/10/34/6	8457	160 x 120 mm: 129 Verifier, from front and left, with early form of 'I.C.T.' badge: R2126
8/10/34/7	8458	160 x 120 mm: ICT 80. 129 Verifier with alphanumeric typewriter keyboard: R2884
8/10/34/8	8459	Sep 1959: 160 x 120 mm: 129 Verifier, with operator: R1993
8/10/34/9	8460	160 x 120 mm: Programme Board Verifier 129: R791
8/10/34/10	8461	160 x 120 mm: 166 Verifier: R2970
8/10/34/11	8462	160 x 120 mm: 169 Verifier: R2967

8/10/34/12	8463	160 x 120 mm: 80 col; 64 Punch, 65 Verifier/Punch: R720
8/10/34/13	8464	160 x 120 mm: Programme Board Verifier, with operator: R781
8/10/34/14	8465	160 x 120 mm: Verifier; close-up of stacker end of card track: R778
8/10/34/15	8466	160 x 120 mm: Programme Board Verifier; looking down at operator's hands holding the moveable numeric keyset unit: R782
8/10/34/16	8467	160 x 120 mm: Copy of 8/10/34/15: R782
8/10/34/17	8468	160 x 120 mm: Copy of 8/10/34/15: R782

8/10/35

BTM Reproducers .

8/10/35/1	8469	1940s?: 165 x 120 mm: Comparing Reproducer Summary Card Punch: R292
8/10/35/2	8470	165 x 120 mm: Reproducer: R549
8/10/35/3	8471	165 x 120 mm: Reproducer Summary Card Punch: R779
8/10/35/4	8472	165 x 120 mm: Senior Rolling Total Tabulator with Reproducer Summary Card Punch: R853
8/10/35/5	8473	Feb 1955: 165 x 120 mm: Hollerith Reproducer: R1256
8/10/35/6	8474	Feb 1955: 165 x 120 mm: Copy of 8/10/35/5: R1256
8/10/35/7	8475	165 x 120 mm: Reproducer, with operator. "Probably new style covers before the Queen Anne style legs became obsolete.": R537
8/10/35/8	8476	165 x 120 mm: Reproducer Summary Card Punch, no covers; looking down on mechanism from above: R47
8/10/35/9	8477	165 x 120 mm: Reproducer Summary Card Punch: R181

8/10/35/10	8478	Sep 1959: 165 x 120 mm: 202 Reproducer, with pretty operator: R1991
8/10/35/11	8479	165 x 120 mm: Mark Sensing Reproducer, with operator: R1020
8/10/35/12	8480	165 x 120 mm: Mark Sensing Reproducer, with different operator: R526
8/10/35/13	8481	Feb 1955: 165 x 120 mm: Mark Sensing Reproducer: R1242
8/10/35/14	8482	Jun 1955: 165 x 120 mm: Mark Sensing Reproducer, with different operator: R1189
8/10/35/15	8483	Feb 1955: 165 x 120 mm: Mark Sensing Reproducer: R1227
8/10/35/16	8484	May 1957: 165 x 120 mm: Mark Sensing Reproducer, with elegant operator: R1577
8/10/35/17	8485	c1965: 165 x 120 mm: 203 Reproducer: R2494
8/10/35/18	8486	Oct 1961: 165 x 120 mm: 203 Reproducer, with operator: R2495
8/10/35/19	8487	165 x 120 mm: Reproducer Plugboard Panel: R547
8/10/35/20	8488	165 x 120 mm: 80 col 203 Reproducer Mark Sensing: R2584
8/10/35/21	8489	165 x 120 mm: 203 Mark Sensing Reproducer, with operator: R2110
8/10/35/22	8490	165 x 120 mm: End Printing Reproducer: R605
8/10/35/23	8491	165 x 120 mm: 203-208 Reproducer, with operator: R2113
8/10/35/24	8492	Sep 1959: 165 x 120 mm: End Printing Reproducer 206: R1983
8/10/35/25	8493	165 x 120 mm: Copy of 8/10/35/24, but now called End Printing

Reproducer 208: R2121

8/10/35/26	8494	May 1957: 165 x 120 mm: Type 202 Reproducer, no covers, end view: R1571
8/10/35/27	8495	May 1957: 165 x 120 mm: Type 202 Reproducer, no covers, back view: R1572
8/10/35/28	8496	May 1957: 165 x 120 mm: Type 203 Reproducer, no covers, front and right view. (Same m/c as /26 and /27, but type number corrected from 202 to 203): R1573
8/10/35/29	8497	Oct 1961: 165 x 120 mm: Copy of 8/10/35/18: R2495
8/10/35/30	8498	165 x 120 mm: 203 Reproducer with Mark Sensing: R2584
8/10/35/31	8499	165 x 120 mm: Copy of 8/10/35/30: R2584
8/10/35/32	8500	165 x 120 mm: Reproducer. Close-up of plugboard and column indicator, with tabs set on columns 14 to 18: R118

8/10/36

Details of assembly of 800 Series Tabulators.

8/10/36/1 - 7	8501 - 8507	165 x 120 mm: Counter Assembly and Test for 800 Series Tabulators
8/10/36/8-12	8508-8512	165 x 120 mm: Alpha Wheel and Print Unit Assembly
8/10/36/13- 17	8513-8517	165 x 120 mm: Brush Slide Assembly
8/10/36/18	8518	165 x 120 mm: Two girls assembling the Cable Loom
8/10/36/19- 20	8519-20	165 x 120 mm: Plugboard

8/10/37

Office Furniture for Storage of Punched Cards and Plugboards.

8/10/37/1	8521	Aug 1954: 165 x 120 mm: COLANGULAR Plugging Desk and Plug Wire Holder: R1125
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8/10/37/2	8522	165 x 120 mm: Plugging Desk: R1035
8/10/37/3	8523	Jun 1954: 165 x 120 mm: Table: R1034
8/10/37/4	8524	165 x 120 mm: COLANGULAR Desk Top and End Units, with demonstrator: R1044
8/10/37/5	8525	Jun 1954: 165 x 120 mm: Card Storage Cabinet (small). Doors open: R1033
8/10/37/6	8526	Jun 1954: 165 x 120 mm: Machine Room Locker with Card Storage Unit under: R1029
8/10/37/7	8527	Jun 1954: 165 x 120 mm: Pulling File and Cupboard (June), with demonstrator. (Perhaps 'June' is the demonstrator's name.): R1038
8/10/37/8	8528	Jun 1954: 165 x 120 mm: Posting Files (June), with demonstrator: R1032
8/10/37/9	8529	Nov 1957: 165 x 120 mm: COLANGULAR Control Panel Cabinet: R1621
8/10/37/10	8530	Jun 1954: 165 x 120 mm: Plugboard Container on Cupboard, with demonstrator: R1036
8/10/37/11	8531	Jun 1954: 165 x 120 mm: COLANGULAR Pulling File, with demonstrator: R1040
8/10/37/12	8532	165 x 120 mm: COLANGULAR Pulling File: R564
8/10/37/13	8533	Aug 1954: 165 x 120 mm: COLANGULAR Card Storage Unit: R1124
8/10/37/14	8534	Jun 1954: 165 x 120 mm: Big Cabinet (June), with demonstrator: R1041
8/10/37/15	8535	Jan 1957: 165 x 120 mm: COLANGULAR Card Cabinet: R1501
8/10/37/16	8536	Jun 1954: 165 x 120 mm: COLANGULAR

		Card Transport Trolley, with demonstrator: R1043
8/10/37/17	8537	Jun 1954: 165 x 120 mm: COLANGULAR Trolley: R1028
8/10/37/18	8538	Aug 1954: 165 x 120 mm: COLANGULAR Card Support: R1117
8/10/37/19	8539	Oct 1952: 165 x 120 mm: Tray with Guide Cards: R1243
8/10/37/20	8540	May 1958: 165 x 120 mm: Labour Costing Cards: R1757
8/10/37/21	8541	Aug 1954: 165 x 120 mm: COLANGULAR 38 col Card Tray: R1121
8/10/37/22	8542	165 x 120 mm: Tray of interpreted Stores Cards: R1744
8/10/37/23	8543	Nov 1957: 165 x 120 mm: COLANGULAR Control Panel Cabinet: R1620
8/10/38		Miscellaneous Equipment.
8/10/38/1	8544	165 x 120 mm: 8521 Optical Card Punch: R2674
8/10/38/2	8545	Mar 1963: 165 x 120 mm: 1000 Card-Controlled Typewriter: R2744
8/10/38/3	8546	165 x 120 mm: Special Projects Data Collection Equipment for British Aluminium - The Central Processor Unit: R2565
8/10/38/4	8547	165 x 120 mm: Special Projects Data Collection Equipment for British Aluminium - The Central Processor Unit: R2583
8/10/38/5	8548	165 x 120 mm: Special Projects Data Collection Equipment for British Aluminium - Card Output Unit and Central Processor Unit: R2564
8/10/38/6	8549	165 x 120 mm: Special Projects Data Collection Equipment for British Aluminium - Left : Card Output Units and Line Printer;

		Right: Central Processor Unit: R2565
8/10/38/7	8550	165 x 120 mm: Special Projects Data Collection Equipment for British Aluminium -Remote Control Unit: R2566
8/10/38/8	8551	165 x 120 mm: Special Projects Data Collection Equipment for British Aluminium - Card Output Units and Central Processor: R2581
8/10/38/9	8552	1965: 165 x 120 mm: 1020 Paper Tape Punch; 1021 Paper Tape Verifier. Also includes a reading mechanism and comparing device in the same frame: R2882
8/10/38/10	8553	165 x 120 mm: 7000 Series Data Links: R2955
8/10/38/11	8554	165 x 120 mm: Adding Amount (Check) Encoder (PF 208): R2836
8/10/38/12	8555	165 x 120 mm: 1830 Small Visual Display: R2846
8/10/38/13	8556	165 x 120 mm: 1830 Large Visual Display: R2847
8/10/38/14	8557	Jun 1955: 165 x 120 mm: Document Counter: R1262
8/10/38/15	8558	165 x 120 mm: Information panel about the 8521 Optical Card Punch at B.E.E. Olympia: R2680
8/10/39		PLASTAB Electronically Controlled Measuring, Weighing, Recording and Printing Equipment.
8/10/39/1	8559	Jun 1954: 165 x 120 mm: PLASTAB stand at Mechanical Handling Exhibition, Olympia June 1954: R1093
8/10/39/2	8560	Jun 1954: 165 x 120 mm: PLASTAB - Close-up of feed unit, fine feed in operation: R1094

8/10/39/3	8561	Jun 1954: 165 x 120 mm: PLASTAB - Close-up of feed unit, coarse feed in operation: R1095
8/10/39/4	8562	Jun 1954: 165 x 120 mm: PLASTAB - Typewriter Print Unit: R1096
8/10/39/5	8563	Jun 1954: 165 x 120 mm: PLASTAB - Counting and Printing Unit: R1097
8/10/39/6	8564	Jun 1954: 165 x 120 mm: PLASTAB - Counting and Printing Unit, with mirrors showing Dekatron Counters: R1098
8/10/39/7	8565	Oct 1955: 165 x 120 mm: PLASTAB Equipment: R1319
8/10/39/8	8566	Oct 1955: 165 x 120 mm: PLASTAB Equipment: R1325
8/10/39/9	8567	Oct 1955: 165 x 120 mm: PLASTAB Equipment: R1326
8/10/39/10	8568	Aug 1955: 165 x 120 mm: PLASTAB Sack Filler: R1308
8/10/39/11	8569	Aug 1955: 165 x 120 mm: PLASTAB Sack Filling Equipment: R1311
8/10/39/12	8570	Oct 1955: 165 x 120 mm: PLASTAB Equipment: R1316
8/10/40		BTM 700/707 Tabulators. Various sizes
8/10/40/1	8571	1935: 705 Vertical Tabulator Junior 3 Counter 45 Column (American): R364
8/10/40/2	8572	700 Tabulator: R195
8/10/40/3	8573	Dec 1953: Type 700 Tabulator (Balancer), with operator: R1058
8/10/40/4	8574	700 Tabulator: R396
8/10/40/5	8575	80 col 700 Tabulator, with good- looking demonstrator: R2182
8/10/40/6	8576	700 Tabulator Control Panel, with

		same demonstrator: R2181
8/10/40/7	8577	1957: 707 80 col Tabulator: R2184
8/10/40/8	8578	Balancing Tabulator Type 707, with same demonstrator
8/10/40/9	8579	Type 702 Tabulator (2 Counter Balancer), with different demonstrator: R1532
8/10/40/10	8580	Restyled Balancing Tabulator
8/10/40/11	8581	May 1971: 80 col Balancing Tabulator at Oxen Road, Luton, from front: R7940
8/10/40/12	8582	May 1971: 80 col Balancing Tabulator at Oxen Road, Luton, from rear: R7941
8/10/40/13	8583	May 1971: 80 col Balancing Tabulator - Plugboard before plugging: R7942
8/10/40/14	8584	May 1971: 80 col Balancing Tabulator - Plugboard after plugging: R7943
8/10/40/15	8585	May 1971: 80 col Balancing Tabulator - Counters: R7944
8/10/40/16	8586	May 1971: 80 col Balancing Tabulator - Feed Unit: R7955
8/10/41		Assemblies for Tabulators, 1930s/40s.
8/10/41/1	8587	Feb 1946: 210 x 160 mm: Tabulator Storage Device
8/10/41/2	8588	1934: 210 x 160 mm: Tools for the production of the Translator Assembly
8/10/41/3	8589	1934: 210 x 160 mm: Production of the Translator Assembly
8/10/41/4	8590	1934: 210 x 160 mm: Production of the Translator Assembly

8/10/41/5	8591	1934: 210 x 160 mm: Production of the Translator Assembly
8/10/41/6	8592	1934: 210 x 160 mm: Translator Assembly (Tabulator)
8/10/41/7	8593	1934: 210 x 160 mm: Assembly of Commutator Type Upper Counters for Tabulators
8/10/41/8	8594	1934: 210 x 160 mm: Alphabet Unit (Front)
8/10/41/9	8595	1934: 210 x 160 mm: Alphabet Unit (Front) Shewing Bevel Drive (Tabulator)
8/10/41/10	8596	1934: 210 x 160 mm: Rolling Total Printer and Lister
8/10/41/11	8597	1934: 210 x 160 mm: Rolling Total Printer and Lister
8/10/41/12	8598	1934: 210 x 160 mm: Rolling Total Printer and Lister
8/10/42		Examples of complete BTM Tabulators.
8/10/42/1	8599	Mar 1942: 210 x 160 mm: London North Eastern Railway Tabulator no 4321, right hand end: R311
8/10/42/2	8600	Mar 1942: 210 x 160 mm: London North Eastern Railway Tabulator no 4321, front, no covers: R310
8/10/42/3	8601	Mar 1942: 210 x 160 mm: London North Eastern Railway Tabulator no 4321, rear, no covers: R312
8/10/42/4	8602	Mar 1942: 210 x 160 mm: London North Eastern Railway Tabulator no 4321, front, with covers: R313
8/10/42/5	8603	Mar 1942: 210 x 160 mm: London North Eastern Railway Tabulator no 4321, from right and above, with covers: R314
8/10/42/6	8604	Mar 1940: 210 x 160 mm: 0020

		Tabulator Print Unit & Universal Carriage, no covers: R295
8/10/42/7	8605	Mar 1940: 210 x 160 mm: Tabulator Print Unit, from above, no covers: R296
8/10/42/8	8606	May 1943: 210 x 160 mm: Senior Rolling Total Tabulator for Bank of England: R331
8/10/42/9	8607	May 1943: 210 x 160 mm: Senior Rolling Total Tabulator for Bank of England, front, no covers: R330
8/10/42/10	8608	May 1943: 210 x 160 mm: Senior Rolling Total Tabulator for Bank of England, rear, no covers: R332
8/10/42/11	8609	May 1943: 210 x 160 mm: Senior Rolling Total Tabulator for Bank of England, detail from above of special upper counter for various currencies: R329
8/10/42/12	8610	May 1943: 210 x 160 mm: Senior Rolling Total Tabulator for Bank of England, detail from above of special upper counter for various currencies
8/10/42/13	8611	Oct 1943: 210 x 160 mm: Special Tabulator for R.A.F., front, no covers: R337
8/10/42/14	8612	Oct 1943: 210 x 160 mm: Special Tabulator for R.A.F., rear, no covers: R338
8/10/42/15	8613	Jan 1944: 210 x 160 mm: Dual Purpose Counter Machine for United Steel, rear, no covers
8/10/42/16	8614	Jan 1944: 210 x 160 mm: Dual Purpose Counter Machine for United Steel, close-up of counters
8/10/42/17	8615	May 1932: 210 x 160 mm: Total Printing Commutator Type Upper Counter as used in conjunction with Balance Card Punching & also Serial Number Control Counter

8/10/42/18	8616	Dec 1952: 210 x 160 mm: Senior Rolling Total Tabulator with Double Alpha: R1257
8/10/42/19	8617	May 1956: ?805 Tabulator: R1417
8/10/42/20	8618	Feb 1962: 852 Senior Tabulator, with demonstrator: R2545
8/10/42/21	8619	Dec 1953: Junior Rolling Total Tabulator, with demonstrator: R1008
8/10/42/22	8620	Apr 1954: Senior Rolling Total Tabulator: R1049
8/10/42/23	8621	Oct 1954: Senior Rolling Total Tabulator, with demonstrator. Note: Counters not visible, to prove that in future BTM tabulators were acceptable without them as in the later 900 series: R1175
8/10/42/24	8622	Dec 1953: Senior Tabulator with Gang Summary Punch, with demonstrator: R1016
8/10/42/25	8623	Dec 1953: Senior Rolling Total Tabulator, with demonstrator: R1006
8/10/42/26	8624	Feb 1962: 855 Junior Rolling Total Tabulator: R2542
8/10/43		Cosmic Radiation, Harwell Research Experiment at Culham Airfield 1955.
8/10/43/1	8625	Sep 1955: 165 x 120 mm: Exterior view of the Airfield Control Tower containing the installations used in connection with the above. In the foreground can be seen some of the cables leading from the counter units. On top of the mast is a thermometer for air temperature recording: R1420
8/10/43/2	8626	Sep 1955: 165 x 120 mm: In foreground, Hollerith Keystor

Punch. At rear, camera directed towards Post Office meters and clocks. Between there is a barograph adapted for automatic recording of air pressures: R1421

8/10/43/3 8627 Sep 1955: 165 x 120 mm: Geiger counter unit in box. The large geiger counters are the two long tubes on each side of the box; small geiger counter is at centre of box; remainder is electronic equipment: R1423

8/10/43/4 8628 Sep 1955: 165 x 120 mm: L to R: Hollerith Keystor Punch, Camera facing Post Office meters, and clocks showing solar and sidereal time: R1426

8/10/43/5 8629 Sep 1955: 165 x 120 mm: Close-up view of discriminator unit: R1427

8/10/43/6 8630 Sep 1955: 165 x 120 mm: L to R: Selecting circuit relays (two with covers off), batteries of thyratrons, and front of discriminator unit: R1428

8/10/43/7 8631 Sep 1955: 165 x 120 mm: Close-up of camera with lighting equipment, Post Office meters and clocks recording solar and sidereal time: R1429

8/10/43/8 8632 Sep 1955: 165 x 120 mm: Left foreground: in front of the camera, Post Office meters and ® boxes containing selecting circuit relays: R1430

8/10/43/9 8633 Sep 1955: 165 x 120 mm: L to R: Hollerith Keystor Punch, Camera facing Post Office meters, and clocks showing solar and sidereal time: R1432

8/10/43/10 8634 Sep 1955: 165 x 120 mm: General view of the installation: R1433

8/10/44

BTM Tabulators.

8/10/44/1	8635	1904: 160 x 120 mm: Hollerith Integrating Tabulator (Pin Box), introduced 1904
8/10/44/2	8636	1933: 160 x 120 mm: High Speed Listing Machine: R398
8/10/44/3	8637	Jan 1955: 160 x 120 mm: Early Hollerith Non-Prnting Tabulator Type 702 (No 2001): R1194
8/10/44/4	8638	160 x 120 mm: Subtracting Machine fitted with Automatic Bill Feed: R419
8/10/44/5	8639	Dec 1953: 160 x 120 mm: Junior Rolling Total Tabulator (with supplementary control panel), with demonstrator: R1059
8/10/44/6	8640	Oct 1954: 160 x 120 mm: 901 Tabulator: R1165
8/10/44/7	8641	Jul 1954: 160 x 120 mm: 901 Tabulator, without covers: R1085
8/10/44/8	8642	Jul 1954: 160 x 120 mm: 901 Tabulator, without covers; rear view showing array of counter units: R1086
8/10/44/9	8643	Jul 1954: 160 x 120 mm: 901 Tabulator, without covers; switch panel detail and signal lights: R1087
8/10/44/10	8644	Jul 1954: 160 x 120 mm: 901 Tabulator, without covers; card track with cover lifted: R1089
8/10/44/11	8645	Jul 1954: 160 x 120 mm: 901 Tabulator, without covers; detail of print unit?: R1090
8/10/44/12	8646	Jul 1954: 160 x 120 mm: 901 Tabulator, without covers; further detail: R1091
8/10/44/13	8647	May 1956: 160 x 120 mm: 805 Tabulator: R1417

8/10/44/14	8648	160 x 120 mm: Type 852 80 col Senior Tabulator Control Panel: R2531
8/10/44/15	8649	160 x 120 mm: Type 855 Junior Tabulator: R2514
8/10/44/16	8650	160 x 120 mm: Type 852 80 col Senior Tabulator: R2533
8/10/44/17	8651	Feb 1962: 160 x 120 mm: 852 Tabulator Print Head: R2546
8/10/44/18	8652	160 x 120 mm: 915 Tabulator: R2360
8/10/44/19	8653	160 x 120 mm: 902 Tabulator: R2176
8/10/44/20	8654	1961: 160 x 120 mm: 902 Tabulator Print Head: R2177
8/10/44/21	8655	160 x 120 mm: Tabulator Universal Carriage: R1790
8/10/44/22	8656	May 1958: 160 x 120 mm: 901 Tabulator Control Panel: R1714
8/10/44/23	8657	Feb 1955: 160 x 120 mm: Senior Tabulator linked to Reproducer/Summary Card Punch: R1232
8/10/44/24	8658	Feb 1955: 160 x 120 mm: Ledger Posting Device: R1246
8/10/44/25	8659	Feb 1955: 160 x 120 mm: Universal Tabulator Carriage: R1247
8/10/44/26	8660	Feb 1955: 160 x 120 mm: Universal Carriage Brush Control Statement Feature: R1248
8/10/44/27	8661	160 x 120 mm: Plugging a Tabulator Control Panel: R1941/2
8/10/44/28	8662	160 x 120 mm: Inserting a pre- plugged Control Panel: R1941/11
8/10/44/29	8663	160 x 120 mm: Operator doing something to Tabulator print bars: R1941/5

8/10/44/30	8664	160 x 120 mm: Close-up of Tabulator Card Feed, no covers: R230
8/10/44/31	8665	160 x 120 mm: Subtracting Machine Doncaster - Paper Feed: R383
8/10/44/32	8666	160 x 120 mm: Three Tabulator Control Panels with plugs: R471
8/10/44/33	8667	160 x 120 mm: Operator inserting the third Control Panel: R406
8/10/44/34	8668	160 x 120 mm: 902 - 906 Control Panels, one in situ, one opened: R2355
8/10/44/35	8669	160 x 120 mm: Operator plugging a 901 Control Panel: R1539
8/10/44/36	8670	160 x 120 mm: Printing Head of a 915 Tabulator: R2362
8/10/44/37	8671	160 x 120 mm: Plug Panel of a 915 Tabulator: R2363
8/10/44/38	8672	160 x 120 mm: Core Storage of 975 Tabulator: R2434
8/10/44/39	8673	160 x 120 mm: Core Storage of 975 Tabulator, opened up: R2435
8/10/44/40	8674	160 x 120 mm: Pull-out Printed Circuit on 975 Tabulator: R2436
8/10/44/41	8675	Jul 1961: 160 x 120 mm: 975 Tabulator Printing Head: R2440
8/10/44/42	8676	Jul 1961: 160 x 120 mm: 975 Tabulator Plug Panel: R2441
8/10/44/43	8677	Jul 1961: 160 x 120 mm: 975 Tabulator Control Panel: R2442
8/10/44/44	8678	160 x 120 mm: Switch Panel of unidentified Tabulator: R113
8/10/44/45	8679	160 x 120 mm: Close-up of Print Head Mechanism of unidentified Tabulator: R115

8/10/44/46	8680	160 x 120 mm: Tabulator Ledger Posting Device: R117
8/10/44/47	8681	160 x 120 mm: Tabulator Printout of Invoices: R116
8/10/44/48	8682	160 x 120 mm: Junior Rolling Total Tabulator Card Feed: R225
8/10/44/49	8683	160 x 120 mm: Junior Rolling Total Tabulator Print Unit: R236
8/10/44/50	8684	160 x 120 mm: Junior Rolling Total Tabulator Counters: R231
8/10/44/51	8685	160 x 120 mm: Tabulator Card Feed, Brush Slides and Contact Rolls: R473
8/10/44/52	8686	160 x 120 mm: Junior Rolling Total Tabulator Card Feed and Brush Slides: R227
8/10/44/53	8687	160 x 120 mm: Senior Rolling Total Tabulator: R532
8/10/44/54	8689	160 x 120 mm: Junior Rolling Total Tabulator connected to Summary Card Punch: R525
8/10/44/55	8690	160 x 120 mm: Junior Rolling Total Tabulator: R464
8/10/44/56	8691	Jul 1931: 160 x 120 mm: Checking Machine 0310: R426
8/10/44/57	8692	160 x 120 mm: Senior Rolling Total Tabulator: R402
8/10/44/58	8693	160 x 120 mm: Junior Rolling Total Tabulator: R201
8/10/44/59	8694	160 x 120 mm: Junior Rolling Total Tabulator Auxiliary Plugboard: R529
8/10/44/60	8695	160 x 120 mm: Type 805 Tabulator: R399

8/10/45

DATASEND.

8/10/45/1	8696	<p>160 x 115 mm: The first installation of I.C.T. DATASEND, a new data transmission, collection and distribution system, issues assembly instructions for the Hillman IMP car in the new Linwood factory of Rootes (Scotland) Ltd. Datasend, which offers exciting new possibilities in the rapid dissemination of processed data, comprises a punched card input reader, a central control for routing instructions read from the cards to any or all of a variety of receivers where information is either displayed or printed. Up to ten receivers at up to ten miles distance can be linked to one central control unit. Illustrated, left to right : (rear) numeric output printer; central control unit; card reader; typewriter output giving full alphabetic and numeric printing; (front) illuminated display receiver; process control unit; and an alternative display receiver: R2758</p>
8/10/45/2	8697	<p>160 x 115 mm: Datasend: the central unit and 80 col punched card input reader: R2759</p>
8/10/45/3	8698	<p>160 x 115 mm: Datasend; the Minor display unit: R2757</p>
8/10/45/4	8699	<p>160 x 115 mm: The I.C.T. Special Projects Datasend System. The typewriter output gives full alpha/numeric printing. The associated control equipment is housed within the cabinet: R2760</p>
8/10/45/5	8700	<p>160 x 115 mm: The I.C.T. Special Projects Datasend System. One type of output printer (numeric with limited alpha as required): R2761</p>
8/10/45/6	8701	<p>160 x 115 mm: Datasend. The major type display unit: R2756</p>

8/10/45/7	8702	160 x 115 mm: Datasend. Central equipment control panel: R2762
8/10/46		Miscellaneous Units.
8/10/46/1	8703	160 x 115 mm: Thin Film Matrix. G.E.C. Wembley: R2675
8/10/46/2	8704	160 x 115 mm: Thin Film Matrix testing at G.E.C. Wembley: R2676
8/10/46/3	8705	160 x 115 mm: Magnetic Film Evaporation Technique: R2677
8/10/46/4	8706	160 x 115 mm: Interrogated Typewriter: R2694
8/10/46/5	8707	160 x 115 mm: 8500 Interchangeable Control Panel: R2747
8/10/46/6	8708	160 x 115 mm: Remote Control Keyset: R2327
8/10/46/7	8709	160 x 115 mm: Thin Film Matrix Magnetic Storage: R2367
8/10/46/8	8710	160 x 115 mm: Optical Print Monitor: R3892
8/10/46/9	8711	160 x 115 mm: Test Probes used for research on fine wiring patterns for interconnection of integrated circuits
8/10/46/10	8712	160 x 115 mm: High Density Magnetic Recording Research: R2912
8/10/46/11	8713	160 x 115 mm: Using automatic probe apparatus to test fine wiring patterns in research into the interconnection of integrated circuits
8/10/46/12	8714	160 x 115 mm: The Hollerith Electronics Research Laboratories at Stevenage. Measuring pulse frequencies: R1633
8/10/46/13	8715	160 x 115 mm: Experimental Magnetic Core Storage Matrix: R1637

8/10/46/14	8716	160 x 115 mm: Close-up of part of experimental rig concerned with development of ferro-electric and Fermalloy storage devices: R1657
8/10/46/15	8717	160 x 115 mm: Remington Rand Synchronomatic Punch: R1694
8/10/46/16	8718	160 x 115 mm: Remington Rand Synchronomatic Typewriter: R1695
8/10/46/17	8719	160 x 115 mm: Thin film plate testing equipment, Stevenage: R2487
8/10/46/18	8720	160 x 115 mm: Thin film Storage loop testing at Stevenage: R2488
8/10/46/19	8721	160 x 115 mm: Type 7000 G.E.C. Data Link: R2858
8/10/46/20	8722	Jul 1952: 160 x 115 mm: Keyboard: R875
8/10/46/21	8723	Mar 1955: 160 x 115 mm: Typewriter Keyboard: R1254
8/10/46/22	8724	Nov 1958: 160 x 115 mm: High Speed Print Unit at Stevenage: R1802
8/10/46/23	8725	Nov 1958: 160 x 115 mm: Copy of 8/10/46/22: R1802
8/10/46/24	8726	Nov 1958: 160 x 115 mm: High Speed Print Unit at Stevenage: R1803
8/10/46/25	8727	160 x 115 mm: Remington Rand Typewriter coupled to a Card Punch
8/10/46/26	8728	160 x 115 mm: Test Probes used for research on fine wiring patterns for interconnection of integrated circuits: R2909
8/10/46/27	8729	160 x 115 mm: Vacuum apparatus used for research into the formation of fine wiring patterns for interconnection of integrated circuits
8/10/46/28	8730	160 x 115 mm: Example of an

		assembly with printed circuitry: R1806
8/10/46/29	8731	160 x 115 mm: Experimental Magnetic Core Storage Matrix: R1636
8/10/46/30	8732	160 x 115 mm: Close-up of part of experimental rig concerned with development of ferro-electric and Fermalloy storage devices: R1649
8/10/46/31	8733	May 1957: 160 x 115 mm: Back of Re-circulation set-up showing printed circuit: R1579
8/10/46/32	8734	160 x 115 mm: Transistor Adding Register - Laboratory experimental rig only: R1580
8/10/46/33	8735	May 1957: 160 x 115 mm: Re- circulation set-up - used in conjunction with "Flower Core Plate" shown on negative 10855-5 (which is not present): R1583
8/10/47		Punches and Verifiers.
8/10/47/1	8736	215 x 165 mm: Unidentified Punch or Verifier, numeric keyboard: R3775
8/10/47/2	8737	215 x 165 mm: Close-up of 8/10/47/1 showing cover of plugboard open: R3774
8/10/47/3	8738	215 x 165 mm: Mounted on 255 x 215 mm card, with protective cover. Unidentified Punch or Verifier with Alphanumeric keyboard: R5295
8/10/47/4	8739	Transparency. Same image as 8/10/47/3
8/10/47/5	8740	215 x 165 mm: Mounted on 255 x 215 mm card, with protective cover. Same unidentified Punch or Verifier with Alphanumeric keyboard as in 8/10/47/3 another view: R5296

8/10/47/6	8741	Transparency. Same image as 8/10/47/5
8/10/47/7	8742	Transparency. Close-up of same Punch or Verifier, showing cover of plugboard open.
8/10/48		8550 Adding Amount (Check) Encoder (Presumably 'Check' means 'Cheque')
8/10/48/1	8743	250 x 205 mm: Oblique view from front, right and above
8/10/48/2	8744	205 x 160 mm: Front view, showing National Provincial Bank cheques in the processing position
8/10/48/3	8745	205 x 160 mm: Oblique view from front, right and above
8/10/48/4	8746	205 x 160 mm: Oblique view from front, right and above, showing National Provincial Bank cheques in the processing position
8/10/49		7503
8/10/49/1	8747	215 x 160 mm: Colour print. Prototype 7503, built at STE04 circa 1972. Soft-centred terminal system with clustered video system. Up to 28 videos and 16 hard-copy printers. System used the first solid-state modules available in the UK. Firmware (TPE) was loaded from cassette tape. Included in the picture is the 2406/2407 service line printer similar to the version used as the dedicated printer on the 2903 system.
8/10/50		1550 Computer Prototype. (System not developed for Production/Sale)
8/10/50/1	8748	220 x 165 mm: 1550 at 5/5 Factory on 31/10/60? Processor
8/10/50/2	8749	220 x 165 mm: 1550 at 5/5 Factory on 31/10/60. Printer

8/10/50/3	8750	220 x 165 mm: 1550 at 5/5 Factory on 31/10/60? Console
8/10/50/4	8751	220 x 165 mm: 1550 at 5/5 Factory on 31/10/60. Unidentified unit
8/10/50/5	8752	220 x 165 mm: 1550 at 5/5 Factory on 31/10/60? Tape Deck

8/10/51

Reproducer Developments.

8/10/51/1	8753	215 x 165 mm: Complete Reproducer in restyled covers: R2211
8/10/51/2	8754	215 x 165 mm: End of Reproducer, showing drive motor and Queen Anne legs: R2995
8/10/51/3	8755	215 x 165 mm: Same machine as 8/10/51/1, no covers: R2169
8/10/51/4	8756	215 x 165 mm: Card track, drive gears, and electrical sensing components: R2166
8/10/51/5	8757	215 x 165 mm: End of Reproducer, no covers: R2163
8/10/51/6	8758	215 x 165 mm: Card Track end of Reproducer, no covers: R2168
8/10/51/7	8759	215 x 165 mm: Card Track drive motor and belt: R2167
8/10/51/8	8760	215 x 165 mm: Whole machine from rear, no covers: R2165
8/10/51/9	8761	215 x 165 mm: Rear of older Reproducer, no covers, Queen Anne legs: R2958
8/10/51/10	8762	215 x 165 mm: Detail of Card Track from rear: R2960
8/10/51/11	8763	215 x 165 mm: Complete old-style Reproducer with covers fitted: R2962
8/10/51/12	8764	215 x 165 mm: Close-up of Feed hopper and cams assembly: R2996

8/10/51/13	8765	215 x 165 mm: Complete old-style Reproducer with covers fitted, from rear: R2961
8/10/51/14	8766	215 x 165 mm: Front of older Reproducer, no covers: R2962A
8/10/51/15	8767	215 x 165 mm: Rear of Reproducer, no covers: R2164
8/10/51/16	8768	215 x 165 mm: Front of Card Track, no covers: R2959
8/10/51/17	8769	215 x 165 mm: Close-up of Card Track from above: R2956
8/10/51/18	8770	215 x 165 mm: Close-up of gear box: R2955
8/10/52		Powers UAKP Punches, restyled by ICT.
8/10/52/1	8771	175 x 170 mm: Type 63 Card Punch & Verifier, from front, left and above
8/10/52/2	8772	180 x 170 mm: Type 63 Card Punch & Verifier, from rear, right and above
8/10/52/3	8773	165 x 160 mm: Type 65 Card Punch & Verifier, from right front
8/10/53		Tabulator component.
8/10/54/1	8774	1950: 205 x 150 mm: Double Storage Device (Tabulator)
8/10/54		915 Tabulator components, 1959 - 1961.
8/10/54/1	8775	215 x 165 mm: 915 Print Unit Simulator Unit: R2475
8/10/54/2	8776	215 x 165 mm: Upper frontal view of 915 Print Unit Top Unit Assembly: R2366
8/10/54/3	8777	215 x 165 mm: Inverted view of 915 Print Unit Top Unit Assembly: R2365

8/10/54/4	8778	215 x 165 mm: General view of 915 Print Unit Skeleton and Upper Gear Box with single Clutch and Sector: R2369
8/10/54/5	8779	215 x 165 mm: Upper frontal view of 915 Print Unit Top Unit Assembly: R2366
8/10/54/6	8780	1959: 215 x 165 mm: 915 Tabulator Print Unit 10.9.1959: R2472
8/10/54/7	8781	215 x 165 mm: General View of 915 Print Unit Magnet Unit: R2367
8/10/54/8	8782	215 x 165 mm: 915 Print Unit Intermediate Gear Assembly, with locating rod in position: R2368
8/10/54/9	8783	215 x 165 mm: Front view of 915 Print Unit mounted on running-in rig: R2474
8/10/55		975 Tabulator details 17.12.1961.
8/10/55/1	8784	Dec 1961: 210 x 165 mm: No caption. Mounted on card: R30622
8/10/55/2	8785	Dec 1961: 210 x 165 mm: No caption. Mounted on card on reverse of 8/10/55/1: R30623
8/10/55/3	8786	Dec 1961: 210 x 165 mm: No caption. Mounted on card: R30624
8/10/55/4	8787	Dec 1961: 210 x 165 mm: No caption. Mounted on card on reverse of 8/10/55/3: R30625
8/10/55/5	8788	Dec 1961: 210 x 165 mm: No caption. Mounted on card: R30628
8/10/55/6	8789	Dec 1961: 210 x 165 mm: No caption. Mounted on card on reverse of 8/10/55/5: R30629
8/10/55/7	8790	Dec 1961: 210 x 165 mm: No caption. Mounted on card: R30630
8/10/55/8	8791	Dec 1961: 210 x 165 mm: No caption. Mounted on card on

reverse of 8/10/55/7: R30631

8/10/55/9 8792 Dec 1961: 210 x 165 mm: No caption. Mounted on card: R30632

8/10/56 7 assorted large photos

8/10/56/1 8793 305 x 255 mm: ICT Type 68 80 col Punch, left and rear, no covers: R3941

8/10/56/2 8794 305 x 255 mm: ICT Type 68 80 col Punch, right, no covers: R3942

8/10/56/3 8795 290 x 210 mm: ICT Type 68 80 col Punch, close-up of print head: R3943

8/10/56/4 8796 210 x 235 mm: ICT Type 68 80 col Punch, close-up of print head, rear: R3944

8/10/56/5 8797 275 x 235 mm: Unidentified Punch/Verifier, front & left, no covers

8/10/56/6 8798 300 x 240 mm: Unidentified Punch/Verifier, front & right, no covers

8/10/56/7 8799 330 x 235 mm: Unidentified Punch/Verifier. Close-up of card track, from below?

8/11 ELLIOTT 803, 903, 4100

4-ring Binder containing photos in transparent sleeves. The sleeves bear numbered labels 8/11/1 to 8/11/35. Photos within each sleeve are not individually labelled

NB: Elliott 803, 903, 4100. With explanation booklet and installation and cleaning details for the last [1 ring binder]

8/11/1 803

8/11/1 8800 210 x 165 mm: 803 complete installation

" 8801 210 x 140 mm: Complete installation with RAF operators

“	8802	250 x 195 mm: Young man operating console switches
8/11/2		803
8/11/2	8803	230 x 180 mm: 3 magnetic tape decks; mounted on card
“	8804	210 x 160 mm: Central processor cabinet; mounted on card
“	8805	210 x 160 mm: Central processor cabinet, doors open; mounted on card
8/11/3		803
8/11/3	8806	260 x 200 mm: Central processor cabinet, doors open. Partial enlargement of 8805. Mounted on card
8/11/4		803
8/11/4	8807	260 x 210 mm: Paper tape punch
“	8808	215 x 170 mm: Paper tape punch. Same as 8807. 2 copies
“	8809	255 x 205 mm: Paper tape reader
“	8810	215 x 170 mm Paper tape reader. Same as 8809. 2 copies
“	8811	205 x 130 mm: Central console. Mounted on card
8/11/5		803
8/11/5	8812	260 x 205 mm: Plug-in circuit board (power)
“	8813	255 x 200 mm Production at Borehamwood. Mounted on card
“	8814	210 x 155 mm: Production at Borehamwood. Same as 8813
8/11/6		903
8/11/6	8815	250 x 195 mm: 903 Processor, 9

		kc/s magnetic tapes, plotter, online teleprinter, and multiplexor. 2 copies
	" 8816	250 x 195 mm: 903 at National Physical Laboratory used online to an interferometer
8/11/7		903
8/11/7	8817	245 x 195 mm: 903 system at Borehamwood. 2 copies
	" 8818	1967: 245 x 195 mm: 903 kc/s magnetic tapes at Borehamwood. 1967. 2 copies
	" 8819	245 x 195 mm: 903 kc/s magnetic tapes at Borehamwood, with operator. 2 copies
	" 8820	245 x 195 mm: Close-up of controls and paper tape reader and paper tape punch
8/11/8		903
8/11/8	8821	250 x 195 mm: Teletype online - punching paper tape
	" 8822	250 x 195 mm: Teletype online - printing
	" 8823	250 x 195 mm: Close-up of 9 kc/s magnetic tape read/write head. 2 copies
8/11/9		903
8/11/9		260 x 200 mm: 7 diagrams with details of <ul style="list-style-type: none"> • the 903 basic typesetting system • the 903 comprehensive typesetting system
8/11/10		4100
8/11/10		A4: A section of the 4100 Manual (1967)

- Volume 3 : Installation and Operating Instructions
- Part 1 : Installation Information
- Section 1 : Installation and cleaning details

8/11/11

4100

8/11/11	8824	260 x 200 mm: Borehamwood Works - front view. 2 copies
"	8825	250 x 205 mm: Borehamwood Works - from the carpark

8/11/12

4100

8/11/12	8826	250 x 195 mm: Borehamwood Showroom; 4130 in foreground, 4120 in background
"	8827	250 x 195 mm: 4120 installation at Humphreys and Glasgow

8/11/13

4100

8/11/13		260 x 200 mm: Diagram - 4140/4150 Computer complex
"		260 x 200 mm: Diagram - Estimated national requirements for 4140/4150
"		260 x 200 mm: Diagram - 4140 internal organisation
"		260 x 200 mm: Diagram - 4150 internal organisation
"		260 x 200 mm: Diagram - comparative performances
"	8828	260 x 200 mm: Paper tape station, teletype control, 4100 central processor. 2 copies

8/11/14

4100

8/11/14	8829	240 x 205 mm: 4100 central processor (Probably the most
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boring picture in the collection).

"	8830	240 x 205 mm: 4100 central processor, doors open
8/11/15		4100
8/11/15	8831	260 x 205 mm: Back view of 4100 central processor, with engineer. 2 copies
"	8832	260 x 205 mm: 4100 central processor core store
8/11/16		4100
8/11/16	8833	240 x 190 mm: 4130 at Sussex University, with 2 operators. 2 copies
"	8834	240 x 190 mm: 4130 at Sussex University, with 2 operators, another view. 2 copies
"	8835	255 x 200 mm: 4100 control keyboard
"	8836	255 x 200 mm: 4100 control keyboard, another view
"	8837	255 x 200 mm: 4100 control box
8/11/17		
8/11/17	8838	250 x 200 mm: 4100 Teletype control unit
"	8839	250 x 200 mm: Friden Flexowriter
8/11/18		
8/11/18	8840	250 x 200 mm: 4100 Twin paper tape readers
"	8841	250 x 200 mm: 4100 Westrex paper tape punch
"	8842	250 x 200 mm: 4100 paper tape punch
"	8843	Feb 1967: 250 x 200 mm: 4100 paper tape punch - lubricating instructions

	"	8844	250 x 200 mm: 4100 1000 cps paper tape reader
	"	8845	1967: 250 x 200 mm: 903 paper tape reader
	"	8846	250 x 200 mm: Close-up of tape passing under read head. 2 copies
8/11/19			
8/11/19		8847	250 x 200 mm: 4100 card punch with operator. 2 copies
	"	8848	250 x 200 mm: 4100 card punch
	"	8849	250 x 200 mm: 4100 card reader with cards in hopper ready for input
	"	8850	250 x 200 mm: 4100 card reader with operator loading cards
	"	8851	Feb 1967: 250 x 200 mm: 4100 card reader, cover of card-track raised, Borehamwood. 2 copies
	"	8852	250 x 200 mm: 4100 card reader. Close-up of read mechanism. 4 copies
8/11/20			
8/11/20		8853	250 x 200 mm: 4100 six magnetic tape decks and controller. 2 copies
	"	8854	Jun 1967: 250 x 200 mm: 4100 three disc units at Borehamwood. 2 copies
	"	8855	250 x 200 mm: 4100 three disc units with operator lifiting disc pack
8/11/21			
8/11/21		8856	250 x 200 mm: 4100 close-up of disc pack mounted on unit. 3 copies
	"	8857	250 x 200 mm: 4100 printer. Four 120 x 100 mm images on one print

8/11/22			
8/11/22	8858		1967: 250 x 200 mm: Anelex 1250 lpm line printer. Borehamwood
	"	8859	250 x 200 mm: Control panel on the 4100 line printer
8/11/23			
8/11/23	8860		250 x 200 mm: Series V line printer
	"	8861	250 x 200 mm: Series V line printer with close-up of paper
8/11/24			
8/11/24	8862		250 x 200 mm: 4100 - 4257 line printer, rear view
	"	8863	250 x 200 mm: 4100 - Display of words on CRT screen
8/11/25			
8/11/25	8864		250 x 200 mm: 4100 CRT display unit - display of words. 2 copies.
	"	8865	250 x 200 mm: 4100 graphical display unit with operator holding light pen
8/11/26			
8/11/26	8866		1967: 250 x 200 mm: 4100 - Stand at Business Efficiency Exhibition 1967, showing central processor, paper tape reader, digital plotter, control typewriter and graphical display system
	"	8867	250 x 200 mm: 4100 graphical display system and light pen
	"	8868	250 x 200 mm: 4100 graphical display system and light pen with operator
	"	8869	250 x 200 mm: 4100 graphical display system and light pen with different operator
	"	8870	150 x 115 mm: Computer aided design: the graphical display unit being used for cost and quantity

analysis linked to a 4100
computer; with operator

8/11/27

8/11/27 8871 250 x 200 mm: 4100 CRT display and
plotter, both showing pipework
layout, with operator

" 8872 250 x 200 mm: 4100 close-up of CRT
- design by Millhead Engineering
Co

" 8873 250 x 200 mm: 4100 close-up of CRT
- design by Millhead Engineering
Co, another view

8/11/27

8/11/27 8874 250 x 200 mm: Dishy girl (long
hair, long legs, short skirt) on
telephone with data transmitter

" 8875 250 x 200 mm: Man on telephone
with data receiver

8/11/28

8/11/28 8876 250 x 200 mm: 4100 remote
consoles. 2 copies

" 8877 250 x 200 mm: 4100 remote access
via public telephone network, with
operator

8/11/29

8/11/29 8878 250 x 200 mm: 4100 digital
plotter, with operator

" 8879 250 x 200 mm: 4100 digital
plotter, with different operator

" 8880 250 x 200 mm: 4100 digital
plotter, man looking at drawing of
suspension bridge

" 8881 250 x 200 mm: 4100 digital
plotter, man looking at pipework
layout

" 8882 250 x 200 mm: 4100 digital
plotter, map of UK overprinted
with clusters of symbols

	"	8883	250 x 200 mm: Teaching machine
8/11/30			
8/11/30		8884	250 x 200 mm: Man looking at examples of computer typesetting. 2 copies
	"	8885	250 x 200 mm: Elliott 4130 at Edinburgh University Department of Machine Intelligence and Perception
8/11/31			
8/11/31		8886	250 x 200 mm: Elliott 4130 at Edinburgh University Department of Machine Intelligence and Perception. Girl at microphone
	"	8887	250 x 200 mm: 4100. Racal adopts computer graphics printed circuit board design. Man looking at PCB withdrawn from 4100 rack. 2 copies
8/11/32			
8/11/32		8888	Feb 1967: 250 x 200 mm: 4100 circuit boards. 2 copies
	"	8889	205 x 150 mm: 4100 logic board, side 1
	"	8890	205 x 150 mm: 4100 logic board, side 2
8/11/33			
8/11/33		8891	Feb 1967: 250 x 200 mm: 4100 store modules. Borehamwood. 2 copies
	"	8892	250 x 200 mm: 4100 standard electrical interface
8/11/34			
8/11/34		8893	250 x 200 mm: 4100 close-up of disc pack read heads. 2 copies
	"	8894	250 x 200 mm: 4100 processor. Doors open showing
8/11/35			
8/11/35			Jan 1969: A4: Brochure - P323. ICL 4100 Graphical Display System

8/12

FERRANTI PERSEUS and ORION

8/12

4-ring Binder containing photos in transparent sleeves. The sleeves bear numbered labels 8/12/1 to 8/12/55. Photos within each sleeve are not individually labelled

NB: Ferranti/ICT Perseus, Orion. With explanatory booklets for both [1 ring binder]

8/12/1

8/12/1

A4: Brochure - FERRANTI PERSEUS
Data-Processing System

8/12/2

8/12/2

8895

210 x 160 mm: Front view of
Perseus at Bracknell

"

8896

210 x 160 mm: Front view of
Perseus at Bracknell - close-up

"

8897

14.1.1958: 210 x 160 mm: Perseus
for Trygg Sweden at Lily Hill,
with two engineers.

"

8898

210 x 160 mm: Power Supply bay for
Perseus for Trygg Sweden

8/12/3

8/12/3

8899

210 x 145 mm: Back wiring of CPU
of Perseus for Trygg, Sweden

"

8900

210 x 145 mm: Perseus under
construction at West Gorton

"

8901

210 x 145 mm: Perseus for Samlas
S.A. under construction at West
Gorton

8/12/4

8/12/4

8902

24 Feb 1956: 210 x 150 mm: Card
Punch Type 582 for Ferranti, no
covers.

"

8903

Nov 1957: 210 x 150 mm: Card Punch
Type 582 for Ferranti, rear view,
no covers.

" 8904 Nov 1957: 210 x 150 mm: Card Punch Type 582 for Ferranti, rear view, covers on, doors open.

" 8905 Nov 1957: 210 x 150 mm: Card Punch Type 582 for Ferranti, front view, covers on, doors open.

8/12/5

8/12/5 8906 Nov 1957: 210 x 150 mm: Type 581 Card Reader and 582 Card Punch for Ferranti (probably for Perseus)

" 8907 160 x 120 mm: Type 581 Card Reader

" 8908 160 x 120 mm: Type 582 Card Punch

" 8909 160 x 120 mm: Perseus power supply unit

" 8910 160 x 120 mm: Perseus power supply unit, another view

8/12/6

8/12/6 8911 160 x 110 mm: Dual switching unit for 2 PSUs

" 8912 160 x 110 mm: End terminal block

" 8913 130 x 95 mm: Alternator and refrigeration compressor room

" 8914 160 x 110 mm: Motor alternator

8/12/7

8/12/7 8915 160 x 110 mm: Refrigeration unit - detail

" 8916 160 x 110 mm: Refrigeration unit - detail, another view

" 8917 160 x 110 mm: Liquid receiver, refrigeration system

" 8918 160 x 110 mm: Motor

8/12/8

8/12/8	8919	160 x 110 mm: Vertical cylindrical tank - refrigeration system?
"	8920	105 x 100 mm: Perseus at Datacentralen Stockholm: The first purpose-built building for computer use in the world
"	8921	140 x 100 mm: The completed installation
8/12/9		
8/12/9	8922	145 x 110 mm: Perseus at Datacentralen, Stockholm. Unloading by crane
"	8923	145 x 110 mm: Perseus at Datacentralen, Stockholm. Unloading by crane, another view
"	8924	145 x 110 mm: Perseus at Datacentralen, Stockholm. Unloading by crane, another view
"	8925	145 x 110 mm: Perseus at Datacentralen, Stockholm. Unloading by crane, another view
8/12/10		
8/12/10	8926	145 x 110 mm: Perseus at Datacentralen, Stockholm. Unloading by crane, another view
"	8927	145 x 110 mm: Perseus at Datacentralen, Stockholm. Unloading by crane, another view
"	8928	145 x 110 mm: Perseus at Datacentralen, Stockholm. Unpacking the crates
"	8929	145 x 110 mm: Perseus at Datacentralen, Stockholm. Unpacking the crates
8/12/11		
8/12/11	8930	140 x 100 mm: Perseus at Datacentralen, Stockholm. Examining the tape decks.
"	8931	140 x 100 mm: Perseus at Datacentralen, Stockholm.

		Examining a PCB at the CPU
"	8932	140 x 100 mm: Perseus at Datacentralen, Stockholm. Moving a tape deck
"	8933	140 x 100 mm: Perseus at Datacentralen, Stockholm. Examining a tape deck
8/12/12		
8/12/12	8934	140 x 100 mm: Perseus at Datacentralen, Stockholm. Fitter showing detail to Datacentralen Managing Director Schang
"	8935	140 x 100 mm: Perseus at Datacentralen, Stockholm. Fitter showing detail to Datacentralen Managing Director Schang. Another view
"	8936	140 x 100 mm: Perseus at Datacentralen, Stockholm. Fitters checking cable runs
8/12/13		
8/12/13		Perseus for Old Mutual Insurance, Cape Town
"	8937	140 x 100 mm: Perseus CPU at West Gorton
"	8938	140 x 100 mm: Perseus CPU at West Gorton. Another view
"	8939	140 x 100 mm: Perseus Power Supply Cubicle
"	8940	140 x 110 mm: Perseus Starter
8/12/14		
8/12/14	8941	205 x 155 mm: Perseus Card Reader. Front view with covers.
"	8942	205 x 155 mm: Perseus Card Reader. Front view with operator.

8/12/15

8/12/15	8943	205 x 155 mm: Perseus Card Reader. Front view. Doors open.
"	8944	205 x 155 mm: Perseus Card Reader. Front view. No covers.

8/12/16

8/12/16	8945	205 x 155 mm: Perseus Card Reader. Component detail.
"	8946	205 x 155 mm: Perseus Card Reader. Panel wiring, etc.

8/12/17

8/12/17	8947	205 x 155 mm: Perseus Card Reader control panel
"	8948	205 x 155 mm: Perseus Card Reader control panel wiring.

8/12/18

8/12/18	8949	205 x 155 mm: Perseus Card Reader, operator removing cards from stacker.
"	8950	205 x 155 mm: Perseus Card Reader, front view.

8/12/19

8/12/19	8951	205 x 155 mm: Perseus Card Reader, front view, no covers
"	8952	205 x 155 mm: Perseus Card Reader, rear view

8/12/20

8/12/20	8953	205 x 155 mm: Perseus Card Reader, rear view, no covers
"	8954	205 x 155 mm: Perseus Card Reader, rear of control panel

8/12/21

8/12/21	8955	205 x 155 mm: Perseus Card Reader, base, front view, no covers
"	8956	205 x 155 mm: Perseus Card Reader, detail of base
8/12/22		
8/12/22	8957	205 x 155 mm: Perseus Card Reader, detail of base, another view
"	8958	205 x 155 mm: Perseus Card Reader, head, front view, no covers
8/12/23		
8/12/23	8959	205 x 155 mm: Perseus Card Reader, head, rear view, no covers
"	8960	205 x 155 mm: Perseus Card Reader detail of head, no covers
8/12/24		
8/12/24	8961	205 x 155 mm: Test rig unit for Perseus valve units
"	8962	205 x 155 mm: Test rig unit for Perseus valve units, another view
8/12/25		
8/12/25	8963	205 x 155 mm: Test rig unit for Perseus valve units, detail
"	8964	205 x 155 mm: Test rig unit for Perseus valve units, detail, another view
8/12/26		
8/12/26	8965	205 x 155 mm: Test rig unit for Perseus valve units, detail, another view
"	8966	205 x 155 mm: Test rig unit for Perseus valve units, detail, another view
8/12/27		

8/12/27	8967	205 x 155 mm: Cossor Oscilloscope (1065) used for input tests (Perseus valve unit tests)
"	8968	205 x 155 mm: Oscilloscope traces 1-15 input tests (Perseus valve unit tests)
8/12/28		
8/12/28	8969	205 x 155 mm: Perseus Card Reader - relay panel
"	8970	205 x 155 mm: Perseus Card Reader - relay panel, another view
8/12/29		
8/12/29	8971	205 x 155 mm: Perseus Card Reader - Sensing box assembly, stage 1
"	8972	205 x 155 mm: Perseus Card Reader - Sensing box assembly, stage 1, another view
8/12/30		
8/12/30	8973	205 x 155 mm: Perseus Card Reader - Sensing box assembly, stage 1, close-up
"	8974	205 x 155 mm: Perseus Card Reader - Sensing box, 2nd assembly stage
8/12/31		
8/12/31	8975	205 x 155 mm: Perseus Card Reader - Sensing box, 2nd assembly stage
"	8976	205 x 155 mm: Perseus Card Reader - Sensing box, 3rd assembly stage
8/12/32		
8/12/32	8977	205 x 155 mm: Perseus Card Reader - Sensing box, 3rd assembly stage
"	8978	205 x 155 mm: Perseus Card Reader - Sensing box, 3rd assembly stage
8/12/33		

8/12/33	8979	205 x 155 mm: Perseus Card Reader - Sensing box complete
"	8980	205 x 155 mm: Perseus Card Reader complete, rear, no doors
"	8981	205 x 155 mm: Perseus Card Reader complete, front, no doors
8/12/34		
8/12/34		1963: A4: Brochure - Ferranti ORION Computer System
8/12/35		
8/12/35		1961: A4: ICT Computer Group Guide - The Ferranti ORION Computer. A competitive marketing comparison between ORION and the ICT 1301
"		1960: A4: Brochure - Ferranti ORION System
"		1961: 210 x 100 mm: Booklet - Input and Output Operations on ORION using Time Sharing
8/12/36		
8/12/36	8982	1962/63: 250 x 205 mm: ORION Master Schedule - a wall-chart showing the production programme for 14 ORION systems on order and under construction
"	8983	205 x 105 mm: Artist's impression of a completed ORION installation
8/12/37		
8/12/37	8984	210 x 160 mm: ORION - Peripheral commissioning area
"	8985	210 x 160 mm: ORION - Central Processor assembly at West Gorton
"	8986	170 x 120 mm: ORION - Operator testing units on the ORION production line
8/12/38		

8/12/38	8987	215 x 160 mm: Backwiring for ORION, showing copper-clad laminate
"	8988	215 x 160 mm: Section of ORION computer, showing packages and backwiring
8/12/39		
8/12/39	8989	215 x 160 mm: ORION - typical Neuron package - components side
"	8990	215 x 160 mm: ORION - typical Neuron package - wiring side
"	8991	215 x 160 mm: ORION computer - bus bar connections, general view
"	8992	160 x 110 mm: ORION - tape editing equipment
8/12/40		
8/12/40	8993	215 x 160 mm: ORION - Control desk, front view
"	8994	215 x 160 mm: ORION - Control desk, oblique front view
"	8995	215 x 160 mm: ORION - back of control desk
"	8996	215 x 160 mm: ORION - back of control desk, showing signal cables
8/12/41		
8/12/41	8997	215 x 160 mm: ORION - Anelex printer
"	8998	215 x 160 mm: ORION - Westrex paper tape punch
"	8999	215 x 160 mm: ORION - Power supply unit
"	9000	215 x 160 mm: ORION - Core store power supply unit

8/12/42

8/12/42	9001	215 x 160 mm: ORION - Burroughs magnetic tape decks
"	9002	215 x 160 mm: ORION - Six AMPEX magnetic tape decks. (Mounted on card)
"	9003	235 x 150 mm: ORION - Single AMPEX magnetic tape deck. (Mounted on card)

8/12/43

8/12/43	9004	140 x 95 mm: ORION 1-2 engineers with magnetic tape decks
"	9005	110 x 90 mm: ORION - base of magnetic tape unit
"	9006	115 x 80 mm: Gordon Groves, Manager of Environmental Engineering, checking interface cables for magnetic tape units
"	9007	210 x 155 mm: ORION - general view of processor showing Digitima clock

8/12/44

8/12/44	9008	210 x 155 mm: ORION - close-up of Bryans Digitima clock
"	9009	210 x 155 mm: The first ORION, for EPA Gothenburg (Turitz); engineers screwing packing-case shut
"	9010	210 x 155 mm: ORION - Packing cases for EPA Gothenburg being loaded by forklift onto flatbed truck

8/12/45

8/12/45	9011	210 x 155 mm: ORION for Gothenburg - Crates in despatch bay
"	9012	210 x 155 mm: ORION for Gothenburg - Crates on lorry

" 9013 245 x 140 mm: ORION for Gothenburg
- Crates being loaded into
freighter aircraft at Manchester
Airport

8/12/46

8/12/46 9014 115 x 90 mm: ORION in Gothenburg -
unpacking crates

" 9015 115 x 90 mm: ORION in Gothenburg -
installing Power Supply Unit in -
30 degrees C

" 9016 115 x 90 mm: ORION in Gothenburg -
unpacking crates

" 9017 115 x 90 mm: ORION in Gothenburg -
positioning and installing Power
Supply Unit

" 9018 115 x 90 mm: ORION in Gothenburg -
positioning and installing Power
Supply Unit

" 9019 115 x 90 mm: ORION in Gothenburg -
positioning and installing Power
Supply Unit

8/12/47

8/12/47 9020 115 x 90 mm: ORION in Gothenburg -
wheeling a unit into position

" 9021 115 x 90 mm: ORION in Gothenburg -
base of Power Supply Unit

" 9022 115 x 90 mm: ORION in Gothenburg -
Swedish fitter at base of Power
Supply Unit

" 9023 115 x 90 mm: ORION in Gothenburg -
Magnetic tape units

" 9024 115 x 90 mm: ORION in Gothenburg -
base of magnetic tape unit

" 9025 115 x 90 mm: ORION in Gothenburg -
Printer

8/12/48

8/12/48	9026	115 x 90 mm: ORION in Gothenburg - working on the processor
"	9027	115 x 90 mm: ORION in Gothenburg - working on the processor
"	9028	115 x 90 mm: ORION in Gothenburg - working on the processor
"	9029	115 x 90 mm: ORION in Gothenburg - working on the processor
"	9030	115 x 90 mm: ORION in Gothenburg - working on the processor
"	9031	115 x 90 mm: ORION in Gothenburg - working on the processor
"	9032	115 x 90 mm: ORION in Gothenburg - working on the processor

8/12/49

8/12/49	9033	135 x 90 mm: ORION in Gothenburg - false flooring
"	9034	135 x 90 mm: ORION in Gothenburg - false flooring
"	9035	115 x 90 mm: ORION in Gothenburg - underfloor power wiring boxes
"	9036	115 x 90 mm: ORION in Gothenburg - false flooring and cables
"	9037	115 x 90 mm: ORION in Gothenburg - false flooring and cables
"	9038	115 x 90 mm: ORION in Gothenburg - connecting up the Console

8/12/50

8/12/50	9039	115 x 90 mm: ORION in Gothenburg installed! - happy people round the console
"	9040	115 x 90 mm: ORION in Gothenburg installed! - happy people round the console

" 9041 115 x 90 mm: ORION in Gothenburg installed! - happy people round the console

" 9042 175 x 165 mm: Part of ICT ORION installation at London Computer Centre, Newman Street

8/12/51

8/12/51 9043 140 x 90 mm: ORION 1 for Rutherford High Energy Lab Harwell - in transit

" 9044 140 x 90 mm: ORION 1 for Rutherford High Energy Lab Harwell - in transit

" 9045 140 x 90 mm: ORION 1 for Rutherford High Energy Lab Harwell - in transit

" 9046 140 x 90 mm: ORION 1 for Rutherford High Energy Lab Harwell - arriving

" 9047 140 x 90 mm: ORION 1 for Rutherford High Energy Lab Harwell - being installed

" 9048 140 x 90 mm: ORION 1 for Rutherford High Energy Lab Harwell - being installed

8/12/52

8/12/52 9049 140 x 90 mm: ORION 1 for Rutherford High Energy Lab Harwell - being installed

" 9050 140 x 90 mm: ORION 1, Harwell - the Installation and Commissioning team

" 9051 140 x 90 mm: ORION 1, Harwell - the completed installation

" 9052 c1962: 140 x 90 mm: ORION 1, Prudential Assurance Co Ltd - false flooring

"	9053	140 x 90 mm: ORION 1, Prudential Assurance Co Ltd - false flooring
"	9054	140 x 90 mm: ORION 1, Prudential Assurance Co Ltd - false flooring
8/12/53		
8/12/53	9055	140 x 90 mm: ORION 1, Prudential Assurance Co Ltd - motor alternator
"	9056	140 x 90 mm: ORION 1, Prudential Assurance Co Ltd - dummy terminal boards
"	9057	140 x 90 mm: ORION 1, Prudential Assurance Co Ltd - motor alternator connections
"	9058	140 x 90 mm: ORION 1, Prudential Assurance Co Ltd - bare computer room
"	9059	140 x 90 mm: ORION 1, Prudential Assurance Co Ltd - computer room testing and air conditioning
"	9060	140 x 90 mm: ORION 1, Prudential Assurance Co Ltd - end of ORION 1
8/12/54		
8/12/54	9061	250 x 195 mm: Norwich Union - Magnetic tape decks for ICT ORION Computer
"	9062	255 x 200 mm: Norwich Union - ICT ORION Computer showing Central Processor with paper tape and magnetic tape equipment in the background
8/12/55		
8/12/55	9063	210 x 150 mm: ORION 2 - Bryant Drum
"		April 1973: A4: "The significance of ORION" - a paper by Gordon Scarrott

8/13

FERRANTI COMPUTERS

NB: Two 4-ring Binders (8/13/1 and 8/13/2) containing photos in transparent sleeves. The sleeves bear numbered labels 8/13/1/1 to 8/13/2/34. Photos within each sleeve are not individually labelled

8/13/1

FERRANTI Mark 1, ARGUS, SIRIUS, ATLAS

NB: Ferranti. Manchester University & Ferranti Mark 1

8/13/1/1

8/13/1/1

A4: Outline of the early Ferranti Computers

8/13/1/2

Ferranti and Manchester University Mark 1

8/13/1/2

9064

245 x 200 mm: Operator at control desk

"

9065

210 x 155 mm: 3 programmers around the control desk

"

9066

240 x 200 mm: Operator punching paper tape

8/13/1/3

Ferranti and Manchester University Mark 1

8/13/1/3

9067

210 x 155 mm: General view of the computer at Manchester University. 2 copies

"

9068

210 x 155 mm: One bay of computer, with covers, and control desk. 2 copies

"

9069

210 x 155 mm: Section of one bay, some doors open, and control desk

"

9070

210 x 155 mm: Operator at control desk showing control console and input/output equipment. 2 copies

8/13/1/4

Ferranti and Manchester University Mark 1

8/13/1/4	9071	210 x 155 mm: Close-up of multiplier section
"	9072	210 x 155 mm: Central processor: typical door with connections and a set of chassis assembled in the bay
"	9073	210 x 155 mm: Central processor: open door showing wiring arrangements
8/13/1/5		Ferranti and Manchester University Mark 1
8/13/1/5	9074	210 x 155 mm: Control desk with input/output equipment and chair
"	9075	210 x 155 mm: Power supply panel
"	9076	210 x 155 mm: Cathode ray storage tube
"	9077	210 x 155 mm: Cathode ray storage tube, amplifier, and shield
8/13/1/6		Ferranti and Manchester University Mark 1
8/13/1/6	9078	210 x 155 mm: Williams cathode ray tube store
"	9079	210 x 155 mm: Laboratory set-up for experimental magnetic drum
8/13/1/7		Ferranti and Manchester University Mark 1
8/13/1/7	9080	210 x 155 mm: Close-up of the magnetic recording drum and experimental head assembly
"	9081	210 x 155 mm: 1012 magnetic drum and head amplifiers
8/13/1/8		Ferranti and Manchester University Mark 1
8/13/1/8	9082	210 x 155 mm: Magnetic storage-drum in position. 2 copies

"	9083	210 x 155 mm: Magnetic recording heads as used with magnetic recording drum
"	9084	160 x 120 mm: Magnetic drum head
8/13/1/9		Ferranti and Manchester University Mark 1
8/13/1/9	9085	210 x 155 mm: Magnetic head, writing transformer, and insertion tool
"	9086	210 x 155 mm: The magnetic drum - 1012 components
"	9087	210 x 155 mm: Type head of Bull "line-at-a-time" printer
"	9088	140 x 100 mm: Storage pattern on c.r.t.
"	9089	140 x 100 mm: Another storage pattern on c.r.t.
8/13/1/10		Ferranti and Manchester University Mark 1
8/13/1/10	9090	210 x 155 mm: High speed tape reader, lamp housing closed
"	9091	210 x 155 mm: Close-up of head of high speed tape reader
"	9092	210 x 155 mm: High speed tape reader, lamp housing open
"	9093	210 x 155 mm: High speed tape reader, head exposed
8/13/1/11		ARGUS
8/13/1/11	9094	215 x 160 mm: <i>Negative</i> : Man standing by Argus 100 Process Control Computer
"	9095	215 x 160 mm: Argus computer and input/output equipment
8/13/1/12		ARGUS

8/13/1/12	9096	215 x 160 mm: Argus computer
"	9097	215 x 160 mm: Basic Argus computer, door open
"	9098	215 x 160 mm: Argus: typical package - general purpose NOR gate
8/13/1/13		ARGUS
8/13/1/13	9099	215 x 160 mm: Argus plug-in box with 36 packages
"	9100	215 x 160 mm: Argus plug-in box with 36 packages - a typical package
"	9101	215 x 160 mm: Argus typical storage tray 'peg board'
"	9102	215 x 160 mm: Argus close-up of typical storage tray 'peg board'
8/13/1/14		ARGUS
8/13/1/14	9103	215 x 160 mm: Argus close-up of typical storage tray 'peg board'
"	9104	255 x 205 mm: A typical Argus 500 configuration
"	9105	145 x 115 mm: <i>Negative</i> : Argus 300 Process Control Computer
8/13/1/15		SIRIUS
8/13/1/15		Spring 1960: 245 x 180 mm: "The SIRIUS Computer" - a 4-page reprint from The Ferranti Journal Vol 18 No 1
"		210 x 100 m: 10-page Computer System Profile No 4
8/13/1/16		SIRIUS
8/13/1/16		Jan 1961: 265 x 205 mm: 16-page brochure: "An introduction to the Ferranti SIRIUS Computer"
"		Jan 1961: 265 x 205 mm: 24-page

brochure: "The advantages of the Ferranti SIRIUS Computer"

8/13/1/17

SIRIUS

8/13/1/17 9106

210 x 135 mm: Ferranti Sirius computer and tape control equipment, with operator

" 9107

210 x 135 mm: Ferranti Sirius computer and tape control equipment

" 9108

210 x 135 mm: SIRIUS 1000 word computer, tape reader TR5 and Teletype punch

" 9109

180 x 130 mm: SIRIUS 1000 word computer, with 2 TR5 tape readers

8/13/1/18

SIRIUS

8/13/1/18 9110

180 x 130 mm: SIRIUS - back of processor, door open, showing 3000 word storage

" 9111

160 x 120 mm: SIRIUS control panel with operator at tape reader

" 9112

210 x 155 mm: SIRIUS control panel being linked with additional store unit

8/13/1/19

ATLAS

8/13/1/19

Dec 1962: A4: 20 page brochure "ATLAS"

"

Sep 1961: 210 x 100 mm: ATLAS Computer - No 1 in a series of Computer System Profiles

8/13/1/20

ATLAS

8/13/1/20

Aug 1963: A4: 24 page brochure "ATLAS 2"

"

Feb 1963: 210 x 100 mm: ATLAS 2 Computer - No 11 in a series of Computer System Profiles

8/13/1/21		ATLAS
8/13/1/21	9113	220 x 165 mm: ATLAS - General view, with engineer at wiring and operator at console
"	9114	220 x 165 mm: ATLAS Power supply unit
8/13/1/22		ATLAS
8/13/1/22	9115	220 x 165 mm: Ten Bay wiring shop
"	9116	220 x 165 mm: A general view of the assembly room
"	9117	210 x 155 mm: Atlas and Titan: Central computer for Harwell; Core-store co-ordinator and central computer for Cambridge
"	9118	180 x 135 mm: Atlas prototype central computer - unskinned
"	9119	180 x 135 mm: Atlas prototype central computer - unskinned, another view
8/13/1/23		ATLAS
8/13/1/23	9120	215 x 160 mm: Section of Atlas computer and design personnel
"	9121	175 x 130 mm: Atlas 4000 word fixed store showing mesh and boxes
"	9122	175 x 130 mm: Atlas 4000 word fixed store showing mesh and boxes, with fitter
"	9123	215 x 160 mm: Atlas design personnel holding components
"	9124	215 x 160 mm: Atlas designer setting a control by hand
8/13/1/24		ATLAS
8/13/1/24	9125	210 x 125 mm: A typical package
"	9126	205 x 155 mm: Section of Atlas

		with two design personnel
"	9127	155 x 115 mm: Atlas 1 commissioning
"	9128	155 x 115 mm: Atlas 1 commissioning
8/13/1/25		ATLAS
8/13/1/25	9129	205 x 155 mm: Manchester University Atlas D.C. Switching Panel. 3 copies
"	9130	205 x 155 mm: Manchester University Atlas Power Supply Unit. 2 copies
"	9131	205 x 155 mm: Manchester University Atlas Distribution Unit - Mercury switches and D.C. distribution. 2 copies
"	9132	205 x 155 mm: Manchester University Atlas Power Supply Unit - Filter Board (rear view). 2 copies
8/13/1/26		ATLAS
8/13/1/26	9133	205 x 155 mm: Manchester University Atlas power supply unit - rectifiers
"	9134	205 x 155 mm: Manchester University Atlas D.C. supplies - busbars and mercury switches. 2 copies
"	9135	205 x 155 mm: Manchester University Atlas Distribution Unit - incoming control wires, mercury switches and D.C. distribution. 2 copies
"	9136	205 x 155 mm: Manchester University Atlas - isolators in the switch room - source of unregulated A.C. supplies. 2 copies

8/13/1/27		ATLAS
8/13/1/27	9137	205 x 155 mm: Manchester University Atlas - Drum control unit. 2 copies
"	9138	205 x 155 mm: Manchester University Atlas - Standard electrical power distribution panel and electronic control console, air conditioning
"	9139	205 x 155 mm: Manchester University Atlas - battery room
"	9140	205 x 155 mm: Manchester University Atlas - Control bay - distribution unit with D.C. controls. 2 copies
8/13/1/28		ATLAS
8/13/1/28	9141	205 x 155 mm: View of the inside of the air conditioning/refrigeration control unit
"	9142	205 x 155 mm: Distribution boards in the power supply room. 2 copies
"	9143	205 x 155 mm: Main motor/alternator set. 2 copies
"	9144	205 x 155 mm: General view of the air conditioning/refrigeration installation and controls. 2 copies
8/13/1/29		ATLAS
8/13/1/29	9145	205 x 155 mm: Condenser and liquid reservoir. 2 copies
"	9146	205 x 155 mm: Starter for motor alternator set. 2 copies
8/13/1/30		ATLAS
8/13/1/30	9147	205 x 155 mm: Honeywell switches
"	9148	205 x 140 mm: Friden Flexowriter

		with auxiliary paper tape reader
"	9149	205 x 140 mm: Anelex printer
"	9150	205 x 140 mm: Creed 75 teleprinter
8/13/1/31		ATLAS
8/13/1/31	9151	205 x 145 mm: IBM 729 IV magnetic tape unit
"	9152	205 x 145 mm: Ampex TM2 tape deck
"	9153	205 x 145 mm: Teletype 110 paper tape punch
"	9154	205 x 145 mm: Atlas test trolley
8/13/1/32		ATLAS
8/13/1/32	9155	160 x 105 mm: ATLAS 2 in the Mathematical Laboratory, Cambridge
"	9156	165 x 120 mm: I.C.T. Atlas 2
"	9157	170 x 120 mm: The engineers' console which is used in setting up and testing the operation of the computer. 2 copies
"	9158	c1970s: 205 x 155 mm: General view of peripherals area with three operators
8/13/1/33		PLUTO
8/13/1/33	9159	Aug 1958: 205 x 155 mm: Processor and peripherals with operator at control desk
"	9160	Aug 1958: 205 x 155 mm: Processor and peripherals with operator at control desk, another view
8/13/1/34		PLUTO
8/13/1/34	9161	210 x 160 mm: Pluto on test, with magnetic tapes and punched card reader, with operator at control desk

"	9162	Aug 1958: 205 x 155 mm: Close-up of operator setting switches on the control panel
"	9163	May 1958: 175 x 150 mm: Auxiliary unit for magnetic tape printer - assembly stage
8/13/1/35		PLUTO
8/13/1/35	9164	May 1958: 175 x 150 mm: Auxiliary unit for magnetic tape printer - assembly stage, another view
"	9165	May 1958: 175 x 150 mm: SAMAS/Ferranti Pluto card reader - assembly stage
8/13/1/36		PLUTO
8/13/1/36	9166	May 1958: 175 x 150 mm: SAMAS/Ferranti Pluto card punch - assembly stage
"	9167	May 1958: 175 x 150 mm: SAMAS/Ferranti auxiliary to magnetic tape printer - assembly stage
8/13/1/37		PLUTO
8/13/1/37	9168	Jun 1958: 175 x 150 mm: SAMAS/Ferranti Pluto printer - assembly stage
"	9169	Jun 1958: 175 x 150 mm: Pluto punch - assembly stage
8/13/1/38		PLUTO
8/13/1/38	9170	Jun 1958: 175 x 150 mm: Pluto punch - assembly stage, another view
"	9171	Jun 1958: 175 x 150 mm: Pluto punch - assembly detail
8/13/1/39		PLUTO
8/13/1/39	9172	Jun 1958: 175 x 150 mm: Pluto punch - assembly detail, another

		view
	" 9173	1957: 175 x 150 mm: Powers Samas printer for Ferranti Pluto (Samastronic print-head)
8/13/1/40		
8/13/1/40	9174	Apr 1958: 175 x 150 mm: Matrix cathode follower unit for Pluto
8/13/2		FERRANTI MERCURY, PEGASUS and FP 6000 NB: Ferranti. Mercury, Pegasus I, Pegasus II, Packard 6000 (ICT 1900 Series). With explanatory booklets for Mercury & Pegasus [1 ring binder]
8/13/2/1		MERCURY
8/13/2/1		Apr 1956: Brochure - 'An Introduction to the Ferranti Mercury Computer'
	"	Aug 1956: Brochure - 'A Description of the Ferranti Mercury Computer with ancillary equipment'
8/13/2/2		MERCURY
8/13/2/2	9175	245 x 175 mm: Ferranti Mercury - artist's impression
	" 9176	195 x 145 mm: Mercury in Manchester University. 2 copies
	" 9177	195 x 145 mm: Drum trolleys at Manchester University. 2 copies
8/13/2/3		MERCURY
8/13/2/3	9178	c1957: 195 x 145 mm: Mercury at West Gorton factory. 2 copies
	" 9179	195 x 145 mm: Monitors and control panel. 2 copies
	" 9180	195 x 145 mm: Scope and trolley
8/13/2/4		MERCURY

8/13/2/4	9181	195 x 145 mm: Motor/alternator set. 2 copies
"	9182	195 x 145 mm: Compressor for cooling. 2 copies
"	9183	195 x 145 mm: Back of power supply units. 2 copies
"	9184	195 x 145 mm: Refrigeration compressor controls
8/13/2/5		MERCURY
8/13/2/5	9185	195 x 145 mm: Paper tape punch
"	9186	195 x 145 mm: Back of Star Delta starter
8/13/2/6		MERCURY
8/13/2/6	9187	195 x 145 mm: Star Delta starter
"	9188	205/155 mm: Mercury on test
"	9189	205/155 mm: Mercury on test, another view
8/13/2/7		MERCURY
8/13/2/7	9190	195 x 145 mm: Console, doors open
"	9191	195 x 145 mm: Console, doors open
"	9192	195 x 145 mm: Power supply unit with motor/alternator starter
"	9193	195 x 145 mm: Power supply unit with motor/alternator starter, another view
8/13/2/8		MERCURY
8/13/2/8	9194	195 x 145 mm: Power supply unit
"	9195	195 x 145 mm: Power supply unit, another view
"	9196	195 x 145 mm: Power supply unit cooling fan
8/13/2/9		MERCURY

8/13/2/9	9197	195 x 145 mm: Power supply unit
"	9198	195 x 145 mm: Alternator excitation controls
"	9198	195 x 145 mm: Condenser for Swiss Atomic Energy
"	9200	195 x 145 mm: Condenser for Swiss Atomic Energy, another view
8/13/2/10		MERCURY
8/13/2/10	9201	195 x 145 mm: Refrigerator condenser cooling for Swiss Atomic Energy. 2 copies
"	9202	195 x 145 mm: Drum. 2 copies
"	9203	195 x 145 mm: Connectors and meters
8/13/2/11		MERCURY
8/13/2/11	9204	195 x 145 mm: Drum - doors, open
"	9205	195 x 145 mm: Compressor motor. 2 copies
"	9206	195 x 145 mm: Cooling units under platform. 2 copies
8/13/2/12		MERCURY
8/13/2/12	9207	195 x 145 mm: Refrigeration fittings. 2 copies, 1 with captions
"	9208	195 x 145 mm: More refrigeration fittings. 3 copies, 2 with captions
"	9209	195 x 145 mm: Cooling units. 2 copies
"	9210	195 x 145 mm: Cooling units, another view. 2 copies
8/13/2/13		MERCURY
8/13/2/13	9211	195 x 145 mm: Refrigeration pot dryer. 2 copies

"	9212	195 x 145 mm: Refrigeration liquid receiver cooling equipment. 2 copies
"	9213	195 x 145 mm: Refrigeration compressor. 2 copies
"	9214	195 x 145 mm: Evaporating condenser unit
"	9215	190 x 120 mm: Evaporating condenser unit, close-up of ball-cock and sump
8/13/2/14		MERCURY
8/13/2/14	9216	190 x 135 mm: Mercury with scope designed for Mercury servicing
"	9217	210 x 130 mm: Inside wiring
"	9218	210 x 155 mm: Core store matrix block
"	9219	210 x 155 mm: Matrix core wired up
8/13/2/15		PEGASUS
8/13/2/15		Apr 1955: Brochure - 'Ferranti Pegasus Computer'
"		Aug 1957: Brochure - 'The Pegasus Data-Processing System for industry and commerce'
8/13/2/16		PEGASUS
8/13/2/16		Aug 1956: Brochure - 'An introduction to the Ferranti Pegasus Computer'
"		Undated: Brochure - 'Ferranti Pegasus Data-Processing System'
8/13/2/17		PEGASUS
8/13/2/17	9220	205 x 160 mm: General view of the Pegasus at Portland Place
"	9221	255 x 205 mm: Inside framework

8/13/2/18		PEGASUS
8/13/2/18	9222	210 x 155 mm: Transport trolley
"	9223	145 x 120 mm: Magnetic tape deck. 2 copies
"	9224	c1957: 190 x 145 mm: Power supply unit
8/13/2/19		PEGASUS
8/13/2/19	9225	190 x 140 mm: Terminal block, rear of processor, for power and control supplies
"	9226	190 x 140 mm: Power supply - in and out terminals
"	9227	190 x 140 mm: Power supply - power control terminals
"	9228	190 x 140 mm: Motor/alternator set
8/13/2/20		PEGASUS
8/13/2/20	9229	195 x 145 mm: Allen West motor/alternator starter
"	9230	195 x 145 mm: Allen West motor/alternator starter - internal view
"	9231	190 x 100 mm: Back of magnetic tapoe unit, showing refrigerative cooling
"	9232	195 x 145 mm: Paper tape punch, paper tape reader, and copier
8/13/2/21		PEGASUS
8/13/2/21	9233	210 x 160 mm: Control desk and input/output equipment
"	9234	210 x 160 mm: Control panel
"	9235	210 x 160 mm: Close-up of scopes on control panel
"	9236	210 x 160 mm: Paper tape reader,

spooler, and trough

8/13/2/22

PEGASUS

8/13/2/22 9237 210 x 160 mm: Output equipment - paper tape punch and printer
" 9238 210 x 160 mm: Drum
" 9239 210 x 160 mm: Package wiring and assembly

8/13/2/23

PEGASUS

8/13/2/23 9240 155 x 100 mm: Newman Street showroom before alterations
" 9241 155 x 100 mm: Newman Street showroom before Pegasus installation
" 9242 1957: 190 x 140 mm: Pegasus at West Gorton
" 9243 210 x 160 mm: Pegasus production line

8/13/2/24

PEGASUS

8/13/2/24 9244 160 x 120 mm: Power supply unit, card reader, card punch, magnetic tape unit and converter. 2 copies
" 9245 160 x 120 mm: Converter for use with card machines
" 9246 245 x 185 mm: Magnetic tape converter and 2 magnetic tape units at Portland Place. 2 copies

8/13/2/25

PEGASUS

8/13/2/25 9247 200 x 155 mm: System with programmer/operator at control desk. Mounted on card
" 9248 210 x 160 mm: Computer room at Ferranti Hollinwood
" 9249 200 x 160 mm: Unit in lift shaft at Babcock and Wilcox

8/13/2/26		PEGASUS
8/13/2/26	9250	1957: 200 x 160 mm: Pegasus Mk II under test at West Gorton, with operator. 2 copies
"	9251	1957: 200 x 160 mm: Pegasus Mk II under test at West Gorton, without operator. 4 copies
"	9252	1957: 200 x 160 mm: Pegasus Mk II for Newman Street on test at West Gorton, with operator. 2 copies
"	9253	1957: 200 x 160 mm: Pegasus Mk II for Newman Street on test at West Gorton, without operator. 3 copies
8/13/2/27		PEGASUS
8/13/2/27	9254	205 x 155 mm: Pegasus Mk II at Hollinwood, with 2 operators
"	9255	205 x 155 mm: Pegasus Mk II at Hollinwood, with 2 operators, another view
"	9256	205 x 155 mm: Pegasus Mk II at Hollinwood, with 1 operator
"	9257	205 x 155 mm: Pegasus Mk II at Hollinwood, with 1 operator, another view
8/13/2/28		PEGASUS
8/13/2/28	9258	200 x 135 mm: Pegasus system with 4 magnetic tape units
"	9259	210 x 160 mm: Pegasus system, with drum at left and PCB package array at right
"	9260	200 x 200 mm: The original Pegasus system back at West Gorton. A particularly well-lit shot of the control desk and input/output equipment
"	9261	1984: 200 x 200 mm: The original Pegasus system back at West

		Gorton, with Chris Burton at the Pegasus control desk and a girl operating a modern PC
"	9262	1984: 200 x 200 mm: The original Pegasus system back at West Gorton, with Chris Burton at the Pegasus control desk and a girl operating a modern PC, another view. 2 copies
8/13/2/29		PEGASUS
8/13/2/29	9263	200 x 165 mm: Pegasus at Portland Place, with 2 programmers at the control desk, 5 programmers working at tables, and Alan Bagshaw talking to another man
"	9264	195 x 140 mm: Lily Hill House, Bracknell
"		Tabulation: "25 years of computer engineering - a comparison", showing features of a 1959 Pegasus contrasted with those of a 1984 ICL Personal Computer. 4 copies in various sizes
8/13/2/30		FP 6000
8/13/2/30	9265	200 x 155 mm: Power supply unit(?) 2 copies
"	9266	200 x 155 mm: Mounted package - 1904
"	9267	200 x 155 mm: 1900 back wiring. 2 copies
8/13/2/31		FP 6000
8/13/2/31	9268	200 x 155 mm: 4 images on 1 print, showing forests of back wiring. 'Ferranti Packard 6000 - which became the 1900 system'
"	9269	200 x 155 mm: 5 images on 1 print, showing FP 6000/1904 under construction
8/13/2/32		FP 6000

8/13/2/32	9270	220 x 160 mm: Bryant drum store
"	9271	210 x 150 mm: Bryant discs and controller
"	9272	210 x 150 mm: Bryant discs and controller, doors open
8/13/2/33		FP 6000
8/13/2/33	9273	210 x 160 mm: Small Bryant drum
"	9274	210 x 160 mm: 1900 drum installed
"	9275	140 x 90 mm: The first 1900 - a 1904 installed at Northampton College of Advanced Technology, now City University of London. Power supply unit
"	9276	140 x 90 mm: The first 1900 - a 1904 installed at Northampton College of Advanced Technology, now City University of London. A general view
8/13/2/34		FP 6000
8/13/2/34	9277	140 x 90 mm: The first 1900 at City University
"	9278	140 x 90 mm: The first 1900 at City University, another view
"	9279	140 x 90 mm: The first 1900 at City University, another view
"	9280	140 x 90 mm: Paper tape units and trolleys
"	9281	140 x 90 mm: Printer
8/14		English Electric Computers/ICL. System 4 [1 ring binder] ENGLISH ELECTRIC / ICL COMPUTERS - KDF 9 AND SYSTEM 4

One 4-ring Binder containing photos in transparent sleeves. The sleeves bear numbered labels 8/14/1 to 8/14/50. Photos within each sleeve are not individually labelled. Many photos have associated

Press Release information stuck on the back

8/14/1		KDF 9
8/14/1	9282	Oct 1966: 250 x 195 mm: KDF 9 at Leeds University. Professors examining paper tape punch output
"	9283	c1967: 250 x 195 mm: KDF 9 at Kidsgrove. Digital plotter and line printer used on a Pipe-stressing application
"	9284	c1967: 250 x 195 mm: KDF 9 at Edinburgh Regional Computer Centre
"	9285	Sep 1967: 250 x 195 mm: KDF 9 at Kidsgrove Bureau
8/14/2		SYSTEM 4
8/14/2	9286	Jan 1968: 260 x 200 mm: System 4-50 at Midland Bank, Bootle. 2 copies
"	9287	Jan 1968: 260 x 200 mm: System 4-50 at Midland Bank, Bootle, another view
8/14/3		SYSTEM 4
8/14/3	9288	Jan 1968: 260 x 200 mm: System 4-50 at Midland Bank, Bootle, another view
"	9289	Feb 1968: 260 x 200 mm: System 4-30 at Leicester Corporation
8/14/4		SYSTEM 4
8/14/4	9290	Jan 1968: 260 x 200 mm: System 4-30 at Leicester Corporation
"	9291	1968: 255 x 160 mm: System 4-30 at Leicester Corporation
8/14/5		SYSTEM 4
8/14/5	9292	1968: 210 x 165 mm: System 4-30 at Leicester Corporation

	"	9293	1968: 260 x 200 mm: System 4-40: Model of a typical configuration
8/14/6			SYSTEM 4
8/14/6		9294	Mar 1968: 255 x 205 mm: <i>Photo badly faded</i> System 4-50 at Royal Melbourne Institute of Technology
	"	9295	Mar 1968: 220 x 205 mm: System 4- 50 for Royal Melbourne Institute of Technology being loaded onto transport plane at Manchester Airport
8/14/7			SYSTEM 4
8/14/7		9296	1968: 255 x 205 mm: System 4-50 at South African Bureau of Statistics, Pretoria. 2 copies
	"	9297	1968: 255 x 205 mm: System 4-40. 2 copies
8/14/8			SYSTEM 4
8/14/8		9298	1968: 255 x 205 mm: Central Switching Console for data communications complex
	"	9299	1968: 255 x 205 mm: System 4-70
8/14/9			SYSTEM 4
8/14/9		9300	205 x 160 mm: System 4-40 at Swiss Bank Corporation, City of London
	"	9301	205 x 160 mm: System 4-40 at Swiss Bank Corporation, City of London, another view
	"	9302	205 x 160 mm: System 4-40 at Swiss Bank Corporation, City of London, another view
8/14/10			SYSTEM 4
8/14/10		9303	c1968: 255 x 205 mm: <i>Colour print.</i> System 4-70 at Systems Programming Organisation, Kidsgrove

	"	9304	255 x 205 mm: <i>Colour print.</i> Another System 4 installation
8/14/11			SYSTEM 4
8/14/11		9305	Jul 1970: 255 x 205 mm: System 4-75 at Baric, Winsford for Interact 75 - Britain's first commercial multi-access computing service
	"	9306	c1966: 255 x 205 mm: Discs on a System 4 system
8/14/12			SYSTEM 4
8/14/12		9307	1969: 255 x 205 mm: Operator loading a disc pack on a System 4-50 at Turner and Newall, Manchester
	"	9308	200 x 165 mm: Smaller print of 9307
	"	9309	200 x 165 mm: Computer room at Turner and Newall, Manchester, from the viewing gallery
8/14/13			SYSTEM 4
8/14/13		9310	255 x 205 mm: System 4 with multiple tape decks
	"	9311	c1970: 255 x 205 mm: System 4-50 at DHSS Newcastle, with 1901 in background
	"	9312	200 x 165 mm: Smaller print of 9311
8/14/14			SYSTEM 4
8/14/14		9313	c1966: 255 x 205 mm: System 4-50 with operator at control desk. 2 copies
	"	9314	c1966: 255 x 205 mm: System 4-50 with operator at control desk, another view
	"	9315	c1966: 255 x 205 mm: System 4-50 with operator at control desk,

another view

8/14/15

SYSTEM 4

8/14/15	9316	c1967: 255 x 205 mm: System 4-70 under test at Kidsgrove
"	9317	c1967: 220 x 205 mm: Smaller print of 9316
"	9318	255 x 205 mm: System 4-70 under test at Kidsgrove, another view
"	9319	220 x 205 mm: Smaller print of 9318

8/14/16

SYSTEM 4

8/14/16	9320	1967: 260 x 205 mm: System 4-50 for South African Government
"	9321	260 x 205 mm: System 4-70 under test

8/14/17

SYSTEM 4

8/14/17	9322	Jun 1967: 260 x 205 mm: System 4-50 tape decks being installed at Constructors John Brown Ltd, London
"	9323	Jun 1967: 260 x 205 mm: System 4-50 processor and tape decks at Constructors John Brown Ltd, London

8/14/18

SYSTEM 4

8/14/18	9324	Jun 1967: 260 x 205 mm: System 4-50 at Constructors John Brown Ltd, operator at console
"	9325	Sep 1967: 260 x 205 mm: System 4-50 at Constructors John Brown Ltd, operator at card reader

8/14/19

SYSTEM 4

8/14/19	9326	c1967: 260 x 205 mm: System 4-30 at Kidsgrove:
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8/14/20		SYSTEM 4
8/14/20	9327	1967: 260 x 205 mm: System 4-50 at University College, Cardiff. 2 copies
"	9328	1967: 220 x 165 mm: Smaller print of 9327
"	9329	1967: 220 x 165 mm: System 4-30 at Stewarts and Lloyds. 2 copies
8/14/21		SYSTEM 4
8/14/21	9330	Nov 1968: 255 x 205 mm: System 4-30 at Program Testing Organisation, Kidsgrove
"	9331	Nov 1968: 255 x 205 mm: System 4-30 at Program Testing Organisation, Kidsgrove, another view
8/14/22		SYSTEM 4
8/14/22	9332	1968: 255 x 205 mm: System 4-70 at Program Testing Organisation
"	9333	1968: 255 x 205 mm: System 4-70 at Program Testing Organisation, another view
"	9334	1968: 255 x 205 mm: System 4-70 at Program Testing Organisation, operator at console
8/14/23		SYSTEM 4
8/14/23	9335	255 x 205 mm: System 4-72, with engineer at the processor control panel
"	9336	1971: 255 x 205 mm: System 4-50 Central Processor Unit under test at Winsford
8/14/24		SYSTEM 4
8/14/24	9337	255 x 205 mm: System 4-50
"	9338	255 x 205 mm: System 4-30 under

test at Winsford

8/14/25 SYSTEM 4

8/14/25 9339 Jun 1968: 255 x 205 mm: System 4-50 test area at Winsford

" 9340 May 1969: 255 x 205 mm: System 4-50 at Staffs College of Technology, with two academics examining console output

8/14/26 SYSTEM 4

8/14/26 9341 Jan 1969: 255 x 205 mm: System 4-50 at Simon Engineering, Stockport

" 9342 Mar 1969: 255 x 205 mm: System 4-30 at R.M. Douglas Construction, Birmingham

8/14/27 SYSTEM 4

8/14/27 9343 1969: 255 x 205 mm: System 4 at Ministry of Social Security

" 9344 255 x 205 mm: System 4-50 at Edinburgh Corporation

8/14/28 SYSTEM 4

8/14/28 9345 210 x 160 mm: System 4-50 at Edinburgh Corporation, another view

" 9346 165 x 115 mm: System 4-50 at Edinburgh Corporation, another view

" 9347 260 x 205 mm: System 4-70 at Post Office Giro Centre, Bootle

8/14/29 SYSTEM 4

8/14/29 9348 240 x 120 mm: System 4-75 at Baric Interact 75, Winsford

" 9349 260 x 205 mm: System 4 magnetic tape units. 2 copies

8/14/30 SYSTEM 4

8/14/30	9350	220 x 165 mm: 2041-3 paper tape reader 4580, with operator
"	9351	260 x 205 mm: 2041-3 paper tape reader 4580, without operator
8/14/31		SYSTEM 4
8/14/31	9352	260 x 205 mm: System 4 card reader
"	9353	260 x 205 mm: System 4 typewriter
"	9354	260 x 205 mm: System 4 typewriter with operator
8/14/32		SYSTEM 4
8/14/32	9355	260 x 205 mm: System 4 multiple exchangeable disc store (EDS) units
"	9356	260 x 205 mm: Close-up of System 4 multiple exchangeable disc store (EDS) units
8/14/33		SYSTEM 4
8/14/33	9357	1972: 260 x 205 mm: System 4 multiple exchangeable disc store units (EDS 30)
"	9358	230 x 205 mm: System 4 line printer
8/14/34		SYSTEM 4
8/14/34	9359	220 x 205 mm: System 4 line printer, with two people examining output printout
"	9350	255 x 205 mm: System 4 card reader with operator
8/14/35		SYSTEM 4
8/14/35	9361	1966/67: 260 x 205 mm: System 4 9-track magnetic tape units model 4452
"	9362	1971: 260 x 205 mm: System 4 magnetic tape units model 4454

8/14/36		SYSTEM 4
8/14/36	9363	240 x 195 mm: System 4-30 at Stwarts and Lloyds. Loading a mag tape
"	9364	260 x 205 mm: System 4 Model 9010 comms terminal
"	9365	260 x 205 mm: System 4 Model 9010 comms terminal, another view
8/14/37		SYSTEM 4
8/14/37	9366	260 x 205 mm: System 4 line printer with dynamic paper-stacker
"	9367	1967: 260 x 205 mm: Lector document reader online model 4652
8/14/38		SYSTEM 4
8/14/38	9368	260 x 205 mm: Unidentified disc file, doors open
"	9369	260 x 205 mm: Unidentified disc file, doors open, another view
"	9370	260 x 205 mm: 4441 disc file, with operator
"	9371	260 x 205 mm: System 4-30, engineer at control panel of Central Processor Unit
8/14/39		SYSTEM 4
8/14/39	9372	260 x 205 mm: 7020 comms terminal
"	9373	c1967: 260 x 205 mm: Operator at System 4 remote data terminal. 2 copies
8/14/40		SYSTEM 4
8/14/40	9374	260 x 205 mm: Comms equipment - telephone and(?) GPO modem
"	9375	260 x 205 mm: Desk with comms keyboard unit

8/14/41		SYSTEM 4
8/14/41	9376	260 x 205 mm: Same desk as 9375, with drawers open showing paper tape reader and punch
"	9377	260 x 205 mm: Another desk with teletype control console
8/14/42		SYSTEM 4
8/14/42	9378	1971: 260 x 205 mm: High speed comms control system APF520
"	9379	1971: 260 x 205 mm: System 4 D.I. plotter model 4715/2
8/14/43		SYSTEM 4
8/14/43	9380	160 x 115 mm: System 4 Mark 1 Visual display unit
"	9381	210 x 200 mm: Standard video terminals for System 4 computers, showing utilities meter reading and billing application:
"	9382	260 x 205 mm: Video terminals online to Kidsgrove from the Business Efficiency Exhibition, showing medical records look-up application:
8/14/44		SYSTEM 4
8/14/44	9383	1967: 260 x 205 mm: System 4 Visual display unit
"	9384	260 x 205 mm: Close-up of keyboard of the comms desk shown in 9375 and 9376
8/14/45		SYSTEM 4
8/14/45	9385	260 x 205 mm: Close-up of control panel of (?) a mag tape unit
"	9386	c1966: 260 x 205 mm: System 4 production area at Kidsgrove
8/14/46		SYSTEM 4

8/14/46	9387	260 x 205 mm: System 4 Gerber plotter
"	9388	260 x 205 mm: System 4 Gerber plotter, another view
8/14/47		SYSTEM 4
8/14/47	9389	260 x 205 mm: System 4 continuity testing by special purpose computer
"	9390	260 x 205 mm: System 4 wire-wrapping
8/14/48		SYSTEM 4
8/14/48	9391	260 x 205 mm: Terminal rack being connected to the automatic continuity tester at Winsford
"	9392	260 x 205 mm: Assembly of System 4 tape readers
8/14/49		SYSTEM 4
8/14/49	9393	260 x 205 mm: Close-up of System 4 PCBs in racks
"	9394	200 x 170 mm: System 4 print barrels
8/14/50		SYSTEM 4
8/14/50	9395	1967: 210 x 155 mm: Precision work with microscope control
"	9396	210 x 155 mm: Integrated circuits in mounting brackets
"	9397	210 x 155 mm: Integrated circuits in mounting brackets, another view
8/15		FERRANTI reference photos; Ferranti Albums

A series of binders measuring 350 x 220 mm, each containing 40 photos stapled to light card, with captions. A few photos are not actually present, but their captions usually survive, and so they are listed here to keep in step with the intended

collection, and with the catalogue in 8/16.
Several of these 'missing' photos are probably
filed elsewhere in the collection

8/15/1		Nos 1-40; Mark 1
8/15/1/1	9398	205 x 155 mm: Experimental Cathode Ray Tube Store before Mark 1
8/15/1/2	9399	205 x 155 mm: Experimental Power Supply Unit
8/15/1/3	9400	205 x 155 mm: Laboratory set-up for experimental magnetic drum
8/15/1/4	9401	205 x 155 mm: Experimental drum amplifiers
8/15/1/5	9402	205 x 155 mm: Experimental drum before Mark 1
8/15/1/6	9403	205 x 155 mm: Teleprinter keyboard and tape
8/15/1/7	9404	205 x 155 mm: Original tape reader prior to Mark 1
8/15/1/8	9405	205 x 155 mm: Experimental storage unit
8/15/1/9	9406	205 x 155 mm: Typical door of Mark 1 Central Processor
8/15/1/10	9407	205 x 155 mm: Cathode ray tube - storage tube, amplifier and shield
8/15/1/11	9408	205 x 155 mm: Magnetic drum head amplifier
8/15/1/12	9409	205 x 155 mm: Mk 1 Magnetic drum head
8/15/1/13	9410	205 x 155 mm: Mk 1 Central Processor - close-up of multiplier section
8/15/1/14	9411	205 x 155 mm: Mk 1 Tape reader and punch
8/15/1/15	9412	205 x 155 mm: Mk 1 Computer console

8/15/1/16	9413	205 x 155 mm: 1006 Magnetic Drum and amplifier
8/15/1/17	9414	205 x 155 mm: 1006 Magnetic Drum Assembly
8/15/1/18	9415	205 x 155 mm: Experimental Monitoring Unit
8/15/1/19	9416	205 x 155 mm: Selection of experimental Magnetic Drum Heads
8/15/1/20	9417	205 x 155 mm: Mk 1 Central Processor - Section of computer with console
8/15/1/21	9418	205 x 155 mm: Mk 1 Section of Computer with covers
8/15/1/22	9419	205 x 155 mm: Pattern of Cathode Ray Tube store
8/15/1/23	9420	205 x 155 mm: Pattern of Cathode Ray Tube store
8/15/1/24	9421	205 x 155 mm: Pattern of Cathode Ray Tube store
8/15/1/25	9422	205 x 155 mm: Console - Mk 1 Central Processor
8/15/1/26	9423	205 x 155 mm: Mk 1 Tape Reader with top raised
8/15/1/27	9424	205 x 155 mm: Mk 1 Photo cells and amplifier (Tape Reader)
8/15/1/28	9425	205 x 155 mm: Mk 1 Central Processor - Typical door with connections
8/15/1/29	9426	205 x 155 mm: Experimental Drum
8/15/1/30	9427	205 x 155 mm: Connections for experimental drum
8/15/1/31	9428	205 x 155 mm: 1006 Magnetic Drum
8/15/1/32	9429	205 x 155 mm: Section of Computer during construction - Mk 1 Central Processor

8/15/1/33	9430	205 x 155 mm: Mk 1 Central Processor during construction
8/15/1/34	9431	205 x 155 mm: Mk 1 Central Processor - Section of computer during construction
8/15/1/35	9432	205 x 155 mm: Mk 1 Central Processor - Section of computer during construction
8/15/1/36	9433	205 x 155 mm: Mk 1 Tape Reader - Tape feed mechanism
8/15/1/37	9434	205 x 155 mm: Cathode Ray Tube storage unit
8/15/1/38	9435	205 x 155 mm: Section of Cathode Ray Tube storage unit
8/15/1/39	9436	205 x 155 mm: Mk 1 Photo-electric tape reader
8/15/1/40	9437	205 x 155 mm: Mk 1 Central Processor - One section with covers removed
8/15/2		Nos 41-80
8/15/2/1	9438	205 x 155 mm: Mk 1 Computer - one bay with covers and Control Desk
8/15/2/2	9439	205 x 155 mm: Mk 1 Computer - Control Desk with input/output equipment
8/15/2/3	9440	205 x 155 mm: Mk 1 Computer - Control Desk with input/output equipment, and chair
8/15/2/4	9441	205 x 155 mm: Mk 1 Computer - Central Processor Power Supply Panel
8/15/2/5	9442	205 x 155 mm: 1012 Magnetic Drum and Head Amplifiers
8/15/2/6	9443	205 x 155 mm: Mk 1 - General view of the computer at Manchester University

8/15/2/7	9444	205 x 155 mm: Control Desk and open section of the computer at Manchester University
8/15/2/8	9445	Control Desk and open section of the Mk 1 computer at Manchester University. <i>Picture missing</i>
8/15/2/9	9446	Control Desk and open section of the Mk 1 computer at Manchester University. <i>Picture missing</i>
8/15/2/10	9447	205 x 155 mm: Output from teleprinter
8/15/2/11	9448	205 x 155 mm: High Speed Tape Reader, lamp housing closed
8/15/2/12	9449	205 x 155 mm: High Speed Tape Reader, lamp housing open
8/15/2/13	9450	205 x 155 mm: Magnetic Drum and head amplifiers in the lab
8/15/2/14	9451	205 x 155 mm: Read/Write head from magnetic drum
8/15/2/15	9452	Mechanism for carrying tens - Mech. Comp. <i>Picture missing</i>
8/15/2/16	9453	Block diagram. <i>Picture missing</i>
8/15/2/17	9454	Block diagram. <i>Picture missing</i>
8/15/2/18	9455	205 x 155 mm: Beat Rhythm Mk 1
8/15/2/19	9456	205 x 155 mm: Beat Rhythm Mk 1
8/15/2/20	9457	Block Diagram - Control Loop. <i>Picture missing</i>
8/15/2/21	9458	205 x 155 mm: Mk 1 - open door showing wiring arrangements
8/15/2/22	9459	205 x 155 mm: Wiring detail
8/15/2/23	9460	205 x 155 mm: 1012 Magnetic Drum components
8/15/2/24	9461	205 x 155 mm: High Speed Tape Reader - head exposed

8/15/2/25	9462	205 x 155 mm: Mk 1 - Section of one bay of computer with Control Desk
8/15/2/26	9463	205 x 155 mm: 1012 Magnetic Drum in position showing connections
8/15/2/27	9464	205 x 155 mm: Williams Cathode Ray Tube Store
8/15/2/28	9465	205 x 155 mm: Magnetic head, writing transformer and insertion tool
8/15/2/29	9466	205 x 155 mm: Efficiency Diagram
8/15/2/30	9467	205 x 155 mm: Diagram of Read/Write head - Magnetic Drum
8/15/2/31	9468	205 x 155 mm: Storage pattern on C.R.T.
8/15/2/32	9469	175 x 120 mm: Storage pattern on C.R.T.
8/15/2/33	9470	175 x 120 mm: General view - Bull line-at-a-time printer
8/15/2/34	9471	205 x 155 mm: Type head of Bull line-at-a-time printer
8/15/2/35	9472	Original Manchester University Computer. <i>Picture missing</i>
8/15/2/36	9473	Original Manchester University Computer. <i>Picture missing</i>
8/15/2/37	9474	205 x 155 mm: Tape editing equipment at Manchester University
8/15/2/38	9475	205 x 155 mm: Magnetic Drum
8/15/2/39	9476	205 x 155 mm: Cathode Ray Storage Tube
8/15/2/40	9477	205 x 155 mm: Control Desk showing Control Console and Input/Output equipment

8/15/3

Nos 81-120

8/15/3/1	9478	205 x 155 mm: Storage patterns on the Control Console at Manchester University
8/15/3/2	9479	150 x 110 mm: Storage patterns on the Control Console at Manchester University
8/15/3/3	9480	205 x 155 mm: Photo cell and amplifier from Tape Reader
8/15/3/4	9481	205 x 155 mm: Print wheels and platen - Bull printer
8/15/3/5	9482	205 x 155 mm: Driving mechanism of an early tape reader
8/15/3/6	9483	205 x 155 mm: Bull Printer in cabinet
8/15/3/7	9484	205 x 155 mm: Operator at Control Desk of Manchester University Mk 1
8/15/3/8	9485	205 x 155 mm: Enlargement of head of High Speed Tape Reader
8/15/3/9	9486	205 x 155 mm: High Speed Tape Reader
8/15/3/10	9487	245 x 195 mm: Wider view of the same photo as 9484
8/15/3/11	9488	245 x 195 mm: Tape Punching at Manchester University
8/15/3/12	9489	245 x 195 mm: Tape Punching at Manchester University
8/15/3/13	9490	245 x 195 mm: The Ferranti High Speed Parallel Printer (Bull)
8/15/3/14	9491	245 x 195 mm: General view of Mk 1 Computer at Ministry of Supply, Fort Halstead
8/15/3/15	9492	245 x 195 mm: Same photo as 9491, but with operator
8/15/3/16	9493	245 x 195 mm: Power Supply Cubicle
8/15/3/17	9494	190 x 140 mm: Keyboard Perforator

		and Auto Transmitter
8/15/3/18	9495	240 x 190 mm: 1012 Magnetic Drum
8/15/3/19	9496	245 x 145 mm: Maintenance Log Sheet (Mercury)
8/15/3/20	9497	250 x 170 mm: Maintenance Log Sheet (Pegasus)
8/15/3/21	9498	215 x 160 mm: Rear view of Bull printer (no covers)
8/15/3/22	9499	215 x 160 mm: Front view of Bull printer (no covers)
8/15/3/23	9500	205 x 155 mm: Detail of Bull printer
8/15/3/24	9501	245 x 180 mm: Original package component tester
8/15/3/25	9502	245 x 190 mm: Shipment of Toronto University Mk 1 Computer
8/15/3/26	9503	245 x 190 mm: Mk 1 console at Toronto University
8/15/3/27	9504	245 x 190 mm: Section of Toronto University computer
8/15/3/28	9505	245 x 190 mm: Magnetic drum and electronics at Toronto University
8/15/3/29	9506	235 x 120 mm: Rod Control Unit - Ferranti Packard
8/15/3/30	9507	240 x 130 mm: Control Console - Ferranti Packard
8/15/3/31	9508	210 x 170 mm: Ferranti Packard - P.O. Sortation supply panel
8/15/3/32	9509	225 x 175 mm: Ferranti Packard - P.O. Sortation drum and package
8/15/3/33	9510	240 x 180 mm: Ferranti Packard - P.O. Sortation section
8/15/3/34	9511	230 x 165 mm: Ferranti Packard - P.O. Sortation section

8/15/3/35	9512	250 x 100 mm: Ferranti Packard - P.O. Sortation section
8/15/3/36	9513	240 x 195 mm: Ferranti Packard - P.O. Sortation section
8/15/3/37	9514	225 x 175 mm: Ferranti Packard magnetic tape equipment
8/15/3/38	9515	165 x 120 mm: Experimental Recording Head - Pegasus drum
8/15/3/39	9516	165 x 120 mm: Close-up of Experimental Recording Head - Pegasus drum
8/15/3/40	9517	250 x 195 mm: General view of Pegasus at Portland Place
8/15/4		Nos 121-160
8/15/4/1	9518	195 x 160 mm: General view of Pegasus at Portland Place
8/15/4/2	9519	250 x 145 mm: Inside view of Pegasus cabinet showing packages
8/15/4/3	9520	240 x 190 mm: Tape Readers, Tape Spooler and Tape Trough
8/15/4/4	9521	240 x 190 mm: General view of Pegasus at Portland Place
8/15/4/5	9522	215 x 165 mm: Pegasus Control Desk
8/15/4/6	9523	205 x 155 mm: Pegasus drum in computer M.D. 4
8/15/4/7	9524	180 x 165 mm: Pegasus drum in computer
8/15/4/8	9525	245 x 160 mm: Pegasus drum in computer - close-up
8/15/4/9	9526	210 x 165 mm: Pegasus drum with cover
8/15/4/10	9527	250 x 195 mm: Wiring plugs for drum

8/15/4/11	9528	Pegasus drum in computer, with package. <i>Picture missing</i>
8/15/4/12	9529	210 x 195 mm: Pegasus drum in computer, also refrigeration equipment
8/15/4/13	9530	255 x 145 mm: Power wiring
8/15/4/14	9531	255 x 190 mm: Inside framework
8/15/4/15	9532	255 x 190 mm: Back wiring
8/15/4/16	9533	255 x 125 mm: Further wiring
8/15/4/17	9534	195 x 145 mm: Console and Tape Reader in position
8/15/4/18	9535	250 x 195 mm: Pegasus output equipment
8/15/4/19	9536	255 x 95 mm: Console in detail
8/15/4/20	9537	255 x 105 mm: Further back wiring
8/15/4/21	9538	245 x 175 mm: Pegasus - inside framework
8/15/4/22	9539	255 x 140 mm: Pegasus - control panel
8/15/4/23	9540	255 x 160 mm: Pegasus control panel - reverse side
8/15/4/24	9541	240 x 170 mm: Power cubicle
8/15/4/25	9542	195 x 145 mm: Wiring in control panel
8/15/4/26	9543	210 x 135 mm: Pegasus data processing system - I.C.I. Blackley
8/15/4/27	9544	205 x 155 mm: Converter unit and Bull printer - I.C.I. Blackley
8/15/4/28	9545	205 x 155 mm: Hollerith card equipment - I.C.I. Blackley
8/15/4/29	9546	205 x 155 mm: 1/2" magnetic tapes - Pegasus

8/15/4/30	9547	205 x 155 mm: 8,000 word drum - Pegasus
8/15/4/31	9548	200 x 140 mm: Star Delta Starter - Pegasus
8/15/4/32	9549	195 x 145 mm: Pegasus control panel - rear wiring
8/15/4/33	9550	215 x 170 mm: Alternator Set
8/15/4/34	9551	160 x 105 mm: Motor-Alternator Set
8/15/4/35	9552	295 x 180 mm: Computer and magnetic tape equipment, with operator. Pegasus
8/15/4/36	9553	255 x 120 mm: Pegasus engineer's control panel
8/15/4/37	9554	250 x 170 mm: Pegasus engineer's control panel - wiring
8/15/4/38	9555	260 x 135 mm: Top view - open
8/15/4/39	9556	200 x 200 mm: Packages during construction
8/15/4/40	9557	220 x 190 mm: Console inside
8/15/5		Nos 161-200
8/15/5/1	9558	245 x 190 mm: Pegasus power connections
8/15/5/2	9559	245 x 190 mm: Pegasus control panel
8/15/5/3	9560	245 x 190 mm: Pegasus computer at Portland Place
8/15/5/4	9561	195 x 150 mm: Pegasus cable form
8/15/5/5	9562	195 x 150 mm: Connection to No 25 Creed Reperforator (Pegasus)
8/15/5/6	9563	195 x 150 mm: Pegasus connections and running time
8/15/5/7	9564	195 x 150 mm: Pegasus wiring

detail

8/15/5/8	9565	195 x 150 mm: Pegasus M.D.4 drum
8/15/5/9	9566	195 x 150 mm: Mercury wiring detail
8/15/5/10	9567	195 x 150 mm: Mercury 1009 magnetic drum
8/15/5/11	9568	160 x 90 mm: Magnetic tape - enlarged close-up
8/15/5/12	9569	215 x 160 mm: Transportation of Pegasus computer for Stuttgart University
8/15/5/12A	9569A	215 x 160 mm: Transportation of Pegasus computer for Stuttgart University
8/15/5/13	9570	215 x 160 mm: Same loaded lorry as 9569, with a man looking at it
8/15/5/14	9571	215 x 160 mm: Transportation of Pegasus computer for Stuttgart University
8/15/5/15	9572	215 x 160 mm: Transportation of Pegasus computer for Stuttgart University
8/15/5/15A	9572A	215 x 160 mm: Transportation of Pegasus computer for Flygmotor, Sweden
8/15/5/16	9573	215 x 160 mm: Same loaded lorry as 9572, with a man looking at it
8/15/5/17	9574	215 x 160 mm: View of Pegasus computer production line
8/15/5/18	9575	215 x 160 mm: View of wiring and package assembly line (Pegasus)
8/15/5/19	9576	215 x 160 mm: View of Pegasus computer production line
8/15/5/20	9577	Computer staff in Pegasus room, Pegasus Place. <i>Picture missing, but see 9263</i>

8/15/5/21	9578	205 x 155 mm: Leeds University Pegasus Computer on test
8/15/5/21A	9578A	205 x 155 mm: Leeds University Pegasus Computer on test
8/15/5/22	9579	205 x 155 mm: Artist's impression - Ferranti Mercury Computer
8/15/5/23	9580	250 x 185 mm: Artist's impression - Ferranti Mercury Computer
8/15/5/24	9581	255 x 170 mm: Artist's impression - Ferranti Mercury Computer
8/15/5/25	9582	210 x 155 mm: Mercury computer refrigeration - long view
8/15/5/26	9583	205 x 155 mm: Mercury computer refrigeration - close-up
8/15/5/27	9584	205 x 155 mm: Mercury computer refrigeration - lower half, long view
8/15/5/28	9585	195 x 150 mm: Mercury computer control panel
8/15/5/29	9586	200 x 135 mm: Mercury computer desk
8/15/5/30	9587	200 x 135 mm: Mercury computer full-length view in factory
8/15/5/31	9588	200 x 135 mm: Mercury computer full-length view in factory
8/15/5/32	9589	200 x 135 mm: Mercury computer monitoring and control panel
8/15/5/33	9590	210 x 160 mm: Mercury computer in course of erection
8/15/5/34	9591	210 x 160 mm: Mercury computer on test
8/15/5/35	9592	210 x 160 mm: Mercury computer on test
8/15/5/36	9593	210 x 160 mm: Mercury evaporative condenser

8/15/5/37	9594	195 x 145 mm: Wiring in Mercury drum unit
8/15/5/38	9595	215 x 170 mm: Mercury compressor unit
8/15/5/39	9596	180 x 135 mm: Mercury compressor unit, inside
8/15/5/40	9597	195 x 135 mm: Refrigeration units and platform assembly
8/15/6		Nos 201-240
8/15/6/1	9598	200 x 135 mm: Mercury Star Delta Starter
8/15/6/2	9599	200 x 135 mm: Mercury alternator set
8/15/6/3	9600	200 x 135 mm: Mercury liquid receiver for refrigeration plant
8/15/6/4	9601	210 x 155 mm: Mercury Transportation of C.E.R.N. computer, Switzerland
8/15/6/4A	9601A	210 x 155 mm: Mercury Transportation of C.E.R.N. computer, Switzerland
8/15/6/5	9602	Matrix core store. <i>Picture missing</i>
8/15/6/6	9603	210 x 155 mm: Matrix core store.
8/15/6/7	9604	300 x 185 mm: Matrix core store, wired-up
8/15/6/8	9605	280 x 175 mm: Mercury inside wiring
8/15/6/9	9606	210 x 135 mm: Mercury computer and magnetic drum units at Manchester University
8/15/6/10	9607	195 x 135 mm: Mercury computer at Manchester University
8/15/6/11	9608	300 x 185 mm: Mercury computer at Manchester University, with operator

8/15/6/12:	9609	300 x 185 mm: Close-up of desk and operator of Mercury computer at Manchester University
8/15/6/13	9610	300 x 185 mm: Close-up of desk and operator of Mercury computer at Manchester University
8/15/6/14	9611	300 x 185 mm: Complete console of Mercury computer
8/15/6/15	9612	300 x 185 mm: 4 magnetic drum units at Manchester University
8/15/6/16	9613	250 x 200 mm: Ferranti magnetic core matrix
8/15/6/17	9614	215 x 170 mm: Comparison of input output tape
8/15/6/18	9615	250 x 200 mm: 35 mm magnetic tape unit
8/15/6/19	9616	240 x 185 mm: 35 mm magnetic tape deck
8/15/6/20	9617	190 x 135 mm: 35 mm tape decks with electronics
8/15/6/21	9618	175 x 155 mm: 1/2" mag tape decks and control unit (Artist's impression)
8/15/6/21A	9618A	210 x 160 mm: 1/2" mag tape decks and control unit (Artist's impression)
8/15/6/22	9619	210 x 160 mm: 1/2" mag tape decks at Portland Place
8/15/6/23	9620	240 x 140 mm: Panel of control unit
8/15/6/24	9621	230 x 190 mm: Wiring under desk of control unit
8/15/6/25	9622	160 x 120 mm: Tape card and converter unit
8/15/6/26	9623	160 x 120 mm: Converter unit at I.C.I. Blackley

8/15/6/27	9624	160 x 120 mm: 1/2" Electro Data tape unit
8/15/6/28	9625	160 x 120 mm: Hollerith card equipment at I.C.I. Blackley
8/15/6/29	9626	160 x 120 mm: Hollerith card equipment at I.C.I. Blackley
8/15/6/30	9627	160 x 120 mm: Packages in converter unit
8/15/6/31	9628	180 x 160 mm: Converter unit control panel
8/15/6/32	9629	210 x 155 mm: 1/2" mag tape deck control panel
8/15/6/33	9630	300 x 200 mm: Converter unit with card and tape equipment
8/15/6/34	9631	300 x 200 mm: Converter unit with card and tape equipment, and operator
8/15/6/35	9632	200 x 130 mm: Magnetic spools with tape
8/15/6/36	9633	Card paper and mag tape input devices. <i>Picture missing</i>
8/15/6/37	9634	195 x 145 mm: Reading head and drive mechanism with tape
8/15/6/38	9635	205 x 155 mm: Reading head and drive mechanism without tape
8/15/6/39	9636	205 x 155 mm: Reading head and drive mechanism with tape - close-up
8/15/6/40	9637	205 x 155 mm: Experimental tape punch
8/15/7		Nos 241-280
8/15/7/1	9638	215 x 160 mm: Experimental tape punch, open
8/15/7/2	9639	215 x 160 mm: Motor for High Speed Tape Reader

8/15/7/3	9640	215 x 160 mm: Components of motor for High Speed Tape Reader
8/15/7/4	9641	215 x 160 mm: Components of motor for High Speed Tape Reader
8/15/7/5	9642	185 x 150 mm: Prototype Tape Reader
8/15/7/6	9643	210 x 150 mm: Tape Reader type T.R. 5 - front view
8/15/7/7	9644	150 x 115 mm: Tape Reader type T.R. 5 - rear view
8/15/7/8	9645	210 x 150 mm: Tape Reader
8/15/7/9	9646	210 x 150 mm: Tape Reader and Tape Spooler
8/15/7/10	9647	210 x 150 mm: Tape Reader, closed
8/15/7/10A	9647A	150 x 105 mm: Tape Reader, doors open
8/15/7/11	9648	255 x 205 mm: Tape correcting punch
8/15/7/12	9649	170 x 115 mm: Tape correcting punch, with tape
8/15/7/12A	9649A	170 x 115 mm: Tape correcting punch, without tape
8/15/7/13	9650	155 x 110 mm: Tape correcting punch
8/15/7/14	9651	Tape Trough. <i>Picture missing</i>
8/15/7/15	9652	190 x 165 mm: Tape Trough, with tape
8/15/7/16	9653	160 x 115 mm: Tape Box
8/15/7/17	9654	105 x 80 mm: Ebonite core for tape box
8/15/7/18	9655	105 x 80 mm: Spooling knob for tape box
8/15/7/19	9656	160 x 115 mm: Tape box, core, and

		spooling knob
8/15/7/20	9657	255 x 205 mm: Tape box, core, and spooling knob, with tape
8/15/7/21	9658	160 x 115 mm: Tape box in tape trough
8/15/7/22	9659	160 x 115 mm: Hand operated tape spooler (obsolete)
8/15/7/23	9660	160 x 115 mm: Hand operated tape spooler (improved version), with core
8/15/7/24	9661	160 x 115 mm: Tape spooler, hand-operated, assembled
8/15/7/25	9662	205 x 155 mm: Tape spooler, obsolete, assembled
8/15/7/26	9663	205 x 155 mm: Prototype motor-driven tape spooler
8/15/7/27	9664	205 x 155 mm: Motor-driven tape spooler
8/15/7/28	9665	205 x 155 mm: Motor-driven tape spooler
8/15/7/28A	9665A	200 x 150 mm: Motor-driven tape spooler, modified
8/15/7/29	9666	185 x 150 mm: Motor-driven tape spooler
8/15/7/30	9667	205 x 155 mm: Rear view of wiring for tape control unit for Pegasus
8/15/7/31	9668	220 x 165 mm: Tape editing equipment, simplified set - Artist's impression
8/15/7/32	9669	220 x 165 mm: Tape editing equipment, simplified set
8/15/7/33	9670	255 x 180 mm: Teleprinter with keyboard and tape punch
8/15/7/34	9671	245 x 150 mm: Teleprinter keyboard

8/15/7/35	9672	185 x 165 mm: Keyboard perforator
8/15/7/36	9673	255 x 175 mm: Keyboard perforator, rear view
8/15/7/37	9674	195 x 140 mm: Keyboard perforator, tape box open and auto-transmitter fitted
8/15/7/38	9675	255 x 150 mm: Tape editing equipment, full view
8/15/7/39	9676	190 x 140 mm: Tape editing equipment, showing rectifier
8/15/7/40	9677	250 x 200 mm: Tape editing control box and comparator
8/15/8		Nos 281-320
8/15/8/1	9678	145 x 105 mm: Tape editing control box, simplified set, on table
8/15/8/2	9670	105 x 80 mm: Tape editing control
8/15/8/3	9680	Tape bin showing castors, Pegasus type. <i>Picture missing</i>
8/15/8/4	9681	170 x 115 mm: Tape bin showing position in desk, Pegasus type
8/15/8/5	9682	185 x 140 mm: Tape bins showing position in desk, Mercury type
8/15/8/6	9683	210 x 160 mm: Machine shop, material stores and assembly
8/15/8/7	9684	200 x 170 mm: Bull printer
8/15/8/8	9685	Bull printer, inside. <i>Picture missing</i>
8/15/8/9	9686	200 x 130 mm: Bull printer
8/15/8/10	9687	210 x 155 mm: Bull printer converter units I.C.I. Blackley
8/15/8/11	9688	250 x 200 mm: 1012 Magnetic drum showing heads
8/15/8/12	9689	250 x 200 mm: 1009 Magnetic drum

components

8/15/8/13	9690	200 x 145 mm: 1009 Magnetic drum in cabinet, wired
8/15/8/14	9691	210 x 155 mm: 1009 Magnetic drum in cabinet, wired
8/15/8/15	9692	215 x 150 mm: Close-up of 1009 magnetic drum in cabinet
8/15/8/16	9693	155 x 110 mm: 1009 Magnetic drum recording head
8/15/8/17	9694	170 x 90 mm: 1009 Magnetic drum recording head, without adjusting screws
8/15/8/18	9695	170 x 90 mm: 1009 Magnetic drum recording head, face
8/15/8/19	9696	210 x 160 mm: M.D. 5 magnetic drum with recording heads
8/15/8/20	9697	210 x 160 mm: M.D. 5 magnetic drum without recording heads
8/15/8/21	9698	190 x 140 mm: Coil winding machine
8/15/8/22	9699	170 x 140 mm: Coil winding machine, top view
8/15/8/23	9700	215 x 165 mm: Delay line package, full view
8/15/8/24	9701	245 x 190 mm: View of a package
8/15/8/25	9702	155 x 100 mm: Double-sided small acoustic delay line with delay up to 555 μ s, on Neuron board
8/15/8/26	9703	155 x 100 mm: Double-sided small acoustic delay line with delay up to 555 μ s, on Neuron board
8/15/8/27	9704	155 x 100 mm: Reverse side of double-sided small acoustic delay line with delay up to 555 μ s, on Neuron board
8/15/8/28	9705	155 x 100 mm: Single-sided small

		acoustic delay line
8/15/8/29	9706	155 x 100 mm: Amplifier and chopper neuron board for small acoustic delay line
8/15/8/30	9707	155 x 100 mm: Double delay line tray
8/15/8/31	9708	170 x 120 mm: Small acoustic delay line prototype
8/15/8/32	9709	190 x 150 mm: Double acoustic delay line tray
8/15/8/33	9710	180 x 155 mm: Delay line tray - Perseus type
8/15/8/34	9711	180 x 155 mm: Long delay line package
8/15/8/35	9712	245 x 190 mm: Pegasus package
8/15/8/36	9713	245 x 190 mm: Typical package, type 4
8/15/8/37	9714	245 x 190 mm: Typical package, type 4, reverse side
8/15/8/38	9715	245 x 190 mm: Typical package, type 21
8/15/8/39	9716	245 x 190 mm: Typical package, type 21, reverse side
8/15/8/40	9717	245 x 190 mm: Typical package, type 18
8/15/9		Nos 321-360
8/15/9/1	9718	245 x 190 mm: Typical package, type 18, reverse side
8/15/9/2	9719	Typical package type 8. <i>Picture missing</i>
8/15/9/3	9720	245 x 190 mm: Typical package type 8, reverse side
8/15/9/4	9721	245 x 190 mm: Typical package type 17

8/15/9/5	9722	245 x 190 mm: Typical package type 17, reverse side
8/15/9/6	9723	245 x 190 mm: Typical package type 19
8/15/9/7	9724	245 x 190 mm: Typical package type 19, reverse side
8/15/9/8	9725	245 x 190 mm: Typical package type 20
8/15/9/9	9726	245 x 190 mm: Typical package type 20, reverse side
8/15/9/10	9727	245 x 190 mm: Typical package type 15
8/15/9/11	9728	245 x 190 mm: Typical package type 15, reverse side
8/15/9/12	9729	245 x 190 mm: Typical package type 13
8/15/9/13	9730	245 x 190 mm: Typical package type 13, reverse side
8/15/9/14	9731	245 x 190 mm: Package tester, original model
8/15/9/15	9732	260 x 205 mm: Package tester, original model, side view, open
8/15/9/16	9733	260 x 205 mm: Package tester, original model, other side view, open
8/15/9/17	9734	260 x 205 mm: Package tester, original model, front view, open
8/15/9/18	9735	250 x 200 mm: Package component test set, $\frac{3}{4}$ front view
8/15/9/19	9736	210 x 160 mm: Package component test set, front view
8/15/9/20	9737	210 x 160 mm: Package component test set, front from above
8/15/9/21	9738	210 x 160 mm: Package component test set, top view

8/15/9/22	9739	Lily Hill House, Bracknell. <i>Picture missing</i>
8/15/9/23	9740	210 x 160 mm: Perseus computer for Trygg, Sweden at Bracknell
8/15/9/24	9741	215 x 170 mm: Perseus computer for Trygg, Sweden at Bracknell
8/15/9/25	9742	215 x 170 mm: Back wiring of Camp (?) for Perseus at Trygg, Sweden
8/15/9/26	9743	215 x 170 mm: Perseus Power supply bay
8/15/9/27	9744	215 x 170 mm: Perseus computer with tape and card units for Trygg, Sweden
8/15/9/28	9745	215 x 170 mm: Front view of Perseus computer at Bracknell
8/15/9/29	9746	245 x 170 mm: Close-up of Perseus console at Bracknell
8/15/9/30	9747	215 x 170 mm: Close-up of Perseus console at Bracknell
8/15/9/31	9748	210 x 155 mm: Perseus computer for SAMLAS, S.A., during construction at West Gorton
8/15/9/32	9749	210 x 155 mm: Perseus computer for SAMLAS, S.A., during construction at West Gorton
8/15/9/33	9750	210 x 155 mm: Perseus computer for SAMLAS, S.A., during construction at West Gorton
8/15/9/34	9751	210 x 155 mm: Perseus computer for SAMLAS, S.A., during construction at West Gorton
8/15/9/35	9752	210 x 155 mm: Perseus computer for SAMLAS, S.A., during construction at West Gorton
8/15/9/36	9753	210 x 155 mm: Perseus computer for SAMLAS, S.A., during construction at West Gorton

8/15/9/37	9754	210 x 155 mm: Perseus computer for SAMLAS, S.A., during construction at West Gorton
8/15/9/38	9755	210 x 155 mm: Perseus computer for SAMLAS, S.A., during construction at West Gorton
8/15/9/39	9756	210 x 155 mm: Perseus computer for SAMLAS, S.A., during construction at West Gorton
8/15/9/40	9757	210 x 155 mm: Perseus computer for SAMLAS, S.A., during construction at West Gorton
8/15/10		Nos 361-400
8/15/10/1	9758	210 x 155 mm: Perseus computer for SAMLAS, S.A., during construction at West Gorton
8/15/10/2	9759	210 x 155 mm: Perseus computer for SAMLAS, S.A., during construction at West Gorton
8/15/10/2A	9759A	210 x 155 mm: Perseus computer for SAMLAS, S.A., during construction at West Gorton
8/15/10/3	9760	210 x 155 mm: PLUTO computer with tape and card units at West Gorton
8/15/10/4	9761	PLUTO computer with tape and card units at West Gorton. <i>Picture missing</i>
8/15/10/5	9762	210 x 155 mm: PLUTO computer at Whyteleafe
8/15/10/6	9763	210 x 155 mm: PLUTO computer with tape units and teleprinter at Whyteleafe
8/15/10/7	9764	165 x 110 mm: Sirius computer
8/15/10/8	9765	210 x 155 mm: Sirius computer and tape editing equipment, complete
8/15/10/9	9766	210 x 155 mm: Sirius computer and tape editing equipment, complete,

		with operator
8/15/10/10	9767	210 x 155 mm: Sirius computer and tape editing equipment, complete, at Portland Place
8/15/10/11	9768	210 x 155 mm: Sirius computer with operator. <i>Picture missing</i>
8/15/10/12	9769	210 x 155 mm: Sirius computer and tape editing equipment complete at Portland Place with operator
8/15/10/13	9770	190 x 165 mm: Powers Samas card reader - front view
8/15/10/14	9771	190 x 165 mm: Powers Samas card reader - front view, open
8/15/10/15	9772	190 x 165 mm: Powers Samas card reader - back view, open
8/15/10/16	9773	210 x 155 mm: Pegasus computer room at Hollinwood
8/15/10/17	9774	210 x 155 mm: Pegasus computer installation at Hollingwood
8/15/10/18	9775	210 x 155 mm: Pegasus computer installation at Hollingwood
8/15/10/19	9776	210 x 155 mm: Pegasus computer installation at Hollingwood
8/15/10/20	9777	210 x 155 mm: Pegasus computer installation at Hollingwood
8/15/10/21	9778	210 x 155 mm: ORION - artist's impression of complete installation
8/15/10/22	9779	255 x 205 mm: DECCA twin tape transporter
8/15/10/23	9780	195 x 125 mm: Items used in connection with Neuron packages
8/15/10/24	9781	210 x 155 mm: Teletype punch, 60 ch per sec, at Manchester University

8/15/10/25	9782	210 x 155 mm: Teletype punch, cover open
8/15/10/26	9783	210 x 155 mm: Teletype punch, cover open
8/15/10/27	9784	170 x 120 mm: Sirius computer with tape punch and readers SR 102, with operator
8/15/10/28	9785	170 x 120 mm: Sirius computer control panel and tape reader with operator
8/15/10/29	9786	205 x 160 mm: ARGUS - plug-in box (36 packages) typical package
8/15/10/30	9787	205 x 160 mm: ARGUS - plug-in box (36 packages) typical package
8/15/10/31	9788	205 x 160 mm: Basic ARGUS computer
8/15/10/32	9789	205 x 160 mm: ARGUS - typical storage tray "peg board"
8/15/10/33	9790	210 x 155 mm: ARGUS computer - input/output equipment
8/15/10/34	9791	210 x 155 mm: Basic ARGUS computer
8/15/10/35	9792	210 x 155 mm: ARGUS - typical package
8/15/10/36	9793	210 x 155 mm: ARGUS storage tray peg board - close-up
8/15/10/37	9794	210 x 155 mm: ARGUS storage tray peg board - close-up
8/15/10/38	9795	210 x 155 mm: ARGUS - complete installation
8/15/10/39	9796	166 x 110 mm: CREED model 5/K4 teleprinter
8/15/10/40	9797	166 x 110 mm: CREED simplified set tape editing equipment with model 75/K4 teleprinter

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Nos 401-440

8/15/11/1	9798	210 x 160 mm: PEGASUS 2 computer and ancillary equipment for Ferranti, Newman Street
8/15/11/2	9799	210 x 160 mm: PEGASUS 2 computer and ancillary equipment for Ferranti, Newman Street
8/15/11/3	9800	210 x 160 mm: PEGASUS 2 computer and ancillary equipment for Ferranti, Newman Street
8/15/11/4	9801	210 x 160 mm: PEGASUS 2 computer and ancillary equipment for Ferranti, Newman Street
8/15/11/5	9802	160 x 110 mm: Tape Reader T.R. 5 and Tape Spooler A11
8/15/11/6	9803	165 x 120 mm: Friden Flexowriter
8/15/11/7	9804	210 x 160 mm: SIRIUS 1000 word computer, TR5 tape reader and Teletype punch
8/15/11/8	9805	160 x 110 mm: SIRIUS 3000 word storage
8/15/11/9	9806	210 x 160 mm: SIRIUS backwiring
8/15/11/10	9807	210 x 160 mm: ORION backwiring
8/15/11/11	9808	210 x 160 mm: ORION centre wiring panel - cu clad laminate
8/15/11/12	9809	210 x 160 mm: ATLAS - typical package
8/15/11/13	9810	210 x 160 mm: ATLAS - typical package - other side
8/15/11/14	9811	210 x 160 mm: ORION - typical neuron package
8/15/11/15	9812	210 x 160 mm: ORION - typical neuron package - other side
8/15/11/16	9813	210 x 160 mm: ORION - section of computer showing packages and backwiring

8/15/11/17	9814	195 x 145 mm: ATLAS prorotype - central computer, unskinned
8/15/11/18	9815	195 x 145 mm: ATLAS prorotype - central computer, unskinned, with 2 fitters
8/15/11/19	9816	180 x 145 mm: ATLAS prototype - 4000 word fixed store, showing mesh and boxes
8/15/11/20	9817	180 x 145 mm: ATLAS prototype - 4000 word fixed store, showing mesh and boxes, and a fitter
8/15/11/21	9818	195 x 145 mm: ATLAS prototype - Drum rack framework, with one drum
8/15/11/22	9819	195 x 145 mm: ATLAS prototype - Drum rack framework, with one drum and 2 fitters
8/15/11/23	9820	210 x 160 mm: ATLAS central computer prepared for despatch
8/15/11/24	9821	210 x 160 mm: ATLAS central computer leaving West Gorton factory
8/15/11/25	9822	ATLAS central computer, with wiremen. <i>Picture missing</i>
8/15/11/26	9823	210 x 160 mm: ATLAS central computer in position at Manchester University
8/15/11/27	9824	210 x 160 mm: ATLAS computer 3 bay leaving West Gorton factory
8/15/11/28	9825	210 x 160 mm: Tape Spooler A11B
8/15/11/29	9826	210 x 160 mm: Tape Spooler A11B
8/15/11/30	9827	210 x 160 mm: Tape Spooler A11B with Tape reader TR 5
8/15/11/31	9828	185 x 130 mm: SIRIUS 1000 word computer with 2 TR 5 tape readers
8/15/11/32	9829	210 x 160 mm: SIRIUS computer for Ferranti Melbourne, prepared for

despatch

8/15/11/33	9830	210 x 160 mm: SIRIUS computer for Ferranti Melbourne, prepared for despatch
8/15/11/34	9831	210 x 160 mm: SIRIUS computer for Ferranti Melbourne, prepared for despatch
8/15/11/35	9832	210 x 160 mm: SIRIUS computer for Ferranti Melbourne, prepared for despatch
8/15/11/36	9833	210 x 160 mm: General view of ATLAS power cabinets
8/15/11/37	9834	210 x 160 mm: General view of ATLAS distribution unit
8/15/11/38	9835	210 x 160 mm: ATLAS rectifying units
8/15/11/39	9836	210 x 160 mm: ATLAS mains switches
8/15/11/40	9837	210 x 160 mm: ATLAS output cables and mercury switches on distribution cubicle

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Nos 441-480

8/15/12/1	9838	210 x 160 mm: ATLAS 1 - manual controls on distribution unit
8/15/12/2	9839	210 x 160 mm: ATLAS 1 - mains distribution system
8/15/12/3	9840	210 x 160 mm: ATLAS 1 - evaporative condenser
8/15/12/4	9841	210 x 160 mm: ATLAS 1 - A.C. filter panel
8/15/12/5	9842	210 x 160 mm: ATLAS 1 - mercury switches on distribution unit
8/15/12/6	9843	210 x 160 mm: ATLAS 1 - motor alternator set
8/15/12/7	9844	210 x 160 mm: ATLAS 1 - inside Star Delta Starter

8/15/12/8	9845	210 x 160 mm: ATLAS 1 - batteries
8/15/12/9	9846	210 x 160 mm: ATLAS 1 - air conditioning control panel
8/15/12/10	9847	210 x 160 mm: ATLAS 1 - mercury switches on distribution unit
8/15/12/11	9848	210 x 160 mm: ATLAS 1 - drum contactor panel
8/15/12/12	9849	210 x 160 mm: ATLAS 1 - Star Delta Starter
8/15/12/13	9850	210 x 160 mm: PEGASUS M D 4 magnetic drum head leads
8/15/12/14	9851	210 x 160 mm: ATLAS test trolley in use
8/15/12/15	9852	210 x 160 mm: ATLAS typical underdesk cables and connections
8/15/12/16	9853	210 x 160 mm: ATLAS fixed store
8/15/12/17	9854	210 x 160 mm: SIRIUS computer being linked with additional store unit
8/15/12/18	9855	210 x 160 mm: PEGASUS - a rear view
8/15/12/19	9856	210 x 160 mm: PEGASUS - a rear view of internal connections
8/15/12/20	9857	210 x 160 mm: ATLAS - typical installation - artist's impression
8/15/12/21	9858	250 x 160 mm: ATLAS - typical installation - artist's impression
8/15/12/22	9859	210 x 160 mm: ARGUS scanning control unit in data logger
8/15/12/23	9860	210 x 160 mm: ARGUS middle bay control panel
8/15/12/24	9861	210 x 160 mm: ARGUS peg board store tray
8/15/12/25	9862	210 x 160 mm: ARGUS environmental test data logger

8/15/12/26	9863	220 x 165 mm: ATLAS - a typical package
8/15/12/27	9864	210 x 160 mm: ORION power supply
8/15/12/28	9865	210 x 160 mm: ORION power supply - rear view
8/15/12/29	9866	210 x 160 mm: ORION power supply terminal board
8/15/12/30	9867	210 x 160 mm: ORION motor alternator
8/15/12/31	9868	210 x 160 mm: ORION power supply - inside view
8/15/12/32	9869	210 x 160 mm: ATLAS 1 back wiring
8/15/12/33	9870	210 x 160 mm: ATLAS 1 packages
8/15/12/34	9871	210 x 160 mm: ATLAS 1 core store
8/15/12/35	9872	210 x 160 mm: ATLAS 1 power distribution unit
8/15/12/36	9873	210 x 160 mm: ATLAS 1 test trolley
8/15/12/37	9874	210 x 160 mm: ATLAS 1 general view
8/15/12/38	9875	210 x 160 mm: ATLAS 1 - section of computer with design personnel
8/15/12/39	9876	210 x 160 mm: ATLAS 1 - section of computer with design personnel
8/15/12/40	9877	210 x 160 mm: ATLAS 1 - section of computer with design personnel
8/15/13		Nos 481-520
8/15/13/1	9878	210 x 160 mm: ATLAS 1 - section of computer with design personnel
8/15/13/2	9879	210 x 160 mm: ATLAS 1 - section of computer with design personnel
8/15/13/3	9880	210 x 160 mm: ORION central processor, bottom R/H bay, power supply unit
8/15/13/4	9881	210 x 160 mm: ORION central

		processor, bottom L/H bay, power supply unit
8/15/13/5	9882	210 x 160 mm: ORION connection to bus bar in base of bay
8/15/13/6	9883	210 x 160 mm: ORION - general view of bus bar connections
8/15/13/7	9884	210 x 160 mm: ORION - back of desk showing signal cables
8/15/13/8	9885	210 x 160 mm: ORION - back of desk showing power connections
8/15/13/9	9886	210 x 160 mm: ATLAS 1 - general view of assembly room
8/15/13/10	9887	210 x 160 mm: ATLAS 1 - general view of assembly room
8/15/13/11	9888	210 x 160 mm: ATLAS 1 - general view of assembly room
8/15/13/12	9889	210 x 160 mm: ATLAS 1 - general view of assembly room
8/15/13/13	9890	210 x 160 mm: ATLAS and TITAN - central computer for Harwell; core store co-ordinator and central computer for Cambridge
8/15/13/14	9891	210 x 160 mm: ORION - composite photograph
8/15/13/15	9892	210 x 160 mm: ATLAS - Honeywell switches
8/15/13/16	9893	210 x 160 mm: ATLAS - maintenance at Manchester University
8/15/13/17	9894	210 x 160 mm: ATLAS - test trolley
8/15/13/18	9895	210 x 160 mm: ORION - commissioning area
8/15/13/19	9896	210 x 160 mm: ORION - peripheral commissioning area
8/15/13/20	9897	210 x 160 mm: ORION - peripheral commissioning area

8/15/13/21	9898	210 x 160 mm: ATLAS - Ten Bay wiring shop
8/15/13/22	9899	210 x 160 mm: ORION control desk
8/15/13/23	9900	210 x 160 mm: Operators of ATLAS computer
8/15/13/24	9901	210 x 160 mm: AMPEX TM 2 tape decks at Cairo Mill before fitting electronics
8/15/13/25	9902	210 x 160 mm: Clock for SIRIUS
8/15/13/26	9903	210 x 160 mm: ORION leaving West Gorton for Turitz
8/15/13/27	9904	210 x 160 mm: ORION for Turitz in despatch department
8/15/13/28	9905	210 x 160 mm: ORION for Turitz in despatch department
8/15/13/29	9906	210 x 160 mm: ORION for Turitz in despatch department
8/15/13/30	9907	210 x 160 mm: ORION for Turitz in despatch department
8/15/13/31	9908	210 x 160 mm: ORION - Bryans Digitima clock
8/15/13/32	9909	210 x 160 mm: ORION central processor, showing Digitima clock
8/15/13/33	9910	210 x 160 mm: ORION - Teletype (Westrex) punch
8/15/13/34	9911	210 x 160 mm: ATLAS - tape reader TR 5
8/15/13/35	9912	210 x 160 mm: ATLAS commissioning
8/15/13/36	9913	210 x 160 mm: ATLAS commissioning
8/15/13/37	9914	210 x 160 mm: ATLAS - Friden Flexowriter with auxiliary tape reader
8/15/13/38	9915	210 x 160 mm: ATLAS - Teletype 110 paper tape punch

8/15/13/39	9916	210 x 160 mm: ATLAS - IBM 729 IV Magnetic Tape unit
8/15/13/40	9917	210 x 160 mm: ORION - Turitz installation in commissioning area
8/15/14		Nos 521-528
8/15/14/1	9918	210 x 160 mm: ORION development laboratory - air conditioning diffusers and extraction vents
8/15/14/2	9919	210 x 160 mm: ORION development laboratory - air conditioning diffusers and extraction vents
8/15/14/3	9920	210 x 160 mm: ATLAS 1 - Anelex printer
8/15/14/4	9921	210 x 160 mm: ORION - Anelex printer
8/15/14/5	9922	210 x 160 mm: ATLAS 1 - Ampex tape deck TM 2
8/15/14/6	9923	210 x 160 mm: ATLAS 1 - Creed 75 Teleprinter
8/15/14/7	9924	210 x 160 mm: ATLAS - Simulator trolley
8/15/14/8	9925	210 x 160 mm: ORION - core store power supply unit
8/15/15		Index to above photo numbers 1-528 [1 volume]
8/15/15		Small book containing index cards with typed details of all the pictures in 8/15/1 to 8/15/14
8/15/16		ICL 35mm slide collection; hanging files [1 box]
8/15/16		Filebox containing duplicates (sometimes multiples) of certain pictures from 8/15/1 to 8/15/14
8/16		ICL 35mm slide collection; hanging files [1 box]

A Banker's Box containing 35 mm slides in 94 hanging files. Each file is labelled, from 8/16/1 to 8/16/94. Within each file, individual slides are not labelled.

		No of slides	
8/16/1	9926- 9944	19	The Punched Card
8/16/2	9945- 9965	21	1890s to 1930s: Typical Hollerith Equipment
8/16/3	9966- 9968	3	1930s: British Tab Printer and Lister
8/16/4	9969- 9983	15	1890 - 1924: Typical Hollerith Punched Cards
8/16/5	9984- 10006	23	c1910 - 1930: British Tab Snapshots
8/16/6	10007- 10030	24	ICT Basic Principles of Punched Card Data Processing (1 of 5)
8/16/7	10031- 10052	22	ICT Basic Principles of Punched Card Data Processing (2 of 5)
8/16/8	10053- 10076	24	ICT Basic Principles of Punched Card Data Processing (3 of 5)
8/16/9	10077- 10098	22	ICT Basic Principles of Punched Card Data Processing (4 of 5)
8/16/10	10099- 10111	13	ICT Basic Principles of Punched Card Data Processing (5 of 5)
8/16/11	10112- 10135	24	LO/7 - LogicLayer/PCB (PCBs at Kidsgrove)
8/16/12	10136- 10158	23	LO/1 - LogicLayer/PCB
8/16/13	10159- 10163	5	Manufacturing and Numerical Control
8/16/14	10164- 10187	24	Shrinking Technology
8/16/15	10188- 10211	24	Elliott Computers and Assemblies (1 of 2)
8/16/16	10212-	19	Elliott Computers and Assemblies

	10230		(2 of 2)
8/16/17	10231- 10254	24	c1980: Production - Multi-layer Boards
8/16/18	10255- 10271	17	LogicLayer/Platters
8/16/19	10272- 10295	24	ICT 21 and 40 column Equipment (Formerly Powers Samas)
8/16/20	10296- 10312	17	ICT/ICL Keyboard Punches and Verifiers
8/16/21	10313- 10315	3	ICT/ICL 80 col Sorter
8/16/22	10316- 10325	10	ICT/ICL Interpreters, Collators and Auto Verifiers
8/16/23	10326- 10333	8	ICT/ICL 80 col Reproducers and Gang Punches
8/16/24	10334- 10345	12	BTM/ICT/ICL Tabulators 700 and 900 Series
8/16/25	10346- 10366	21	Punched Card Data Preparation Equipment 071/072/171; 1027/1028
8/16/26	10367- 10372	6	ICT Card Tape Conversion 1000 Series
8/16/27	10373- 10384	12	ICT 500 Series Electronic Multipliers/Calculators/Computers; 1004 Data Processor
8/16/28	10385- 10395	11	BTM/ICT 1201/1202 Computers
8/16/29	10396- 10405	10	1301 Computer; 1500 (RCA 301) Computer; KDF 6
8/16/30	10406- 10422	17	ICT 8500 Sorter/Reader
8/16/31	10423- 10443	21	8000 Series Universal Document Transport & Optical Character Recognition
8/16/32	10444- 10467	24	c1969: ICL Yours faithfully, the computer (Based on 1900 series) (1 of 3)
8/16/33	10468- 10491	24	c1969: ICL Yours faithfully, the computer (Based on 1900 series) (2

			of 3)
8/16/34	10492- 10508	17	c1969: ICL Yours faithfully, the computer (Based on 1900 series) (3 of 3)
8/16/35	10509- 10532	24	1900 Series
8/16/36	10533- 10556	24	ICT - Techniques of Computer Management (1 of 2)
8/16/37	10557- 10561	5	ICT - Techniques of Computer Management (2 of 2)
8/16/38	10562- 10585	24	1900 Series Central Processor and Interrogating Typewriter
8/16/39	10586- 10609	24	1900 Series Printers and Mechanisms (1 of 3)
8/16/40	10610- 10630	21	1900 Series Printers and Mechanisms (2 of 3)
8/16/41	10631- 10648	18	1900 Series Printers and Mechanisms (3 of 3)
8/16/42	10649- 10672	24	1900 Series Disc Files (1 of 2)
8/16/43	10673- 10696	24	1900 Series Disc Files (2 of 2)
8/16/44	10697- 10720	24	1900 Series 2101, 2102, 2104 Card Readers
8/16/45	10721- 10738	18	1900 Series 2201 Card Reader/Punch, 1911 Card Reader, 1920/1921/1922 Card Punches
8/16/46	10739- 10762	24	1900 Series Paper Tape Readers and Paper Tape Punches
8/16/47	10763- 10786	24	1900 Series Interior shots
8/16/48	10787- 10810	24	1900 Series - The 1901
8/16/49	10811- 10834	24	1900 Series Miscellaneous Peripherals, Computer Hall and Assembly shots
8/16/50	10835- 10858	24	1900 Series Software and General Information (1 of 2)
8/16/51	10859-	24	1900 Series Software and General

	10882		Information (2 of 2)
8/16/52	10883- 10895	13	1900 Series Applications - PROMPT
8/16/53	10896- 10919	24	c1964: 1900 Series Applications - INVENTORY MANAGEMENT (1 OF 4)
8/16/54	10920- 10943	24	c1964: 1900 Series Applications - INVENTORY MANAGEMENT (2 OF 4)
8/16/55	10944- 10967	24	c1964: 1900 Series Applications - INVENTORY MANAGEMENT (3 OF 4)
8/16/56	10968- 10987	20	c1964: 1900 Series Applications - INVENTORY MANAGEMENT (4 OF 4)
8/16/57	10988- 11011	24	1900 Series Applications - FIND (1 of 3)
8/16/58	11012- 11035	24	1900 Series Applications - FIND (2 of 3)
8/16/59	11036- 11041	6	1900 Series Applications - FIND (3 of 3)
8/16/60	11042- 11062	21	1900 Series Applications - FIND
8/16/61	11063- 11086	24	1900 Series Applications - NIC Indexing and Cataloguing (1 of 2)
8/16/62	11087- 11097	11	1900 Series Applications - NIC Indexing and Cataloguing (2 of 2)
8/16/63	11098- 11112	15	1900 Series Applications - COMPAY
8/16/64	11113- 11136	24	1900 Series Applications - NIMMS (1 of 4)
8/16/65	11137- 11160	24	1900 Series Applications - NIMMS (2 of 4)
8/16/66	11161- 11184	24	1900 Series Applications - NIMMS (3 of 4)
8/16/67	11185- 11208	24	1900 Series Applications - NIMMS (4 of 4)
8/16/68	11209- 11232	24	1900 Series Applications - PERT (1 of 2)
8/16/69	11233-	24	1900 Series Applications - PERT (2

	11256		of 2)
8/16/70	11257- 11280	24	1900 Series Applications - PROSPER (1 of 2)
8/16/71	11281- 11290	10	1900 Series Applications - PROSPER (2 of 2)
8/16/72	11291- 11309	19	1900 Series Program Instructions: Compare values of X and Y
8/16/73	11310- 11314	5	c1965: MATADOR - Magnetic Tape Data Recorder
8/16/74	11315- 11324	10	mid 1970s: 2903/2904
8/16/75	11325- 11345	21	7020 Basic Terminal Control and Logic
8/16/76	11346- 11369	24	c1974: 7902 Teleprocessing System
8/16/77	11370- 11387	18	Key Edit
8/16/78	11388- 11407	20	2900 Range
8/16/79	11408- 11430	23	AF/4 (2950)
8/16/80	11431- 11452	22	AH/15 (2960)
8/16/81	11453- 11460	8	AJ/2 (2972) and AK/4 (2976)
8/16/82	11461- 11481	21	AM/2 (2980)
8/16/83	11482- 11497	16	7500R/7502
8/16/84	11498- 11514	17	Friden 4300
8/16/85	11515- 11538	24	Singer 1500
8/16/86	11539- 11559	21	CB/2 1500R
8/16/87	11560- 11578	19	CF/3 1500R
8/16/88	11579- 11598	20	CG/3 1500R
8/16/89	11599- 11619	21	CJ/2 1500R
8/16/90	11620- 11633	14	1500 Factory
8/16/91	11634- 11657	24	KA/1 ME29

8/16/92	11658- 12	System Ten-120; System 25
	11669	
8/16/93	11670- 5	DRS 20; PC
	11674	
8/16/94	11675- 24	OFFICEPOWER
	11698	

8/17 **ICL collection of negatives and transparencies; hanging**

A Banker's Box containing negatives and transparencies in 135 hanging files. Each file is labelled, from 8/17/1 to 8/17/135. Within each file, individual images are not labelled. The 'No of images' column shows 'N' for negatives and 'T' for transparencies.

18/17/1	11699- 4N	Powers Samas Equipment
	11703	
18/17/2	11704- 4N	Powers Samas Equipment
	11707	
18/17/3	11708- 4N	Powers Samas Equipment
	11711	
18/17/4	11712- 4N	Powers Samas Equipment
	11715	
18/17/5	11716- 4N	Powers Samas Equipment
	11719	
18/17/6	11720 1N	Cabling
18/17/7	11721- 9T	Historical ATLAS C.A.D. Cambridge
	11729	
18/17/8	11730- 4T	English Electric KDF9 & KDP10
	11733	Packages
18/17/9	11734- 4T	c1963: Component Development :
	11737	DEUCE - KDF9 - SYS 4; KDF6
18/17/10	11738- 4T	English Electric KDF9
	11741	
18/17/11	11742- 4T	English Electric KDP10
	11745	
18/17/12	11746- 4T	English Electric KDP10 Units
	11749	
18/17/13	11750- 2T	English Electric KDN2
	11751	
18/17/14	11752- 4T	1966: English Electric LEO 3
	11755	
18/17/15	11756- 4T	1964: EELM (English Electric LEO
	11759	Marconi) LEO 3 Peripherals
18/17/16	11760 1T	Autolector

18/17/17	11761- 11763	3T	English Electric Peripherals - Paper Tape Readers
18/17/18	11764- 11766	3T	English Electric Peripherals - Magnetic Tape Readers
18/17/19	11767- 11769	3T	English Electric - Miscellaneous Equipment
18/17/20	11770- 11773	4T	1970s-1980: Integrated Circuits
18/17/21	11774- 11776	3T	Silicon Chip
18/17/22	11777- 11779	3T	1979-1980: Silicon Chip
18/17/23	11780- 11789	10T	System 4
18/17/24	11790- 11793	4T	System 4
18/17/25	11794- 11797	4T	System 4
18/17/26	11798- 11801	4T	System 4
18/17/27	11802- 11814	13T	1900 Series
18/17/28	11815- 11826	12T	1900 Range
18/17/29	11827- 11841	15T	1900 Range
18/17/30	11842- 11852	11T	1900 Range
18/17/31	11853- 11862	10T	1900 Range
18/17/32	11863- 11866	4T	1900 Range
18/17/33	11867- 11868	2N	1900 Range
18/17/34	11869- 11878	10T	1900 Range
18/17/35	11879- 11882	4T	1900 Range
18/17/36	11883- 11897	15T	7020 Communications Equipment
18/17/37	11898- 11904	7T	7020 Communications Equipment
18/17/38	11905- 11910	6T	7181 VDU
18/17/39	11911- 11919	9T	1500 Range
18/17/40	11920- 11933	14T	1500 Range

18/17/41	11934-	15T	
	11948		1500 Range
18/17/42	11949-	11T	
	11959		1500 Range
18/17/43	11960-	13T	
	11972		1500 Range
18/17/44	11973-	13T	
	11985		1500 Range
18/17/45	11986-	14T	
	11999		1500 Range
18/17/46	12000-	10T	
	12009		1500 Range
18/17/47	12010-	15T	
	12024		1500 Range
18/17/48	12025-	10T	
	12034		1500 Range
18/17/49	12035-	10T	1500 Line Printer
	12044		
18/17/50	12045-	15T	7500 Range
	12059		
18/17/51	12060-	15T	7500 Range - 7501 + Hard Copy Printer and Screen
	12074		
18/17/52	12075-	15T	7502 Range - 7502 + Hard Copy Printer and VDU
	12089		
18/17/53	12090-	8T	7503 Range
	12097		
18/17/54	12098-	15T	7500 Range
	12112		
18/17/55	12113-	15T	2903
	12127		
18/17/56	12128-	15T	2903
	12142		
18/17/57	12143-	13T	2903
	12155		
18/17/58	12156-	1N, 4T	2903
	12160		
18/17/59	12161-	12T	2900 Range showing new Logo and livery
	12172		
18/17/60	12173-	14T	2950
	12186		
18/17/61	12187-	15T	2955/2956
	12201		
18/17/62	12202-	9T	2956
	12210		
18/17/63	12211-	11T	2960
	12221		
18/17/64	12222-	12T	2960
	12233		
18/17/65	12234-	4N	2960

	12237		
18/17/66	12238-	12T	2966
	12249		
18/17/67	12250-	11T	2970/2976/2977
	12260		
18/17/68	12261-	12T	2980
	12272		
18/17/69	12273-	5T	2982
	12277		
18/17/70	12278-	4T	2982
	12281		
18/17/71	12282-	11T	DRS 20
	12292		
18/17/72	12293-	11T	DRS 20 /10, /40, /50
	12303		
18/17/73	12304-	4T	DRS 20
	12307		
18/17/74	12308-	3T	DRS 8801 Wordskil
	12310		
18/17/75	12311-	10T	DRS 8801 Wordskil
	12320		
18/17/76	12321-	15T	DRS 20 Model 25
	12335		
18/17/77	12336-	3T	DRS 20 Model 10
	12338		
18/17/78	12339-	10T	System Ten-120
	12348		
18/17/79	12349-	15T	System Ten-220
	12363		
18/17/80	12364-	14T	System Ten-220
	12377		
18/17/81	12378-	10T	System Ten-220
	12387		
18/17/82	12388-	6N	Point of Sale 9500 R
	12393		
18/17/83	12394-	15T	Point of Sale 9515
	12408		
18/17/84	12409-	2T	Point of Sale 9500
	12410		
18/17/85	12411-	14T	Point of Sale
	12424		
18/17/86	12425	1T	Point of Sale 9500 R
18/17/87	12426-	13T	Point of Sale Counter Terminal
	12438		System & Printer
18/17/88	12439	1T	Point of Sale Counter Terminal
			System & Printer
18/17/89	12440-	13T	Point of Sale & Processors 900R
	12452		

18/17/90	12453- 12467	15T	Point of Sale Printers 8749
18/17/91	12468- 12476	9T	Point of Sale Counter Terminals - New colours and models
18/17/92	12477- 12487	11T	Point of Sale Counter Terminals - New colours and models
18/17/93	12488- 12495	8T	Retail Business Systems
18/17/94	12496- 12499	4T	FDC Factory Data Collection 9601
18/17/95	12500- 12501	2T	FDC Factory Data Collection 9601
18/17/96	12502	1T	FDC Factory Data Collection 9606
18/17/97	12503- 12504	2T	FDC Factory Data Collection 9605
18/17/98	12505- 12518	14T	7700
18/17/99	12519- 12523	1N, 4T	CAFS Content Addressable File Store
18/17/100	12524- 12538	15T	ME29
18/17/101	12539- 12542	4T	ME29
18/17/102	12543	1R	ME29 6969
18/17/103	12544- 12552	9T	FDS 160 (ME29)
18/17/104	12553- 12566	14T	KeyEdit
18/17/105	12567- 12579	13T	KeyEdit
18/17/106	12580- 12589	10T	KeyEdit
18/17/107	12590- 12592	1N, 2T	Microchips
18/17/108	12593- 12597	5N	Tektronic equipment for chip production. <i>With some duplicates</i>
18/17/109	12598- 12604	7N	Tektronic equipment for chip production. <i>With some duplicates</i>
18/17/110	12605- 12611	7N	Tektronic equipment for chip production. <i>With some duplicates</i>
18/17/111	12612- 12625	1N, 3T	Cash Recording System - Wiring and inside detail

18/17/112	12626- 12630	5T	System 25 - new colours
18/17/113	12631- 12636	6T	System 25 - new colours
18/17/114	12637- 12649	13T	System 25 - new colours
18/17/115	12650- 12652	3T	System 25 - new colours
18/17/116	12653- 12661	9T	System 25 - new colours
18/17/117	12662- 12663	2T	Network Processor System
18/17/118	12664- 12669	6T	Option Selection Terminal
18/17/119	12670- 12671	1N, 1T	Termiprinter
18/17/120	12672- 12686	2N, 13T	Line Printers
18/17/121	12687- 12690	4T	Line Printers
18/17/122	12691- 12705	15T	Magnetic Tape Systems
18/17/123	12706- 12713	8T	Card Readers
18/17/124	12714	1N	Line Printers
18/17/125	12715	1N	VDU (Datatext)
18/17/126	12716- 12717	2T	Bulletin
18/17/127	12718- 12732	15T	Bulletin
18/17/128	12733- 12742	10T	EDS
18/17/129	12743- 12745	3T	EDS
18/17/130	12746	1T	PERQ
18/17/131	12747- 12761	15T	PERQ
18/17/132	12762- 12775	14T	PERQ
18/17/133	12776- 12790	15T	PERQ
18/17/134	12791- 12794	4T	PERQ
18/17/135	12795- 12802	8T	PERQ

8/18 Wallet containing photos of the return of Pegasus to West Gorton for refurbishment in 1983, before its return to the Science Museum in 1988

8/18		1983: 20 photos, some duplicates, of Pegasus's return to West Gorton [It was dismantled, restored, and given back to the Science Museum in 1988. It has since been again restored to working order by the Computer Conservation Society.]
8/18/1	12803	215 x 165 mm: Pegasus dismantled, before being moved. 2 copies
8/18/2	12804	215 x 165 mm: Pegasus dismantled, before being moved; another view. 2 copies
8/18/3	12805	200 x 200 mm: Man sitting at Pegasus console, before dismantling
8/18/4	12806	200 x 200 mm: Pegasus control desk, paper tape readers, paper tape punches
8/18/5	12807	205 x 205 mm: <i>Colour print.</i> Man pulling out a package
8/18/6	12808	200 x 200 mm: Man pulling out a package
8/18/7	12809	200 x 200 mm: Pegasus drum in situ. 2 copies
8/18/8	12810	215 x 165 mm: Removal men pulling Pegasus through a doorway
8/18/9	12811	215 x 165 mm: Removal men and crane, with Pegasus on tailboard of removal van
8/18/10	12812	215 x 165 mm: Removal men and crane, with Pegasus on tailboard of removal van; another view
8/18/11	12813	250 x 175 mm: At West Gorton, pulling Pegasus out of the removal van
8/18/12	12814	250 x 175 mm: At West Gorton, pulling Pegasus out of the removal van; another view

8/18/13	12815	250 x 175 mm: At West Gorton, removal men manoeuvring Pegasus down a ramp and into a doorway
8/18/14	12816	250 x 175 mm: At West Gorton, removal men manoeuvring Pegasus down a ramp and into a doorway
8/18/15	12817	250 x 175 mm: At West Gorton, removal men manoeuvring Pegasus down a ramp and into a doorway
8/18/16	12818	250 x 175 mm: At West Gorton, removal men manoeuvring Pegasus down a ramp and into a doorway
8/18/17	12819	250 x 175 mm: At West Gorton, removal men manoeuvring Pegasus down a ramp and into a doorway

8/19 **Two wallets containing a DRS PWS presentation on 35 mm slides**

8/19 2 wallets containing 96 35 mm slides of a presentation on the DRS PWS

No of slides

8/19/1	12820- 60	DRS PWS
	12859	
8/19/2	12860- 36	DRS PWS
	12895	

***Note:** When the detailed catalogue of photographs was prepared in 2008/2009 the following items were not present and so were not included. Their present whereabouts are unknown*

8/20 3 Small cabinet drawers of 'selected negatives' from ICL Kidsgrove

8/20/1	up to 1979	b & w - some glass plates
8/20/2	1971 to 1978	b & w

8/20/3	1967 to 1978	colour
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9. House Journals, Magazines and Newsletters

9/1	1935 Nov-53 Dec	<u>The Powers-Samas Magazine</u> From 1942 sub-titled: "The Journal of Punched Card Accounting"; from
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		1947 sub-titled "The Original Journal of Punched Card Accounting". Published by Powers-Samas Accounting Machines Ltd. Vol. 1 no 5 to vol. 19 no 12. 94 issues; series incomplete.
9/2	1949 Jul-58 Jun	<u>Powers-Samas Gazette</u> The Staff Journal of the Powers-Samas Organisation. Published by Powers-Samas Accounting Machines Ltd. Nos 1 to 55. 40 issues
9/3	1937 Jan-58	<u>The Tabulator</u> Monthly Bulletin of the British Tabulating Machine Co Ltd. From 1939 July sub-titled "A Monthly Bulletin devoted to Hollerith Punched Card Accounting"; from 1952 Jan no 75 sub-titled "A Journal devoted to Hollerith Punched Card Accounting"; from 1952 Sep no 79 sub-titled "A Journal devoted to Hollerith Electric Punched Card Accounting". Published, from 1958 Jul no 98 (Golden Jubilee Issue), by Hollerith Group of Companies. Vol. 1 no 2 to no 99. 67 issues.
9/4/1	1946 Feb-51 Jul	<u>Tabacus Works</u> Journal of the British Tabulating Machine Co Ltd. No 2 to vol. 6 no 7. 54 issues; series incomplete.
9/4/2	1952 Dec-59 Jan	<u>Tabacus Magazine</u> of the British Tabulating Machine Co Ltd. From 1953 Mar no 19 sub-titled "Staff Magazine of the British Tabulating Co Ltd". Nos 16 to 88. 56 issues.
9/5	1959 Feb-66 Jul	<u>I.C.T. House Magazine</u> Nos 1 to 85. 48 issues
9/6	1967 Jan-68 May	<u>Dataline International</u> House Magazine of International Computers & Tabulators Ltd. Nos 1 to 9. 8 issues
9/7	1959-1967	<u>I.C.T. Hollerith and Powers-Samas Equipment</u> . From no 5 titled

"I.C.T."; from no 7 titled "I.C.T. data processing journal". Nos 1 to 30

9/8 1985-1987 ICL International Nos 1 to 9. 6 issues

Magazines and Newsletters (External)

9/9 1979-1982 Computer International (magazine) Summer 79, Autumn 79 Jan-Mar 80, Apr-Jun 80, Jul-Sep 80, Oct-Dec 80, Jan-Mar 81, Apr-Jun 81, Jul-Sep 81, Oct-Dec 81, Jan-Mar 82

9/10 1973-1977 Computer International (newsheet) Apr 73, Sep 84, Spring 76, Summer 76, Spring 77

9/11 Computer Scene Summer 78

9/12 (ICL) Connection (Resellers) 17 (04.92)

9/13 Data Processing Journal Issue 9 (62), 10 (62)

9/14 Datagram (European & International Divisions) 06.75, 10.75, 06.76, 10.77, 06.78, 08.78, 12.78, 03.79, 09.79, 12.79, 06.80, 09.80

9/15 Datarama Oct 77, May/June 78, July/Aug 78, Nov/Dec 78 Feb/Mar 79, Aug/Sep 79, Nov/Dec 79 Feb/Mar 80, May/June 80, Aug/Sep 80

9/16 Datarama International An international outlook of the computer industry published by ICL. Jun 75, Oct 75, Jun 76, Nov/Dec 78

9/17 Focus (International Division) Issue 1 (10.74), 3 (01.75), 4 (03.75), 5, 6, 7, 8, 9, 10 (06.76)

9/18 Focus (UK Southern Retail & Distribution) Issue 1 (04.80), 2 (07.80), 3 (08.80), 4 (11.80), 5 (03.81), 6 (03.81), 7 (07.81), 8

(02.82), 10 (07.82), 11 (11.82),
12 (09.83)

9/19 ICL World 10.91

9/20 Inform (Consultancy & Software) 53
(12.91), 56 (04.92), 71 (02.94),
73 (05.94), 77 (11.94)

9/21 Manufacturing Matters Oct 91
(newsletter), Summer 93, Autumn
93, Autumn 94

9/22 Manufacturing Today 1993

9/23 Open Exchange (Financial Services)
Issue 2

9/24 Output (UK Manufacturing Industry)
Summer 77, Spring 80, Winter 80,
Summer 81

9/25 Product Matters 1, 2 (05.93), 3
(09.93)

9/26 Radius (UK Retail & Distribution)
78, Autumn 77, Autumn 78, Autumn
79, Summer 80

9/27 Retail International 2 (95), 3
(96), 4 (96)

9/28 Retailing Tomorrow (85)

9/29 Retailing Today (87)

9/30 TeamWARE Times 2. 1994, 1. 1997,
1. 1998

9/31 The Source (High Performance
Systems) 1993 Issues 1 & 2 1994
Issues 3-8 1995 Issues 9 & 10 1996
Issues 11 & 12 1996 Issue 13 1997
Issues 14, 15 & 16 1998 Issues 17
& 18 1999 Issue 19

9/32 Strategy for Business 12 (07.97),
13 (11.97), 15 (05.98), 18
(01.99), 19 (04.99)

9/33 S4eB Strategy for e-Business

Nov/Dec 2000

Magazines and Newsletters (Internal)

9/34 Checkpoint (UK Retail) Issue 5
(08.78)

9/35 Courier 06.90, 12.90, 04.91,
06.91, 08.91, 10.91, 12.91, 02.92,
04.92, 06.92, 08.92

9/36 EuroMatters 2 (Summer 2000), 3
(Autumn/Winter 2000-01)

9/37 Financial (Review) Bulletin May
1997, May 1998

9/38 ICL & Microsoft Global Alliance
c1998

9/39 ICL Computer World (Australia)
12.70, 10.71

9/40 ICL News (UK, newspaper) 17
(11.70), 38 (12.74), 41, 42, 45,
46, 48-51, 55-63, 65-74 (09.80)
10th. Anniversary of ICL 101
(06.83), 103-106, 108-115, 117-
128, 130-136 (12.86)

9/41 ICL Magazine 1 (12.96), 2 (07.97),
3 (11.97), 4 (04.98), 5 (10.98) 1
(01.99), 2 (04.99), 4 (10.99), 5
(12.99), 6 (02.00), 7 (05.00), 8
(09.00)

9/42 ICL Newsdesk (New Zealand) 06.73

9/43 ICL Reporter (Australia) 03.68,
03.70, 11.70, 02.71, 02.72,
03.72, 05.72, 07.72, 09.72, 01.73,
04.73, 06.73, 07.73, 11.73, 01.74,
02.74, 04.74, 07.74, 06.75, [?]76,
[?]77, 04.78, 06.79, 08.79, 09.79

9/44 The M&CAZINE (UK Manufacturing &
Commercial) 1 (08.89), 2 (01.80),
3 (02.90), 4 (04.90), 5 (07.90), 6
(10.90), 7 (02.91), 8 (05.91), 9
(08.91)

- 9/45 The New MSPL (01.94)
- 9/46 Review 1 (Feb/Mar 87), 2 (Apr/May 87), 3 (Jun/Jul 87), 4 (Aug/Sep 87), 5 (Oct/Nov 87), 6 (Dec 87/Jan 88) Mar/Apr 88, May/June 88, Jul/Aug 88, Nov/Dec 88
- 9/47 Spotlight (UK National Accounts) Issue 3 (10.79), 6 (01.80), 7 (07.80)
- 9/48 STC Gazette Mar 88, Apr 89, May 89-Dec 89, Feb 90- ep 90
- 9/49 STC News (UK newspaper) 344 (12.86), 346, 349, 355, 357, 359, 361-365, 367, 368
- 9/50 Systems NEWS (Product Operations) 5 (1991), 7 (03.92), 8 (08.92)
- 9/51 two way (High Performance Systems) June 97, Dec 97, Spring 98, Summer 98, Autumn 98, Winter 98/99
- 9/52 ICL Defence Systems Marketing News 1986-1989 ICL International Defence Systems *missive* 1990-1884
- 9/53 Bulletin for the Criminal Justice Service

ICL Computer Users Association Publications

- 9/54 DRS News (DRS UA) 2 (02.92), 3 (05.92), 5 (11.92), 9 (11.93), Special 03.94
- 9/55 Ten-25 Bulletin (System Ten-25 Users Association) 34(.89), 35 (.89)
- 9/56 UserLink magazine (ICL CUA) Vol 1 Issues 2-5 05.92-11.92; Vol 2 Issues 4, 6 07.93, 11.93; Vol 3 Issues 2-6 03.94-11.94; Vol 4 Issues 1, 2, 3, 5, 6 01.95, 03.95, 05.95, 09.95, 11.95; Vol 5 Issues 2, 3, 4, 5, 6 03.96, 05.96, 07.96, 09.96, 11.96; Vol 6 Issues 1, 4, 5, 6 01.97, 07.97, 09.97,

11.97; Vol 7 Issues 1-6 01.98-
11.98; Vol 8 Issues 1-5 01.99-
09.99; Vol 9 Issues 1-3 01.2000-
05.2000

9/57

User News (ICLCUA UK) 49 (08.89),
50 (11.89)

Note: For other ICLCUA Publications, see:
32/55 1984 ICLCUA-Exploiting CAFS-ISP
32/56 1985 ICLCUA-CAFS in Action

10. ICL Printed Brochures

*NB: Brochures are grouped in bundles: 10/n
identifies the class of product or service; 10/n/n
identifies the bundle within the class*

10/1		Machines, Applications & Publicity
10/1/1	1968	Come to the Point - Decimalisation
"	1969	Guide to ICL 80 Automatic Data Processing
"	1969	An introduction to binary arithmetic
"	1970	The ubiquitous computer
"	1970	Modern computing techniques
"	1970	Decentralised computing at Delta Metal
"	1970	Enquiry response at North Thames Gas
"	1970	An introduction to electronic data processing
"	1972	An introduction to computers
"	1972	Hat Trick! - 3 Queen's Awards in 1968 and 1971
"	1970	PLAN Summarised Programming Information
"	1970	Applied Programming

	"	1971	1900 Series Application Software
	"	1975	The ICL Industrial Terminal System
	"	1981	Bulletin - A Guide for the User
	"	1985	ICL Customer Services
	"	1976	Introduction to 1900 Series Operating Systems
10/1/2			Equipment: Key-Edit, 1500 Series
	"	1970	Key-Edit
	"	1970	Key-Edit - Technical Summary
	"	1970	Key-Edit - The Key-Edit Family
	"	1971	Key-Edit Comes to Birmingham
	"	1971	Key-Edit Comes to Glasgow
	"	1971	Key-Edit - Data Preparation
	"	1972	Key-Edit
	"	1972	Key-Edit Operational Procedures - a set of 34 sheets
	"	1973	Key-Edit 1000 - Salesman's quick reference guide
	"	1973	Key-Edit 1000 - Data Entry
	"	1973	Key-Edit 1000 - Data Entry - the easy way to work
	"	1973	Key-Edit 1000 - Data Entry - a complete data preparation capability
	"	1974	Key-Edit 50 - Console quick reference guide
	"	1973	Key-Edit 50
	"	1981	Key-Edit Series 2
	"	1981	Key-Edit Series 2 Marketing Guide

	"	1978	Key-Edit 59 Phase 2 - keep it clean
	"	1977	1500 - the transaction system
	"	1978	1500
	"	1979	1500 - the small business machine
	"	1977	1500 - ADE advanced data entry
	"	1977	1500 - data: a clear capture
	"	1977	ICL SWIFT Interface Device
	"	1977	1500 - Local Government cash receipting system
	"	1977	1500 - computers in contact
	"	1977	1500 - products in progress
	"	1977	1500 - profit from power
10/1/3	"	1973-80	Equipment : 7000 & 8000 Series
	"	1977	7500 Terminal Range - Computer power where you need it
	"	1978	7500 - A terminal to support your needs
	"	1980	7500 Terminal Range - Simply the easiest way to communicate
	"	1980	7500 Terminal Range/Hardware
	"	1980	7500 Terminal Range/Information Processing
	"	1980	7500 Terminal Range/Packet Switching Terminal System
	"	1980	7500 Terminal Range/IBM 3270 Emulator
	"	1980	7500 Terminal Range/Systems Software
	"	1979	Counter Terminal System - Customer service & satisfaction

	"	1971	7600 Data collection system
	"	1980	7700 Information Processing System
	"	1981	7700 Information Processing System
10/1/4		1974-84	- Operator's ready reference guide Equipment: 2900 Computer Series
	"	1974	2900 - Your Future System - Management Overview
	"	1974	2900 - Your Future System - The Way Ahead
	"	1976	2960 - VME/K Technical Overview
	"	1976	2900 - VME/B Technical Overview
	"	1976	This is ICL; The 2900 Series (<i>In English, French & German</i>)
	"	1977	2950
	"	1977	2950 - VME Technical Overview
	"	1979	2900 - An Effective Information System?
	"	1979	2900 - 2900 for Management
	"	1979	2900 - 2900 Common Storage System
	"	1981	2900 - The Total Information System
	"	1982	2900 - The ICL 2900 Range of Computer Systems
	"	1979	ICL 2900 PERT - Effective Project Planning & Control
	"	1981	ICL PERT 2900 VME Project Evaluation & Review Technique
	"	1982	VME 2900 Security
	"	1982	VME 2900 Architecture
	"	1982	VME 2900 - A versatile service
	"	1982	VME 2900 - Comprehensive data

management

"	1982	VME 2900 - Scope for growth
"	1982	VME 2900 - Advanced communications & networking
"	1982	2957 Computer System
"	1982	2958 Computer System
"	1982	2966 Computer System
"	1982	2988 Computer System
"	1981	2900 - The New 2900 Series
"	1981	2946 Computer System
"	1981	2955 Computer System
"	1981	2966 Computer System
"	1981	2977 Computer System
"	1980	CR 300/1000 Card Readers
"	1980	GTS 310/470/780 Group coded recording tape system
"	1980	LP 360/720/1130 Line Printers
"	1980	LP 1500 Line Printer
"	1980	MDSS Modular Disc Storage System
"	1980	Operating Stations
"	1979	LP 1130 Line Printer
"	1978	Disc File Controller
"	1979	2950/20 & 2956/20 Computer Systems
"	1980	2960/10 Computer System
"	1979	2972 Computer System
"	1979	2976 Computer System
"	1979	2982 Computer System

"	1979	2946/12 Specification
"	1981	2946/31 VME System Package Specification
"	1981	2946/41 CAFS-IS Model 20 Specification
"	1981	2955/12 System Package Specification
"	1981	2955/21 Enhanced System Package Specification
"	1981	2955/31 VME System Package Specification
"	1981	2955/41 CAFS-IS Model 30 Specification
"	1981	2958/13 Basic System Package Specification
"	1981	2966/13 System Specification
"	1981	2988/13 System Specification
"	1981	2900 Series Magnetic Tape Sub System
"	1983	2900 Series Magnetic Tape Sub System
"	1983	2900 Series Modular Disc Storage System
"	1983	2900 Series Line Printers
"	1983	2900 Series 2953 System
"	1983	2900 Series 2957 System
"	1983	2900 Series 2958 System
"	1983	2900 Series 2966 System
"	1983	2900 Series 2988 System
"	1974	2900 Series - Technical Overview
10/1/5	1976-82	Equipment: System Ten, System Ten

120 and 220

- " 1977 9 Catalogue sheets:
- System 10 Model 44-3 disc drive
 - System 10 Communications software
 - System 10 Sales Ledger
 - System 10 Sales Order Processing
 - System 10 Systems for basic needs
 - System 10 Efficient distributed computing
 - System 10 Model 81 remote visual display terminal
 - System 10 Requirements Planning
- " 1977 System 10 - Start computing with System 10
- " 1976 Folder containing 21 Catalogue Sheets:
- System 10 110 Series Model 110-3
 - System 10 110 Series Model 110-4
 - System 10 110 Series Model 110-5
 - System 10 Model 82 Visual Display Unit
 - System 10 Model 45 Magnetic Tape Drive
 - System 10 Model 40 Disc Drive
 - System 10 Model 24 Processor
 - System 10 Model 70 Workstation
 - System 10 Communications Adaptor
 - System 10 Model 21 Processor
 - System 10 Model 81 Visual Display Unit
 - System 10 Model 42 Disc Drive
 - System 10 Model 51 Fast Serial Printer
 - System 10 Models 53, 54, 55 & 56 Line Printers
 - ICL Mini-Tape Cartridge
 - ICL 1550-1 Printer
 - ICL 1551 Fast Serial Printer
 - ICL 1553, 1554, 1555 & 1556 Line Printers
 - ICL 1534 Asynchronous Communications Adaptor
 - ICL Synchronous Communications Adaptor
 - ICL 1501 Transaction Terminal
 - ICL 1501-40 Transaction Terminal

- ICL 1502 Transaction Terminal
 - ICL 1503 Transaction Terminal
 - ICL 1511, 1512 Maxi-Tape Units
 - ICL 1513, 1514 Maxi-Tape Units
 - ICL 1533 Dual Mini-Cartridge Drive
- " 1977 System 10 - The complete business system
- " 1977 System 10 - System 10 in action
- " 1977 System 10 - Small Factory System
- " 1979 System 10 - INSERVE - an ICL System 10 Insurance Broking System
- " 1977 System 10 - many systems in one computer
- " 1979 System 10 120 Series - System Appreciation
- " 1979 System 10 120 Series - The complete business system
- " 1979 System 10 120 Series - Start computing with the 120
- " 1979 System 10 120 Series and 220 Series - Small factory system
- " 1979 System 10 120 Series and 220 Series - Information processing
- " 1980 ICL PROSPER 10
- " 1980 System 10 Accounting Routines - introduction to SYSTAR
- " 1977-82 System 10 Catalogue Sheets:
- Extended Requirements Planning
 - Industry 3 Safes Factory Terminal System (2 copies)
 - Model 66 fast serial printer
 - Model 120 processor
 - SAFES factory system
 - Factory costing system
 - Work-in-progress
 - Inventory control
 - The model 85 local visual display terminal

- Model 45 magnetic tape drives
- Model 44-1 disc drive
- Complete system for publishers
- Software systems
- Conversational computing
- ICL makes a good system better

10/1/6

Equipment: [Miscellaneous:
includes DAP, ATLAS 10, LPS 14,
LPS 10]

- " 1976 What can this new tape deck do for you?
- " 1978 DAP (In English French & German)
- " 1982 ATLAS 10
- " 1978 Laser Printing System LPS 14 - How the laser printer works
- " 1978 Laser Printing System LPS 14 - A new approach to output printing
- " 1978 Laser Printing System LPS 14
- " 1978 Laser Printing System LPS 14 - Product Specification
- " 1978 Laser Printing System LPS 14 - Consumables
- " 1978 Laser Printing System LPS 14 - Laser Printing System & Paper Handling

10/1/7

1977-87

Equipment:
900 Point of Sale
9400 Option Selection Terminal
9500 Point of Sale
9600 Factory Terminal System

- " 1976 ICL 902 Point of Sale Terminal
- " 1976 ICL 909 Point of Sale Terminal
- " 1976 ICL 925 Point of Sale Terminal
- " 1976 ICL 929 Point of Sale Terminal
- " 1977 ICL 931 Point of Sale Terminal

"	1982	OST Option Selection Terminal - Telephone Selling
"	1982	OST Option Selection Terminal - Specialist Retail Terminal
"	1982	OST Option Selection Terminal - Fast accurate information at a touch
"	1983	9400 Option Selection Terminal
"	1978	9500 Retail Business Systems
"	1978	9500 Retail Business Systems - Department Stores
"	1978	9500 Retail Business Systems - Retail systems in duty free shops
"	1978	9500 range for the public utilities
"	1978	9500 range in local government
"	1978	Retail Business Systems - 9500 Series software
"	1978	Retail Business Systems - 9510 Point of Sale Terminal
"	1978	Retail Business Systems - 9512 Point of Sale Terminal
"	1978	Retail Business Systems - 9520 Multi-terminal cartridge collection system
"	1978	Retail Business Systems - 9521 Communicating cartridge collection system
"	1978	Retail Business Systems - 9530 Merchandise ticket reader
"	1978	Retail Business Systems - 9531 OCR wand reader
"	1978	Retail Business Systems - 9540 System controller

"	1978	Retail Business Systems - 9500 Series maintenance policy
"	1981	Retail Business Systems - 9505 Point of Sale Terminal
"	1981	Retail Business Systems - 9507 Point of Sale Terminal
"	1981	Retail Business Systems - Retail 81 Variety Store Information System
"	1981	Retail Business Systems - Retail 82 Specialist Store Information System
"	1981	Retail Business Systems - Retail 83 Department Store Information System
"	1981	Retail Business Systems - Retail 84/85 Department Store Information System
"	1981	Retail Business Systems - 9515 Master Slave System
"	1981	Retail Business Systems - Concurrent Communicating Diskette Recording System
"	1983	ICL Retail Systems
"	1983	ICL Retail Systems - 9505/9507 Point of Sale Terminals
"	1983	ICL Retail Systems - 9516 Point of Sale Terminal
"	1983	ICL Retail Systems - 9518 Modular Point of Sale Terminal
"	1984	ICL Retail Systems - Holographic Scanner
"	1984	ICL Retail Systems - Retail 7 Software
"	1984	ICL Retail Systems - DRS Level 1 Retail Application Processor

"	1984	ICL Retail Systems - Decision Support - Opening up the store
"	1986	ICL Retail Systems - Supermarket 20
"	1985	Retailing Tomorrow - the impact of Technology on Retailing
"	1980	9600 ICL Industry 3 - the driving software for 9600 terminals on System 10
"	1979	ICL 9601 Factory Terminal
"	1979	ICL 9602 Factory Terminal
"	1979	ICL 9603 Factory Terminal
"	1979	ICL 9605 Attendance Station
"	1980	ICL 9606 Attendance terminal
"	1979	ICL 9635 Large controller & software
"	1981	ICL 9600 Systems in manufacturing
"	1978	Retail Business Systems - 9530 Merchandise ticket reader
"	1976	ICL 720 Optical Character Recognition Reader
"	1976	ICL 805 Communicating Cartridge Collection System
"	1976	ICL 826 Multi-Terminal Cartridge Collection System
"	1977	ICL Industrial Terminal System - 7641/01 Keyboard terminal
"	1977	ICL Industrial Terminal System - 7643/01 Time & attendance terminal
"	1977	ICL Industrial Terminal System - 7642/01 Composite terminal
10/1/8	1979-85	Viewdata, Bulletin

	"	1980	BULLETIN
	"	1981	Office Automation
	"	1981	BULLETIN Product Summary
	"	1981	BULLETIN A Guide for the User
	"	1981	BULLETIN Sales Guide (Company Restricted)
	"	1982	BULLETIN - ICL's Viewdata System
	"	1983	ICL Distributed Office Systems - BULLETIN - ICL's advanced videotex system
	"	1983	ICL Distributed Office Systems - VIDEOTEX: Bulletin - The power to transform your mainframe into an office system
10/1/9		1980-84	Equipment: ME 29
	"	1980	ME-29 - A Guide for the User
	"	1980	ME-29 - System Event Evaluation Guide
	"	1980	ME-29
	"	1980	ME-29 - Marketing Guide (Company Restricted)
	"	1980	ME-29 - The Manufacturing System
	"	1981	ME-29 - The Information Manager
	"	1980	ME-29 - ICL in the Public Corporations
	"	1980	ME-29 - TME Training
	"	1980	ME-29 - Systems Appreciation
	"	1980	ME-29 - Folder containing 33 Data Sheets: - ME-29 - Model 35 General Purpose System - ME-29 - Model 35 Technical Specification

- ME-29 - Model 35 Network Node
- ME-29 - Model 37 Technical Specification
- ME-29 - Model 45 Technical Specification
- ME-29 - Model 35 Data Capture System
- ME-29 - Model 35 Transaction Processing System
- ME-29 - Multi-Purpose Workstation
- ME-29 - 60kByte Magnetic Tape System
- ME-29 - Line Printers
- ME-29 - PBS 360 Line Printer
- ME-29 - PBS 720 Line Printer
- ME-29 - PBS 1130 Line Printer
- ME-29 - 3541 Transaction Printer
- ME-29 - 3542 Matrix Printer
- ME-29 - Local Matrix Printer
- ME-29 - Modular Disc Storage System
- ME-29 - Modular Disc Storage System Model 20
- ME-29 - Modular Disc Storage System Model 40
- ME-29 - ME-29 Flexidrives
- ME-29 - 7500 Modular Terminal System
- ME-29 - ICL 7700 Information Processing System
- ME-29 - 1500 Series Off-Line Data Capture
- ME-29 - Direct Data Entry System
- ME-29 - Communications
- ME-29 - P D S
- ME-29 - Multi-access computing service
- ME-29 - The Integrated Data Management System
- ME-29 - The Data Dictionary System
- ME-29 - TME
- ME-29 - TME Training
- ME-29 - Model 37 Technical Specification
- ME-29 - Bulletin Product Summary

" 1981

ME-29 - Educational Systems

" 1981

ME-29 - The versatile system for

		businesses of all sizes
"	1982	ME-29 - Overview
"	1982	ME-29 - User Guide
"	1982	ME-29 - Systems Appreciation
"	1982	ME-29 - Configuration Guide
"	1982	ME-29 - The living system
"	1982	ME-29 - TME Training
"	1981	ME-29 - Investmaster
"	1984	ME-29 - Problem Solving Power
10/1/10	1981-86	Equipment: System 25
"	1981	System 25 - The new small computer for the growing business
"	1981	System 25 - Folder containing 16 Catalogue Sheets: - Types 3462 & 3463 fixed & exchangeable disc stores - Type 3464 flexible disc drive - Type 3442 fast serial printer - Type 3451 magnetic tape system - Type 3441 video had copy printer - Type 3445 line printer - Type 3452 cartridge tape - Type 3484 remote visual display terminal - Type 3485 local visual display terminal - Type 2385 local visual display terminal - communications network facilities - DMF III - Languages - Interactive Applications Support - System 25 basic packages - Type 3487 Word Processing Visual Display Terminal & Type 7575 Correspondence Quality Printer
"	1981	System 25 - Training

"	1981	System 25 - The business solution
"	1981	System 25 - Systems appreciation
"	1981	System 25 - for distributed processing
"	1981	System 25 - for people who use System 10
"	1981	System 25 - Folder containing 5 Application Brochures - Manager 25 - Ledger 25 - Inform 25 - Pay 25 - Order 25
"	1982	System 25 - Configuring Guide
"	1982	System 25 - Interactive Applications Support
"	1982	System 25 - Introduction to SAFES 25 Small Factory System
"	1982	System 25 - INFORM 25 - Information at your fingertips - fast!
"	1982	System 25 - DEPARTMENT 25 - Control Your Store, Improve Your Profits
"	1982	System 25 - PERSONNEL 25 - Personnel Information System
"	1982	System 25
"	1982	System 25 - PROSPER 25 - Financial Modelling for System 25
"	1982	System 25 - TEXT 25 - Word and Information Processing
"	1982	System 25 - Bundle of 17 Catalogue Sheets: - Type 3445 Line Printer - Type 3443 & 3444 Fast Serial Line Printers - Remote Matrix Printers - Type 3452 Cartridge Tape

- Type 3451 Magnetic Tape System
- Type 3464 Flexible Disc Drive
- Type 3462 Exchangeable Disc Store & Type 3463 Fixed Disc Store
- Integral Disc Storage
- Type 3485 Local Visual Display Terminal
- Type 3484 Remote Visual Display Terminal
- Entry Level/Small System Packages Models 41, 42, 52
- Medium System Packages Models 64, 65, 66
- Large System Packages Models 70, 71, 72
- Large System Packages Models 71, 72, 73
- Languages
- DMF III
- Interactive Applications Support

" 1984 System 25 - WORDSKIL 25

" ICL Software in Profile - Porsche Cars

10/1/11 1981-87 Equipment: Distributed Resource Systems (DRS)

" 1981 DRS 20 - Personal computing for professionals

" 1982 DRS 20 - Distributed Access System Models 6, 16, 30 & 33

" 1982 DRS 20 - Distributed Resource Systems Series 20 Distributed Access System (2 Copies)

" 1982 DRS 20 - Distributed Processing Systems

" 1983 Distributed Office Systems DRS 20 Series - Distributed Resource System

" 1983 Distributed Office Systems DRS 20 Series - The evolutionary office system

" 1983 ICL Information Systems - An

introduction to information technology

" 1983 ICL Distributed Office System - A new era in office technology

" 1982-84 Catalogue Sheets:

- DRS 20 Distributed Text Manager
- DRS 20 Model 10 Intelligent Work Station
- DRS 20 Model 16 Interactive Video Terminal
- DRS 20 Model 30 Terminal Cluster System
- DRS 20 Model 40 - Diskette Processing System
- DRS 20 Model 50 - Disc Processing System
- DRS 20 Networks
- DRS 20 System Software
- DRS 20 DRX System Software for the Model 16 Interactive Video & the Model 30 Clustered Terminal System
- DRS 20 Programming Language
- DRS 20 Magnetic Tape Devices
- DRS 20 Transition from ICL 1500 Systems
- DRS 20 Workstation Furniture
- DRS 20 Model 3181 & 3184 Matrix Printers
- DRS 20 Matrix Printers
- DRS 20 Line Printers

" 1984 DRS 20 Networks - Distributed Access Systems

" 1984 DRS 20 - Distributed Text Manager

" 1984 DRS 20 - Model 25 Desk Top Computer System

" 1984 ICL Services - DRS 20 Training

" 1984 DRS 20 - Matrix Printers 3181, 3184 3185 (2 Copies)

" 1984 DRS 20 - Model 40 Distributed Processing System

" 1984 DRS 20 - Distributed Text Manager

Version 2

"	1984	DRS 20 - IBM Communications
"	1984	DRS 20 - ICL Communications
"	1984	DRS 20 - DRX Operating System
"	1984	DRS 20 - Basic Version 3
"	1984	DRS 20 - Pascal Version 3
"	1984	DRS 20 - CIS COBOL Version 4
"	1984	DRS 20 - Local & Wide Area Network Interconnections Distributed Processing Systems
"	1984	DRS 20 - Correspondence Printer 6201 & 6202
"	1984	DRS 20 - Line Printer 6204
"	1984	DRS 20 - Model 110 Intelligent Workstation
"	1984	DRS 20 - Model 25 Desk Top Computer System
"	1984	DRS 20 - Model 120 Desk Top Computer System
"	1984	DRS 20 - Model 125 Desk Top Computer System
"	1984	DRS 20 - Model 50 Disc Processing System
"	1984	DRS 20 - Upgrades to Models 10, 20, 25, 40, 50
"	1984	DRS 20 - Model 128 Disc Processing System
"	1984	DRS 20 - Model 150 Disc Processing System
"	1984	DRS 20 - Ordering & Configuring Guide (Company Restricted)
"	1984	DRS 20 - Systems Appreciation

	"	1984	DRS 300 - A Technical Overview
	"	1984	ICL Software - Business 20 - Accounting for your business with DRS 20
	"	1984	ICL Software - Planner 20 - Project planning using DRS 20
	"	1984	ICL Software - Personnel 20
	"	1984	ICL Software - Personnel 20 - Implementation Planner
10/1/12		1981-86	Equipment: Graphics - PERQ
	"	1981	PERQ - ICL helps shape the future
		1928	PERQ - PNX Operating System
	"	1982	PERQ - Management Overview
	"	1982	PERQ - Seeing is believing
	"	1982	PERQ - The definitive graphics workstation
	"	1982	PERQ - Communications & networking
	"	1982	PERQ - Software
	"	1982	PERQ - Grafiks - increased productivity for graphics programmers
10/1/13		1982-86	Equipment: Personal Computer
	"	1982	The ICL Personal Computer
	"	1983	The ICL Personal Computer sorts the serious microcomputers from the toys
	"	1983	HI-LINK - The Complete Business Solution for the ICL Personal Computer
	"	1983	ICL Personal Computer - the small business system with the big name behind it

	"	1984	ICL Personal Computer - the team member that doesn't play games
	"	1985	ICL Personal Computer - personalised perfection
	"	1985	ICL Personal Computer - Model 10
	"	1985	ICL Personal Computer - Model 30
	"	1985	ICL Personal Computer - Models 31 & 32
	"	1985	ICL Personal Computer - Models 3181 & 3184
	"	1985	ICL Personal Computer - Model 6202 Correspondence Quality Printer
	"	1985	ICL Personal Computer - Model 6402
	"	1985	ICL Personal Computer - Models 6201 & 6202 Correspondence Quality Printers
	"	1985	ICL Personal Computer - Models 3181, 3184 & 3185 Matrix Printers
	"	1985	ICL Personal Computer - Model 6402 Monochrome Display Unit & Keyboard
	"	1985	ICL Personal Computer - Model 6404 colour video terminal
10/1/14		1982-85	Equipment: Word Processing - 8801
	"	1982	DRS 8801 - Wordskil 8801 Word Processor - A superior system
	"	1983	Distributed Office Systems Word Processing - A superior system for today and a building block for tomorrow
	"	1984	7122 Standalone Word Processing System
	"	1984	7125 Multifunction Word Processing System
	"	1982	DRS Wordskil 8800 - Model 8801

		Networked Office System Workstation
10/1/15	1984-86	Equipment: One Per Desk (OPD)
"	1984	Review of OPD in <i>Personal Computer World</i>
"	1984	OPD One Per Desk - Management Time - A Key Resource
"	1984	OPD One Per Desk
"	1984	OPD One Per Desk - The facts and Figures
"	1984	OPD One Per Desk - UK price list November 1984
10/1/16	c.1965-75	Equipment: System 4
"	1971	International Computers and System 4
"	Undated	System 4 Information Manual
"	1969	System 4 - 4-70 Computer System
"	1969	System 4 - Video Data Terminals
"	1969	System 4 - Data Communications Facilities
"	1969	System 4 - Multi-channel Communications Control Unit
"	1972	Introduction to System 4 Operating Systems
"	Undated	System 4 - Multi-access Computing
"	1969	System 4 - Network Planning PERT
"	1972	LACES - London Airport Cargo EDP System
"	1972	Trustee Savings Bank
"	Undated	English Electric Leo Marconi - System 4-30
"	Undated	English Electric Leo Marconi -

		System 4-50
	"	Undated English Electric Leo Marconi - System 4-70
	"	Undated English Electric Leo Marconi - Multi-access computing
10/1/17		1968-74 Equipment: ICL 80 Processor; 1900 Series
	"	1969 Computers and data processing equipment
	"	Undated One-time recording for multi-processing
	"	1969 1027/1028 paper tape preparation
	"	1969 Card-programmed punched card preparation
	"	1971 Meet the computer
	"	1970 ICL 1900 Series
	"	1969 1900 Series - 1901A computer system
	"	1970 ICL 1901A - the computing power-pack
	"	1970 ICL 1901A, 1902A & 1903A computer systems
	"	1970 ICL 1904A computer system
	"	1970 ICL 1906A computer system
	"	1971 The 1906A computer system - an introduction
	"	1971 International Computers and the 1900 S
	"	1972 Decisive management response
	"	1972 1900 Series computer communications - outline specification

	"	1969	1900 Series data communications
	"	1971	Plain and simple - Universal Document Reader
	"	1969	1900 Series software
	"	1968	Network Planning - PERT
	"	1972	PERT - Network Planning for Management
	"	1967	Production Control - PROMPT
	"	1968	Distribution networks - O.R. techniques
	"	1969	Inventory management - SCAN
	"	1970	Inventory management - SCAN 3
	"	1969	Information Retrieval - FIND
	"	1970	Information Retrieval - FIND 2
	"	1969	Profit Evaluation - PROP
	"	1970	Financial Evaluation - PROSPER
	"	1972	Managing with PROSPER
	"	1973	PROSPER
	"	1969	Indexing & Cataloguing - NIC
	"	1969	PLUTO disc file handling
10/1/18		1969-76	Equipment: 1900 Series
	"	1969	Computers in Defence
	"	1969	ICL in medicine
	"	1970	Simply NICOL - The easy way to economic programming
	"	1970	1900 Series AUTOKON
	"	1971	ICL in the construction industry
	"	1971	Computers in print

	"	1971	Data-base technology
	"	1971	Remote testing service
	"	1971	Optical Character Recognition
	"	1972	AGIPAC
	"	1972	ICL computer communications - Fast response production monitoring at ICL Letchworth
	"	1972	NIMMS in the manufacturing industries
10/1/19		1973-79	Equipment: 2903/4/5 Computer System
	"	1973	2903 System Introduction
	"	1974	2903 - Your sleepless partner
	"	1977	2903/3-
	"	1978	MINIMAC - your key to 2903
	"	1978	The 2903 Range from ICL
	"	1979	2905 Catalogue Sheet
10/2			Applications
10/2/1		1969-86	Applications [Miscellaneous]
	"	Undated	LIDO Design Automation System - an outline description
	"	1970	The impact of human and organisational problems on the introduction of computer systems
	"	1970	Management science for business problems - a salesman's guide
	"	1971	Management science for business problems
	"	1979	Ordermaster - so many solutions to so many problems
	"	1980	QPG - the short answer to so many

questions

	"	1982	Application Software - Making your computer work for you
	"	1979	Routemaster - An introduction to vehicle scheduling and routing using Routemaster
	"	1979	VEHICL - A vehicle fleet cost management system
	"	1981	Fleetmaster - A fleet management system from ICL - an overview
	"	1980	Fleetmaster - the computer approach to vehicle fleet management
10/2/2		1976-82	Applications - IDMS
	"	1976	IDMS Integrated Database Management System - ICL Training
	"	1976	IDMS - Technical Overview
	"	1976	IDMS - The way to view your data
	"	1980	IDMS - ICL Software - data management
	"	1981	IDMS - ICL Software - data management - Technical Overview
	"	1982	IDMSX - Integrated Database Management System Extended Version
	"	1982	IDMSX - Integrated Database Management System Extended Version - Technical Overview
10/2/3		1980-86	Applications - Various
	"	1980	ICL PERT - Project Evaluation and Review Technique 1900 Series, 2903 Range, ME 29, 2900 DME
	"	1981	ICL PERT - A Technical Overview - How to stay one step ahead from start to finish
	"	1980	Corporate Planning - The prime

		function of management?
	" 1980	Corporate Planning - Business Planning, Financial Planning, Data Analysis - A Salesman's Guide
	" 1980	Project Control - How to stay a step ahead from start to finish
	" 1980	Project Planning & Control - Salesman's Guide to ICL PERT
	" 1980	ICL PACKAGE X
	" 1980	ICL and the newspaper industry - Advertman
	" 1979	BACS and BACSTER - The profitable partnership
	" 1979	BACSTER - The profitable partnership
	" 1979	COMPAY + - the package to help you through the payroll jungle
	" 1981	Health care systems
	" 1986	ICL Defence Systems
10/3	1980-83	Applications - Various
	" 1980	The Computer and its place - PLANNING
	" 1980	The Computer and its place - HOUSING
	" 1980	The Computer and its place - SOSCIS
	" 1980	ICL Prosper Star
	" 1980	Prosper Star
	" 1980	Prosper Plus
	" 1980	Prosper Ten
	" 1980	CARDS - The ICL approach to the management of networks and

		distribution systems
	" 1983	Networked Product Line
10/4	1975-85	Applications Software
	" Undated	ICL Business Solutions
	" 1985	ICL Management Support
	" 1985	Decision Conferencing
	" 1982	ADEMS
	" 1982	COBOL Manager
	" 1980	Interactive BASIC
	" 1975	LAMIS - Local Authority Management Information System
	" 1983	ICL in Public Administration
	" 1983	ICL in Local Government - LOHMACS
	" 1985	ICL Information Systems
10/5	1968-86	Applications in Manufacturing Industry
	" 1979	Planned Maintenance System - An appreciation
	" 1976	Manufacturing for Profit - The ICL Contribution
	" 1980	Introduction to SAFES - Small Factory System
	" 1979	OMAC Online Manufacturing Control (2 copies)
	" 1981	Introduction to OMAC 29 - Manufacturing Database
	" 1981	Introduction to OMAC 29
	" 1982	OMAC 29 Online Manufacturing Control
	" 1979	OMAC Stock Control

"	1979	OMAC Work-In-Progress
"	1979	OMAC Completion Time Estimation
"	1979	OMAC Cost Establishment
"	1979	OMAC Requirements Planning
"	1979	OMAC Bill of Materials
"	1983	<p>OMAC 29 Consultancy Catalogue Sheets:</p> <ul style="list-style-type: none"> - OMAC 29 Consultancy - Installation Service - OMAC 29 Consultancy - Implementation Study - OMAC 29 Consultancy - Feasibility Study - OMAC 29 Consultancy - Appraisal of Existing Manufacturing Control System - OMAC 29 Consultancy - Review of Manufacturing Operations - OMAC 29 Consultancy - Consultation Programme - OMAC 29 Consultancy - OMAC 29 Series Summary - OMAC 29 Consultancy - Continuing Support Service - OMAC 29 Consultancy - Conversion Service - OMAC 29 Consultancy - User Familiarisation Programme - OMAC 29 Consultancy - Data Creation Service - OMAC 29 Consultancy - Project Management Service - OMAC 29 Consultancy - Screen and Report Customisation
"	1982	<p>OMAC 29 Catalogue Sheets:</p> <ul style="list-style-type: none"> - Cost Establishment - Capacity Requirements Planning - Purchasing - Work in Progress Control - Stock Control - Material Requirements Planning - Online Manufacturing Control - Manufacturing Database
"	1983	ICL Computer Integrated

		Manufacturing GNC
	"	1986
		OPUS Online Purchasing System
10/6		Software
10/6/1		1977-85
		[Miscellaneous]
	"	1980
		ICL SOFTWARE
	"	1982
		ICL SOFTWARE Data Management - Managing Systems Development - A User Guide
	"	1982
		ICL SOFTWARE Data Management - Reportmaster
	"	1982
		ICL SOFTWARE Data Management - Reportmaster User's Introduction
	"	1982
		ICL SOFTWARE Data Management - TPMS Technical Overview (2 copies)
	"	1982
		ICL SOFTWARE Data Management - TPMS
	"	1977
		DDS Data Dictionary System - Technical Overview
	"	1982
		ICL SOFTWARE Data Management - DDS Data Management System
	"	1982
		ICL SOFTWARE Data Management - DDS Technical Overview
	"	1982
		ICL SOFTWARE Data Management - Personal Data System
	"	1982
		ICL PDS Personal Data System
	"	1982
		ICL SOFTWARE Data Management - Querymaster
	"	1982
		ICL SOFTWARE Data Management - Application Master
	"	1982
		ICL Data Management - Application Blueprints
	"	1982
		Software for Productive Programming

	"	1982	ITS - Interactive Testing System
	"	1978	IDH - Interactive Data Handler
10/6/2		1982-86	[Miscellaneous]
	"	1983	ICL Partnership Software
	"	1983	ICL S/W - Data Dictionary
	"	1983	ICL S/W - Telex 25
	"	1983	ICL S/W - Application Master
	"	1983	ICL S/W - Program Master
	"	1983	ICL S/W - Querymaster
	"	1983	ICL S/W - Reportmaster
	"	1983	ICL S/W - Budget
	"	1983	ICL S/W - Decision Support
	"	1983	ICL S/W - Relational CAFS Interface
	"	1983	ICL S/W - DRSTEL
	"	1984	ICL S/W - STATUS
	"	1986	ICL S/W - DRS MICROWORLD
10/7		1983-86	Telex. Office Systems
	"	1983	TELEX 25
	"	1986	OFFICEPOWER
10/8		1981-87	Services. The IBM User
	"	1981	ICL Services
	"	1983	ICL Customer Services - ensuring your success
	"	1983	ICL Customer Services - Worldwide Services Sector
	"	1982	ICL Customer Services

	"	1983	ICL Customer Services - Customer Service Desk
	"	1985	ICL Services for the total solution - Getting you started/Keeping you going/Taking you further
	"	1985	ICL Services - Why Services are essential to the success of our company worldwide
	"	1985	International Computers Technical Services
	"	1985	ICL Services - The Networked Office - The Business Solution
	"	1985	ICL Services - The Networked Office - Effective Systems Solutions
	"	1985	Teleservice - Keeping you going
	"	1983	ICL and the IBM User
	"	1986	ICL and the IBM User
10/9		1975-86	Information Processing Architecture (IPA).
	"	1980	IPA - An Introduction
	"	1980	IPA - An advanced concept in distributed processing
	"	1980	IPA - Outline of IPA
	"	1982	IPA and VME 2900
	"	1980	IPA Management Overview
	"	1982	IPA Management Overview
	"	1981	NPS Network Processor Systems
	"	1981	NPS Network Processor Systems - technical specification
	"	1981	IPA Information Processing Architecture

"	1982	IPA and VME 2900 IPA and System 10 and 1500 systems IPA and the 7900 Range Communications Processor IPA and TME IPA and 7500 Range Terminals
"	1982	VME 2900 Overview
"	1982	VME 2900 Scope for Growth
"	1982	VME 2900 Continuous Operation
"	1983	2900 CME
"	1980	VME B Technical Overview
"	1982	VME 2900 Comprehensive Data Management
"	1982	VME 2900 A Versatile Service
"	1983	2900 VME - A Versatile and Secure Service
"	1982	VME 2900 Architecture
"	1982	VME 2900 Security
"	1982	VME 2900 Advanced Communications and Networking
"	1982	VME 2900 System Productivity
"	1983	2900 VME System Productivity
"	1980	VME/B - E : The Entry Level System
"	1980	CME
10/10		Miscellaneous.
"	1983	ICL Distributed Office System - Word Processing
"	1983	ICL Distributed Office System - DRS 20 Series
"	1983	ICL Retail Systems 9518 Modular Point of Sale Terminals

"	1985	DRS 8801 Catalogue Sheets: - 7122 Standalone Word Processing System - 7125 Multifunction Word Processing System - Document Storage Executive - DRS 8850 Document Storage System - Office 85 Document Storage System - DRS 8800 Correspondence Printers RP1600, RP1300 - DRS 8800 Communications
"	1984	DRS 20 - The Multi Micro Catalogue Sheets: - DRS 20 Model 150 - DRS 20 Model 128 - DRS 20 Model 125 - DRS 20 Model 120 - DRS 20 Model 110 - Upgrades for Models 10, 20, 25, 40, 50 - Local and Wide Area Interconnection - DRS 20 CIS COBOL V4 - DRS 20 PASCAL V3 - DRS 20 BASIC V3 - DRS 5-2 V3 - ICL Communications - IBM Communications - Line Printer 6204 - CP/M Operating System - Magnetic Tape Device - Asynchronous Communications - Matrix Printers 3181, 3184, 3185
"	1985	CIMGRAPH Manufacturing Management Graphics
"	1985	ICL Management Support - ILLUSTRATOR
"	1987	International Environmental Services
"	1982	ICL Traderpoint
"	1982	ICL Consultancy and Training
"	1980	PDG Southern Development Division, Bracknell

"	1981	Letchworth Development Centre
"	1983	ICL Quickbuild
"	1982	Computer Point
"	1982	DP Management Training
"	1984	ICL Supplyline - Office System Supplies.
10/11	Open Filebox - Miscellaneous	
"	P4465	02.95 Fujitsu ICL Indiana PCs - Home/Adventure/Work
"	P4472	03.95 Fujitsu ICL Database Servers
"	PS2421	.95 Fujitsu ICL ErgoLite Road Office .93 ISS300 store management system (retail systems) .92 ISS60 Superstore System
"	P3015	09.88 Departmental Systems - DRS Product Range
"	P3039	.88 OMAC JIT - System Overview
"	P3083	12.88 Series 39 Large Mainframes - Technical Overview
"	P3158	09.89 Series 39 Peripherals - more choice by design
"	P3158/2	04.91 Series 39 Peripherals - more choice by design
"	P3159	09.89 Series 39 Large Mainframes - Technical Overview
"	P3159	09.89 Series 39 Large Mainframes - Technical Overview
"	P3160	09.89 Series 39 Distributed Systems - Technical Overview
"	P3161	09.89 Series 39 Distributed Systems - Management Overview
"	P3188/2	06.90 DRS Systems - Working

better together

" P3189 01.90 DRS Systems - Leadership
in UNIX

" P3245 03.90 Desk Top Conferencing

" P3307 09.90 DRS Systems 3000 Series
Unix Servers

" P3367 01.91 The World of UNIX

" P3423 04.91 Series 39 DX Systems -
Management Overview

" P3424 04.91 Series 39 DX Systems -
Technical Overview

" P3457 05.91 Leading in Open Systems

" P3477 05.91 Open Systems Management
Centre - Leading in Open Systems

" P3482 06.91 ICL & Oracle - Leading in
Open Systems

" P3805 12.91 Series 39 DX Systems -
Technical Overview

" MSPL002 Manufacturing Systems - An
impressive range

" CPD 91 .91 Series 39 FDS20G Data Module

" P2115 01.89 ICLFILE
PC-PARIS - Technical Overview
IT Lifecycle Services

" P3467 06.91 Selling Desk-Top
Conferencing

" P3805 12.91 Series 39 DX Systems -
Technical Overview

" P265 04.70 Computers and Data
Processing Equipment

10/12 Open File box, containing:

" P338 09.69 Meet ICL

"	P397	03.72 1900 Series computer communications
"	P1023	04.73 ICL Customer Centre
"	P1066	09.74 2900 Technical Overview
"	P1091	01.76 THE World of ICL
"	P1096	03.76 2900 VME/B Technical Overview
"	P1101	03.76 2900 VME/K Technical Overview
"	P1113	11.76 ICL 2900 (English, French, and German)
"	P1225	.79 ICL - Europe's World-Class Computer Company
"	P1263	03.80 VME/B Technical Overview
"	P1297	06.80 PINICL
"	P1262	10.79 Planned Maintenance System - Appreciation
"	P1289	03.80 QPG - The short answer to many questions
"	P1218	06.79 BACS and BACSTER - The profitable partnership
"	P1333	11.80 BULLETIN
"	T00/001	2000 Trimetra Servers
"	T00/002	2000 Trimetra System Software
"	T97/008	1997 Trimetra Xtraserver
"	P3727	03.92 The Desktop Window
"	P3709	02.92 Personal Computer CS386s
"	P3620	10.91 ICL Personal Computer NB386s
"	P3705	02.92 Mouse
"	P3708	02.92 Trackball

	"	P3710	02.92 Personal Computer CS486s
	"	P3711	02.92 Personal Computer CX Series
	"	P3712	02.92 Personal Computer Cxe Series
	"	P3713	02.92 System Platform FX Series
	"	P3714	02.92 System Platform MX Series
	"	P3715	02.92 Mass-memory Expansion Unit
	"	P4482	04.95 ICL - The Facts
	"	P1404	10.82 System 25 - System Appreciation
	"	P1367	10.81 DRS 20 - Systems Appreciation
10/13		Wallet, containing:	
	"		1998 ICL i500 Enterprise Directory Server
	"		Conversations for Change Guide
	"		E-Business Services - Conversations for Change Guide
	"	P1305	06.80 IPA - Information Processing Architecture - Management Overview
	"		ICL Systems News - Launch of DRS 6000
10/14		Wallet, containing:	
	"		1991 The ICL Way
	"	P1560	03.83 The ICL Way
	"	P1070	01.75 A User's Guide to Customer Engineering Services
	"	P4407	1994 Anadactyl Automatic Fingerprint Recognition
	"	P4418	1993 Enterprise Systems - Our ambition is your success
	"		05.91 OPENframework - ICL (UK)

Sales Briefing

- " 1998 Australia - Focus on the future with ICL
- " P9298 1998 Performance Management in ICL
- 10/15 Wallet: "Series 39 the SMART way forward", containing Catalogue Sheets:
 - " 06.69 Type 424 80 column Card Interpreter
 - " 03.70 Type 103 80 column Card Verifier
 - " 03.70 Type 424 80 column Card Interpreter
 - " 03.71 System 4, 4-52 central processor
 - " 03.71 System 4, 4-72 central processor
 - " 02.72 System 4, 4420 exchangeable disc store (EDS30)
 - " 10.71 System 4, 2815 exchangeable disc store (EDS60)
 - " 03.72 System 4, 4339 magnetic tape systems
 - " 03.72 System 4, 4342 magnetic tape systems
 - " 03.71 System 4, 7181 visual display unit
 - " 10.71 System 4, 4385 remote processor controller
 - " 10.71 System 4, 4390 Multi-channel Communications Control
 - " 08.71 System 4, 4330 Magnetic Drum
 - " 08.71 System 4, 4381 Data exchange control unit (DXC)
 - " 08.71 System 4, 4554/5 and 4560/1

	Line printers
"	08.71 System 4, 4715/0 Digital incremental plotter
"	08.71 System 4, 4585 Paper tape punch
"	08.71 System 4, 4513 and 4515 Card readers
"	10.71 System 4, J-level operating system
"	10.71 System 4, Data base management software
"	10.71 System 4, PROSPER
"	10.71 System 4, DRIVER
"	07.73 2903 Computer System
"	07.73 2903 Fixed/Exchangeable Disc Store
"	07.73 2903 Visual Display Unit
"	07.73 2903 Direct Data Entry
"	07.73 2903 On-line Order Entry Package
"	08.83 2430 High Speed Train Printer
"	09.73 7905 Communications Control System
"	10.73 7503 Peripheral Control Terminal
"	07.74 1900 Series, Communications systems 7900 Series
"	06.75 Communications, 7183/4 dual display system
"	P3697 02.92 Display Unit 146B
"	P3698 02.92 Display Unit 151B

	"	P3699	02.92 Freestyle AE12C
	"	P3700	02.92 Display Unit VE17C
	"	P370	02.92 Display Unit HE14C
	"	P3703	02.92 Display Unit SE14C
	"	P3704	02.92 Display Unit SE14M
	"	CS366	03.80 1505-44 Transaction System
	"	CS322	12.79 1501-44 Transaction System
10/16		Wallet: "Series 39", containing Publicity Catalogue Sheets:	
	"	234	07.00 Finnish Yellow Pages
	"	236	07.00 BBC Shop
	"	238	07.00 Bart Smit
	"	239	07.00 Leonia Bank
	"	241	07.00 Shell
	"	243	07.00 Hyder Services
	"	245	07.00 West Lindsey District Council
	"	247	07.00 Automatia
	"	248	07.00 SAN Trading Company
	"	254	07.00 Finnish Government
	"	260	08.00 Inland Revenue
	"	270	09.00 British Midland
	"	272	09.00 States of Jersey
	"	279	10.00 NatWest
	"	280	10.00 EPSON
	"	287	10.00 Scottish and Southern Energy Plc.

	"	290	11.00 Department of Trade and Industry (DTI)
	"		04.02 Lancashire County Council
	"		04.02 Inland Revenue
10/17			Wallet, "Trimetra", containing Advertising:
	"		ICL Advertising in the UK
	"		The giant campaign
	"		ICL after Easter
	"		Manageware - Freedom of choice
	"		Manageware - Style
	"		Manageware - Dependability
10/18			Transparent Wallet containing:
	"		I.C.T. 1900 Series
	"		I.C.T. 1901
	"		I.C.T. 1900 Series - 1906A Computer System
	"		I.C.T. 1900 Series direct access

11. ICT Printed Brochures

11/1			Machines, Applications & Publicity
11/1/1		1959-68	Equipment: 80 column data processing equipment
	"	1964	ICT RANGE of data processing equipment
	"	1964	ICT Punched card arranging machines - Sorter, Collator
	"	1962	ICT Reproducing and gang punches
	"	1961	ICT Automatic punches, automatic verifier
	"	1963	ICT Type 36 Automatic Key Punch

"	1964	ICT Types 700 and 707 non-printing tabulators
"	1964	ICT 900 Series Tabulators
"	1963	ICT 902 and 906 Tabulators
"	1961	ICT 915 Tabulator
"	1964	ICT Type 942 Multiplier, Type 550 Calculator
"	1962	ICT Type 1202 general purpose computer
"	1962	ICT Key to action
"	1962	ICT - A presentation of ICT Data Processing Equipment
"	Undated	ICT Office Equipment for Punched Card and Electronic Data Processing
"	Undated	Electronic Data Processing in the service of Cornwall County Council
"	1961	ICT Dividend Service Bureau
"	Undated	Milk Marketing - Mechanised Accounting Methods
"	Undated	Payroll Production using the 555 plugged programme computer at Lancashire County Council
"	1961	Electronic Rate Accounting - City of London
"	1961	Rate Accounting - City of Sheffield Corporation
"	1958	Use of the Hollerith 555 Electronic Calculator for scientific computing at A.E.R.E. Harwell
"	1962	Automatic data processing for the stockbroker's office
"	1963	Accounting for Wigan

	"	1960	Midland Data Processing Bureau
	"	1962	Progress in the North West with ICT Data Processing
	"	1961	Progress in Scotland assisted by ICT Data Processing
11/1/2		1959-65	Equipment: 21 column punched card, 40 column punched card, 40 column computers
	"	1962	ICT 21 column Range of Punched Card Accounting Machines
	"		ICT 40 data processing - Footwear Manufacturing Industry
	"	1964	ICT 40 data processing in the Engineering Industry
	"	1964	ICT range of 40 column punched card accounting machines
	"	1964	ICT 40 data processing for Hosiery and Garment Manufacturers
	"	1964	How to assist Library Efficiency with 40 column data processing equipment
	"	1964	ICT 40 data processing for Motor Distributors
	"	1964	Punched cards for profitable printing
	"	1961	Rate Accounting with ICT 40 column Punched Card Data Processing Equipment
	"	1964	ICT 49 data processing equipment for the wool textile industry
	"	1964	More than a drop - Water Board uses ICT 40 column equipment
	"	Undated	ICT Office Equipment for Punched Card and Electronic Data Processing (front cover missing)
	"	1961	ICT 558 electronic computer

	"	1958	Type 1400 Data Processing System
11/1/3		1959-65	Production Control & Planning; Research and Design and
	"	1960	Use of Computers in ICT Production Control (2 copies)
	"	1959	Controlling Production by Computer Reprint from Data Processing July/Sep 1959
	"	1965	Production Control by Computer
	"	1964	A progress report on Production Control by Computer
	"	1965	ICT inventory management techniques
	"	1963	Production planning with PERT - Report from Metalworking Production
	"	1964	ICT finds way to cut machining costs - Report from Metalworking Production
	"	1964	ICT programming system for numerically controlled machine tools
	"	1963	The ESSI director applied to flame cutters
	"	1964	What is O.R.? - An introduction to operational research techniques
	"	1964	Design Automation, by H.S. Woodgate
	"	1965	A Computing Service for engineers
11/1/4		1960-68	Computer Applications - Case Studies
	"	1964	ICT Data Processing systems for banking
	"	1964	Investment Valuation Service

	"	1965	Computers in the Steel Industry
	"	1966	Computers in University Administration
	"	1963	Electronic Data Processing in the service of the Rootes Group
	"	1963	On the outside ... looking in ICT data processing in Unilever
	"	1966	Multiprogramming comes to Lancashire
	"	1963	Computers at County Hall (Lancashire County Council)
	"	1965	Accounting for a progressive borough with the ICT 1900 series computer (London Borough of Islington)
	"	1965	Livestock, Crops, and a computer (Department of Agriculture and Fisheries, Scotland)
	"	1962	Automatic control of railway rolling stock
	"	1960	Data processing for labour accounting
11/1/5		1960-64	Equipment: 1004 Data Processor; 1300 Series; 1500 Series
	"	1963	1004 high speed Data Processor
	"	1964	ICT 1004 and 1004/2 data processors
	"	C1960	ICT 1301 data processing system
	"	1960	1301 Data Processing System - Specification & Order Code
	"	1960	ICT 1301 Data Processing System
	"	1963	Breakthrough with the ICT 1300
	"	1964	1300 1301 - ICT 1300 range of electronic data processing systems

	"	1966	ICT 1300 Series data processing systems 1300/1301/1302
	"	1962	ICT Rapidwrite programming manual
	"	1962	ICT 1500 electronic data processing system
	"	1964	ICT 1500 electronic data processing system
	"	1963	ICT 1500 Type 8000 Optical Character Reader
	"	Undated	ICT 1500 Real-Time computer system demonstration
	"	1964	ICT 1600 Electronic Data Processing System (Brochure and catalogue sheets)
11/1/6		1959-67	Equipment: [Miscellaneous]; Special Projects & Processes; Marketing; Conferences & Publicity
	"	1962	ICT 8521 Optical Card Punch
	"	1966	Paper tape preparation by ICT 1020/1021
	"	1967	Remote control U.A.K.P.
	"	1963	Data collection system Datasend
	"	1960	Punched card control of automatic processing - ICT parallel input unit
	"	1964	Automatic Production and Performance Recording
	"	1961	Automatic Data Recording from multiple remote inputs
	"	1961	ICT Special Projects in Data Handling
	"	1961	Data Collection System
	"	1964	Fine Blanking

	"	1964	Fine Blanking - Reprint from Sheet Metal Industries
	"	Undated	ICT also manufactures plastic mouldings, investment castings and pressure die castings
	"	1962	Papers read at ICT Conferences on Computers
	"	1961	Controlled Document Processing
	"	1962	8500 Range of Equipment
11/1/7		1964-68	Equipment & Software: 1900 Series
	"	1964	ICT 1900 Series Economic Data Processing
	"	1965	ICT 1900 Series
	"	1966	ICT 1900 Series direct access
	"	1964	ICT 1900 electronic data processing system
	"	1967	The inside story of a modern computer system
	"	1965	ICT 1901
	"	1966	ICT 1900 Series Online document handling
	"	1968	Curtains up on a new generation - British Industry Week
	"	1968	Integrated circuitry for the 1900 Series - the miniature revolution
	"	1967	ICT 1900 Series - 1901A Computer System
	"	1967	ICT 1900 Series - 1802A & 1903A Computer Systems
	"	1967	ICT 1900 Series - 1904 - 1907 E & F Computer Systems
	"	1967	ICT 1900 Series - 1906A Computer System

	"	1967	1900 Software
	"	1967	1900 Series PERT
	"	1964	1900 Series PERT for installation of a computer
	"	1966	ICT 1900 Series FIND
	"	1967	Profit Evaluation PROP
	"	1967	Indexing and Cataloguing NIC
	"	1966	ICT 1900 SCAN System 1
	"	1966	ICT 1900 Series - CUT & FILL programs
	"	1967	ICT Production Control PROMPT
	"	1967	ICT Quantity Surveying
11/2		1961-68	Small brochures, covering Machines, Applications, Publicity, Courses and Careers.
	"	1964	ICT 1300 Series data processors 1300 1301 1302
	"	1964	ICT 1300 Data Processing System
	"	1964	ICT 1004 Data Processor for Stockbrokers and Jobbers
	"	1964	ICT 1500 Data Processing System
	"	1964	ICT 1600 Data Processing System
	"	1964	ICT 1900 Data Processing System
	"	1964	ICT 1900 Series - specification summary
	"	1966	ICT 1900 Series - Simple control by typewriter
	"	1967	ICT 1900 Series - Digital incremental plotter
	"	1964	ICT 1900 Series - Economic Data Processing - visual dynamic data

		displays
"	1964	ICT 1900 Series - Economic Data Processing - programming aids and autocodes
"	1964	ICT 1900 Series - Economic Data Processing - in public utility undertakings
"	1964	ICT 1900 Series - Economic Data Processing - in the department store
"	1964	ICT 1900 Series - Economic Data Processing and service to management
"	1964	ICT 1900 Series - Economic Data Processing - for mail order marketing
"	1964	ICT 1900 Series - Economic Data Processing - for production control
"	1964	ICT 1900 Series - Economic Data Processing - for stress analysis of structures
"	1964	ICT 1900 Series - Economic Data Processing - for weather forecasting
"	1964	ICT 1900 Series - Economic Data Processing - for insurance
"	1966	ICT 1900 Series - Extended mathematical facilities for 1901, 1902, 1903
"	Undated	1900 Series - DEMONSTRATION of Multi-Programming
"	Undated	ASSETS Computer Services Ltd - 1900 Guide (2 copies)
"	1965	Guide to ICT 40 automatic data processing
"	1964	ICT 40 data processing -

		production control
"	1964	ICT 40 data processing - sales accounting
"	1967	Guide to ICT 80 automatic data processing
"	1966	The 1900 Word
"	1962	An important event for businessmen in the northwest
"	1962	ICT Stand Guide - Business Efficiency Exhibition
"	1965	Computer compact
"	1964	ICT Midlands data processing bureaux
"	1967	Data Processing in Cardiff
"	1967	Council of Industrial Design - Design Award
"	Undated	A career in mechanised accounting
"	1961	Careers for school leavers in ICT data processing
"	1963	ICT Scholarship at Cambridge
"	1963	ICT - Training in the principles and practice of systems analysis
"	1964	Opportunity with ICT
"	1964	ICT 1900 Series Economic Data Processing appreciation and utilisation course
"	Undated	Getting to know the ICT 1900 computer
"	1965	Getting to know the ICT 1900 computer (at Bradenham)
"	1965	Systems analysis for electronic data processing

- " 1965 ICT Data processing training courses - Prospectus
- " 1966 ICT Data processing management and system courses - Prospectus

12. BTM Printed Brochures

Hollerith Applications & Publicity

12/1

1920-1958

- " 1936 Punched hole accounting
- " 1936 The small card tabulator
- " 1936 Electricity Supply Accounting
- " 1936 Statement Production on Hollerith electric Accounting Machines
- " Undated Examples of Commercial Tabulation in Hollerith Service Bureaux
- " 1940 Accounting by Electricity
- " c1958 Punched Card Accounting
- " c1939 A new method of Hire Purchase Accounting
- " 1951? Hollerith electrical Punched Card Accounting
- " 1951 In Business Too
- " 1951 Hollerith Accounting Machines - Card Manufacture & Standards
- " 1953 Key to Action
- " 1957 An introduction to binary arithmetic
- " 1958 The use of the Hollerith Type 555 Electronic Calculator for scientific computation
- " 1958 A progress report on Production Control by Computer
- " 1936 Hollerith Reproducing Punch (2

copies)

12/2

		Hollerith Applications and Publicity
"	1929	Hollerith Census Equipment
"	1931	Hollerith Accounting Machines
"	1948	Accounting by Electricity
"	1949	Mechanised Invoicing
"	1949	DUCOL - increased column capacity on an 80 column card
"	1951	Maidstone & District Motor Service - Punched Card Accounting
"	1952	Application of Punched Cards to Actuarial Practice
"	1951	Punched Card Control for Austin Motors New Assembly Plant
"	1951	Synchronised Feeder Conveyors at Austin Motors New Assembly Plant
"	1952	Austin Motor Co - Conveyor System
"	1952	The Machine Takes Charge
"	1952	Making Components for Hollerith Tabulating Machines
"	1954	Hollerith KEYSTOR Punch
"	1952	Dividend Distribution
"	1952	BTM Castlereagh
"	1953	Today & Tomorrow - Business Efficiency Exhibition 1953
"	1955	Highways Costing
"	1953	Mobile Exhibition Unit
"	c1953	Type 504 Multiplying Punch
"	1954	Type 413 Interpreter

	"	1954	HEC General Purpose Electronic Computer
	"	1954	HEC General Purpose Electronic Computer - Applications - Payroll
	"	1954	Hollerith BEE Information Manual
	"	1955	Punched Cards in Engineering
	"	c1956	HEC General Purpose Electronic Computer - Applications - Shop Loading
	"	c1956	Type 542 Electronic Multiplier
	"	Undated	Colangular Steel Office Equipment
	"	1958	Hollerith Type 555 Electronic Calculator
	"	1957	Planned Production Control (2 copies)
	"	c1950	Hollerith Development in PAYE and PAYROLL production
	"	c1954	Ledger Posting Device
	"	1956	Production Control - Olympia
	"	1956	Rambles through Binland and Electronia
	"	1942	Machines and Men - (3 small wartime brochures)
	"	1946	How Many - Script of a BBC Programme
12/3			Mechanical service instructions for punched card machines (3 small ring binders)
12/3/1		1930s-40s	Interpreters
12/3/2		1930s-50s	Collators, Reproducers, Summary card punches, Gang punches
12/3/3		1930s-50s	Punches, Verifiers, Sorters, Tabulators

13. Powers-Samas Printed Brochures

13/1	1915-1957	Powers Applications & Publicity. [Miscellaneous]
"	C1925	Cost Accounting by Powers Machines
"	C1929	Profit - Earnings Accounting
"	C1925	Speed and Efficiency by Powers (2 copies)
"	C1925	Budgetary Control of Production by Powers Accounting Machines
"	C1925	Stock Control by Powers Card per Unit Method
"	1926	Special Devices and Attachments
"	1932	Special Devices and Attachments
"	1935	Modern Accounting
"	C1932	Powers Accounting Machines
"	C1948	The Powers Spot Punch
"	1948	The Good Ship Powers
"	C1950	Retail Co-Operative Society Accounting
"	C1956	Supplies
"	C1956	Samastronic
"	1957	P.C.C.
"	1930s	Payroll by Powers Samas Accounting Machines
"	Undated	Sales Accounting by Powers Samas punched card methods
"	1940	Tabulating Tips - Double-Use Cards - (Remington Rand)
"	1947	The Utility of the Card - (Remington Rand)

	"	1947	Simple Tabulations - Payroll - (Remington Rand)
13/2		1928-1957	Powers Applications & Publicity. [Miscellaneous]
	"	C1946	Stores Control
	"	C1956	Punched Card Accounting for Management Control
	"	C1957	Powers Forty Range of Punched Card Accounting Machines
	"	C1957	E.M.P.
	"	1954	Production Control by Powers Samas
	"	1931	Powers-Samas 'PUNCH' - Various applications
	"	Undated	Powers-Samas All-In Unit Storage

14. Other Companies Printed Brochures

14/1		1965-1976	Singer Business Machines (Friden)
	"	1968	Friden 5005 COMPUTYPER Invoicing Machine
	"	1968	Technical Manual for Computyper Electronic Billing/Accounting Machines
	"	1964	FRIDEN Data Processing Products in Action
	"	1964	FRIDEN Production Planning - a new approach
	"	1966	FRIDEN Flexowriter automatic writing machine
	"	Undated	FRIDEN 1151 Programmable Calculator
	"	1969	FRIDEN A Guide to Friden Collectadata 30 Data Collection Equipment
	"	Undated	Singer 5800 billing/accounting

		system
"	Undated	Singer 5800 billing/accounting system - export invoicing
"	Undated	Singer terminal systems
"	Undated	FRIDEN MDTS Modular Data Transaction System
"	Undated	FRIDEN MDTS Electronic Point of Sale - the new retailing
"	Undated	FRIDEN MDTS 928 and 929 Data Terminals
"	1972	FRIDEN MDTS Electronic Point of Sale - the new retailing
"	Undated	Singer -TEN may be your lucky number too! (3 copies)
"	Undated	Singer's Manufacturing Information System - here's how it works
"	1972	Singer: A new philosophy in business data processing - programming System Ten
"	1972	System Ten by Singer (2 small brochures)
"	1972	System Ten by Singer
"	c1974	SYSTAR business management system
"	1974	System Ten in Import/Export - United Airfreight (Sweden) AB
"	1974	System Ten in publishing - Wm. Dawson & Sons
"	1973	System Ten business computer at Denver General Hospital
"	1973	System Ten in advertising - ERVACO (Sweden)
"	1973	System Ten in the motor trade - Exclusive Auto Accessories

"	1975	FICS/DCS Factory Information Control and Data Collection Systems
"	1975	FICS Factory Information Control System - A system introduction
"	1975	FICS Factory Information Control System - Automatic Factory Control
"	1975	Factory Data Collection - an integrated systems approach
"	c1975	SAFES - Small Factory System - Marketing Guide
"	1975	Singer 110 Series - Planning for Profit
"	1975	Singer 110 Series - Folder containing Data Sheets
"	1976	Singer 110 - North American Services Support Directory
"	1975	System Ten - programmer & reference booklet
"	1975	Singer Point of Sale system - programmer & reference booklet
"	1975	DMF - programmer & reference booklet
"	1975	DMF - programmer & reference booklet (<i>a different version</i>)
"	1975	DMF II - programmer & reference booklet
"	c1975	Model 81/82 Video Display Unit Installation/Checkout Guide
"	1970	Singer System Ten - Friden Model 60 Paper tape reader Operating Manual
14/2		Other Companies (American)
14/2/1	1943-1980	

	"	1959	AMPEX - READOUT - What ERMA does after dark
	"	C1960	NATIONAL 315 - The Random Sequential EDP system
	"	C1960	NCR 390 - A major breakthrough in economical data processing
	"	1961	NCR 390 - Industrial Presentation
	"	C1960	UNDERWOOD Elecom - low cost electronic computer
	"	C1960	UNDERWOOD Elecom 120 - Instruction code
	"	C1960	UNDERWOOD Elecom 125 system
	"	1960	DEC Programmed Data Processor (2 copies)
	"	C1960	REMINGTON RAND - ERA Division for the automatic systems problems you haven't solved
	"	1965	HONEYWELL - A Plain Man's Guide to Software (2 copies)
	"	Undated	FLOATING POINT SYSTEMS - FPS -164 Specification sheet and other papers
14/2/2		1951-1968	Other Companies (American)
	"	C1957	NUCLEAR DEVELOPMENT - The Circle Computer
	"	C1957	CONSOLIDATED ENGINEERING - 30-203 Electronic Digital Computer
	"	C1957	COMMERCIAL CONTROLS - Data Sheets - Paper Tape Punch - Paper Tape Reader - Flexowriter
	"	C1957	COMPUTER RESEARCH CORP - CRC 102 general purpose computer (2 copies)

	"	1959	ELECTRONIC ENGINEERING CO - Computer Language Translator
	"	1959	ELECTRONIC ENGINEERING CO - Computer Language Translator - ZA- 100
	"	C1951	BURROUGHS - Unitized Pulse Control Equipment
	"	C1955	BURROUGHS - Bank Automation - Electronic Bookkeeping Machine
	"	C1960	BURROUGHS - B200 General Purpose EDP System
	"	C1968	BURROUGHS - Burroughs Scientific Processor
	"	C1958	UNIVAC 1004 Card Processor
	"	C1959	UNIVAC - Message Switching with the UNIVAC 450 Real Time System
	"	C1959	UNIVAC - UNICALL
	"	C1960	UNIVAC - UNIVAC III data processing system
	"	1964	UNIVAC - 1004 III Magnetic Tape System
	"	C1964	UNIVAC - Solid-State 80 Computer
14/3		1948-1969	American (Research)
	"	1948	University of Pennsylvania Moore School with Burroughs Automatic Recognition of Characters
	"	1948	University of Pennsylvania Moore School with Burroughs Character Identifier - First Experimental Model
	"	1952	National Standards Bureau System Specification for DYSEAC (2 copies)
	"	1953	National Standards Bureau Memory Studies at the National Bureau of Standards

	"	1954	University of Michigan - Basic Circuitry of the MIDAC & MIDSAC
	"	1961	Oklahoma University - Design Criteria for Relays
	"	1959	University of Illinois - Circuit Design for the new Illinois computer
	"	1964	University of Illinois - Introduction to Digital Computer Arithmetic
	"	1969	University of Illinois - 354/534 Illiac IV Reference Manual
	"	1969	University of Illinois - ICL - A Control Language for Illiac IV
	"	1969	University of Illinois - A Non- Linear Programming Algorithm for an Array Computer
	"	C1969	System Development Corporation - PEPE, a new supercomputer
14/4		1938-1967	Research (LFE and RCA)
	"	1955	Laboratory for Electronics - Functional Specification of TIM (2 copies)
	"	1963	RCA - Achievements in Computer Systems - Components
	"	1963	RCA - The Future of Automation
	"	1961	RCA - Four Historical Views
	"	1961	RCA 301 Electronic Data Processing System
	"	1961	RCA 301 Data Disc File
	"	1961	RCA 301 Hi-Data Magnetic Tape
	"	1961	RCA 301 Integrating life insurance operations
	"	1961	RCA 301 at Berkshire (USA) Life

		Insurance Co
"	1961	RCA 301 UMAC Scientific Language
"	1961	RCA TIES (Transmission & Information Exchange) (2 copies)
"	1961	RCA 301 Automatic Transit-Check processing with RCA 301
"	C1962	RCA 601 Sheer Computer Power
"	1963	RCA 3301 REALCOM - News Release & Fact Sheets
"	1963	RCA 3301 REALCOM - Improved railroad car utilisation (2 copies)
"	1963	RCA 3301 REALCOM - Instant service for utility customers
"	1963	RCA 3301 REALCOM - improved profits through improved manufacturing control
"	1963	RCA 3301 REALCOM - Insurance Management
"	1963	RCA 3488 Random Access Mass Storage Equipment for Life Insurance operations
14/5	1956-1986	Research (British)
"	C1971	DATASET Printer Ribbon Handset
"	1969	DATASET Form Handling Machine
"	1975	DATASET Bureau VDU work station
"	C1961	DRICO Data Recording Instruments
"	1964	DRICO Magnetic Recording Heads
"	1965	DRICO Specialised Magnetic Recording Equipment - Data Sheets
"	1964	DRICO 540 Magnetic Tape Systems for Instrumentation

	"	Undated	DRICO Series 4000 Exchangeable Disc Drives
	"	1974	DRICO Series 30 Exchangeable Disc Drives
	"	C1975	DRICO - Peripherals for Europe's Computer Industry
	"	1962/63	INTERNATIONAL TUTOR MACHINES - GRUNDY TUTOR - Press Release - Price List - Data Sheets - House of Commons report (extract) - ITM Grundy Tutor brochure
	"	1961	RANK Xeronic High Speed Computer Output Printer
	"	1986	AMSTRAD - Profile
	"	C1980	NEXOS - 2000 Word Processor
	"	C1980	NEXOS - Furniture, Accessories and Supplies Items
	"	1967	COSSOR - DIDS 400 Digital Information Display System
	"	Undated	PHILIPS P251 Electronic Printing Calculator
	"	Undated	PHILIPS P350 Office Computer Family
14/6		1927-1989	Miscellaneous
	"	C1950	BULL - French Punched Card Machines
	"	1956	FERRANTI - Computer control of machine tools
	"		SIMON - SELECT-O-WEIGH automatic proportioning system
	"	1964	UKAC - The impact of users' needs on the design of data processing systems

"	1964	ELECTRIC CONSTRUCTION CO - Modern electrical plant
"	1964	ELECTRIC CONSTRUCTION CO - Stand-by and no-break systems
"	1965	ELECTRIC CONSTRUCTION CO - Register of products
"	1973	SUN LIFE INSURANCE - Life from within (contains stories about PCC and Samastronic)
"	1965	DATA & CONTROL SYSTEMS - Choosing a Computer
"	1969	KAISER ALUMINUM - The Children of Change
"	1970	ELECTRONIC COMPONENTS past, present, & future
"	1971	The Computer-Aided Design Centre, Cambridge
"	1973	The Computer-Aided Design Centre, Cambridge - GINO-F and GINO-GRAF
"	1983	BUREAU WEST
"	1983	ECMA - The Meaning of Conformance to Standards
"	1984	JWT - A Glossary of Media Terms
"	1984	CICA - Expert Systems and the Construction Industry
"	1984	ESCOM (<i>South Africa</i>) COMPUTING AT ESCOM '84
"	1985	IDPM - Information Management Yearbook
"	1986	AEU - Press Releases and Journal
"	1934	Production Management Techniques
"	1927	The Austin Works System - An efficient organisation for controlling work and wages

(reprinted from The Automotive Engineer)

" 1989 FERRANTI - Ferranti International
- in outline

15. Companies' Miscellaneous Papers

15/1 Powers-Samas

15/2 BTM Co, includes Plastab Project (1 file); company history material

15/3 ICL, includes 1900 operator's manual; Port of Manchester Operations Package for 1905

15/4 ICT, includes RAE fast access serial card reader (1 file); type 1350 computer feasibility report; Technical memos, R & D Division (15) and Technical Notes (5); PF 504 teleprocessor system functional specification (1 file)

17. The Putney Bridge Approach (in ring binders)

17/1 1978 Oct-82 Index
Aug

17/2 1977 Oct-78 Issues 1 - 7
May

17/3 1978 Jun-78 Issues 8 - 10
Aug

17/4 1978 Sep-78 Issues 11-13
Dec

17/5 1979 Jan-79 Issues 14 - 16
Apr

17/6 1979 May-79 Issues 17 - 19
Sep

17/7 1979 Oct-80 Issues 20 - 22
Feb

17/8 1980 Mar-80 Issues 23 - 27
Nov

17/9	1980 Dec-81 Jul	Issues 28 - 33
17/10	1981 Aug-82 Mar	Issues 34 - 38
17/11	1982 Apr-83 Feb	Issues 39 - 43
17/12	1983 May-84 Feb	Issues 44 - 47

18. British Patents [boxed]

18/1	Index of British & American patents 1971-1964 [1 file]
18/2	Nos 200 - 200,000
18/3	Nos 200,001 - 278,999
18/4	Nos 279,000 - 328,300
18/5	Nos 328,301 - 367,999
18/6	Nos 368,000 - 397,000
18/7	Nos 397,001 - 423,000
18/8	Nos 423,001 - 458,800
18/9	Nos 458,801 - 492,999
18/10	Nos 493,000 - 510,999
18/11	Nos 511,000 - 524,000
18/12	Nos 524,001 - 542,000
18/13	Nos 542,001 - 592,000
18/14	Nos 592,001 - 652,999
18/15	Nos 653,000 - 673,000
18/16	Nos 673,001 - 677,000
18/17	Nos 677,001 - 708,000
18/18	Nos 708,001 - 751,999

18/19	Nos 752,000 - 783,999
18/20	Nos - 803,000
18/21	Nos 803,001 - 808,000
18/22	Nos 808,001 - 830,000
18/23	Nos 830,001 - 846,000
18/24	Nos 846,001 - 875,000
18/25	Nos 875,001 - 932,000
18/26	Nos 932,001 - 998,999

**19. American Patents [boxed] for index see ICL
18/1**

19/1	Nos 395,781 - 1,309,999
19/2	Nos 1,310,000 - 1,678,999
19/3	Nos 1,680,000 - 1,811,999
19/4	Nos 1,812,000 - 1,880,999
19/5	Nos 1,881,000 - 1,945,999
19/6	Nos 1,946,000 - 1,999,999
19/7	Nos 2,000,000 - 2,056,999
19/8	Nos 2,057,000 - 2,098,999
19/9	Nos 2,099,000 - 2,150,999
19/10	Nos 2,151,000 - 2,198,999
19/11	Nos 2,199,000 - 2,266,999
19/12	Nos 2,267,000 - 2,370,999
19/13	Nos 2,371,000 - 2,450,999
19/14	Nos 2,451,000 - 2,552,999
19/15	Nos 2,553,000 - 2,612,999
19/16	Nos 2,613,000 - 2,645,999

19/17	Nos 2,646,000 - 2,685,999
19/18	Nos 2,686,000 - 2,702,999
19/19	Nos 2,703,000 - 2,739,999
19/20	Nos 2,740,000 - 2,765,999
19/21	Nos 2,766,000 - 2,792,999
19/22	Nos 2,793,000 - 2,819,999
19/23	Nos 2,820,000 - 2,850,999
19/24	Nos 2,851,000 - 2,888,999
19/25	Nos 2,889,000 - 2,910,999
19/26	Nos 2,911,000 - 2,925,999
19/27	Nos 2,926,000 - 2,946,999
19/28	Nos 2,947,000 - 2,964,999
19/29	Nos 2,965,000 - 2,972,999
19/30	Nos 2,973,000 - 2,974,500
19/31	Nos 2,974,501 - 2,990,000
19/32	Nos 2,990,001 - 2,999,999

20. Hong Kong, Malaysia, Singapore [1 box]

20/1	1977	[1 file]
20/2	1978	[1 file]
20/3	1978 Dec	Hong Kong Treasury, Environmental Report
20/4	1978 Jul	Guide to 1950 site preparation, Royal Malaysian Police
20/5	1977 Jul	Environmental / Media visit to F.E.R. Hong Kong, Singapore and Kuala Lumpur. Report by D.M.Wragg
20/6	1979	Malaysia, Singapore. [1 file, miscellaneous]

21. Poland [1 box]

- | | | |
|------|--------------------|--------------------------------------|
| 21/1 | 1974 Jul-Dec | [Documentation re contracts. 1 file] |
| 21/2 | 1973 Oct-1975 | [Documentation re contracts. 1 file] |
| 21/3 | 1975 Aug-76
May | [Documentation re contracts. 1 file] |

22. U.S.S.R. [1 box]

- | | | |
|------|--------------------|------------------------|
| 22/1 | 1969 Mar-70
Jul | Gosplan 4/70. [1 file] |
| 22/2 | 1972 Sep-74
Jan | Gosplan 4/70. [1 file] |

23. Powers-Samas Card Production

- | | | |
|------|--------------------|---|
| 23/1 | 1928-58 | Powers-Samas punched card production statistics [1 vol bound] |
| 23/2 | 1947 Apr-50
Oct | Powers-Samas Accounting Machines Ltd Reports on card material [1 vol bound] |
| 23/3 | 1947-1959 May | Powers-Samas Accounting Machines Ltd Card production statistics; with descriptive note of 1950 Feb re 65 column stop cards [1 vol bound] |
| 23/4 | 1967-1968 | Powers-Samas Accounting Machines Ltd Specimen 21-column and 40-column cards, and tabulations from a small installation at Messrs John Newton, Manchester (closed down c 1970) [1 box file] |
| 23/5 | 1956 Aug-59
Jan | Powers-Samas. R & D specifications from nos 100 to 176 (some missing); with index; statements of requirements for nos 1001 to 1017 (some missing) [1 vol, bound] |
| 23/6 | 1957 Apr-58
Dec | Powers-Samas Research Operations Committee [1 vol, bound] |
| 23/7 | 1948-1958 | Card production costs overseas |

Production

24/1	1947 Nov-49 Feb	English Paper Tests. Letchworth 1/1 to 1/80. sample card material from 3/1 Works [1 vol]
24/2	1948 Oct-49 Jul	Indian Paper Tests 18003 - 19721. sample card material from 3/1 Works [1 vol]
24/3	1955	English Paper Tests 650 - 669 [1 bundle]
24/4	1934-1944	Wiring diagrams etc [1 vol]
24/5	1936-194	Wiring diagrams etc [1 vol]

25. International Computers & Tabulators Ltd Card Production

25/1	1950-1960	Card production, budget & costs [1 vol]
25/2		Two sets of 65-column punched cards
25/3	1966[?]	<u>Cards and Card Material</u> , by J.L. Sheldon, ICT (Engineering) Ltd, Whyteleafe, Surrey [booklet]
25/4	c1961	The ICT Punching Code [booklet]
25/5	1967	Card and paper-tape punching codes and keyboards [booklet]

26 International Computers Ltd

26/1	1968	Card and paper-tape punching codes and keyboards [booklet]
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27 National Data Processing Corporation

27/1	1962 Jan	Electric Punch, illustrated parts list
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28 Inventors

28/1		Powers-Samas, Remington Rand, etc. Names and addresses with case and patent numbers [card index]
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29 Companies' Annual Reports etc

29/1	1958	BTM.	Annual report and accounts
29/2	1960-1961	ICT.	The Year's Progress
29/3	1961	ICT.	Annual Report and Accounts
29/4	1962	ICT.	Annual Report and Accounts
29/5	1963	ICT.	Annual Report and Accounts
29/6	1964	ICT.	Annual Report and Accounts
29/7	1965	ICT.	Annual Report and Accounts
29/8	1966	ICT.	Annual Report and Accounts
29/9	1967	ICT.	Annual Report and Accounts
29/10	1968	ICT.	Annual Report and Accounts
29/11	1969	IC (Holdings) Ltd.	Annual Report and Accounts
29/12	1970	IC (Holdings) Ltd.	Annual Report and Accounts
29/13	1971	IC (Holdings) Ltd.	Annual Report and Accounts
29/14	1972	IC (Holdings) Ltd.	Annual Report and Accounts
29/15	1973	IC (Holdings) Ltd.	Annual Report and Accounts
29/16	1974	IC (Holdings) Ltd.	Annual Report and Accounts
29/17	1975	IC (Holdings) Ltd.	Annual Report and Accounts
29/18	1976	IC (Holdings) Ltd.	Annual Report and Accounts
29/19	1976	ICL.	Annual Report to Employees
29/20	1977	ICL.	Annual Report and Accounts
29/21	1977	ICL.	Annual Report to Employees

29/22	1978	ICL. Annual Report and Accounts
29/23	1978	ICL. Annual Report to Employees
29/24	1979	ICL. Annual Report and Accounts
29/25	1979	ICL. Annual Report to Employees
29/26	1979	ICL. Report of the A.G.M. 1979 Jan 1
29/27	1980	ICL. Annual Report and Accounts
29/28	1980	ICL. Annual Report to Employees
29/29	1981	ICL. Annual Report and Accounts
29/30	1982	ICL. Annual Report and Accounts
29/31	1982	ICL. Annual Report to Employees
29/32	1983	ICL. Annual Report and Accounts
29/33	1983	ICL. Annual Report to Employees
29/34	1983	STC Annual Report
29/35	1984	ICL. Annual Report and Accounts
29/36	1984	ICL. Annual Report to Employees
29/37	1984	STC Annual Report
29/38	1985	ICL. Annual Report and Accounts
29/39	1985	STC Annual Report
29/40	1986	ICL. Annual Report and Accounts
29/41	1986	STC Annual Report
29/42	1987	STC Annual Report
29/43	1988	STC Annual Report
29/44	1988	STC The Communications & Information Systems Group
29/45	1988	STC Report for employees of the STC group
29/46	1989	STC Annual Report

29/47	1989	STC Employee report
29/48	1989	STC The 1989 Report to employees of the STC Group
29/49	1989	ICL Statement of Direction
29/50	1989	STC. Report to employees
29/51	1990	ICL Accounts and review of operations
29/52	1990	ICL Strategy Statement - Corporate Systems
29/53	1991	ICL Accounts and review of operations
29/54	1991	ICL Statement of Direction
29/55	1992	ICL Corporate Review - Winning for our customers
29/56	1993	ICL Corporate Review - Our aim is to improve the performance and profitability of our customers' businesses
29/57	1994	ICL Corporate Review - Our aim is to improve the performance and profitability of our customers' businesses
29/58	1995	ICL Corporate Review - Making IT happen
29/59	1995	Statement of Direction
29/60	1996	ICL Corporate Review - Versatility, capability, capacity, etc
29/61	1997	ICL Corporate Review - Information Society
29/62	1998	ICL Statement of Direction
29/63	1999	ICL Report and financial statements

30. 1500 Series (ex-Singer equipment, not the ICT)

1500 = RCA 301)

30/1	1978 Jul-79 Feb	Series equipment, illustrated spare parts manual Vol 1 - Processors
30/2/1	1978 May-78 Oct	Series equipment, illustrated spare parts manual Vol 2 - Peripherals
30/2/2	1978 Jul-79 Feb	Series equipment, illustrated spare parts manual Vol 2 - Peripherals; some different from 30/2/1
30/3	1978 May-Jul	Series equipment, illustrated spare parts manual Vol 3 - Enhancements
30/4	1978-79 Mar	Series equipment, illustrated spare parts manual Vol 4 - Features
30/5	1974 Aug	Basic course material
30/6	1981 Jun-Jul	Text editing system
30/7	1981 Aug-82 Mar	Hardware and Software Guides
30/8	c1976-1980	Sales and marketing guides
30/9	1979 Jun-80 Jan	Customer engineering field service manuals [microfiche]
30/10	1979 May	Field engineering diagnostic manual
30/11	1979 Sep-80 Jun	Business Transaction Language system (DBM-3). 1570 BTL. Programmer's reference manuals
30/12	1978	1501/1530 Intelligent terminal training manual
30/13	1978 Jun-Aug	1502/1503. 1505. Illustrated parts manuals
30/14	1978 Jan	Model 1501/40 Intelligent terminal. Illustrated parts manual

30/15	1972-1974	System description. General data entry. Advanced D.E.A.D.E. print. Sort-merge. Record-edit utility operating. Dot pattern conversion. BSC package/BSC operating. Teletype simulator operating.
30/16	1972-1974	1503 course notes. Advanced data entry. Teletype simulator. Record edit utility. High speed search. 1500 Cobol compiler. Complex data entry reference. Complex data entry operating instructions
30/17	1979	C.D.E. (Complex Data Entry): Program operating instructions; programming course parts 1 & 2. [file includes 9 small reels of audio tape]
30/18	1978	Intelligent terminals. Reference manuals.
30/19	1977-1978	1502/03 intelligent terminal. Operator instructions/service manual
30/20	1975	1501 Field service manual
30/21	1978 Mar	1501 Advanced data entry. Reference manual [2 copies]
30/22	1974-1979	1501 Intelligent terminal system. 1503 disk system. 1524 correspondence printer.
30/23	1980 Mar-Dec	System description manual. Extended business Basic.
30/24	1975 Jun-80 Sep	Singer 1501 tests.
30/25	1975 Oct-79 Aug	Printers: 1524, 1527, 1551 S/D, 1553-1556, 1557
30/26	1978 Aug-Nov	Model 1570 flexible disc drive. Model 1590 MDTs poller.
30/27	1973 Sep-78 Aug	51D/1551D printers and 51S/1551S printers: technical manuals. Model 53, 54, 55, 56 line printers:

		field service manual.
30/28	1977-1980 Feb	1511-1514 magnetic tape units. Service and reference manuals, parts lists.
30/29	1975 Aug-76 Jun	Singer models 1534 & 35, 1590, 1540, 229, 1543, 1501-40/43
30/30	1978 May-Jun	Database manager system software. Disc utility programs TP 7805, TP 7841
30/31	1977 Nov-Dec	1534, 1535, 1539 communications adaptor, model 1590 MDTS poller: service manuals
30/32	1974 Aug	1534 A-synchronous communications [1 vol]
30/33	1981 Jun	Model 1500 RE 10 video processor: service manual vol 1 (preliminary) [1 vol]
30/34	1980 May	North West Thames Regional Health Authority, Barnet General Hospital: 1500 system executive [1 vol]
30/35		1570 DBM: programmer's reference manual (extracts) [1 vol]
30/36		Singer 1500 intelligent terminal system [1 vol]
30/37		Programming techniques [1 vol]
30/38	1973-1976	1539, 1534: circuit diagrams [1 vol]
30/39	1975-1980	1539 Interruptable communications controller [1 file], with wiring diagrams and internal diagnostic program tape and edge connector [1 envelope]
30/40	1975-1976	System test library
30/41	1976	1500 service, Pertex test procedures, Disk Inst. [includes Singer model 1501 intelligent terminal service manual, etc]

30/42	1983	PERTEC PERIPHERALS CORPORATION Models T6640 and T6660 Synchronous Write Synchronous Read Tape Drives 1513 and 1514
30/43	1982	PERTEC PERIPHERALS CORPORATION Model T7640-98 Dual Format Synchronous Read after Write Tape Transport 1511 and 1512
"	1981	Model FT7840 Formatted Tape Transport
30/44	1982	PERTEC PERIPHERALS CORPORATION Phase Encoded Formatter Model F6X9
"	1973	DT1300 Series Magnetic Tape Recording Systems Reference Manual
30/45		SINGER IDP Systems Equipment Operations and Adjustments Manual Contains details of many Singer and Pertec system components
30/46	1978	ICL 1500 Series Hardware Guide [marked "Exhibition copy only"]
30/47	1978	ICL 1500 Series Software Guide [marked "Exhibition copy only"] NB: Not found 17/10/14 - JU/DS

31. 1900 Series

31/1	1971	Programmer's Reference Manual TP 4999
31/1a	1972	Programmer's Reference Manual TP 4999 (with reference notices 1969- 77)
31/2	1965	PLAN Training Manual TP 3144
31/2a	1965	PLAN Training Manual TP 3144
31/3	1972	PLAN Reference Manual, parts 1 and 2 TP 4322
31/4	1972	PLAN Reference Manual, parts 3 and 4 TP 4322
31/4/a	1967-72	PLAN Reference Manual, parts 1 to

		4 TP 4322
31/5	1965	1) Introductory Manual TP 3143
"	1965	2) Systems Manual TP 3338
"	1969	3) An Evaluation of the 1900 Series Architecture (Auerbach)
31/6	1971	Series Re-promotion
31/6a	1964-67	1900 Stacker Mechanism, (type 666)
31/7	1975-76	Performance Guide
31/8	1982	1) 1900 Utilities for 7500 Terminals TP 4440
"	1976	2) 1900 Series Communications Controllers TP 4422
"	1975	3) 1900 Series Small Systems Communications TP 4396
"	1973	4) 1900 Series Remote Job Entry TP 4339
31/9	1976	1) Communications Manager TP 4420
"	1982	2) Introduction to Communications TP 4417
31/9a	1975	1) Communications Manager TP 4420
"	1981	2) Communications Peripherals TP 4429
31/10	1968	Operating Instructions for Standard Software TP 4079
31/11	1971	Document Handling TP 4233
31/12	1968-72	Graph Plotter TP 4087
31/13	1980	1) IDMS Data Administration Language RP 3029
"	1980	2) IDMS COBOL DML RP 3030
"	1980	3) 2903 Range - Implementing Shareable IDMS RP 3033

	"	1980	4) IDMS Utilities RP 3028
31/14		1968-74	Sales Manual
31/15		1980	Wordskil Manager
31/16		1965	1) ALGOL TP 3340
	"	1970	2) PRIOR
31/16a		1972	1) FORCON TP 4275
	"	1971	2) MINIMOP TP 4239
	"	1969	3) JEAN TP 4153
31/17		1973-76	Data Communications & Interrogation TP 4328
31/18		1973-74	Data Communications & Interrogation TP 4328
31/19		1974	1) MAXIMOP TP 4399
	"	1977	2) Using MAXIMOP TP 4398
31/20		1975	Basic Operating. Training Manual (Book)
31/21		1968-74	Basic Peripherals TP 4106
31/22		1968	1) Basic Peripherals (issue 1) TP 4106
	"	1969	2) General Introduction to Magnetic Tape TP 4091
31/23		1975	1) Magnetic Tape Utilities TP 4430
	"	1976	2) Magnetic Tape TP 4397
31/24		1968	1) Magnetic Tape TP 4091
	"	1975	2) Magnetic Tape Utilities TP 4207
31/25		1968-74	Magnetic Tape Sorting TP 4071
31/26		1969	1) Operating Systems: George 1S TP 4145
	"	1972	2) George 1 and 2 TP 4229

	"	1975	3) George 1 and 2 Mk 7 TP 4152
31/27		1976	1) George 2 Disc-Based Operating System TP 4432
	"	1980	2) FIND-2 Multiple Enquiry System TP 4450
31/28		1970	1) Introduction to George 3 TP 4265
	"	1976	2) George 3 Operation Management TP 4199
31/29		1975	George 3 & 4 Operation Management TP 4334
31/30		1972	Operating Systems George 3 & 4 TP 4345
31/31		1973	1) George 3 & 4 Operating TP 4
	"	1975	2) An Engineer's Guide to George 3 & 4
31/32		1969	1) Basic George 3 - Training Handout
	"	1973	2) George 3 Operating System for Operators - Training Manual
31/33		c1976-78	Card Reader 6/8 Vol 2 of 2
31/34		c1976-80	Card Reader Vol 1 of 2
31/35		c1977-79	Card Reader reference manual
31/36		c1976-78	Card Reader action manual
31/37		c1964-68	Cover assembly diagrams
31/38		1964	Programmed Text, book 1. An Introduction to the 1900 Series (Book)
31/38a		1965	Programmed Text. An Introduction to the 1900 Series. (Book) (3 rd edition)
31/39		1965	Programmed Text. Magnetic Tape Housekeeping System (Book)

31/40	1965	Programmed Text. PLAN Coding, parts 1-4. (4 books)
31/41	1965-66	PERT and Applications
31/42	1967	1) Instant PERT TP 4065
"	1969	2) PERT (Magnetic Tape) TP 4200
"	1972	3) PERT (Disc) TP 4133
31/43	1974	Direct Access TP 4385
3/43a	1968-72	Direct Access TP 4107
31/44	1968-75	Direct Access Sorting TP 4111
31/45	1975	1) Direct Access Sorting TP 4411
"	1968	2) Direct Access Housekeeping
31/46	c1965	COBOL. A programmed text.
31/47	1976-79	COBOL Ancillaries TP 4436
31/48	1977	Programming the 1900 Series in COBOL. (Book)
31/49	1969-74	COBOL and user notes TP 4279
31/50	1976	1) Compiling Systems TP 4431
"	1976	2) COBOL Compilers TP 4426
31/51	1969	1) Introduction to COBOL TP 4118
"	1969	2) Programming the 1900 Series in COBOL TP 4177
31/52		FORTRAN. Programmed text, parts 1 & 2
31/53	1970	1) File Handling for FORTRAN data TP 4203
"	1972	2) FORTRAN Compiler Libraries TP 4314
31/54	1972	1) FORTRAN 32K/48K Disc Compilers TP 4286

	"	1971	2) FORTRAN 16K Disc Compiler TP 4300
31/55		1971	1) FLAIR - FORTRAN Compiling System TP 4270
	"	1971	2) FORTRAN TP 4261
	"	1974	3) Extended FORTRAN TP 4269
	"	1976	4) FORTRAN Training Workbook
31/56		1970	1) FORTRAN 16K Disc Compiler TP 4300
	"	1970	2) File Handling for FORTRAN Data TP 4203
	"	1972	3) FORTRAN 32K/48K Disc Compilers TP 4286
	"	1972	4) FORTRAN George 3 and 4 Compiler TP 4303
31/57		1972	1) FORTRAN George 3 and 4 Compiler TP 4303
	"	1969	2) FORTRAN Magnetic Tape Compiler TP 4159
	"	1969	3) FORTRAN Magnetic Tape Batch Monitor System TP 4176
	"	1969	4) 1900 CSL (Control & Simulator Language) TP 3386
31/58		1978-85	George 3 & 4 Operation Management TP 4438
31/59		1976-81	George 3 & 4 - Software Notices
31/60		1971	1) Introduction to George 3 TP 4265
	"	1974	2) Writing George 3 & 4 Job Descriptions TP 4401
	"	1978	3) George 3 & 4 Restore-Time Macros TP 4441
31/61		1976	George 3 & 4 Operating Systems

		(commands only); part of TP 4345
31/62	1972-85	George 3 & 4 Operating Systems (commands only); part of TP 4345
31/63	1976	1) DRIVER - Communications Software Package TP 4410
"	1980	2) Communications Manager Training (incl. 7000 series)
31/64	1967	Package Manual Vol 3. 200 Series technical descriptions
31/65	1970-76	NEL Numerical Control System TP 4213
31/65a	1966-67	System Development Organisation - Catalogue of Projects (2 vols)
31/66	c1973	Training (Eng). Peripherals Introduction. Engineer Operating
31/67	c1973-74	Training (Eng). Processor Handout. Preventive Maintenance
31/68	1966	1) Programming for Basic Peripherals TP 3390
"	1974	2) 7900 Data Communications Equipment Operating TP 4333
31/69	1970	Machine Manual for 650 nanosecond memory systems
31/70	c1965-67	Logic Diagrams: 1911/1 card reader; 1999 card reader; 1971 magnetic tape; 1912 card reader; 1920 card punch; 1915/16 paper tape reader; 1925 paper tape punch; 1933 line printer
31/71	1969	Computer Composition System TP 4013
31/72	c1969?	1900 Processor - pre-course supplementary handout
31/73	1966	1) SCAN System TP 4046
"	1966	2) SCAN System 2 for Inventory

		Management TP 4047
"	1967	3) PROP User Guide (Profit Rating of Projects) TP 3389
31/74		1900 Peripherals (student notebook)
31/74a		Course file containing material on Peri interface, line printers - 1933, 1931/2, T/W, cards, 1911, paper tape, functions, 1902/3, DIME, Eng 1 & 2, Bricks (with file entitled: 1901 Central Processor - Notes on Executive and Hardware)
31/75	1966	Maintenance Manual. Type 1901 Computer
31/76	1969	1901A System. Vol 1 - General Description
31/77	1969	1901A System. Vol 2 - Introduction
31/78	1969	1901A System. Vol 3 - Peripherals, description
31/79	1969	1901A System. Vol 4 - Maintenance
31/80	1974	1901A System. Vol 6 - Logic Diagrams
31/81	1973	1901S System. Vol 1 - Technical Description
31/82		Sales Guide - 1901T, 1902T, 1903T
31/83		1902A/1903A: Installation, operation and adjustment instructions; optional features - technical description
31/84	1967-68	Machine Manual. Type 1902A/3A. System Programs Vol 1
31/85	1966-70	Machine Manual. Type 1902A/3A. System Programs Vol 2
31/86	1968	Machine Manual. Type 1902A/3A. System Programs Vol 3

31/87	1969	Machine Manual. Type 1902A/3A. System Programs Vol 6
31/88	1968-69	Machine Manual. Type 1902A/3A. System Programs Volz 7
31/89	1968-69	Machine Manual. Type 1902A/3A. System Programs Vol 9
31/90	1968-69	Machine Manual. Type 1902A/3A. System Programs Vol 10
31/91	1968-69	Machine Manual. Type 1902A/3A. System Programs Vol 12
31/92	1972	1903A and 1903A: Diagnostic program CP2A/3 Fault directory with 'Diagnostic' Type-out mask
31/93	1968	1902A/1903A: Operating Instructions and processor and S.A.M. Technical Instructions
31/94	1973	1902A and 1903A, 1902S and 1903S Central Processors Vol 2
31/95		1968, 75, 76 1903T to 1904S Operating. Central Processors
31/96	c1968?	1903-1904: Field Engineering Training School - Ms notebook of A. J. Jenkyn
31/97	1968	1904E. Ms notebook of A. J. Jenkyn
31/98	1971	IM87 1906A Systems description <ul style="list-style-type: none"> • Vol 1 general information • Vol 2 dataflow • Vol 3 micro-program • Vol 4 floating point unit • Vol 5 pt 1 power supplies; pt 2 AC control unit (?); pt 3 cooling unit
31/99	1970	IM95 1906A Sequence charts: Vol 1 C.P.U. and F.P.U.
31/100		1906A/7A Cross-reference charts: ODs 1-21, 30-33, 40-46 49-55, 70- 71. EP 130/1-10. LDP 0261-0278

31/101	1974	1906A Reference Manual - Vol 1
31/102	1974	1906A Reference Manual - Vol 2
31/103	1974	1906A Reference Manual - Vol 3
31/104	1969	1906A Computer System - Processor Specification
31/105	1971	1906A Training Manual, partly Ms notes
31/106	1968	1906A Project Guide
31/107	1970	Bryant Drum used on 1906 models - Operation & Maintenance Manual
31/108	1965	Maintenance Manual. Type 1911 Card Reader
31/109	1967	Maintenance Manual. Type 1912 Card Reader
31/110	1971	1912 Card Reader
31/111	1965	Maintenance Manual. Type 1920 Card Punch
31/112	c1965?	1920 Mech draw
31/113	1967	Maintenance Manual. Type 1922 Card Punch
31/114	1972	1931/32/33 Printers
31/115	1966-67	Machine Manual. Type 1932/2 Printer. Vol 1
31/116	1966-67	Machine Manual. Type 1932/2 Printer. Vol 2
31/117	1966-67	Machine Manual. Type 1932/2 Printer. Vol 3
31/118	1966-67	Machine Manual. Type 1932/2 Printer. Vol 4
31/119	1966-69	Machine Manual. Type 1932/2 Printer. Vol 1
31/119a	1966-69	Machine Manual. Type 1932/2

		Printer. Vol 1
31/120	1969	Machine Manual. Type 1932/2 Printer. Vol 2
31/121	1969	Machine Manual. Type 1932/2 Printer. Vol 3
31/122	1969	Machine Manual. Type 1932/2 Printer. Vol 4
31/123	1969	Machine Manual. Type 1932/2 Printer. Vol 5
31/124	1969	Machine Manual. Type 1933/3 Printer. Vol 3
31/124a	1966-67	Machine Manual. Type 1933/3 Printer. Vol 3
31/125		Machine Manual. Type 1933/3 Printer. Vol 4
31/126	1966-67	Machine Manual. Type 1933/3 Printer. Vol 5
31/126a	1966	Machine Manual. Type 1933/3 Printer. Vol 5
31/127	1966-67	Machine Manual. Type 1933/3 Printer. Vol 6
31/128	1966	Printers 1931/1932/1933 - Logic diagrams
31/129	1965-67	Printers 1931/1932/1933 - T666: Maintenance Schedules
31/130	1964-65	Printers 1931/1932/1933 - T666: Technical description, replacement instructions, adjustments
31/131	1965	Printers 1931/1932 - T666: Stacker T666: Logic drawings
31/132	1965-71	1971 Magnetic tape - Technical manual
31/133	1965-66	1971 Magnetic tape system: logic drawings; technical description; maintenance instructions

31/134	c1967	1) 1972/1973 40 K/cs & 60 K/cs Magnetic tape systems: Logic drawings
"	c1967	2) 1942 series: Plessey core store: technical description and logic drawings
31/135	1967	Type 1972/1973 Magnetic tape system: Maintenance Manual
31/136	1968	Machine Manual. Type 2030/2030 Central Processor Vol 1 - address book
31/137	1968	Machine Manual. Type 2030/2030 Central Processor Vol 2 - address book
31/138	1968	Machine Manual. Type 2030/2030 Central Processor Vol 3 - reference list
31/139	1968	Machine Manual. Type 2030/2030 Central Processor Vol 4 - technical description - CPU
31/140	1967-72	Machine Manual. Type 2030/2030 Central Processor Vol 5 - technical description - SAM
31/141		Machine Manual. Type 2030/2030 Central Processor Vol 6 - main frame assembly
31/142	196-70	Machine Manual. Type 2030/2030 Central Processor Vol 7 - PCBs, logics
31/143		Machine Manual. Type 2030/2030 Central Processor Vol 8 - logics, step charts
31/144	1965-68	Type 2101 Card Reader Machine Manual Vol 1
31/145	1965-68	Type 2101 Card Reader Machine Manual Vol 2

31/146	1965-68	Type 2101 Card Reader Machine Manual Vol 3
31/147	1965-68	Type 2101 Card Reader Logic Diagrams (loose sheets)
31/148	1965-68	Type 2101 Card Reader Mechanical Drawings
31/149	1967	Type 2101 Card Reader - Maintenance Manual TP8350
31/150		Type 2104 Card Reader Logic Diagrams
31/151	1966	Type 2151 Card Punch Maintenance Manual
31/152		Type 2490 Print Unit Type 2491 Print Unit Type 2402 Printer Maintenance Manual
31/153	1966	Type 2501 Magnetic Tape System Maintenance Manual
31/154	1969	FIND 2 Single Enquiry System TP 4155 FIND 2 Multiple Enquiry System TP 4187
31/155	1968	1902A/1903A Executive Programs Various Modification Specifications
31/156	1970-71	Type 2030 Central Processor Vol 1 PF50 Processor Address Book
31/157	1970	Type 2030 Central Processor Vol 2 PF50 Processor Address Book
31/158	1970	Type 2030 Central Processor Vol 3 PF50 Processor Address Book
31/159	1970-71	Type 2030 Central Processor Vol 4 PF50 Store Extension Unit Address Book PF50 Peripheral Autonomous Controller Address Book
31/160	1968-71	Type 2030 Central Processor Vol 5 Technical Description Type 1902A &

1903A Computers

31/161	1968-69	Type 2030 Central Processor Vol 6 Types 1902A & 1903A Computers Store Access Manager Technical Description Optional Features Technical Description
31/162	1969-71	Type 2030 Central Processor Vol 8 Discrete Component Boards Engineer's Test Box Processor Logics
31/163		Type 1902A-3A System Programmes General Exec. Specifications for Mag Tape, Paper Tape and Overlaid Executives Instructions for associated Test Programmes
31/164	1979	1900 Series Basic Peripherals TP 4421
31/164a	1979	1900 Series Basic Peripherals TP 4421
31/165	1976	The ICL 1900 Software Directory (1976) TP 4435
31/166	1976	1900 Series Magnetic Tape Sorting TP 4424
31/167	1980	The ICL 1900 Software Directory (1980) TP 4452
31/168	1982	1900 Series Communications Manager TP 4455
31/169	1970	1900 Series Unified Direct Access Standards Utilities TP4232
31/170	1977	1900 Series UDAS Utilities TP4405
31/171	1976	1900 Series BASIC Language TP4281
31/172	1969	1900 Series - Programming 1900 Series in PLAN TP4037
31/173	1969	1900 Series - PLAN Macro Generator TP4165
31/174	1968	1900 Series - Direct Access TP4107

31/175	1969-72	GRM 1900 Series GIN Reference Manual Issue 3
31/175a	1969-72	GRM 1900 Series GIN Reference Manual Issue 3
31/176	1976-83	George 3 Notes (Training course material and notes)
31/177	1979-83	George 3 Documentation Microfiches
31/178	1979-83	George 3 Documentation Microfiches (continued)
31/179	1980	An Engineer's Guide to George 3/4
31/180	1983	George 3/4 Superhooks
31/181	1982	George 3+ Installation Hooks George 3 Tuning and Diagnostics (Course manual) George 3 Internal Mechanisms Tuning a George 3 System
31/182	1982	George 3 Superhooks Starter Pack George 3 Superhooks Manual
31/183	1983	Enhancements for Superhooks in George Mk 8.67
31/184	1985	Enhancements to Superhooks in Rel 4 of George Mk 8.67
31/185	1973	PLAN Conversion Course Workbook
31/186	Undated	EMOE Training Manual Vol 1
31/187	Undated	EMOE Training Manual Vol 2
31/188	1976	PSD 24.24.6 MAZE Language Definition ("MAZE" = A language for producing sanitized Executives)
"	1976	PSD 24.34.7 MAZE Assembler Definition
"	1976	PSD 24.34.8 The Modular EMOE Tools System
31/189		PLBTM-1 1900 PLAN Language Basic

		Training Manual
31/190	1972	PLCTW-1 PLAN Conversion Course Workbook
31/191	1981	T3695 Training Manual - TP Case Study T3477 Training Manual - Multi-Access Systems
31/192		Miscellaneous documentation for 1900 Series LUST, GLUT and COSY
31/193	1968	Provisional Manual: 1900 Series - Decision Tables with COBOL
31/194		George 3 Operator's Notes
31/195	1972-73	ICL 1900 Series Printers 2401, 2402, 2403, 2405 Field Modification Instructions
31/196		Boxfile, containing:
"	c 1966	1) 1900 Series Paper Tape Reader/Punch Logic Diagrams
"	1969	2) 1900 Series Executive Specification Punched Card Equipment 1901-1902-1903; 1901A-1902A-1903A
"	1965	3) 1900 Series Executive Specification for 1902 and 1903 Central Processors
"	1964-65	4) 1900 Series Printer Shroud and Barrel Assembly Drawings
"	1966	5) 033 Card Punch General Information
31/197	1970-72	1900 Series PF 56 Logic Diagrams
31/198		Colin's Basic PLAN Course
31/199		Programme YK32
31/200		Purple Wallet, containing four plastic folders, with paper tape punch codes, flowchart templates,

		reference cards for 1900, 2900, IDMS and VME/B, a 1900 COBOL programme listing, and a number of IBM COBOL subroutines
31/201	1969-70	FORTRAN 32K Disc Compiler TP 4149
31/202		ICT 1900 FORTRAN Part I Programmed Text
31/203		ICT COBOL Programmed Text
31/204	1977	COBOL TP 4427
"	1976	BASIC Reference Manual TP 4281
31/205	1977	FORTRAN Compiler Libraries (3 rd ed) TP 4428
31/206	1976	ALGOL: GEORGE 3 & 4 Compilers TP 4302
31/207	1976	ALGOL: Language TP 3340
31/208	1976	ALGOL: Compiler Library Procedures TP 4404
31/209	1975	1900 Series: Direct Access for PLAN Programmers Course Training Manual Training Publication PN8
31/210	1978	1900 Series: George 3 Operating System for Programmers Course Training Manual Training Publication PN12

32. Miscellaneous Special Peripherals

Mostly associated with:

- RADC Research and Advanced Development
Centre, Stevenage
- LDC Letchworth Development Centre
- LETS Letchworth Engineering Training School

32/1		CAFS Mark 2 - Miscellaneous engineering change specifications
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32/2	1976	CAFS Mark 2 - Software specifications for Post Office Directory Enquiries trial
32/3	1974	CAFS Mark 2 Controller Backplane layout and physical configuration
32/4	1972	CAFS Mark 2 - Engineering specifications for "Termite" - Peripheral Control Terminal PF 538
32/5	1976	CAFS Mark 2 - Specifications for various Termite software programs
32/6	1972-77	CAFS Mark 2 - Specifications for various hardware and interfaces
32/7	1973	CAFS Mark 2 - Logic diagrams for module interface and direct memory addressing
32/8	1976-79	CAFS Mark 2 - Technical descriptions and functional specifications for various CAFS units
32/9	1975-76	CAFS Mark 2 - Specifications for many engineering test programs
32/10	1974-77	2815 - Engineering manuals for Type 2815 Exchangeable Disc Store - EDS 60
32/11	1972-78	2815 - Engineering documentation for Type 2815 Exchangeable Disc Store - EDS 60
32/12		2815 - Field engineering documentation for Type 2815 Exchangeable Disc Store - EDS 60
32/13	1973	F1497 EDS Controller Machine Manual - Vol 1
32/14	1973	F1497 EDS Controller Machine Manual - Vol 2
32/15	1973	F1497 EDS Controller Machine Manual - Vol 3
32/16	1980	FDS 640 - Control Data Fixed

		Module Drive Troubleshooting manual and hardware reference manual
32/17	1973	GPC1 - General Purpose Peripheral Controller Maintenance manual - Vol 1
32/18	1973	GPC1 - General Purpose Peripheral Controller Maintenance manual - Vol 2
32/19	1974	Keyedit - 8970/11 GI Disk (Systematics Discstor Model 500FR Disk Memory)
32/20	1971	Type 2505/3 Magnetic Tape System Machine Manual, Logic Diagrams, and Maintenance Manual
32/21	1965-70	Various machines Test program driving instructions - Vol 1
32/22	1965-70	Various machines Test program driving instructions - Vol 2 - NOT YET LOCATED
32/23	1965-70	Various machines Test program driving instructions - Vol 3
32/24	1968/69	Type 2504/1 Magnetic Tape System Machine Manual - Vol 3
32/25	1968/69	Type 2504/1 Magnetic Tape System Machine Manual - Vol 4
32/26	1970-72	Type 1902A and 1903A computers PF50 Processor address book index C1161-0-133 - Vol 1
32/27	1970-72	Type 1902A and 1903A computers NOT YET LOCATED C1161-0-133 - Vol 2
32/28	1970-72	Type 1902A and 1903A computers PF50 Processor address book index C1161-0-133 - Vol 3
32/29	1970-72	Type 1902A and 1903A computers Optional features - Technical description C1161-0-133 - Vol 4

32/30	1970-72	Type 1902A and 1903A computers Processor logic diagrams C1161-0- 133 - Vol 5
32/31	1966	2601 and 2602 Paper Tape Station PF 400 Design specification Vol 1
32/32	1966	2601 and 2602 Paper Tape Station PF 400 Design specification & address book index Vol 2
32/33	1971	2601 and 2602 Paper Tape Reader/Punches Maintenance Manual
32/34	1967	2601 and 2602 Paper Tape Reader/Punches Engineering Services Maintenance Manual
32/35	1967-69	2801 and 2802 Disc Store Machine Manual Vol 1
32/36	1967-69	2801 and 2802 Disc Store Machine Manual Vol 2
32/37	1967-69	2801 and 2802 Disc Store Machine Manual Vol 3
32/38	1967	2801 and 2802 Disc Store Machine Manual
32/39	1967	2801 and 2802 Disc Store Engineering Services Machine Manual Packing and installation instructions
32/40	1967	2801 and 2802 Disc Store Engineering Services Machine Manual Logic diagrams
32/41	1967	2801 and 2802 Disc Store Engineering Services Machine Manual Technical description
32/42	1972	Type 2802 Disc Store An engineer's guide to fault-finding
32/43	1971-73	2508 and 2509 Magnetic Tape Unit Systems Engineering Manual
32/44	1973-75	GPC1 General Purpose Peripheral Controller 1 Technical description

32/45	1977	Model 902 Data Terminal TP 7574 Programmer's Reference Manual
32/46	1975	Model 825 and 826 Cartridge Tape Recorder Operator's Instructions and Service Manual
32/47	1978	DRI 6320 Matrix Printer Miscellaneous manuals, notices and correspondence
32/48	1968	Type 7007 Multiplexer Engineering Services Maintenance Manual
32/49	1976	Type 7502 Cluster Video System Introduction - Training Handout
32/50	1976	Type 7502 Cluster Video System Introduction - Training Workbook
32/51	1974	Model T33 Teletype Printer Parts lists
32/52	1976	CAFS Mark 2 1. General Description, by V.A.J. Maller 2. Description for DQ Project, by Giffords 3. Functional Descriptions for DQ Project, by Nelson and Truman 4. CAFS Hardware for the Programmer, by Bath 5. Technical Description of 7503 Modular Terminal Processor
32/53	1980	CAFS 800 Machine Manual
32/54	1981	CAFS 800 General Enquiry System RP 3024
32/55	1984	ICLCUA - Exploiting CAFS-ISP
32/56	1985	ICLCUA - CAFS in Action
32/57	1979	CAFS 800 Sales Guide
32/58	1983	CAFS-ISP CAFS Training Course material
32/59	1982-86	CAFS-ISP 1. CAFS Sales Training

2. Reports from Working Parties of the ICL Computer Users' Association - cf 32/55 and 32/56
3. Data Sheets

32/60

Boxfile, containing files of correspondence, filed by J. M. M. Pinkerton, covering discussions and decisions (and lack of decisions) at corporate and divisional level on aspects of product strategy, product planning, product timing, sales strategy, etc, over the early lifetime of the CAFS project

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1) 1974 to April 1975

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2) May 1975 to December 1975

32/61

Boxfile, continued from 32/60

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1) January 1976 to December 1976

"

2) January 1977 to 1978

32/62

Boxfile, continued from 32/61

"

1) February 1979 to January 1983

"

2) ICL CUA CAFS Working Party - working papers

32/63

Boxfile, containing early papers on the CAFS development project

"

1) A Content-Address File Store, Mitchell, February 1970

"

2) Some Characteristics of Real-Time Data Management Systems; Coulouris and Evans, Imperial College, April 1970

"

3) Appendix A : A Content Addressable File System; Coulouris and Evans, Imperial College, April 1970

"

4) An Approach to Content-Addressing in Databases; Coulouris, Evans and Mitchell,

Imperial College and ICL RADO,
November 1970

- " 5) Towards content-addressing in data bases; Coulouris, Evans and Mitchell, in The Computer Journal Volume 15, Number 2, 1972
- " 6) Preliminary Report on CAFS, J.B. Brenner, December 1972
- " 7) An Outline of the CAFS Programming Interface, Evans, Imperial College, June 1970
- " 8) A Proposal for a CAFS-based file handling system, Crockford and Maller, November 1974
- " 9) Notes on Discussion on the Application of CAFS, Pinkerton, March 1975
- " 10) Visit Report, Visit to INSPEC at IEE, Pinkerton, November 1974
- " 11) Proposals on how to proceed with CAFS, Giffords, July 1975
- " 12) An Introduction to CAFS, Montgomery, August 1975
- " 13) CAFS document retrieval study - summary of progress, Mitchell, May 1977
- " 14) Content Addressable Filestore (An Introduction to CAFS), ICL, 1976
- " 15) CONTENT ADDRESSABLE FILE STORE, Mitchell, undated, with covering memo to CAFS Exploitation Review Committee from R.B. Hamilton
- " 16) CAFS on 2900, D. Huxtable, June 1976
- " 17) A development rationale for early CAFS products, RADC, 1976

- " 18) Relational Data Management - A summary of discussions between RADC and A.T.F. Hutt, September 1976
- " 19) Uses of an Associative Store, S.G., December 1962
- " 20) The development of CAFS for the market, J.M.M.Pinkerton, October 1975
- " 21) S.M.R. (= Statement of Marketing Requirements) on customer data management requirements on 2900, probably c 1976
- " 22) A Marketing view of CAFS as at March 1977
- " 23) Department of Industry CAFS Study Contract for Bibliographic Systems, 1976
- " 24) The future of CAFS, Giffords, 1978
- " 25) A summary of CAFS chronology, (hand-written), JWSC, c 1984
- " 26) Mullard Award for CAFS, (hand-written), GGS to VAJM, February 1983
- " 27) Development Timescale for ICL's CAFS System, VAJM, November 1983
- " 28) Strategy for marketing CAFS, Pinkerton to Comish, November 1979
- " 29) SMR 242, 2900 Mk 3 CAFS, June 1979
- " 30) Draft working paper, CONTENT ADDRESSABLE FILESTORE, for 2900 DME and VME/B Systems, Dawson and Sale, c 1978
- " 31) SMR 225, CAFS mark II with

2950 DME/3 for DQ and similar applications, May 1978

" 32) CAFS Marketing, M.R. Hurl, December 1977

" 33) DAP and CAFS, Pinkerton to P.V. Ellis, October 1977

" 34) Extending the data base relational model to capture more meaning, E. F. Codd to VAJM, March 1979

" 35) 2900 Marketing Bulletin, CAFS Success at Southern Water Authority, August 1984

" 36) ICL CAFS vs. IBM - Demonstration - Comparison, DMW Group Europe to D. Lovegrove, February 1984, with supporting papers.

" 37) MSD 24, System Definition for CAFS, May 1987

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Boxfile, containing papers labelled "CAFS Archive Material"

" 1) CAFS SOFTWARE PRODUCTS - A Salesman's Guide

" 2) "Database Machines - Have they a future?", V. A. J. Maller, Computer Bulletin, June 1987

" 3) "The Content Addressable Filestore - A Technical Overview", V. A. J. Maller

" 4) "IDMS and CAFS", J. W. S. Carmichael, presented at "BCS 81", London 1981

" 5) File Correlation Unit, overhead slides

" 6) The INDEPOL Approach, overhead slides and script notes

- " 7) "ICL's Content Addressable File Store", J. W. S. Carmichael, the James Martin World Seminar, London, December 1981
- " 8) "The content addressable filestore - CAFS", V. A. J. Maller, ICL Technical Journal, November 1979
- " 9) "Associative data management system", L.E. Crockford, ICL Technical Journal, May 1982
- " 10) "Personnel on CAFS; a case study", J. W. S. Carmichael, ICL Technical Journal, May 1981
- " 11) "Overview of ICL Content Addressing", J. W. S. Carmichael, November 1981
- " 12) "CAFS - an updated overview", J. W. S. Carmichael, undated - probably c 1981
- " 13) "Content addressing and cartographic data", J. W. S. Carmichael, undated
- " 14) "Computerised information retrieval", presented at "INFO 81", J. W. S. Carmichael, February 1981
- " 15) Uses of indexes in CAFS applications, J. W. S. Carmichael, April 1981
- " 16) CAFS Enquiry Language - a user summary, unsigned, undated, probably c 1982
- " 17) CAFS Marketing Bulletin, J. R. Collins, April 1982
- " 18) Salient features of the CAFS "Aquila" software, J. W. S. Carmichael, October 1981
- " 19) Checklist of features in CAFS

- 800 enquiry software, J. W. S. Carmichael, January 1982
- " 20) CAFS-R and the VME environment, J. W. S. Carmichael, September 1981
- " 21) CAFS and ICL's Information Handling Strategy, J. W. S. Carmichael, March 1981
- " 22) A note on the principles embodied in AQUILA Data Modelling, unsigned, undated, incomplete
- " 23) CAFS Applications, J. W. S. Carmichael, March 1981
- " 24) Use of CAFS in batch mode, J. W. S. Carmichael, undated
- " 25) STATUS and CAFS, J. W. S. Carmichael, February 1981
- " 26) Joined Normal Form: a storage encoding for relational databases, E. Babb, ACM Transactions on database systems, December 1982
- " 27) CAFS case studies - CAFS 800 in Personnel within ICL, November 1982
- " 28) CAFS case studies - CAFS 800 in applications within ICL, Putney, November 1982
- " 29) CAFS case studies - CAFS 800 in Personnel within ICL, Letchworth, November 1982
- " 30) WORDSKIL to CAFS Conversion Utility, October 1981
- " 31) CAFS and Text-Processing, J. W. S. Carmichael, July 1981
- " 32) Retrieving Information, V. A. J. Maller, Datamation, September 1980

	"		33) CAFS and IDMS, J. W. S. Carmichael, March 1982
	"		34) Contents Addressable Filestore as a network resource, L. Harding, undated
	"		35) CAFS - A user viewpoint, J. W. S. Carmichael, April 1980
	"		36) Personnel on CAFS - a case study, INFOTECH Data Management Handbook, January 1981
32/65		1979	#ADAM User Guide (RADC CAFS 800 Software)
32/66		1981	#ADAM 2 (Corporate Systems CAFS 800 Software)
32/67		1980	CAFS 800 General Enquiry Program RP 3024
32/68			Boxfile: CAFS and the DTI Advanced Computer Technology Project
	"		1) RADO Report TR 1102, DTI ACTP contract, CAFS Pilot System 1st stage report, part 3 - software, April 1973
	"		2) RADO Report TR 1103, DTI ACTP contract, CAFS Pilot System 1st stage report, part 4 - applications, August 1973
	"		3) Associative Data Management System - ADMS, Office Systems Research Unit Technical Note, L.E. Crockford, July 1982
	"		4) RADO Report TR 1172, DTI ACTP contract, Relational database studies, final report, February 1976
	"		5) RADO Report TR 1120, DTI ACTP contract, The use of CAFS with COBOL, April 1974
32/69			Boxfile, containing:

- " 1) Report on Incident Logging, North Yorkshire Police, August 1981
- " 2) Report on Incident Logging, Appendices, North Yorkshire Police, August 1981
- " 3) CCA Spearhead project - CAFS for the Home Office INDECS project - Part 1, Management Summary, August 1979
- " 4) CCA Spearhead project - CAFS for the Home Office INDECS project - Part 2, Full Report, August 1979
- " 5) Design Study : A Desk-top CAFS, M.W. Martin, October 1985
- " 6) Exploiting CAFS - Applications and Stored Information, Hoddinott and Martin, January 1987
- " 7) Corporate Systems and CAFS, and other papers, J. W. S. Carmichael, April 1974
- 32/70 Boxfile, containing CAFS publicity material
- " 1) Brochures
- " 2) "ICL-at-Work" case studies
- " 3) Posters
- " 4) Magazine articles
- 32/71 Boxfile, containing:
- " 1) CAFS published papers
- CAFS-ISP - a UK Content Addressable File Store; by B. J. Boorman; presented to NATO Advanced Study Institute, Les Arcs, France; July 1985
 - Name-Tracing using the ICL Content Addressable File Store; by A. G. Ward

presented at the Very Large Database Conference, Singapore; August 1984 The Application of ICL's Content Addressable Filestore to Text Storage and Retrieval; by J. W. S. Carmichael; presented at PROTEXT I, first International Conference on Text Processing Systems, Dublin; October 1984

- Creating an End-User CAFS Service; by Chris Corbin of Southern Water Authority; presented to ICL CUA CAFS Conference; 1985
- Various other presentations at ICLCUA CAFS Conference; 1985; by Martyn Kenyon, North West Gas; John Newton and Gordon Edwards, CEGB North West; Lou Burnard and Paul Salotti, Oxford University Computing Service; David Fairbairn; and Chris Cheetham
- CAFS and Relational Processing; by J. W. S. Carmichael, presented at Convention Informatique, SICOB, Paris; September 1985
- CAFS and Text - an Update; by J. W. S. Carmichael, presented at BCS 8th Research Colloquium on Information Retrieval, Strathclyde; April 1986
- CAFS - A New Solution to an Old Problem; by Lou Burnard, Oxford University Computing Service; in Literary and Linguistic Computing, Vol 2 No 1, 1987
- From Archive to Database; by Lou Burnard, Oxford University Computing Service; in Méthodes quantitatives et informatiques dans l'études des textes en hommage à C. Muller; Slatkine, Geneva; 1986

- Text for ICL-at-Work Brochures, on Reading Central Library, IRAS at Queen Mary College, Shakespeare at Oxford University; 1985
- CAFS in Practice; by G. McC. Haworth; c. 1986
- CAFS-ISP - A Brief Appraisal; by David Bell, Ultracomp; December 1986
- Oxford University Computing Services proudly presents A Quick Scamper Through the First Folio, by W. Shakespeare (and others)
- Examples of CAFS Effectiveness; by J. W. S. Carmichael; c 1986
- ICL's Use of Relational Technology; by G. McC. Haworth; c. 1986

" 2) Product Descriptions for INDEPOL Version 2.0, Version 260, Version 300 and associated products

" 3) Non-VME CAFS - U.S. Visit Report; March 1988

" 4) A Business Plan for FIND-IT LTD/PLC; May 1988

" 5) Papers by Gordon Scarrott

- Thirty Years of Information Engines, G.G. Scarrott, March 1980, in Quaestiones Informaticae.
- Physical Uncertainty, Life, and Practical Affairs, G. G. Scarrott, undated
- Some Consequences of Recursion in Human Affairs, G. G. Scarrott, March 1981

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Boxfile, containing reports on CAFS in government service

" 1) A Report on Query

Languages, CCTA, 1987

2)

" 2) Helping with Enquiries -
Tackling Crime Effectively, AUDIT
Commission, 1993

" 3) Project LACE, report of the
trial of the ICL CAFS system in
the MCE RE MRLG map library,
Mapping & Charting Establishment,
1979

" 4) CIRCIT, case study of the
contract between the TRICO Royal
Commission and ICL Australia

" 5) TRICO Royal Commission, study
working papers

32/73

Boxfile, containing miscellaneous
CAFS papers:

" 1) Exploiting CAFS - Integration
of CAFS with UNIX, by S.M.
Macpherson
and M. W. Martin, 1986

" 2) File Correlation Unit -
Technical Description, 1987

" 3) The CAFS File Correlation Unit
- An Overview, 1983

" 4) Some notes on the Criminal
Associates problem

" 5) The Management of Innovation -
a Case Study, J. J. Cheese, 1988

" 6) High Speed Data Searching with
a Processor Array, R. M. R. Page
and S. F. Reddaway, 1988

" 7) INDEPOL Marketing Bulletin,
1987

" 8) Text Database Design Utilising
CAFS-ISP, 1983

" 9) Draft Marketing Plan for
INDEPOL in U.K. Police, 1984

- " 10) The Future Development of INDEPOL, 1989
- " 11) Computers in the Investigation of Fraud, J. W. S. Carmichael, c 1988
- " 12) INDEPOL - The System That's Wanted for Questioning,
- " 13) INDEPOL Tips
- 32/74 1) INDEPOL Requirements Register, October 1984
- " 2) INDEPOL Functional Requirements, September 1983
- " 3) INDEPOL Functional Specification, July 1984
- " 4) INDEPOL Functional Specification, Appendix I, August 1985
- 32/75 INDEPOL Version 310 - System Building - TP 21909/001
- 32/76 INDEPOL Version 310 - Applications and Data - TP 20054/001
- 32/77 INDEPOL Version 310 - Using an INDEPOL-based system - TP 20927/001
- 32/78 Investigation and Intelligence Analysis. Training Course Manual, ICL Australia, 1990
- 32/79 The Investigator's Toolkit (based on experience with the TRICO Royal Commission), ICL Australia, 1991
- 32/80 1) Triad Societies and Chinese Organised Crime, B.L. Merritt, 1992
- " 2) Intelligence Analyst's Workbench - Slide copies, 1992
- 32/81 Miscellaneous Papers on Police and

		Intelligence Systems - Vol 1
32/82		Miscellaneous Papers on Police and Intelligence Systems - Vol 2
32/83		First report of The Royal Commission into the TRICONTINENTAL GROUP OF COMPANIES Government of Victoria, Melbourne, Australia. 30 July 1991
32/84		Database Machines - General Papers
32/85		Database Machines - Britton Lee Volume I
32/86		Database Machines - Britton Lee Volume II
32/87		Database Machines - Teradata
32/88		Database Machines - Gould Hypersearch
32/89		Database Machines - Minor machines - GESCAN, Proximity, Contexture, Sybase, Amperif, TRW, Copernique
32/90		Database Machines - Competitive Software
32/91		Database Machines - DELPHI Project Final Report DUCLOS MEILLEUR ROY, Ottawa, 1985
32/92	1972	Special Systems Division - Tactical Catalogue
32/93	1994	INDEPOL Auxiliary software - IDUC, HSDM, Documenter
32/94	1994	Presentation masters - INDEPOL, Documenter, HSDM, IDUC
32/95	1993	INDEPOL Version 10 - Support Guide - Installation Note - International Prices
32/96		Filebox. Botswana Police Crime Recording System: - Statement of User Requirements,

Issue 1.1, Dec 1993
 - User Requirements Acceptance,
 Dec 1993
 - Post-Implementation Review
 Report, Sep 1994
 - Second Post-Implementation
 Review Report, Jun 1995,
 Management Summary
 - Second Post-Implementation
 Review Report, Jun 1995, Full
 Report

32/97

Filebox:
 - INDEPOL User Group Meetings 1997
 - 1998
 - INDEPOL Client - documentation
 and correspondence

33. 2903 range - 2903, 2904, 2905; ME29

33/1	1974	2903 system maintenance manual - vol 1 TP 8141
33/2	1974	2903 system maintenance manual - vol 2 TP 8142
33/3	1974	2903 system maintenance manual - vol 3 TP 8143
33/4	1974	2903 system maintenance manual - vol 4 TP 8144
33/5	1979	2903 range - Support Guide - vol 1
33/6	1978	2903 range - Support Guide - vol 2
33/7	1979	2903 range - Introduction to the 2903 range Models 2903/25, 2903/40, 2904/50 TP4615
33/8	1973-78	2903/2904 - PF73 Small Processor System Processor - drawings and parts lists
33/9	1973-78	2903/2904 - PF73 Small Processor System Integral devices - drawings and parts lists
33/10	1973-78	2903/2904 - PF73 Small Processor

System Integral devices - drawings
and parts lists, continued

33/11	1973-74	2903 Commissioning procedure and fault-finding procedure
33/12	1977	2903/4 - Standard executive and microcode disc manual Customer Engineering training manual EE054
33/13	1979	2903/4 - Store exchange conversion (1k to 4k chip) Corporate procedure
33/14	1975	Using the 2903 - a publications guide TP 4738
33/15	1975-78	2903 range - catalogue sheets Marketing material
33/16	1979	2903 range - disc systems Independent study course - training publication A515
33/17	1974	2903 range - #SM1A - Micros 1 Assembler Customer engineering manual
33/18	1977	2903 range - X2 highway enhancements Field fitting instructions for C1705/6, F2090, F2091
33/18a		Duplicate of 33/18
33/19	1977	2903 range - X2 highway enhancements Field fitting instructions for C1707
33/20	1977	2903 range - X2 highway enhancements Field fitting instructions for C1708
33/21	1977	2903 range - 2904 processor and video maintenance manual Vol 1 - Conversion 2903 to 2904 - C1693
33/22	1977	2903 range - 2904 processor and video maintenance manual Vol 2 - Modifications to planes 01 and 02 - C1693

33/23	1974-78	2903 range - Communications interface Field fitting instructions for F1560
33/23a		Duplicate of 33/23
33/24	1973	2903 range - FEEDS (Fixed & Exchangeable Disc Store) 2822 Machine Manual
33/25	1973	2903 range - Card Reader 2108 Machine Manual
33/25a		Duplicate or re-issue of 33/25
33/26	1977	2903 range - Store Enhancement Cabinet F2052 Machine Manual
33/27	1973	2903 system - Processor and Video Machine Manual - Vol 1 of 9
33/27a	1977	Duplicate or re-issue of 33/27
33/28	1975	2903 system - Processor and Video Machine Manual - Vol 2 of 9
33/28a	1975	Duplicate or re-issue of 33/28
33/29	1973	2903 system - Processor and Video Machine Manual - Vol 3 of 9
33/29a	1973	Duplicate or re-issue of 33/29
33/30	1975	2903 system - Processor and Video Machine Manual - Vol 4 of 9
33/30a	1975	Duplicate or re-issue of 33/30
33/31	1973-5	2903 system - Processor and Video Machine Manual - Vol 5 of 9
33/32	1975	2903 system - Processor and Video Machine Manual - Vol 6 of 9
33/33	1975	2903 system - Processor and Video Machine Manual - Vol 7 of 9
33/34	1973	2903 system - Processor and Video Machine Manual - Vol 8 of 9
33/34a	1973	Duplicate or re-issue of 33/34

33/35	1975	2903 system - Processor and Video Machine Manual - Vol 9 of 9
33/35a	1975	Duplicate or re-issue of 33/35
33/36		2903 system - DDE (Direct Data Entry) 2251, F1551 & F1552 Machine Manual
33/37	1973	2903 system - Peripheral Enhancements, F1555 Machine Manual
33/38	1975	2903 system - Line Printer 2411/3 Machine Manual - Vol 1 of 2
33/38a	1976	Duplicate of 33/38
33/39	1973	2903 system - Line Printer 2411/3 Machine Manual - Vol 2 of 2
33/39a	1973	Duplicate of 33/39
33/40	1974	2903 system - Communications Interface, F1559 & F1560 Machine Manual - Vol 1
33/40a	1976	Partial duplicate of 33/40
33/40b	1976	Partial duplicate of 33/40
33/41	1973	2903 system - Communications Interface, F1559 & F1560 Machine Manual - Vol 2
33/42	1974	2903 system - Store Enhancements, F1548 Machine Manual
33/42a	1976	Duplicate of 33/42
33/43	1977	2903/4 system - Synchronous Multi Communications Coupler Machine Manual F2147/00 & F2147/01
33/44	1974	2903 Range - EDS 30/60, F1556 & F1557 Machine Manual
33/45	1974	2903 Range - DDE - F1551, F1552 & 2251/1 Machine Manual (Similar to 33/36)
33/46	1973	2903 Range - System Programs -

Executives and Test Programs Vol 1

33/46a		Duplicate of 33/46
33/47	1973	2903 Range - System Programs - Test Programs Vol 2
33/47a		Duplicate of 33/47
33/48	1973	2903 system Processor and Video Machine Manual Vol 5 of 9 Additional Logic Diagrams. (Continuation of 33/31)
33/49	1973	2903 system Processor and Video Machine Manual Vol 6 of 9 Additional Logic Diagrams. (Continuation of 33/32)
33/50	1973	2903 system Processor and Video Machine Manual Vol 7 of 9 Additional Logic Diagrams. (Continuation of 33/33)
33/51	1973	2903 system Comms Interface F1559 Machine Manual Additional Logic Diagrams. (Continuation of 33/40)
33/52	1973	2903 system Comms Interface F1560 Machine Manual Additional Logic Diagrams. (Continuation of 33/41)
33/53	1973	2903 range - 2903 Operating TP4710
33/54	1978	2903 range Peripheral Operating TP4603
33/55	1973	2903 range RPG2 TP 4709
"	1973	2903 range COBOL Language TP 4706
33/56	1973	2903 range Test Equipment Prowest Video Monitor 5090151 - used on 2903 Console
33/57	1979	2905 and Executive 5S Guide
33/58	1976	TP 4765 2903 Model 20: Introduction (unbound)
33/59	1974	2903 - Engineer's Pocket Book

33/60	1976	2903 - 2412 Direct Current Shuttle Printer Engineering Documentation
33/61	1980	RP1051 - TME Publications Guide
"	1980	RP1052 - TME System Construction
"	1981	RP1052 - DME/2 & Executive 5S Guide
"	1980	RP1115 - Remote Job Entry 2903/2904/ME29
33/62	1974-75	2903 Modifications Customer Engineering Modification Instructions
33/63		1. TME Guide
"	1980	2. ME29 Marketing Bulletins 5-10
"	1980	3. TSI - 950 - ME29 Software
33/64	1980	ME29 System Event Evaluation Guide TP 9501
33/65	1982	ME29 Mail Order Software Catalogue
33/66	1980	ME29 <ul style="list-style-type: none"> • Marketing Guide • System Appreciation • Site Preparation Guide • Operators Guide • Direct Data Entry (DDE) • Work Stations for DDE
33/67	1983	ME29 Technical Guides - Nos 1 - 21
33/68		ME29 Program Product Set Notices - Vol 1 of 2
33/69		ME29
"		1) Program Product Set Notices - Vol 2 of 2
"		2) Performance and High Level Sizing Guide
"		3) Dump Analysis Guide

	"		4) TME Support Notices 1-34
33/70			ME29
	"		1) Technical Sales Instructions
	"		2) Program Product Set Specifications
33/71		1981	ME29 Software Catalogue; Utilities, Languages and Applications
33/72			ME29
	"		1) TME Dump Reference Guide
	"		2) Microcode Reference Guide
33/73			ME29 Engineers' Test Software
33/74		1983	ME29 ICL Business 29 Marketing Guide
33/75			ME29 Engineer's Training Notes
33/76			ME 29 Service Guide
33/77		1981	TME RAPID Assessment Report
33/78		1977-81	TME RAPID Working papers and correspondence
33/79		1980	ME 29 TME Introduction - Training Course Material
33/80		1980	ME 29 TME Facilities Management - Training Course Material
33/81		1976	Sizing Training Course Material
33/82		1978	2903 JCL Training Course Material
33/83		1976	Real Time Systems Training Course Material
33/84		1974	1) ICL 2903 Direct Data Entry - Keystation Operation TP 4722
	"	1975	2) ICL 2903 Direct Data Entry - Supervisor's Guide TP 4728

33/85	1974	ICL 2903 Hardware Operating TP 4734
33/86		Wallet, containing:
"	1983	ME29 Problem Solving Power P1504
"	1982	ME29 Systems Appreciation P1282/3
"	1982	ME29 The Living System P1389
"	1982	ME29 Configuration Guide P1391

34. 2900 Series

34/1	1973	New Range (2900) Support Notices, nos 0 - 43
34/2	73-75	New Range (2900) Support Notices, nos 44 - 127
34/3	75-76	New Range (2900) Support Notices, nos 128 - 199
34/4	76-78	New Range (2900) Support Notices, nos 200 - 275
34/5	78-81	New Range (2900) Support Notices, nos 276 - 332
34/6	81-83	New Range (2900) Support Notices, nos 333 - 381
34/7		New Range (2900) Organisation Miscellaneous Papers (list inside)
34/8		Documentation for New Range (2900 Series) launched 1974 Box 1 Specifications 0-0-1 to 1-1- 8
34/9		Documentation for New Range (2900 Series) launched 1974 Box 2 Specifications 1-2-1 to 1-4- 16
34/10		Documentation for New Range (2900 Series) launched 1974 Box 3 Specifications 1-4-17 to 2- 3-18
34/11		Documentation for New Range (2900

		Series) launched 1974 Box 4 Specifications 2-3-9-1 to 2-5-6
34/12		Documentation for New Range (2900 Series) launched 1974 Box 5 Specifications 2-6-0 to 2-8-4
34/13		Documentation for New Range (2900 Series) launched 1974 Box 6 Specifications 2-8-5 to 2-8-15
34/14		Documentation for New Range (2900 Series) launched 1974 Box 7 Specifications 2-9-0 to 2-10-11
34/15		Documentation for New Range (2900 Series) launched 1974 Box 8 Specifications 2-11-0 to 2-17-20
34/16		Documentation for New Range (2900 Series) launched 1974 Box 9 Specifications 2-18-1 to 4-2-4G
34/17		Documentation for New Range (2900 Series) launched 1974 Box 10 Specifications 4-2-6F to 4-5-9G
34/18		Documentation for New Range (2900 Series) launched 1974 Box 11 Specifications 4-6-1F to 4-12-5G
34/19		Documentation for New Range (2900 Series) launched 1974 Box 12 Specifications 4-12-7F to 5-36-2-1-1
34/20	1969-74	New Range (2900 Series) Development Various Papers 1969-74
34/21	1966-69	New Range (2900 Series) Basic Language Synthetic Option Vol 1 of 2

34/22	1968-69	New Range (2900 Series) Basic Language Synthetic Option Vol 2 of 2
34/23	1969	New Range (2900 Series) Planning Organisation Vol 1
34/24	1969	New Range (2900 Series) Planning Organisation Vol 2
34/25		New Range (2900 Series)
"	1972	Course by System Programming Organisation
"	1977	New Range Order Code
34/26		2900 Series
"	1980	Hardware Guides (Peripherals)
"	1977	2950 Performance and Sizing Guide
34/27		2900 Series
"	1982-83	Marketing Guide
"	1978-84	Marketing Bulletins
34/28		2900 Series
"	1973-76	Keyword Index to Technical Information
"	1983	Content of ICL Support Library
34/29	1976	2900 Series Introduction for Technical Managers
34/30	1982	2966 Hardware Guide
34/31		Number not used
34/32		2900 Series Sales Instructions (H/W & S/W) Vol 2 of 3
"	1982-83	Hardware: Nos 133-179
"	1976-82	Software: Nos 1-83

34/33		2900 Series Sales Instructions (H/W & S/W) Vol 3 of 3
"	1980-83	Software: Nos 84-202
34/34	1977	2900 Software Guide Vol 1 - VME/B Vol 2 - VME/K
34/35	1979	2900 "The Framework for Growth" - Press Take-away Pack Assorted Marketing Bulletins, Sales Instructions and Brochures
34/36	1979	2900 Series Training Manual
34/37	1973	Digital Development Corporation Operation and Maintenance Instructions for Model 7613 Head- per-Track Disc Memory Systems
34/38	1974-80	2900 Procedural Instructions Nos 1 - 39
34/39	1981	Technical Services Guide Medium Systems Hardware Guide - 2946, 2950, 2955 & 2956 Systems
34/40	1980	2900 Series DME Guides DME 1900, DME System 4, DME/3 & DME/G3
34/41	1978-81	2900 Series - 2900 Hardware Guide
34/42	1979	2900 Series - George 2 Technical Notices and Amendments
34/43	1976	Customer Engineering Audio Tape Training 2900 Pre-course Training Handout.
Items 34/44 to 34/57 are loose, not held in 4-ring binders.		
34/44	1974	IM 110 (65/94530) New Range General Description
34/45		Corporate George 3 Standards and User Guide
34/46	1975-77	65/94585 2980 OCP Engineer's Facilities

34/47	1974	IM 119 (65/94532) P4 System Description Stage 2 - General
34/48	1971	New Range Appreciation Video Lecture Booklet
34/49	1972-74	New Range (2900 Series) Introduction to the Architecture
34/50	1977	2950 OCP-Engine Technical Description
34/51	1974-76	Training Manual 65/94565 New Range Order Code
34/52	1980	2900 Marketing Guide
34/53	1976	TP 5602 - System Evaluation Guide VME/K Design
34/54	1974-76	TP 6102 - System Evaluation Guide System B Design
34/55	1978-80	Emulation Guide
34/56	1978	2900 Marketing Bulletin 2900 VME/B Software Facilities - Salesman's Summary
34/57	1979	65/94899 Handbook (A5 size) 2900 Order Code
34/58	1974	EP 119 Introduction to New Range
34/59	Aug 1969	MU5 - University of Manchester New Machine Manual
34/60	Feb 1970	MU5 - University of Manchester New Machine Manual
34/61	Aug 1970	MU5 - University of Manchester New Machine Manual
34/62	Spring 71	Systems Group - Development Activity Manual Part 1 - Old Ranges Part 2 - New Range (contains very useful indexes to Project File (PF) numbers)

34/63	1976	The Value of 2900
34/64	1968	ICL & Manchester University Papers relating to MU 5
34/65	1969-81	ICL & Universities (Edinburgh, Exeter, Leeds, Imperial College) Correspondence on research and collaborations (ex the John Pinkerton archive, but better here than in section 1)
34/66	1968-70	Consultants' Reports on New Range 2 from Auerbach, 1 from T.C.Hudson Associates
34/67	1969	Experimental Basic Language Machine Outline of Applied Basic Language
34/68	Spring 72	Systems Group - Development Activity Manual Part 1 - Old Ranges Part 2 - New Range (contains very useful indexes to Project File (PF) numbers) (c/f 34/62)
34/69	1979	South West Universities Computer Network
34/70	1979-81	Box-file. ICL & Manchester University. Various papers, including the High Court case in 1979
34/71	1969-81	Box-file. ICL & Manchester University. Various papers, including the High Court case in 1979
"	1971	Edinburgh University - System 4-75 Edinburgh multi-access system
34/72	1968-78	Box-file. ICL Product/Marketing Strategy papers
34/73	1977	2900 Series Overview Order Code Manual 65/94565 Architecture Hardware

		Languages Input/Output Philosophy Error Management
34/74	c1974	2900 Series Machine Documents FPC 2 File Peripheral Controller DFC 1 Disc File Controller
34/75	1974-78	FPC 2 File Peripheral Controller Machine Manual - Vol 8 of 10 (Vols 1 to 7 missing)
34/76	1974-78	FPC 2 File Peripheral Controller Machine Manual - Vol 9 of 10
34/77	1974-78	FPC 2 File Peripheral Controller Machine Manual - Vol 10 of 10
34/78	1972	2900 Series File Peripheral Controller Training Course material and engineer's notes
34/79	1972	2900 Series Sector File Controller Engineer's notes
34/80	1974	2900 Series Card Punch CP1 Vol 1 of 4 - Technical Literature
34/81	1974	2900 Series Card Punch CP1 Vol 2 of 4 - Logic
34/82	1974	2900 Series Card Punch CP1 Vol 3 of 4 - Wiring
34/83	1974	2900 Series Card Punch CP1 Vol 1 of 4 - Assembly Drawings
34/84	c1974-75	New Range (2900 Series) Technical memos
34/85	1975-78	2970/2980 Technology Manual 65/94536
34/86	1975-76	2900 Software Guide
34/87	1981-82	2900 Series Hardware Guide 2960, 2970, 2972, 2976, 2977, 2980 & 2982 Processors Distributed Array Processor Attached Emulators

34/88	c1973	New Range (2900 Series) Sales Manual
34/89	1975-82	2900 Series Sales Instructions (H/W & S/W) Vol 1 of 3 (Vols 2 and 3 missing) Hardware Instructions numbers 1 to 132
34/90	1983	2900 Marketing Guide
34/91	1977	Audio Training - Trainee's Workbook Introduction to 2900 and VME/B
34/92	1977	Audio Training - Lecturer's Workbook and Visuals Introduction to 2900 and VME/B
34/93	1976	2900 Series TP 6460 - VME/B - Using an Operating Station
34/94	1976	2900 Series Training Publication VME/B - Basic Concepts and Facilities
34/95	1981	2900 Sizing Handbook
34/96	1982	VME Performance Parameters
34/97		VME 2900
"	1983	RP0072 - System Management
"	1982	RP0073 - System Operating
34/98	1979	2980 Engineer's Handbook
34/99		2900 Manuals
"	1975	TP6452 - Punched Card Operating
"	1977	TP6461 - Line Printer Operating
"	No Date	TP6457 - Paper Tape Operating
"	No Date	TP6462 - Magnetic Tape Operating
"	1978	TP6459 - Direct Access Operating

	"	1978	TP6460 - VME/B - Using an Operating Station (reprint of 34/93)
	"	1978	TP6458 - Peripheral Operating - Using Pictures and Prompts
34/100		1980-81	2966 Mainframe Reference Manual A5 format Vol 1 of 7 (Volumes 2 to 5 and 7 missing)
34/101		1980	2966 Mainframe Reference Manual A5 format Vol 6 of 7
34/102		1982-83	2957/2958/2966/2988 Mainframe Reference Manual - Document Register - Site Preparation - Installation Procedures for CAFS-ISP - 2966 System Description
34/103		1979-81	2960 DME/S4 Guide
34/104			2900 Series
	"	1978-81	2950/2956 DME/3: Operations RP3006
	"	1980	2960 DME/1900 Guide
34/105		1984	2966 Hardware Guide
34/106		1978-80	2905/2946/2950/2956 Processor Systems - Family Tree - Parts Lists - Drawings
34/107			2900 Series Oper 2 Machine Documentation - Configuration - Parts Lists - Drawings
34/108		1974-77	2960 Vol 1 Family Tree for P2L Processor Systems AVSD - (Authorised Variant System Description)

34/109	1978	2960 16K Mixed Store System - AVSD 3061 - Parts Lists - Drawings
34/110	1975-76	New Range Spares Lists in Index Order Vol 2 F1398/00 to TTW3R1/18
34/111		2900 Series
"	1979	TP 6319 - VME/B: Planning a Transaction Processing System
"	1978	TP 6725 - COBOL for 1900 Series COBOL Programmers
34/112		ALGOL
"	1980	RP0068 - VME/B-E: Developing ALGOL 68 Programs
"	1969-74	TP 4171 - 1900 Series: ALGOL: 32K Disc Compiler
34/113	1980	2900 Series IDMS TP 6924 - IDMS Part 2: Database Establishment (IDMS.200/IDMSX.200)
34/114	1983	VME 2900 (unbound) R00153/00 - IDMS Part 5: Database Design (IDMS.350/IDMSX.350)
34/115	1982-84	Marketing Bulletins System 25, ME29, 2900, CAFS, NPL
34/116	1979	TP2052 - Major Systems Communications
34/117	1983	DM1/Boston Pre-Launch Documents
34/118	1984	DM1/Boston Pre-Launch Documents
34/119	c1986	Series 39 Proposal for National Freight Consortium
34/120	1984	VME New Comms Introduction Notice
34/121	1985	Sales Development & Training Selling Series 39

		Presentation Slides and Notes
34/122	1983-84	Series 39 DM1/Boston Marketing Reviews
34/123	1984	DM1/Boston Communications Planning Strategy Issue 1 "Copy 0"
34/124	1984	DM1/Boston Communications Planning Strategy Issue 1
34/125	1984	DM1/Boston Communications Planning Strategy Issue 1
34/126	1984	"Operation MESSAGE" Interim Report
34/127	1979	TP3723 - 2960 DME/1900 Operations
34/128	1983	TP3787 - 2900 Series DME/2 and CME/2
34/129	c1980	Course Notes and Examples - System 4 to 2900 Conversion
34/130		EDS 40/80 Training Manual
34/131	1970	D3 Fixed Head Disc Store - FHD5 53321/01 Training Manual
34/132		2900 Series EDS 100 D & EDS 200 Exchangeable Disc Stores Machine Manual

35. Communications Equipment

35/1	1979	Communications Hardware Guide - Teletypewriters - 7180 Visual Display Equipment - 7500 Range - 7503 Modular Terminal Processor - 7500 Range - 7501 MTP - 7500 Range - Terminal Executive and Control Programs - 7700 Information Processing System - 7904, 7905, 7906 Communications Controllers - Modem and Ancillary Equipment
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35/2	1974	7502 Terminal Controller Action Manual - Vol 1 of 2
35/3	1974	7502 Terminal Controller Action Manual - Vol 2 of 2
35/4	1976	7181 V.D.U. Fault-Finding Guide
35/5	1981	Model 2385/3572 Video Unit Illustrated Parts Manual
35/6	1973-77	Training Handouts - D001: Data Communications Introduction - D002: 7020 Peripheral Control Terminal Introduction - D003: 7181/2 Remote V.D.U. Introduction
35/7	1982	KDS7362 Video Display Terminal (in plastic bag) (Kokusai Electric Co Ltd)
35/8	1977	TP 4297 - 7181 AVDU Operating
35/9		Model 3484, 3485, 7183, 3572, 3573 & 2385 Video Units (Utica Monitors) Illustrated Parts Manual
35/10		6402/11 Video Terminal Service Centre Guide
35/11	1971-72	7181/2 Remote VDU Machine Manual
35/12		Independent Study Course Mark III part 1 How to use the 7700 (includes 8" floppy discs)
35/13		Independent Study Course Mark III part 2 How to use the 7700 (includes audio cassettes)
35/14	c1977	Training Handouts D007: 7502 Systems Introduction
35/15	1977	DD016 Training Manual 7502 Engineer Operating - Module 1

35/16	c1980	Video Service Manuals & Specs - 2385 Local Terminal - 3572 Video Unit - 3573 Video Unit - 3484 Remote Video Terminal - 3485 Local Terminal
35/17	1974-76	Communications Equipment Product Specification Documents PSD 11.6.1 to PSD 24.14.1F
35/18	1979-80	54305/01 Communications Systems Controller Machine Manual Vol 1 of 9
35/19	1979-80	54305/01 Communications Systems Controller Machine Manual Vol 2 of 9
35/20	1979-80	54305/01 Communications Systems Controller Machine Manual Vol 3 of 9
35/21	1979-80	54305/01 Communications Systems Controller Machine Manual Vol 5 of 9
35/22	1979-80	54305/01 Communications Systems Controller Machine Manual Vol 6 of 9
35/23	1979-80	54305/01 Communications Systems Controller Machine Manual Vol 7 of 9
35/24	1979-80	54305/01 Communications Systems Controller Machine Manual Vol 8 of 9
35/25	1969	Study of Data Terminal Procedures & Interfaces Stage 1 Report
35/26	1969	Study of Data Terminal Procedures & Interfaces Stage 2 Report - Vol 1
35/27	1969	Study of Data Terminal Procedures & Interfaces Stage 2 Report - Vol 2

35/28	1980	TME Facilities Management Training Manual
35/29	c1970	7921/1 Scanner Logic Diagrams
35/30	c1973	7501/2 Terminal Engineering Documentation
35/31	1974	F1764 Console Video Coupler (used on 7503)
35/32	1969	Logic Diagrams: - 7020/1 and 7020/2 Peripheral Control Terminals - 7023/1 to 7023/4 Teletypewriters - 7024/1 Paper Tape Reader - 7025/1 Paper Tape Punch
35/33	1975	7561 Video Keystations
35/34	1976	TP2117 - 8959 Data Entry System Operations Manual
35/35	1969	Various Comms Equipment General Test Program Specs
35/36	1973	Various Comms Equipment Training Handouts and other technical notes
35/37	1977	7502 Range Student Notes
35/38	1969-72	7901 Communications Processor & Associated Equipment - Technical Descriptions - Installation & Maintenance Instructions - Engineers' Facilities - Drawings and Logic Diagrams
35/39	1980	7502 Various Engineering Documentation
35/40	1976-76	Communications Hardware Guide
"	1969	TP4189 - 7151 & 7153 Alphanumeric V.D.U. Operating
"	1972	TP4316 - 1900 Series Termiprinter

		Operating
	" 1972	TP4566 - System 4 Termiprinter Operating
35/41	1972	TP8274 - 7021/3, /4 & /5 Line Printers
35/42	1967	TP8333 - Type 7070 Telegraph Terminals
35/43	1971	TP8282 - 7010 Telephone Data Terminal
35/44		7500 Range 7502 Modular Terminal Processor
	" 1982	1. Product Marketing Technical Guide
	" 1979	2. Diagnostic Communications Manager
	" 1977-80	3. Communication Systems Support Notices 1 - 12
35/45		7900 Range
	" 1979	1. 7904 Installation Guide
	" 1979	2. 7904 Software Guide
	" 1979	3. TP 4891 7904 Operation
	" c1980	4. New Comms Introduction Notice
35/46		7900 Range
	" 1978	1. 7904/5/6 COS Dump Analysis Manual
	" 1976	2. 7905 Notices 1 - 18
35/47		7900 Range
	"	1. NAL Programming for the 7905
	" 1978	2. 7904 Network Configuring (on 1900)
35/48		7900 Range

	"	1981	1. 790x Sizing Guide
	"	1981	2. 790x Diagnostic Guide
	"	1981	3. 790x Release 30 Guide
35/49			Range-Independent Communications & Word Processors
	"	1980-83	Technical Sales Instructions
	"	1980-83	Communications Support Bulletins
35/50		1979-84	Technical Sales Instructions Procedures Miscellaneous Application Terminals Point of Sale Terminals Factory Terminals
35/51		1983-85	Customer Service Notices
	"	1982-83	Servicelink
35/52		1982	Communications Hardware Guide
35/53			7503 Systems Engineering
	"	1978	7503 S.E. Module 5
	"		DD027 Training Manual
35/54			7500 Terminal Range
	"	1976	Marketing Guide
35/55		1974	F1763 Teletypewriter Coupler (used on 7503) Machine Manual
35/56			Miscellaneous Communications Equipment Engineer's Notes
35/57		c1974	1. 7501 Modular Terminal Processor System Engineering Overview
	"	1975	2. 7502 Cluster Video Systems Training Course Material

35/58	1975-78	7501 Modular Terminal Processor Machine Manual
35/59	1974-76	7503 Modular Terminal Processor Machine Manual
35/60		Type 7900 System Programs
35/61		7903 Communications Processor
"	1971-74	1. Part 1 - Application Modules Logic Diagrams
"	1971-74	2. Part 2 - 7930 Scanners Logic Diagrams
35/62	1971-72	7903 Communication Systems Volume 1 - Module Technical Descriptions
35/63	1969-70	Type 7920 Scanner Machine Manual
35/64	Undated	7700 Series PIONEER - Personnel Information Online Enquiry & Reporting System
35/65	1979	7700 Information Processor Engineer's Handbook (With an introductory quotation from Samuel Johnson: "Wheresoe'er I turn my view All is change, yet nothing new Endless labour all along, Endless labour to be wrong; Phrase that time hath flung away, Uncouth words in disarray.")
35/66	1960	Teletype High Speed Tape Punch Set Technical Manual
35/67	1984	Merlin British Telecom Business Systems Handbook - Tonto personal information centre
35/68	1984	Merlin British Telecom Business Systems Handbook - Tonto personal information centre

35/69	1985	Business Communications with the Merlin Tonto Martin Gandoff
35/70	1985	Business Communications with the Merlin Tonto Stephen Morris
35/71	1967	ICT 7011,7012,7013 Datalink TP 4068
35/72	1965	ICT Data Communications 7000 Series Datalink TP 3344
35/73	1965	ICT Data Communications General Manual TP 3311 Part 1 - Theory and Practice

36. Singer - System 10 and System 25

36/1		System 10 Hardware
"	1979	1) Introduction to System 10 - Training Handout
"	1977	2) System 10 Hardware Guide
"	1977	3) System 10 Model 22 Processor - Reference Manual
"	1980	4) System 10 120 Series Processors - Reference Manual
36/2		System 10 Software
"	1976-79	1) System 10 Software Guide
"	1979	2) System 10 Industry 3 Reference TP7729
"	1980	3) System 10 Systar 2 Operating Instructions TP7621 (System 10 Accounting Routines)
36/3		System 10 Reference Manuals
"	1973	1) Model 21 Processor
"	1971	2) Model 50 Line Printer
"	1977	3) DMF II System Analysis Guide
"	1973	4) DMF II Message Manual

	"		5) Communications Datasheets
	"	1974	6) DMF II Repair II Program
	"	1972	7) Asynchronous Communications Adaptor (ACA)
	"	1970	8) Synchronous Communications Adaptor
	"	1973	9) Synchronous Communications Access Method - DIAL
36/4			Singer Parts Manuals
	"	1972	1) Model 522 Printer
	"	1974	2) Line Printers Models 53, 54, 55 & 56
	"	1980	3) Model 310/320 Processor and Printer Interface Kit
	"	1975	4) Model 2000/2001/2002 Printing Calculator
	"		5) Video Display Terminals
	"	1975	6) Model 100 Job Information Station
36/5		1980	1) System 10 Hardware Guide
	"	1980	2) System 10 Software Guide
	"	1977	3) System 10 Configuration Guide
36/6			System 10 Software
	"	1973	Synchronous Communications Access Method - Reference Manuals
	"		General Information
	"		Point-to-Point
	"		DIAL
	"		Asynchronous Communications Adapter (ACE)
	"		Asynchronous Terminal Adapter (NB:

		36/3 Adaptor; 36/6 Adapter)
36/7		System 10 Software
"	1978	1) System 10 DCS II Reference Manual TP7705
"	1978	2) System 10 DCS II Operating TP7706 ("DCS" = Data Collection System)
36/8	1973	RPG II Reference Manual
36/9	1974	System 10 Course Reference Manual Vol 1 - Hardware 1. Introduction to System 10 2. Model 21 Processor 3. Workstation 4. Visual Display Unit M80 5. Line Printers 51/S, 53, 54, 55, 56 6. Disc Drives 40, 42 7. Tape Drives M45
36/10	1974	System 10 Course Reference Manual Vol 2 - Assembler 1. Assembler 1 2. Assembler 2 3. Assembler Advanced Features
36/11	1974	System 10 Course Reference Manual Vol 3 - Programmer's Support Programs 1. Text Editor 2. Link Editor 3. Tester 21 4. Repair II 5. Secure 6. DMF Details
36/12	1974	System 10 Course Reference Manual Vol 4 - DMF (Disc Management Facility) 1. System Description 2. System Installation 3. Programmer's Reference 4. System Support Programs 5. DMF I - II Conversion 6. DMF II Sort 7. Messages

36/13		System 10 Software
"	1972	1) Sales Ledger System 1 - Reference Manual
"	1972	2) Sales Ledger System 1 - Operating
"	1972	3) Sales Ledger System 2 - Reference Manual
"	1972	4) Sales Ledger System 2 - Operating
36/14		System 10 Customer Engineering Field Service Manuals TP8095 - microfiches
36/15	1977-78	System 10 220 Series Processor - Site Manual Vol 1 of 1
36/16	Undated	System 25 Time and Attendance System
36/17	1984	System 25 RP 4048 Conversational System Manager
36/18	1982	System 25
"		1) Small System Support Notices
"		2) Marketing Bulletins
36/19	1981	System 25 System Event Guide
36/20	1982	System 25 Communications Access Manager - CAM-X25
36/21	1982	System 25 TP 40930 Inform 25
36/22	1981	System 25 Customer Services - Introductory Manual
36/23	1981	System 25

		"	1) Marketing Bulletins
		"	2) Hardware Guide
		"	3) DMFII Software Guide
		"	4) Sizing Guide
		"	5) Interactive Applications Support
		"	6) Competitive Guide
		"	7) Customer Services Introduction
36/24	1981		System 25
		"	1) Sizing Guide
		"	2) IAS Guide
		"	3) Support Guide
36/25			System 25
		"	1) Interactive Applications Support - Programming
		"	2) DMF III Utilities
		"	3) Inform 25 Reference
		"	4) Site Preparation & Product Data Sheets
36/26			System 25
		"	1) Small Systems Support Notices
		"	2) Small Systems Technical Sales Instructions
36/27	1972		COGAR System 4 Processor Programmer's Reference Manual
36/28	1972		SINGER Business Machines International Service Tools Catalog
36/29	1980		System 10 - Model 2385 Local Terminal

		Service Manual Volume 1
36/30	1980	1) System 10 - Model 2385 Local Terminal Service Manual Volume 1
"	1982	2) System 10 & System 25 - Model 3485 Local Terminal Service Manual Volume 1
36/31	1980	SINGER Business Machines/ICL Model 1511/1512 Magnetic Tape Unit Service Manual - Vol II
36/32	1980	SINGER Business Machines/ICL System 10 Model 310/320 Processor and Printer Interface Unit Service Manual - Vol II
36/33	1977	SINGER Business Machines/ICL Model 902/909/911 Point-of-Sale Data Terminal Service Manual - Vol II
36/34	1982	ICL Model 3484, 3485, 7183, 3572, 3573, 2385 Vido Units Service Manual - Vol II
36/35	1981	1) ICL Distributed Resource Systems - Model 10/40/50 Service Manual - Vol II - Preliminary Edition
"	1981	2) ICL Distributed Resource Systems - DRS 20 Service Manual - Vol II
36/36	1981	ICL 9500 Model 9515 Point-of-Sale Terminal Control Unit Service Manual - Vol II
36/37		ICL 9500
"	1980	1) Model 9500 Point-of-Sale Terminal Illustrated Parts List
"	1980	2) Model 9510/9512 Point-of-Sale

		Terminal Service Manual - Vol II
36/38	1984	ICL Distributed Resource System - DRS 20 Service Manual - Vol II
36/39	1972	SINGER, Friden Division Model 80 CRT Documentation Book
36/40		ICL 9500
"	1979	1) Model 9515 Point-of-Sale Terminal Control Unit Illustrated Parts Manual
"	1981	2) Model 9515 Point-of-Sale Terminal Control Unit Illustrated Parts Manual
"	1979	3) Model 9515 Point-of-Sale Terminal Control Unit Service Manual - Vol II
"	1981	4) Model 9515 Point-of-Sale Terminal Control Unit Service Manual - Vol II
36/41		ICL
"	1982	1) Model 3573 Video Unit Service Manual - Vol I
"	1982	2) Model 3573 Video Unit Operator Instructions
"	1981	3) Model 3572 Video Unit Service Manual - Vol I
"	1982	4) Model 3485 Local Terminal Service Manual - Vol I
"	1982	5) Video Units Model 3484, 3485, 7183, 3572, 3573, 2385 Service Manual - Vol II
36/42		ICL
"	1977	1) Model 1505 - 40 Series

		Intelligent Terminal Service Manual - Vol II
"	1981	2) ICL 9500 Model 9510/9512 Point-of-Sale Terminal Service Manual - Vol II
36/43	1977	ICL System 10 Model 22-1 Processor Service Manual - Vol II
36/44	c1978	ICL Model 9510/9512 Point-of-Sale Terminal Service Manual - Vol II (incomplete?)
36/45	1978	ICL System 10 DMF II - Programmer's Reference Booklet TP 7700
36/46		Wallet, containing:
"	1986	System 25 Series 400 Configuring Guide P1791
"	1986	System 25 Series 400 Systems Appreciation P1795
"	1987	System 25 Configuring Guide P2029
"	1986	System 25 Series 400 Sales Guide P1798

37. OEM Equipment

Equipment bought in from various other manufacturers, and associated with various ranges of ICL equipment. Where it is known the manufacturer's name is underlined.

37/1	1971	2200 Series Parts Manual TP-551RD Systems Flexowriters Systems Receivers Auxiliary Equipment
37/2	1979	1. 9500 Point-of-Sale Terminal F012 Terminal - Engineer's Training Handout

	"	1979	2. 9500 Point-of-Sale Terminal F012 Terminal - Engineer's Training Workbook
37/3		1978	1. 9500 POS Hardware Guide
	"	1980	2. 9515 POS Master/Slave System Guide
37/4		1978	POS Systems Guide
37/5		1979	9500 POS Workshop Manual
37/6		1985	Proposal to British Airports Authority for a Workstation Strategy
37/7		1976	MDTS Technical TIPS ("MDTS" = ex- Singer Modular Data Transaction System, later known as Point-of- Sale System)
37/8		1979	Key-Edit Series 2 Operations & Programming Course Manual
37/9		1979	<u>QUME</u> Printer Products Catalog
37/10		1978-79	ICL 7576 Matrix Printer Equipment Parts Identification Manual
37/11		1978	<u>OKIDATA</u> Model CP210 III Passbook Printer Service Manual
37/12		1978	<u>QUME</u> Printers Maintenance/Training Manual
37/13		1986	<u>RICOH</u> Document Quality Printers RP1300/RP1600 Catalogue of Parts (Small pocket book format)
37/14		1961	<u>FRIDEN</u> Type Styles
37/15		1969	<u>FRIDEN</u> 2200 Series Parts Manual

37/16	1972	<u>SINGER</u> Model 70 Workstation Service Manual
37/17	1974	<u>SINGER</u> Model 4331 Tab Card Reader Supplement to 4310, 4320 Series of Magnetic Data Recording Systems Service Manual
37/18	1980	1. <u>RACAL-MILGO</u> 24 LSI Mark II Modem Installation and Operation
"	1980	2. <u>RACAL-MILGO</u> 24 LSI Mark II Modem User's Guide
"	1979	3. <u>RACAL-VADIC</u> VA3173/P Modem Operation & Service Manual
"	1979	4. <u>RACAL-VADIC</u> VA1601U Chassis Configuration Guide
"	1981	5. <u>RACAL-VADIC</u> VA 811 Automatic Calling Unit Installation/Operation Manual
"	1981	6. <u>RACAL-VADIC</u> VA 2440, 45/P/S/G/X Modem Installation/Operation Manual
37/19		<u>FRIDEN</u>
"	1970	1. Integrated Circuit Handbook
"	1970	2. Boolean Algebra Handbook
37/20	1974	<u>SINGER</u> Model 2024 Data Modem Service Manual
37/21		<u>CONTROL DATA</u>
"	1977	1. Flexible Disc Drive
"	1981	2. Model 9406 2/3
"	1975	3. Disc Storage Unit (EDS 60)
37/22	1982	<u>CONTROL DATA</u> Mini Module Drive BZ9MSC/D, BZ9M7A/B, BZ9N1C/D, BZ9N5C/D

		Hardware Manual
37/23		<u>GENERAL INSTRUMENTS</u> (Systematics Division)
"	1974	1. 500 FR Belt-Driven Disc Memory System Installation & Operation Manual
"	1974	2. Disk Memory Operation & Maintenance
37/24	1970-72	<u>CENTURY DATA</u> Model 114 Disk Drive (used on Key-Edit) Technical Manual
37/25	1972	<u>SINGER</u> Data Transaction Terminal Service Manual
37/26	c1968	<u>CONTROL DATA</u> 9450 Disk Storage Drive Parts List & Maintenance Manual
37/27	1970	<u>CONTROL DATA</u> 9410/9420 Dual Disk Drives General Description, Operation, Installation, Checkout, & Maintenance Manual
37/28	1980	<u>CONTROL DATA</u> 9427H Cartridge Disk Drive Hardware Maintenance Manual
37/29	c1976	<u>DIGITAL DEVELOPMENT CORP.</u> Model 7613 Disk Memory Unit Hardware Manual
37/30		<u>CENTURY DATA SYSTEMS</u> Model 114 Disk Drive
"	1973	1. Parts Catalog
"	1969	2. Maintenance Manual
37/31	1982	DDO33 - Attachment of <u>CDC</u> Hawk FEDS to 7700 Word Processors - Training Manual
37/32		<u>QUME</u> Sprint 5 Series Printers
"	1977	1. Product/Interface Description

	"	1977	2. Maintenance/Training Manual
37/33		Undated	<u>EPSON</u> Impact Dot Matrix Printer Model 542 Technical Manual
37/34		1971	EDS 30 Various Training Documentation
37/35		1971	EDS 60 Various Training Documentation
37/36		1971	FDS 60 Various Training Documentation
37/37		1977	<u>DRICO</u> Series 3200 Cartridge Disc Drive Technical Manual
37/38		1970	<u>CONTROL DATA</u> 9450 Disk Storage Drive Technical Manual
37/39		1984	<u>RICOH</u> RP1300 Daisy Wheel Low Speed Document Quality Printer
37/40		1982	<u>OKIDATA</u> Printers AVSD 3119 ("AVSD" = Authorised Variant Structure Definition)
37/41			<u>CENTRONICS</u>
	"	1974	1. Series 100 Printers - Operator's Manual
	"	1976	2. Model 101 Printer - Technical Manual
	"	1976	3. Model 102AL Printer - Addendum to Technical Manual
	"	1977	4. 51 Series Printers - Operator Instructions
37/42			<u>CENTRONICS</u>
	"	1979	1. Series 6000 Printers - Operator's Manual
	"	1979	2. Series 6000 Printers - Technical Manual

37/43	c1980	ICL Band Printer and Microprocessor Controller 300 and 600 lines per minute models Parts Identification Manual
37/44	1977-83	ICL Band Printer (pre- Microprocessor) 300 and 600 lines per minute models Parts Identification Manual
37/45	1977-79	<u>DRICO</u> 7574/01 and /02 Low Speed Matrix Printer Machine Manual Training Manual
37/46		<u>CDC</u> 9317/9318 Matrix Printer 70/125 lines per minute
"	1977	1. Parts Identification Manual
"	1977	2. Interface to 7502 Processor Systems
37/47	1977	1. 7576 (PM70) Matrix Printer Training Manual
"	1981	2. <u>OKI</u> High Speed RS232-C/Current Loop Serial Interface Board Option for Microline 82A/83A Standard Dot-Impact Matrix Line Printer
37/48	1977	<u>DRICO</u> 7574/01 Low Speed Matrix Printer
37/49	1973	2430/A/1049 Train Printer Parts List (Machine Manual Vol 3)
37/50	1973	2430/2 and /3 Train Printer Parts List (Machine Manual Vol 3)
37/51	1983	RP1300 Correspondence Printer Service Reference/Service Centre Manual
37/52	1983	RP1600 Correspondence Printer Service Reference/Service Centre Manual

37/53	1978-80	PB1130 Band Line Printer (Pre-Microprocessor) Machine Manual
37/54	1978-80	300/600 1 pm Band Line Printer (With Microprocessor) Parts List
37/55	1980-83	1. PBS 360/720 300/600 1 pm Band Line Printer (With Microprocessor) Parts List
"	1980-83	2. PBS 1130 900 1 pm Band Line Printer (With Microprocessor) Parts List
37/56	1984-85	PBS 360/720 Band Line Printer (With Microprocessor) Parts List
37/57	1980	1. PB 900 Band Line Printer (With Microprocessor) Parts List
"	1979-80	2. PB and PBS Printers Field Service Manual
37/58	1978	ICL 51D/1551D Printers Technical Manual
37/59		<u>QUME</u> Sprint 5 Series Printers (= ICL 7575)
"	1978	1. Operator's Manual
"	1978	2. Maintenance Manual
37/60		<u>QUME</u> Sprint 5 Series Printers
"	1978	1. Purchase Spec
"	1978	2. Product Manual
37/61	1981-85	<u>CENTRONICS</u> E-Series 900 1 pm and 1200 1 pm Band Printers
"		1. Operator's Manual
"		2. Parts List
"		3. Maintenance Manual

	"	4. Technical Manual
	"	5. Customer Engineering Manual
37/62	1984	<u>RICOH</u> 1200N AVSD, Parts List, etc 1500Q AVSD, Parts List, etc 1600Q AVSD, Installation and Operation Manual
37/63	1983	6204 Printer Service Reference Manual
37/64	c1980	PBS Printers - Electronics documentation 1. Controller/Interface Boards 2. Common Printed Circuit Boards
37/65	1974	<u>LOGABAX</u> Printers Recommended Spares Holding Parts Manual
37/66	1977	<u>DRICO</u> Matrix Printer Model 6320 Technical Manual
37/66a	1977	<u>DRICO</u> Matrix Printer Model 6320 Technical Manual
37/67	1978-79	<u>DRICO</u> Matrix Printer Model 6320 (aka 1527 Printer, 7574 Printer) Service Manual
37/68	1975	<u>DRICO</u> Matrix Printer Model 6330 Service Manual
37/69	1979	<u>QUME</u> Sprint 5 Series Printers Operator's Manual
37/70	1978	<u>QUME</u> Sprint 5 Series Printers Preliminary Maintenance/Training Manual
37/71	1977-79	<u>DRICO</u> 7574/01 and /02 (aka B205) Low Speed Matrix Printer Machine Manual Vol II
37/72	Undated	<u>LOGABAX</u> LX100 Parts Manual
37/73	Undated	<u>LOGABAX</u> LX113 and LX213 Illustrated Parts List

37/74		Printer Information
"	c1973	1. <u>Data Products Corporation</u> - Printer Technology and its future
"	1978	2. PBS Line Printers LP360/72
"	1976	3. ICL Servo Line Printer
"	c1972	4. PF 361 300/600 1 pm Buffered Line Printer
37/75	1980-81	1. PBS Line Printer B203-00 Hardware Reference/Maintenance Manual
"	1982	2. Printer Types B210 Installation/Configuration of ML82A and ML83A
"	1982	3. Printer Types B210 Installation/Configuration of ML82A and ML83A
"	Undated	4. <u>RICOH</u> RP1300 Document Quality Printer Installation and Operation Manual
"	Undated	5. <u>RICOH</u> RP1300 Document Quality Printer Installation and Operation Manual
"	Undated	6. <u>RICOH</u> RP1600 Printer Installation and Operation Manual
"	Undated	7. <u>RICOH</u> RP1600 Printer Installation and Operation Manual
"	1980	8. <u>LOGABAX</u> Printers User Manual
37/76	1977	1. ICL Matrix Printer Serial Interface Reference Manual and Parts List
"	1977	2. ICL matrix Printer Equipment Field Service and Reference Manual
37/77	1979-80	ICL Band Printer Equipment (without Interface) Parts Identification Manual

37/78	1983	1. <u>RICOH</u> RP1600 Document Quality Printer (RS 232-C) Installation and Operation Manual
"	1983	2. <u>RICOH</u> RP1300 (aka ICL 7112 (DRS 8801) and ICL 6202 (ICL PC & DRS 20)) Field Service Planning Information
"	1983	3. <u>RICOH</u> RP1600 (aka ICL 7111 (DRS 8801) and ICL 6202 (ICL PC & PERQ)) Field Service Planning Information
"	1982	4. <u>RICOH</u> RP1600 FLOWRITER User Guide
37/79	1980	<u>LOGABAX</u> LX100/200 Matrix Printers (aka ICL 2366, 3542, 7428, and 7577) Machine Manual
37/80	Undated	1. <u>OKI</u> Microline 80 Matrix Printer and RS232-C Serial Interface Adapter Maintenance Manual
"	Undated	2. <u>OKI</u> Microline 80 Standard Dot-Impact Matrix Line Printer Functional Specifications
37/81	Undated	<u>DRICO</u> 6320 Matrix Printer Illustrated Parts List
37/82	1985	1. <u>OKI</u> Microline 192 and 193 User's Manual
"	1985	2. <u>OKI</u> Microline 82A Dot Matrix Printer User and Maintenance Manuals
"	1985	3. <u>OKI</u> Microline 83A User Manual
"	1985	4. <u>OKI</u> Microline 84 User Manual
37/83	1972-73	Termiprinter Machine Manual
37/84		1. <u>CENTRONICS</u> Model 6085 Printer Technical Manual
"	1984	2. <u>CENTRONICS</u> Model 35T Printer

		User Manual
"	1984	3. <u>CENTRONICS</u> Model 35T Printer Technical Manual
"	1983	4. <u>CENTRONICS</u> Model 352 Printer Operator, Installation and Programming Instructions
"	1982	5. <u>CENTRONICS</u> Model 352 Printer Technical Manual
37/85	1974	Termiprinter Models 7083, 7084, 7085 and 7086 Training Manuals
37/86	1972-74	Termiprinter Model 7081/4 Operating Instructions Servicing Procedures Technical Description
37/87	1984	1. ICL Band Printer Equipment CP1 360/720 Pre-Microprocessor B202/3 Parts Identification Manual
"	c1984	2. ICL Band Printer Equipment B206/7 for System 10 and System 25 Parts Identification Manual
37/88	1983	ICL Band Printer Equipment Parts Identification Manual
37/89		<u>Consolidated Computer</u>
"	1980	1. KeyEdit Data Terminal Operations Manual
"	1980	2. KeyEdit UPL+ Programming Reference Manual
37/90	1972	<u>Consolidated Computer</u> KeyEdit Technical Manual Series 100/100 Mk V Series 100/85 Mk 1
37/91	1972	<u>Consolidated Computer</u> KeyEdit Series 100 Engineering Data Reference Manual
37/92	1967	<u>Bell Systems</u> Modem Specifications

37/93	Undated	<u>Consolidated Computer</u> SL2 System Maintenance Manual
37/94	1968	<u>CONTROL DATA</u> 9442-K Disk Storage Drive
37/95	1981	Customer Engineering Manual <u>CONTROL DATA</u> 9427H Cartridge Disk Drive Hardware Maintenance Manual
37/96	1978	<u>DRICO</u> Model 42 FEDS (Fixed and Exchangeable Disc Store) Technical Manual Docref 43 Issue B
37/97	1978	<u>DRICO</u> Model 42 FEDS (Fixed and Exchangeable Disc Store) Technical Manual Docref 43 Issue C
37/98	1973	<u>DRICO</u> Exchangeable Disc Drive Series 4000 Technical Manual Docref 4000/Issue A
37/99	1973	<u>DRICO</u> Exchangeable Disc Drive Series 4000, variant 258-99xx Technical Manual Docref 4099/issue A
37/100	1973	<u>DRICO</u> Exchangeable Disc Drive Series 4000, variant 258-99xx Technical Manual Docref 4099/issue E
37/101	1973	<u>DRICO</u> Exchangeable Disc Drive Series 4000, variant 258-99xx Technical Manual Docref 4099/issue L
37/102	1973	<u>DRICO</u> Exchangeable Disc Drive Series 4000, variant 258-99xx Technical Manual Docref 4099/issue M
37/103	1972	<u>DRICO</u> Exchangeable Disc Store Type 3371 Technical Manual
37/104	1979	<u>DRICO</u> Fixed and Exchangeable Disc Drive 3206/3212 User Handbook

37/105		<u>CONTROL DATA</u>
"	1973	1. 9574 Disk Storage Unit Customer Engineering Manual
"	1974	2. BR3B4 Disk Storage Unit Maintenance Manual
"	1974	3. BR3B4 Disk Storage Unit Parts List
37/106		<u>CONTROL DATA</u>
"	1971-72	1. Disk Storage Unit Maintenance Aids
"		2. 1972-79 Disk Storage Unit BR2A7, BR2A8, BR2B4, BR2B5 Hardware Maintenance Manual
37/107	1978	<u>CONTROL DATA</u> Disk Storage Unit BR3C5 Hardware Reference Manual
37/108	1980	<u>CDC</u> Fixed Module Drive BZ7E3 Hardware Maintenance Manual, Vol 1 of 2
37/109	1980-81	<u>CDC</u> Mini Module Drive
"		1. Hardware Reference Manual
"		2. Hardware Maintenance Manual
37/110	1968	<u>CONTROL DATA</u> 9410/9420 Dual Disk Drives Customer Engineering Manual
37/111		<u>CONTROL DATA</u>
"	1966	1. 9433 Disk Storage Unit Parts List
"	1978-81	2. 9406-2/3 Flexible Disk Drive Hardware Maintenance Manual
"	1969-70	3. 9450 Disk Storage Drive Customer Engineering Manual
"	1977-80	4. Storage Module Drive BK5A7- E,F; BK5A8-C,D BK5A9-E,F; BK5B1- C,D

		Hardware Maintenance Manual Vol 1 of 2
"	1977-80	5. Storage Module Drive BK5A7- E,F; BK5A8-C,D BK5A9-E,F; BK5B1- C,D Hardware Maintenance Manual Vol 2 of 2
37/112		<u>PERICOM</u> 6800 Microprocessor-Based Visual Display Unit (= ICL Type 2387/1) Letchworth Development Centre Quality Control Test Procedure
37/113		ICL Type 2504 and 2505 Magnetic Tape Systems Logic Diagrams
37/114		<u>CONTROL DATA</u> Fixed Module Drive BZ7E3 (= ICL FDS640)
"	1980	1. Hardware Maintenance Manual Vol 1 of 2
"	1980	2. Hardware Maintenance Manual Vol 2 of 2
37/115	1981	<u>VERSATEC</u> V-80 Electrostatic Printer/Plotter Service Manual
37/116	1984	<u>FUJITSU</u> M243XL Magnetic Tape Unit Maintenance Manual
37/117	1976	1. ICL 2508-9 Magnetic Tape Training Handout
"	1977	2. ICL Magnetic Tape System MT320 (52041/01 and 52041/02) Training Workbook
37/118	1973	<u>CIPHER DATA PRODUCTS</u> Model 100X Magnetic Tape Recorder Operation and Maintenance Manual
37/119	1977-80	<u>CONTROL DATA</u> EDS 80 Exchangeable Disk Store (= ICL 53118 Disc Drive Unit) Machine Manual

37/120	1982	<u>CONTROL DATA</u> FDS 640 Training Handout
37/121	Undated	<u>SHUGART</u> SA850/851 Diskette Storage Drives (used with PERQ ?)
"		1. OEM Manual
"		2. Service Manual
37/122	1964	<u>UNIVAC</u> 1004 Data Processer Manual - Vol 1 TP 3149
37/123		ICL 424 Interpreter
37/124	c1969	<u>UNIVAC</u> Type 1710 Verifying Interpreting Punch Servicing Documents
37/125	1974	ICL 2807 and 2808 Dual Exchangeable Disc Stores TP 8269 Maintenance Manual
37/126	1975	ICL 2812 Exchangeable Disc Store TP 8390 Maintenance Manual
37/127	1970	ICL 2504 and 2505 Magnetic Tape Systems TP 8339 Maintenance Manual
37/128	1971	ICL 2601-2 Paper Tape Reader-Punches TP 8287 Maintenance Manual
37/129	c1969	<u>FACIT</u> 4060, 4061 & 4063 Paper Tape Punch Units 5104 Control Unit
37/130	1973	<u>DATA Products</u> Line Printer Models 2420, 2440, 2470 Technical Manual Vol II

37/131	1965	<u>Compagnie Des Compteurs</u> Digital Tape Handler - PEN 5 Instruction and Maintenance Manual
37/132	1979	<u>Cipher Data Products</u> Model 100x Dual-Mode Magnetic Tape Transport Installation, Operation and Maintenance Manual
37/133	1978	<u>Cipher Data Products</u> Model CFP-49A Phase-Encoded Formatter Installation, Operation and Maintenance Manual
37/134	1963	<u>AMPEX</u> TM-2 Tape Transport Technical Manual
37/134a		<u>AMPEX</u> TM-2 Tape Transport Instruction Manual
37/135	1966	<u>AMPEX</u> TM-4 Tape Transport Technical Manual
37/136	Undated	<u>CALCOMP</u> Model 566 Plotter (= ICT Type 1934) Maintenance sections of Technical Manual
37/137	1976	Type 2510 Magnetic Tape Transport and Controller Drawings and Parts Lists (labelled Vol 3 of 3)
37/138	1977	Type 2510 Magnetic Tape Transport and Controller Drawings and Parts Lists (labelled Vol 3 of 3)
37/139	1979	Type 2511 Magnetic Tape Transport Drawings and Parts Lists (labelled Vol 3 of 3)
37/140	1969	<u>Control Data</u>
"		1) 1744 Digigraphic Controller

		Reference/Customer Engineering Manual
	"	2) 274 Digigraphic Console Reference/Customer Engineering Manual
37/141	1974	1916/9 Paper Tape Reader Mechanism TP 8317/9 Maintenance Manual
37/142	1968	Medium Speed Tape Reader Type TRM 250, models 1, 2, 5 and 6 Technical Manual
37/143	1968	High Speed Tape Dispenser Type TDU 1000 (including TDU 300) Technical Manual
37/144	1968	High Speed Tape Reader Type TRM 500, models 2 and 3; Type TRM 1000, models 2, 4 & 5 Technical Manual
37/145	c1975	<u>HONEYWELL</u> System 700 Brochure Wallet, containing: <ul style="list-style-type: none"> - Real-Time Interface Mk II - Batch Operating System (BOS) - Coral 66 Compiler - Real-Time Operating System (OP-16) - 725-G and 725-M General Purpose Systems - System 700 - Minisystems for Communications & Control - The Honeywell Information System - The Problem Solvers

38. Early Computers

38/1	1962	<u>EMI</u> Emidec 1100 Computer 4k Store Instruction Manual
38/2	1960	<u>EMI</u> Emidec 1100 Computer Instruction Manual Vols 1 and 2
38/3	1960	<u>EMI</u> Emidec 1100 Computer Instruction Manual Vol 3
38/4	1960	<u>EMI</u> Emidec 1100 Computer Instruction Manual Vol 4

38/5	1960	<u>EMI</u> Emidec 1100 Computer Instruction Manual Vol 5
38/6	1960	<u>EMI</u> Emidec 1100 Computer Instruction Manual Vol 6
38/7	1961	<u>EMI</u> Emidec 2400 Computer Data Processing System
38/8	1959	<u>EMI</u> Emidec 2400 Computer Logic Diagrams
"	1959-61	<u>EMI</u> 1100 and 2400 Computers Outline Specifications Brochures EMI Computer News
38/9	1961	<u>AEI</u> 1010 Data Processing System Programming Course
38/10	1958	<u>BTM</u> Type 1400 Data Processing System Outline Specifications and Order Code
38/11	1958	<u>BTM</u> Type 1400 Data Processing System Field Engineering Manual (Draft) Publication 1 Sections A, B, D and E
38/12	1958	<u>BTM</u> Type 1400 Data Processing System Field Engineering Manual (Draft) Publication 1 Section C
38/13	1958	<u>BTM</u> Type 1400 Data Processing System Field Engineering Manual (Draft) Publication 1 Sections F, G, and H Field Engineering Manual (Draft) Publication 2 Section A
38/14	1958	<u>BTM</u> Type 1400 Data Processing System Field Engineering Manual (Draft) Publication 3 Field Engineering Manual (Draft) Publication 4 Field Engineering Manual (Draft) Publication 5

38/15	1956	<u>Powers Samas</u> The Programme Controlled Computer 65 & 80 column Technical Description Book 1 Input and Output Unit
38/16	1956	<u>Powers Samas</u> The Programme Controlled Computer Servicing Manual Vol II
38/17	1962	<u>ICT</u> Type 1301 Computer Field Engineering Manual Vol I
38/18	1962	<u>ICT</u> Type 1301 Computer Field Engineering Manual Vol IA
38/19	1962	<u>ICT</u> Type 1301 Computer Field Engineering Manual Vol II
38/20	1962	<u>ICT</u> Type 1301 Computer Magnetic Tapes Types 1 and 3 Logic Diagrams
38/21	1960	<u>Computer Developments Ltd</u> P3 (= Type 1301 Computer) Technical Description Parts 1, 2, 3 and 4
38/22	1960	<u>Computer Developments Ltd</u> P3 (= Type 1301 Computer) Technical Description Parts 5 and 6 Technical Description Mag Tape System Type 1
38/23	1963	<u>ICT</u> Type 1301 Computer Overall Logic Diagrams
"	1962	1301 Tape Type 1 Logic Diagrams 1301 Tape Type 2 Logic Diagrams 1301 Tape Type 3 Logic Diagrams
38/24	Undated	<u>ICT</u> List of 1300/1301 Customers
"	Undated	<u>CDL</u> Type P3 (1301) Computer Technical Specification Part 1
"	Undated	<u>CDL</u> Type P3 (1301) Computer Technical Specification Part 2
"	Undated	<u>ICT</u> Type 1302 Computer Technical Specification -

Differences from 1301

- " Undated ICT Type 1302 Computer Logic Diagram - Peripheral Control Unit/1
- " Undated ICT Type 1302 Computer Logic Diagram - Peripheral Control Unit/2
- " 1963 ICT Type 4 Mag Tape for the 1301 Computer Technical Notes
- " 1963 ICT Type 4 Magnetic Tape System Project Specification
- " 1963 ICT Type 4 Magnetic Tape System Technical Specification

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Boxfile containing:

- " 1948-55 1) EDSAC 5 papers
- " 1949-53 2) ACE 7 papers & logic diagrams
- " 1953 3) RASCAL 3 papers
- " 1953 4) MOSAIC 1 paper, Ministry of Supply
- " 1956 5) BESM 1 paper, USSR Academy of Sciences
- " 1957 6) METROVICK 950 1 paper
- " 1952 7) CSIRO 2 papers, Commonwealth Scientific & Industrial Research Organisation, Australia
- " 1953 8) The Harwell Computer 1 paper

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Boxfile containing:

- " 1) NV Electronica X1 brochure
- " 1962 2) Telefunken TR4 course documentation brochure
- " 3) PERM (Munich) brochure
- " 4) OLIVETTI 6001 Scientific

Computer - brochure
Note on company size and
production statistics brochure for
Electronic Computer Exhibition,
London, 1958
9003 Computer brochure 1, brochure
2, brochure 3

" 5) SIEMENS 2002 Course
documentation and general
description

" 6) De La Rue BULL 300 Series
demonstration brochure
Gamma 60 brochure; Gamma 10
brochure
300 Series general description
M40 overview

" 7) ZUSE Z31 & Z23, Z64, Z70, Z80
brochures
Z23 general description

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Box file of English Electric
papers, containing:

" 1) KDF9 ALGOL programming

" 2) KDF9 user code digest

" 3) KDF8/KDP10 paper tape code

" 4) KDF9 general description
brochure (1st & 2nd editions)
specimen output from high speed
electro-mechanical printer

" 5) KDN2 general description
brochure

" 6) KDP10 Technical Training Manual
- Vol I - Basic

" 7) KDP10 brochure 1

" 8) KDP10 brochure 2

" 9) EE presentation on KDF9 & KDP10
to British Computer Society

" 10) EE presentation on KDF9 to

Cambridge Mathematical Laboratory

- " 11) KDF9 general description
- " 12) ICT Special Products Line
Printer for DEUCE, 1962
- " 13) EE Newsletter, Nov 1962 -
DEUCE forecasts the election
results
- " 14) EE DEUCE reference card
- " 15) EE DEUCE Circuit Manual - Part
VIII - input card reader and
output card punch
- " 16) EE DEUCE Programming Manual
- 38/28 Boxfile containing:
EE KDF9 Reports, 1960-1966 Box 1
of 2
- 38/29 Boxfile containing:
EE KDF9 Reports, 1960-1966 Box 2
of 2
- 38/30 1968 EE SYSTEM 4
Product Planning Specifications
- 38/31 1967-68 EE SYSTEM 4
Hardware Guide
1) main
2) small systems
- 38/32 1967-69 EE SYSTEM 4
Hardware Guide
- 38/33 1968 EE SYSTEM 4
Installation Planning Guide
- 38/34 1964 EE LEO
Field Engineering Manual for
LECTOR
- 38/35 1976 ICL SYSTEM 4
Engineer's Handbook
- 38/36 1965 EE LEO
The Olivetti Tape Reader

38/37	1969	<u>BURROUGHS</u> B6500 Information Processing System Reference Manual
38/38	1970	<u>BURROUGHS</u> B6700 Master Control Program Information Manual
38/39	1962	<u>ICT</u> Type 558 Computer Programming Manual
38/40	1964	<u>EE LEO</u> KDF9 ALGOL Programming
38/41	1967	<u>ICT</u> Basic Language Machine Outline of Applied Basic Language
38/42		Box file containing FERRANTI papers:
"	1958	1) PERSEUS Questions & Answers SIRIUS extract from brochure
"	1964	2) ICT SIRIUS - Report for Royal Naval Engineering College NIMROD Digital Computer - booklet
"	1955	3) A Description of the Ferranti PEGASUS Ferranti PEGASUS Data Processing System - brochure
"	1956	4) An Introduction to the Ferranti PEGASUS Computer
"	1959	5) Ferranti PEGASUS - An example of an Automated Programme for Sales Analysis & Forecasting
"	1963	6) Ferranti Computer World newsletter - Special issue demonstration of automatic typesetting by computer
"	1962	7) PEGASUS 2 Direct Data Processing System contents list of Vols I and II
"		8) Multiple Character-at-a-time Input/Output for PEGASUS 2

	"		9) Information on PEGASUS 2
	"	1961	10) PEGASUS Magnetic Tape System
	"	1960	11) PEGASUS 2 Conversion Instructions
	"	1958	12) PERSEUS Data Processing System - brochure
	"	1961	13) An Introduction to the Ferranti SIRIUS Computer - brochure
	"	1961	14) The advantages of the Ferranti SIRIUS Computer - brochure
	"	1959	15) Ferranti SIRIUS Questions and Answers
	"	1959	16) Ferranti SIRIUS The Field of Application
	"	1961	17) Ferranti SIRIUS The SIRIUS Autocode
	"	1960	18) Ferranti SIRIUS Elementary Programming Exercises
	"	1960	19) Ferranti SIRIUS Programming Manual
	"	1961	20) Ferranti SIRIUS Description of the Autocode
	"	1963	21) Ferranti SIRIUS Extension of the Autocode
	"	1963	22) Ferranti SIRIUS Non-Standard Autocode Subroutines
	"	1958	23) A Description of the Ferranti MERCURY Computer
	"	1961	24) MERCURY Autocode Manual
38/43		1958	Ferranti PERSEUS Computer Programming Manual
38/44		1963	<u>FERRANTI-PACKARD</u> FP6000 Programming Manual

38/45	1961	Ferranti MERCURY Autocode Manual (2nd Edition)
38/46	1961	<u>ICT</u> ATLAS 1 Computer Programming Manual for ATLAS Basic Language (ABL)
38/47	1962	The PEGASUS Programming Manual by G.E. Felton
38/48	c1963	<u>Ferranti</u> 'N'-Type packages Instructional Manual Vol 1 - Introduction and Sections A - K
38/49	c1963	<u>Ferranti</u> 'N'-Type packages Instructional Manual Vol 2 - Section Z
38/50	c1963	<u>Ferranti</u> 'N'-Type packages Instructional Manual Vol 3 - Section Z, continued
38/51	1963	<u>Ferranti</u> 'N'-Type Package Tester (Mk II) Technical Manual
<p>NB: The binders for these [next] 4 volumes [38/52, 38/53, 38/54, 38/55] are all printed "VOL 1"</p>		
38/52	c1963	<u>Ferranti</u> 'N'-Type packages Technical Manual Vol 1
38/53	c1963	<u>Ferranti</u> 'N'-Type packages Technical Manual Vol 2
38/54	c1963	<u>Ferranti</u> 'N'-Type packages Technical Manual Vol 3
38/55	c1963	<u>Ferranti</u> 'N'-Type packages Technical Manual Vol 4
38/56	1962	<u>Ferranti</u> Orion Test Programs Manual Vol 1
38/57	1962-63	<u>Ferranti</u> Orion Test Programs Manual Vol 2
38/58	Undated	<u>Ferranti</u> Orion Handwritten technical design charts of Orion Arithmetic Registers and Instruction Logic

Flow

38/59	1970	<u>ICT</u> MU 5 University of Manchester, Department of Computer Science New Machine Manual, Parts 1, 2, and 3 (Folder is misleadingly printed "Atlas 2 Test Programs Description")
38/60	1962-66	Box file of <u>Ferranti/ICT</u> papers, containing:
"		1) The Atlas Drum System, provisional description
"		2) The Atlas Core Store & Working Store, provisional description
"		3) The Atlas 1 Computer System Operator's Manual Part 1 - Central Machine and Supervisor
"		4) The Atlas 1 Computer System Operator's Manual Part 2 - Peripheral Equipment
"		5) Features and Facilities of Atlas Basic Language - ABL for the Atlas 1 System
"		6) Preparing a Complete Program for Atlas 1
"		7) The Atlas Supervisor, by T. Kilburn, R. B. Payne, and D. J. Howarth (reprinted from "Computers - Key to Total Systems Control")
"		8) Printout from Atlas at Manchester University, 28.3.67 at 19.18 hrs
"		9) Atlas Computer - small brochure (No 1 in a series of Computer System Profiles)
38/61		Box file of <u>Ferranti/ICT</u> papers, containing:

- " 1967 1) An Appraisal of the Atlas
Supervisor D. Morris, F.H. Sumner,
and M.T. Wyld
- " 1963 2) Atlas 1
Customer's Installation
Responsibilities
- " 1965 3) ICT
Atlas General Survey Program
- " 1962 4) Ferranti Atlas
Sales brochure
- " 62 5) 19Atlas - Technical description
6 typewritten foolscap sheets
- " 1962 6) The Atlas Scheduling System
D.J. Howarth, P.D. Jones, and M.T.
Wyld (reprinted from "The Computer
Journal")
- " 1962 7) One-Level Storage System T.
Kilburn, D.B.G. Edwards, M.J.
Lanigan and F.H. Sumner (reprinted
from "IRE Transactions on
Electronic Computers")
- " 1963 8) ICT The Ferranti Atlas 2
Computer System
A supplement to the report for
CERN
- " 1964 9) ICT 1900 Series
The ICT 1900 as an Atlas satellite
- " 1963 10) Ferranti Atlas 2
Sales brochure
- " 1968 11) The Cambridge Multiple-Access
System User's Reference Manual ed.
D.F. Hartley
- " 1965 12) UKAEA and ICT
Contract for Supply, installation
and commissioning of Atlas 2
- " 1974 13) Computer Aided Design Centre
Report on Computer-Aided Design
J.S.W. Chilvers and B. Gott

	"	Undated	14) STAR Computer Network brochure
	"	1971	15) The Computer Aided Design Centre, Cambridge brochure
	"	1974	16) <u>DTI</u> - Computer Aided Design for Industry booklet, covering techniques and specimen applications
	"	1969	17) University Mathematical Laboratory, Cambridge TITAN Machine-Code Programming Manual
	"		18) ATLAS 2 at Cambridge Correspondence 1966-67 Acceptance Trials 1968-69
38/62			1958 Orion - Neuron Packages, Circuits
38/63			Box file of Ferranti papers, containing:
	"	1965	1) <u>ICT</u> Ampex Magnetic Tape System as supplied to the Atlas/Orion computer
	"	1962	2) Ferranti High Speed Tape Reader Type TR5 Technical Manual
	"	1962	3) Ferranti Punched Tape Codes
	"	1961	4) Ferranti Orion and Atlas computers Punched Tape Codes - Programmer's Reference Card
	"	1962	5) Ferranti Orion Summarized Programming Info - Programmer's Reference Card
	"	1961	6) Choosing a Character Code for Computers and Punched Tape H. McG. Ross (reprinted from "The Computer Journal")
	"	1961	7) The Ferranti Orion Computer System Provisional Description - 5th

		edition
"	1961	8) Ferranti Orion Computer Programming Exercises (Basic and Symbolic Input)
"	Undated	9) <u>ICT</u> 16k Program Printout (Orion)
"	1965	10) <u>ICT</u> Programming for Orion in Basic Input Language
"	1963	11) <u>ICT</u> A Primer of Fortran Programming for use on Atlas and Orion Computers
"	1966	12) <u>ICT</u> Preparing a Complete Program for Atlas 1
38/64		Orion Various circuit diagrams
38/65	1967	Atlas - Orion Group MD5/Bryant Drum Test Equipment - Technical Description
38/66	Undated	Orion Performance Tests Running Instructions
38/67	Undated	Orion Monitor Programme - OMP
38/68	1963	Orion Programming Manual (Provisional)
38/69		Box file of Ferranti papers, containing:
"	1965	1) Ferranti Silicon Micronor II Circuits
"		2) Orion Training Course Adrian Jenkyns' Personal Notebook
"		3) The Widening Influence of Numerical Control on the Manufacturing Process, by I.T.B. Blackie
"	1961	4) A Review of Ferranti Activities
"	1961	5) Ferranti Orion - The Magnetic

Tape System

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| " | Undated | 6) Ferranti Orion - The Tape Transfer System |
| " | 1959 | 7) Ferranti N Type Packages |
| " | 1956 | 8) Ferranti - various sales brochures |
| " | | 9) Ferranti - various brochures in the Computer Profiles series |
| 38/70 | | Box file of miscellaneous papers, containing: |
| " | 1967 | 1) Control Data Corporation - Annual Report 1967 |
| " | 1949 | 2) The Bell Computer, Model VI, by E.G. Andrews (photocopy of reprint from "Electrical Engineering") |
| " | 1948 | 3) Preparation of Problems for EDVAC-Type Machines by J.W. Mauchly, from Harvard Annals of Symposium on Large Scale Computing Machines |
| " | 1982 | 4) Reviewing Europe's Top 25, from Datamation International Edition |
| " | 1970 | 5) Also Sprach Von Neumann, from Datamation |
| " | 1960 | 6) Considerations in Choosing a Character Code for Computers and Punched Tapes, by H. McG. Ross (reprint from The Computer Journal) |
| " | 1956 | 7) Speeches at the opening of the Research and Development Laboratories of Solartron Electronic Group Ltd |
| " | 1983 | 8) Europe's Leading Lights, from Datamation |
| " | 1980 | 9) Her Majesty's Government and the UK Information Technology Industry - a Policy for Government Promotion of the Industry |

- " 1953 10) The T.R.E. High-Speed Digital Computer, by R.H.A. Carter
- " 1947 11) General Considerations in the Design of an All-Purpose Electronic Digital Computer, by Andrew D. Booth and Kathleen H.V. Britten
- " 1950 12) Design for D.E.C. - Part I - Logical, by Andrew D. Booth ("D.E.C." = Desk Electronic Computer)
- " 1950 13) Design for D.E.C. - Part 2 - Physical, by Andrew D. Booth
- " 1953 14) Serial Digital Adders for a variable radix of notation by R. Townsend, British Tabulating Machine Co.
- " Undated 15) Counter and Coincidence Senser M.2 (7), by A.D. Booth (with handwritten notes saying that Booth's MAC is equivalent to Pegasus in performance and storage)
- " 1951 16) The Position Synchronisation of a Rotating Drum, by F.C. Williams and J.C. West (page 1 of photocopy from Proceedings of IEE)
- " 1947-48 17) Principles and Progress in the Construction of High-Speed Digital Computers, by Andrew D. Booth and Kathleen H.V. Britten (from Quart. Journ. Mech. and Applied Math.)
- " 1957 18) Logical Design of a Computer for Business Use, by R.J. Froggatt
- " 1957 19) The Design of the Control Unit of an Electronic Digital Computer, by M.V. Wilkes, W. Renwick, and D.J. Wheeler
- " 1950 20) Universal High-Speed Digital Computers: A Small-Scale Experimental Machine , by F.C.

- Williams, T. Kilburn, and G.C. Tootill (photocopy of reprint from Proceedings of the IEE)
- " 1952 21) Universal High-Speed Digital Computers - A Magnetic Store, by F.C. Williams, T. Kilburn, and G.E. Thomas and Universal High-Speed Digital Computers - Serial Computing Circuits by F.C. Williams, A.A. Robinson, and T. Kilburn (reprint from Proceedings of the IEE)
- " 1978 22) The Early Days of British Computers - 1, by S.H. Lavington from Electronics and Power
- " 1979 23) The Early Days of British Computers - 2, by S.H. Lavington from Electronics and Power
- " 1953 24) Papers from the N.P.L. Symposium on Automatic Digital Computation
- Optimum Coding, by G.G. Alway
 - Getting Programmes Right, by S. Gill
 - Input and Output, by D.W. Davies
 - Echelon Storage Systems, by D.O. Clayden
 - Linear Algebra on the Pilot ACE, by J.H. Wilkinson
 - The Numerical Solution of Ordinary Differential Equations, by L. Fox and H.H. Robertson
 - Mathematical Tables, by E.T. Goodwin
 - Mercury Delay Line Storage, by M. Wright
 - Preventive or Curative Maintenance, by E.A. Newman
 - Diagnostic Programmes, by R.L. Grimshaw
- " 1947 25) Improvements in and relating to Calculators Patent specification by A.D. Booth
- " 1950 26) Improvements in Apparatus for use in Electric Pulse Signal-Handling Devices such as

		Electronic Digital Computer Machines Patent Specification by A.D. Booth
"	1974	27) Various papers about the Uppster Model II High Speed Printer
"	1970	28) Front Printer Development Program Printer Products Division, Control Data Corporation
38/71		Box file - documents about statistical processing
"	1958	1) Computer Group, AERE Harwell The use of the Hollerith Type 555 Electronic Calculator for scientific computation
"	1963	2) IOWA State University Statistical Laboratory AARDVARK Numerical Analysis - Programming
"	Undated	3) Imperial College Time-Series Programmes
"	1961	4) C.E.I.R. (UK) Ltd OPAL User's Guide
"	1955	5) National Bureau of Standards - Applied Mathematics Division Technical Memorandum No 69 - MP.1 Matrix Input Routine
"	1962	6) The Presentation of Data to Computers B.E. Cooper and Mrs C.M Whiteside Final Draft
"	1962	7) The Presentation of Data to Computers B.E. Cooper and Mrs C.M Whiteside Part 1 - Final Draft
"	1962	8) The Presentation of Data to Computers B.E. Cooper and Mrs C.M Whiteside Part 2 - Final Draft
"	Undated	9) Unattributed - Scheme for Classification of Abstracts

	"	1961	10) CASE Institute of Technology Abstracts of Statistical Computer Routines
38/72			Box file of Ferranti material
	"	1962	1) Sixteen small brochures, (called 'profiles'), covering: ATLAS, ORION, ARGUS, SIRIUS, APOLLO, POSEIDON Application of Orion to Large Scale Merchandising, Application of Orion to Branch Banking, Automation in Transport, The Computaquants Service for the Quantity Surveyor, The Pegasus Mercury Sirius AUTOCODE FILECODE - A Commercial Autocode NEBULA Commercial Autocode Sorting by computer Input and Output operations on Orion using Time Sharing Computer Systems and Services - Achievements to Date
	"	1961	2) Classified Index of Ferranti Computer Literature (March)
	"	1961	3) Classified Index of Ferranti Computer Literature (July)
	"	1961	4) Classified Index of Ferranti Computer Literature, (November) Library Services & Films
	"	1962	5) Classified Index of Ferranti Computer Literature, (May) Library Services & Films
	"	1963	6) Classified Index of Ferranti Computer Literature, (June) Library Services & Films
	"	1961	7) Punched Tape Codes
	"	1962	8) Ferranti Punched Tape Data Links
38/73			Box file of Ferranti ORION documents
	"	1962	1) ORION Computer - Summarized

		Programming Information Programmer's Reference Card
"	1960	2) The Ferranti ORION Computer System Brochure
"	1960	3) The Ferranti ORION Computer System Provisional Description, Second Edition
"	1961	4) The Ferranti ORION Computer System Provisional Description, Fourth Edition
"	1961	5) The Ferranti ORION Computer System Provisional Description, Fifth Edition (2 copies)
"	1963	6) ICT A General Description of the ORION 1 and ORION 2 Computers (3 copies)
"	1961	7) Ferranti ORION Computer Two Sample Complete Programs
"	1961	8) Ferranti ORION Computer Programming Exercises (Machine Coding)
"	1961	9) Ferranti ORION Computer Programming Exercises (Basic and Symbolic Input)
"	Undated	10) Ferranti ORION Computer Examples of Complete Problems for Programming
"	1961	11) Ferranti Data Links
"	1961	12) Sorting Time Graphs
"	1961	13) Ferranti ORION Computer The Magnetic Tape System
"	Undated	14) Ferranti ORION Computer Amendment to document CS264D (contains changes to ORION instruction repertoire)

"	Undated	15) Card to Tape Transcription Program
"	Undated	16) Ferranti ORION Computer A simple Program - 'Special Factorize'
"	Undated	17) Ferranti ORION Computer Two Simplified Problems relating to Insurance Office Work, for programming
"	1961	18) Ferranti ORION Computer Description of Card Reader, Card Punch, and Line Printers
"	1962	19) Ferranti ORION Computer Description of Card Reader, Card Punch, and Line Printers
"	1961	20) ORION and ATLAS Computers - Punched Tape Codes Programmer's Reference Card
"	Undated	21) Graph of ORION sorting times
"	Undated	22) Addendum no 1 to CS 273 A Programme for Multiple Regression Analysis Mk 1.B.
38/74		Box file of Ferranti PEGASUS and SIRIUS documents
"	1959	1) Ferranti PEGASUS Computer The Pegasus Autocode
"	1961	2) Ferranti SIRIUS Computer Description of the Autocode
"	1963	3) ICT - The Analysis of Structural Piling Systems
"	1963	4) Ferranti PEGASUS Computer The Analysis of Structural Grids
"	1963	5) Ferranti PEGASUS Computer The Analysis of Plane Structural Frames
"	1963	6) Ferranti SIRIUS Computer The Analysis of Helical Stairs and

Bow Girders

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| " | 1962 | 7) Ferranti SIRIUS and PEGASUS Computers
The Critical Path Schedule and Review Programme |
| " | 1962 | 8) Ferranti PEGASUS Computer Analysis of Single-Plane Structural Frames |
| " | 1962 | 9) Ferranti PEGASUS Computer 1962 Library Tapes |
| " | 1961 | 10) Ferranti SIRIUS Computer Data Preparation and Operating Instructions for the solution of Simultaneous Linear Equations (2 copies) |
| " | 1962 | 11) Ferranti SIRIUS Computer Linear Programming Shrimplex |
| " | 1962 | 12) Ferranti PEGASUS Computer Programming for Punched Cards and Line Printer |
| " | 1962 | 13) Ferranti SIRIUS Computer Two Structural Engineering Programmes for the Analysis of:
a) Single-Bay Frames
b) Beam Sections |
| " | 1961 | 14) Ferranti PEGASUS Computer Index to Library Specifications, Issue 8 |
| " | 1961 | 15) Ferranti SIRIUS Computer The Solution of Simultaneous Linear Equations |
| " | 1961 | 16) Ferranti SIRIUS Computer Programming Exercises |
| " | 1961 | 17) PEGASUS - Summarized Programming Information Programmer's Reference Card |
| " | 1960 | 18) Ferranti PEGASUS Computer Programmes Available in the Interchange Scheme |

	"	1955	19) Ferranti PEGASUS Computer - Programming Manual
38/75			Box file of Ferranti documents - various computers
	"	1951 (?)	1) Ferranti MARK 1 Computer Introduction to Programming on the Manchester Electronic Digital Computer made by Ferranti Ltd
	"	1955	2) TRANSCODE Manual - A system of automatic programming for FERUT, the Ferranti Mark 1 electronic digital computer at the University of Toronto.
	"	1962	3) Ferranti APOLLO Computer Description of the Apollo Computer System
	"	1958	4) AERE, Harwell. Quantal response analysis (probit analysis) program for the Mercury computer
	"	1962	5) Ferranti ATLAS Computer A Fortran Compiler for Atlas
38/76			Box file of Ferranti documents - MERCURY Computer
	"	1959	1) The Manchester MERCURY Autocode System
	"	1961	2) MERCURY Autocode Manual, 2nd Edition
	"	1960	3) RAE, Farnborough - An Introduction to Autocode Programming for the MERCURY Computer
	"	1962	4) RAE, Farnborough - Manchester MERCURY Autocode - Glossary of terms for use with the London CHLF3 Compiler
	"	1961 Nov	5) Extended MERCURY Autocode on ATLAS and ORION - A Provisional Description

"	1962 Feb	6) Extended MERCURY Autocode on ATLAS and ORION - Addendum List 1 to Provisional Description dated November 1961
"	1962 June	7) Extended MERCURY Autocode on ATLAS and ORION - A Provisional Description
"	1962 Oct	8) Extended MERCURY Autocode for ATLAS and ORION
"	Undated	9) Scanning Facilities in Extended Mercury Autocode on ORION
"	Undated	10) General Two-Way Analysis of Variance Program
"	Undated	11) An Foras Taluntais MERCURY Computer Programme Specification General Block Experiment Analysis - Dublin 4/3
"	Undated	12) Curve-Fitting Program
38/77		Box file of Ferranti documents - NEBULA language
"	Undated	1) ICT - Nebula Information Sheet No 87 Nebula Sorting Program Mk 2 - Specifications
"	Undated	2) ICT - Nebula Information Sheet No 55 Nebula Sorting Program - Revised Specification (2 copies)
"	1961	3) NEBULA Addenda No 1 and No 2 to CS 282 (formerly LD12) - An extension to Card Description Facilities - Replacement of Example No 2
"	1960	4) NEBULA A programming language for Commercial Data Processing
"	1961	5) NEBULA Programming Examples and Solutions
"	1961	6) NEBULA - A Programming Language for Data Processing Reprint of an article from "The

		Computer Journal", Oct 1961
	" 1961	7) NEBULA - Summarised Procedure Description Programmer's Reference Card
	" 1962	8) NEBULA Addendum No 11 to CS 282 (formerly LD12) - Table Storage and Reference
	" 1960	9) Introduction to NEBULA (Natural Electronic Business Language)
38/78		University Mathematical Laboratory, Cambridge - EDSAC papers
	" 1951-55	1) EDSAC Library of Subroutines Various subroutine specifications on loose papers of various sizes.
38/79		Other British Computers
	" Undated	1) Stantec-Zebra Digital Computer - Short Description - Logical Description - A Library of Sub-Routines - A Summary of Equipments having General Application to Integrated Data-Processing Systems
	" Undated	2) Stantec-Zebra Some Advantages of Zebra Programming
	" Undated	3) Elliott 803 Programme Specifications - Programme G - Fitting a negative binomial distribution to coarsely grouped data by maximum likelihood - Programme H - To set limits to parameter p in a binomial distribution - Programme H1 - Analysis of results of randomised block experiments - Programme H2 - a variation on H1 - Programme H3 - Analysis of split-plot experiments - Programmes H4, H5, and H6 - variations on H2 - Programme L - Computation of multiple regression equations,

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- Programme M - Computation of a multiple regression equation
- Programme N - Non-orthogonal block experiments
- Programme Q2 - Generation of randomised latin squares
- Programme Q4 - Generation of random permutations of a specified set of N symbols

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| " | 1960 | 4) The Elliott 503 Computer - Preliminary Information |
| " | 1961 | 5) The Elliott ALGOL Programming System |
| " | 1960 | 6) The Elliott 502 On-Line Data-Processor - Preliminary Information |
| " | 1957-59 | 7) Abbreviated descriptions of various statistical programmes, running on various machines - eg DEUCE, IBM 704, IBM 650, UNIVAC I, BENDIX G-15, UNIVAC 1103 |
| " | Undated | 8) Bristol Aero Engines Limited DEUCE Programme No 19012 - Tabular Interpretive Scheme |
| " | Undated | 9) Bristol Aero Engines Limited DEUCE Programme No 19013 - Tabular Interpretive Programme II |
| " | 1956 | 10) DEUCE Programme News No 10 - Interpretive & Brick Schemes with special reference to matrix operations |
| " | 1957 | 11) Supplement to DEUCE Programme News No 10 - Interpretive & Brick Schemes with special reference to matrix operations |
| " | 1958 | 12) DEUCE Programme News No 19 - Tabular Interpretive Scheme |
| " | 1958 | 13) DEUCE Programme News No 20 - DEUCE Alphacode |

	"	1958	14) Supplement to DEUCE Programme News No 20 - DEUCE Alphacode
	"	1958	15) Errata in DEUCE Programme News No 20 - DEUCE Alphacode
38/80			Box file containing Remington Rand documents
	"	1955	1) The A2 Compiler System
	"	1954	2) UNIVAC Service Routines
	"	1955	3) Manual for the Matrix Math Tape
	"	1954	4) UNIVAC Flow-Matic Programming System
	"	Undated	5) Flow-Matic Compiler
38/81			Box file of IBM and IBM-related documents
	"	1955	1) IBM 650 Data-Processing System Manual of Operation
	"	1957	2) IBM 650 Data-Processing System FOR TRANSIT Automatic Coding System Programmer's Reference Manual
	"	1965	3) Science Research Council Atlas Computer Laboratory Statistical Fortran Programs for IBM 7090, IBM 7030, ICT-ATLAS
	"	Undated	4) IBM 650 Data-Processing System Introducing the 650 Program Library
	"	1957	5) IBM 650 Data-Processing System SOAP II Reference Manual
	"	Undated	6) IBM 650 Data-Processing System Multiple Regression Analysis on the 650
	"	1961	7) Department of Agriculture - Research Branch - Statistical Research Service - Program 650-31 General Factorial I - Sums of

Squares

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| " | 1961 | 8) Dept of Agriculture - Research Branch - Statistical Research Service - Program 650-32 Generalized Factorial II - Main Effects and Interactions |
| " | 1961 | 9) Dept of Agriculture - Research Branch - Statistical Research Service - Program 650-38 General Square Lattice Program |
| " | 1960 | 10) IBM 1401 FARGO II - Fourteen O One Automatic Report Generating Operation Program Write up |
| " | 1956 | 11) Report on Fortran Program AT-3 |
| " | 1955 | 12) IBM Type 701 Study of the applications of the 701 at WHQ from April 1953 to July 1955 |
| " | 1955 | 13) IBM Type 701 and Type 704 Multiple Regression and Correlation Analysis on the Types 701 and 704 - a paper read before a meeting in Philadelphia of the Association of Computing Machinery |
| " | 1948 | 14) IBM Calculating Punch Type 602 Typical Applications |
| " | 1948 | 15) IBM Electronic Calculating Punch Type 604 Principles of Operation |
| " | 1949 | 16) IBM Card-Programmed Electronic Calculator Preliminary Manual of Information |
| 38/82 | | Boxfile - Programming for SEAC, ORACLE, SILLIAC, etc |
| " | 1965 | 1) General Electric Ten Elementary Statistical Programs for GE-225 Computer |
| " | 1952 | 2) National Bureau of Standards |

		Programming and Coding Handbook for SEAC
"	1950	3) SEAC Reprint from NBS Technical News Bulletin
"	1956	4) SEAC Manual for SEAC Coding in the 3-address system
"	1958 Jan	5) Oak Ridge National Laboratory ORACLE Manual for Programmers
"	1958 Apr	6) Oak Ridge National Laboratory Programmer's Manual for ORACLE
"	1954	7) I.R.E. Transactions - Electronic Computers System Design of the SEAC and DYSEAC
"	1953	8) Proceedings of the Eastern Joint Computer Conference SEAC - Review of Three Years of Operation
"	1954	9) Journal of the Association for Computing Machinery System Specifications for the DYSEAC
"	c1954	10) Transactions of the I.R.E. System Organisation of the DYSEAC
"	1955	11) National Bureau of Standards Report SEAC Operating and Programming Notes
"	c1956-61	12) Adolph Basser Computing Laboratory Mathematical and statistical programs for SILLIAC 13 various programs
"	1956	13) Philadelphia - Automatic Programming Department Specification of the B-0 Compiler for UNIVAC C-10 Specification and supplements 11 various documents
38/83		Boxfile of miscellaneous documents
"	pre 1958	1) Departmental Library Routines of the Computing Laboratory, Department of Statistics, North Carolina State College IBM 650

	"	undated	2) Compagnie des Machines Bull Folio of brochures describing the whole range of Bull punched card equipment
	"	1964	3) List of installations in the UK using statistical routines, 1961-64 Equipment, applications, workload, etc
38/84			Boxfile of miscellaneous documents
	"	1965-66	1) University of Edinburgh Computer Unit Programming in ATLAS Autocode P.D.Schofield & M.R.Osborne
	"	1966-69	2) Edinburgh Regional Computing Centre Monthly Newsletters, from Vol I No 1 to Vol IV No 2
38/85			Boxfile of miscellaneous documents, mostly papers presented at the Third London Symposium on Information Theory, in 1955:
			1) Negative Entropy of Welsh Words
			2) Simple Proofs of Simple Cases of the Coding Theorem
			3) The Synthesis of Linear Sequential Coding Networks
			4) Coding for Two Noisy Channels
			5) Strategic Information in Games and in Voting
			6) Two-Dimensional Photographic Autocorrelation of Pictures and Alphabet Letters
			7) The Translation of Languages by Machine
			8) Pattern Recognition and Learning
			9) A Programme for Braille Transcription
			10) Elementary Proofs of the Coding Theorem - Addendum
			11) Experiments in Mechanical Speech Recognition
			12) Information Retrieval on Structured Content
			13) A Law of Berry and the Definition of "Stress"
			14) The place of "Meaning" in the

Theory of Information
15) Ignorance, Knowledge and Information
16) Optical Transmission
17) A General Class of Codes and their Physical Realisation
18) On some measures of "Information" used in statistics
19) A class of binary signalling alphabets
20) Some consequences of the finiteness of information
21) Some clerical operations and languages
22) A comparative study of delta and pulse code modulation
23) Can induction be mechanised?
24) The effects of context upon the intelligibility of heard speech
25) Auditory frequency analysis
26) The cochlear nucleus and its relation to theories of hearing
27) An experimental treatment of vision as an information source and a noisy channel
28) Some properties of a randomly connected neural network
29) The electrical stimulation of some nervous system functional activities
30) Factors limiting the maximum impulse transmitting ability of an afferent system of nerve fibres
31) Studies of human channel capacity
32) Application of communication theory to the human operator
33) An iterative translation test
34) A neuronic model of the inner ear
35) Note on the fundamental theorem for a discrete channel with noise
36) The concept of capacity and the theory of behaviour
37) Some calculations on a method for signal testing

- " 1964-6 1) Delay Lines - various papers
- " Undated 2) L.M. Ericcsons - The Programme-
Controlled Interpolator
- " 1961 3) Electronic Computer Exhibition
- Programme
- " 1972 4) The Scope of the Computer - The
Law and the Computer
- " 1971 5) Extracts from "Computer
Structures: Readings and
Examples":
- " 6) Chapter 5 -The DEC PDP-8
- " 7) Chapter 6 - The Whirlwind
Computer
- " 8) Chapter 8 - The UNIVAC System
- " 9) Chapter 9 - The design
philosophy of PEGASUS
- " 10) Chapter 12 - ZEBRA, a simple
binary computer
- " 11) Chapter 14 - Instruction logic
of the MIDAC
- " 12) Chapter 18 - The IBM 1401
- " 13) Section 5 - Processors with
Stack Memories
- " 14) Chapter 22 - Design of the B
5000 System
- " 15) Chapter 23 - One-Level Storage
System
- " 16) Chapter 26 - NOVA : a list-
oriented computer
- " 17) Chapter 28 - Microprogramming
and the design of the control
circuits in an electronic computer
- " 18) Chapter 33 - The IBM 1800

	"		19) Chapter 38 - The RW-400 - a new polymorphic data system
	"		20) Chapter 42 - The SDS 910-9300 series
	"		21) Bibliography
	"	1960	22) Notes from a series of symposia relating to the use of magnetic cores as digital circuit elements
	"	Undated	23) Numerical Control of Machine Tools
	"	1953	24) Transactions of the First Conference on Mechanisms
	"	1956	25) How to design Geneva mechanisms
38/87			Boxfile, containing:
	"	1962	1) Stantec Zebra - Mechanical and Electro-Mechanical Maintenance Handbook No Z2
	"	1968	2) Friden Computyper - folder of sales material
	"	Undated	3) AEI 1010 - sales brochure
	"	Undated	4) Friden sales brochures, a folder containing Flexowriter, Selectadata, Motorised Tape Readers, Motorised Tape Punches, Adding Machines, etc
	"	1968	5) Elliott 402 - sales brochure
38/88			Boxfile on Powers-Samas/ICT Programme Controlled Computer:
	"	Undated	1) Outline Logic Diagram
	"	1956	2) Reprint from IEE Proceedings, Vol 103, Part B, Supplement 2 - "The Programme-Controlled Computer", by E.J. Guttridge and R.P.B. Yandell

	"	1958/59	3) PCC Servicing Manual, Vol 1
	"	1958/59	4) PCC Servicing Manual, Vol 2
	"	1956	5) PCC 65 & 80 column - Book 1, Input & Output Unit
	"	1959	6) FCC Order Code and Useful Information (NB "FCC", not "PCC")
38/89			Boxfile
	"	1948	1) "The UNIVAC" - abstract of a paper by John Mauchly
	"	1958	2) UNIVAC file computer - from Revue de la Mecanographie
	"	1952-73	3) Remington Rand / Univac - various brochures and other papers on the 1100 range
	"	1958	4) Remington Rand / Univac - FLOWMATIC programming system
	"	1958	5) Remington Rand / Univac - FLOWMATIC compiler
	"	1973	6) Data Products Model 2230 line printer - specimen output
38/90		1952-60	National Elliott Folder containing papers and brochures on Nicholas, 315, 401, 402, 405, 503, 609, 802, 803
38/91		1955-62	National Elliott Bundle of papers containing:
	"		1) Elliott 903 - Functional specification - Introduction
	"		2) Elliott 903 - Functional specification - Physical features & Requirements
	"		3) Elliott 903 - Programming information - Symbolic input routine
	"		4) Elliott 903 - Programming

		information - ALGOL
	"	5) Elliott 903 - Programming information - FORTRAN
	"	6) Elliott 903 - Quarter tapes - brochure
	"	7) Elliott 903 - Computer - brochure
	"	8) Elliott 903 - Software - brochure
	"	9) Elliott 903 - Digital Plotter - brochure
	"	10) Elliott 803 - Programming Guide
	"	11) Elliott 803 - ALGOL
	"	12) Elliott 503 - 503 Autocode
	"	13) Elliott High Speed Tape Reader
	"	14) Elliott 503 - ALGOL
	"	15) An Introduction to 803 Autocode
	"	16) Tape Reader TRM 500 / TRM 1000 (2 copies)
	"	17) Tape Reader type R110
38/92	1966	ORION I - Logic Diagrams - Vol 4 - Central Computer (A3 size)
38/93		Boxfile of LEO documents, containing:
	"	1) CLEO Draft Specification
	"	2) CLEO Compiler notes
	"	3) CLEO Requirements
	"	4) LEO II - photographs of peripherals

	"	1947-61	5) LEO Chronicle
	"		6) Introducing LEO III
	"		7) various many other papers, reprints, etc
38/94		1964	ORION I - Microprogramme (provisional)
38/95		1964	ORION I - System Description (provisional)
38/96		1966	ORION I - OMP - Basic Manual
38/97			ORION I - Diagnostic Program Flowchart - Vol 1
38/98		1964	Report on ORION Diagnostic Tests
38/99		1962	ORION - Logical Description
38/100		1962	ORION - Logical Description - Vol 2 - Microprogramme
38/101		1962	ORION - Peripherals
38/102		1963	ORION - Maintenance Notes - Book 1
38/103		1963	ORION - Maintenance Notes - Book 2
38/104			Package Specifications - Logic Diagram - Section Z - data sheets
38/105			Package Specifications - Logic Diagram - Section Z - data sheets, ctd
38/106		1964	ORION - Programming Manual - Vol 1
38/107		1964	ORION - Programming Manual - Vol 2 (2 copies)
38/108		1964	ORION - Punching Conventions
38/109		1964	ICT ATLAS & ORION - Extended Mercury Autocode - (EMA) (3 copies)
38/110		1963	ORION - Programming Manual (provisional)

38/111	1965	ORION - Magnetic Tape Control System
38/112	1966	ORION I - N-Type Package Information Vol 5 - Package Data Sheets - types 001 to 126
38/113	1966	1) ORION I - N-Type Package Information Vol 6 - Package Data Sheets - types 126-593
"		2) Computer main power supply equipment
38/114	1966	ORION I - Vol 7 - The Mullard Core Store - Technical Description
38/115	1966	ORION I - Vol 8 - The Mullard Core Store - Logical Diagrams
38/116	1961	ICT 1301 - Standard Programs and Subroutines - Vol 1
38/117	1961	ICT 1301 - Standard Programs and Subroutines - Vol 2
38/118	1957	English Electric DEUCE Logical Design Manual Part 1
38/119	1957	English Electric DEUCE Logical Design Manual Part 2 - Drawings
38/120	1956	English Electric DEUCE Programming Manual
38/121	Undated	English Electric DEUCE Preliminary Instruction Manual for DEUCE Mk II Input/Output System Volumes 1 and 2 - General Description and Logical Design (binder is misleadingly labelled "Operating and Maintenance Instruction Manual")
38/122	1956	English Electric DEUCE Logical Design Manual Part 1 - General Description
38/123	1956	English Electric DEUCE Logical Design Manual Part 2 - Drawings

38/124	c1962	English Electric Computer Programming - Lecture Notes
38/125		English Electric DEUCE Lecture Notes 1 - 30
38/126	1964	English Electric LEO Marconi KDF9 Service Routine Library Manual - Vol 1
38/127	1964	English Electric LEO Marconi KDF9 Service Routine Library Manual - Vol 2
38/128	1964	English Electric LEO KDF9 Operating Manual
38/129	1969	ICL KDF9 Programming TP 1002
38/130	c1967	English Electric KDF9 ALGOL Programming
38/131	Undated	English Electric LEO KDF9 User code digest (pocket book format)
38/132	Undated	English Electric KDP10 Programming Manual
38/133	1969	ICL System 4 - 4-50 Processor Hardware Reference TP 1086
38/134	1969	1) ICL System 4 - 4-50 Processor Hardware Reference TP 1086 2) System 4 Peripherals Introduction -Training Hand-out
38/135	Undated	System 4 - 4-50 Illustrated Parts List
38/136	1969	ICL System 4 4-70 Series Processors TP 1104
38/137	1971	ICL System 4 Installation Planning Manual
38/138		English Electric System 4 4-70 Processor Library Vol 7, Section 7, Input/Output Control - Functional Description
38/139	1972	1) ICL System 4 FORTRAN TP 4573

	"	1972	2) ICL System 4 DRIVER TP 4569
38/140		1974	ICL System 4 ANSI COBOL - Course Training Manual
38/141		1964-66	English Electric LEO Marconi KDF 9 Wiring Diagrams
38/142		1953-62	Miscellaneous papers on character recognition and card sensing
38/143		Various	Bundle of papers concerning Burroughs products
38/144			ICT Catalogue Sheets, covering: <ul style="list-style-type: none"> - 1300 / 1301 - 1500 (= RCA 301, not ex-Singer 1500) - 1900 computers and software - 1900 peripherals - System 4 - Key Edit
38/145			ICT Techniques of Computer Management Vol 1 - Organisation and control to install a data processing system
38/146			ICT Techniques of Computer Management Vol 2 - System investigation analysis and design for data processing
38/147			ICT Techniques of Computer Management Vol 3 - The ICT System Definition
38/148			ICT Techniques of Computer Management Vol 4 - Standard programming procedures
38/149			ICT Techniques of Computer Management Vol 5 - Organisation and control of a data processing unit
38/150		1972	ICL System 4 4-40, 4-50, and 4-52 Processors Maintenance Engineer's Pocket Book
38/151		1964	ICT Type 1370/0 ¼" Magnetic Tape

		System Field Engineering Manual
38/152	1967	NCR/Elliott 4100 Technical Manual - Vol 1, parts 1 to 3
38/153	1968	NCR/Elliott 4100 Technical Manual - Vol 2, parts 1 to 4
38/154	Undated	NCR/Elliott 4100 Data Processing System NEAT Assembly Language - Programming Course
38/155	1978	Ex-Elliott 4120/4130 lists of type numbers and part numbers compiled to help integrate Elliott hardware into ICT/ICL
38/156		RCA 301 (= ICT 1500) Boxfile, containing:
"	1962	1) RCA 301 Electronic Data Processing System Functional Specifications
"	Undated	2) RCA 301 Electronic Data Processing System Training Manual
"	Undated	3) RCA 301 Electronic Data Processing System Training Center Processor Training Manual
"	Undated	4) RCA 301 Basic Training Manual
"	1962	5) RCA 301 STATUS FLOW Training Manual
"	1965	6) RCA EDP Bulletins RCA Spectra 70/45 1401 Emulator Feature
"	1965	7) RCA EDP Bulletins RCA Spectra 70/45 1410 Emulator Feature
"	1965	8) RCA EDP Bulletins RCA Spectra 70/45 301 Emulator Feature
"	1965	9) RCA EDP Bulletins RCA Spectra 70/45 501 Emulator Feature
"	1965	10) A Case Study - The Spectra 70/45 Emulator for the RCA 301

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RCA 301 (= ICT 1500) Boxfile,
containing:

- " 1961 1) ICT 1500 Data Processing System Programmer's Reference Manual
- " 1963 2) ICT 1500 Data Processing System FAS Manual (FAS = Fifteen-hundred Assembly System)
- " Undated 3) 1500 Series Computer Computer Installation Manual
- " Undated 4) RCA 301 - Processor Models 303/304 Maintenance Manual
- " Undated 5) RCA 301 - Hi-data Tape Group Model 381 Maintenance Manual
- " Undated 6) RCA 301 - Tape Station Model 581 Maintenance Manual
- " Undated 7) RCA 301 - Tape Station Model 582 Maintenance Manual
- " 1960 8) RCA 301 Electronic Data Processing System Programmer's Reference Manual
- " 1961 9) RCA 301 Electronic Data Processing System Scientific Interpreter Manual
- " pre-1956 10) RCA BIZMAC Electronic Business System

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RCA 301 (= ICT 1500) Boxfile,
containing:

- " 1962 1) ICT 1500 Data Processing System FAS Manual
- " Undated 2) RCA 301 Data Sheets Engineering data sheets
- " 1962 3) Proposals for running Home Sales Machine Accounting on the 1500 computer
- " 1963 4) RCA 301 Air Conditioning -

		service letter
"	1961	5) RCA 301 Catalogue Sheets
"	1962	6) RCA 301 Control Logic Training Manual - Vol 1
"	1962	7) RCA 301 Control Logic Training Manual - Vol 2
38/159	1964	RCA 3301 REALCOM Training Manual
38/160	c1965	FERRANTI Orion Program documentation from installation at Trygg Fylgia in Sweden Vol 1
38/161	c1965	FERRANTI Orion Program documentation from installation at Trygg Fylgia in Sweden Vol 2
38/162		FERRANTI Orion Preliminary Report on an Orion system for Integrated Data Processing at De Havilland Propellers Ltd
38/163		ELLIOTT 803 and 402 Technical and design details. Personal reminiscences of Peter Burton
38/164		Yellow envelope folder, containing:
"	Undated	1) Process Control Computer Systems by Sim-Chem Ltd
"	Undated	2) Consultants' Report on "SIMCOS", by J.H. Westcott, Imperial College, London
38/165		Black plastic folder, containing various papers on computers in process control, written or collected by Allen Thompson of ICI
38/166		Orange envelope folder, containing FERRANTI ARGUS programming information, Computer Control of Process Plant by Sim-Chem, and other papers collected by Allen Thompson of ICI

38/167		FERRANTI Lever arch file containing extracts from Orion Programmer's Reference Manual Volume 2, sections 5 - 14
38/168		Norwich Union Red 2-ring binder containing notes on Orion and Nebula programming
38/169		Norwich Union Yellow 2-ring binder containing notes on Orion and Nebula programming
38/170		Commercial Union Buff envelope containing: - photographs of Concord House, Exeter, the Commercial Union Computer Headquarters - write up of Concord House and the KDP10 computer (including a Xerox printer!). 1962 - Computer report, March 1960: the study that recommended the KDP10. - Provident Mutual, 1964. Invitations to view the computer at Hitchin - a KDF6, and associated PR material
38/171	1965	ICT Programming for Orion in Basic Input Language
38/172		Norwich Union Computer Feasibility Study, December 1963, recommending Orion
38/173		ENGLISH ELECTRIC LEO KDF9 Service Routines Library Manual Vol 1
38/174		ENGLISH ELECTRIC LEO KDF9 Service Routines Library Manual Vol 2
38/175		ENGLISH ELECTRIC LEO KDF9 Service Routines Library Manual Vol 3
38/176		ENGLISH ELECTRIC LEO KDF9 Service Routines Library Manual Vol 4
38/177		ENGLISH ELECTRIC LEO KDF9 ALGOL Programming Manual
38/178		ENGLISH ELECTRIC LEO KDF9 Linear

Programming Manual

38/179 ENGLISH ELECTRIC LEO KDF9 ALGOL
Matrix Scheme User's Manual

38/180 ENGLISH ELECTRIC LEO KDF9 Graph
Plotter User's Manual

38/181 ELLIOTT 4100 Technical Manual (NCR
Elliott 1967) Vol 1 - Functional
Specifications
Part 1 - Basic Information
Part 2 - Optional Units
Part 3 - Physical Details and
Performance

38/182 ELLIOTT 4100 Technical Manual (NCR
Elliott 1967)
Vol 1 - Functional Specifications
Part 1 - Basic Information
Part 2 - Optional Units
Part 3 - Physical Details and
Performance

38/183 ELLIOTT 4100 Technical Manual (NCR
Elliott 1966)
Vol 1 - Functional Specifications
Part 4 - Peripheral Devices
Sections 1 to 17

38/184 ELLIOTT 4100 Technical Manual (NCR
Elliott 1966)
Vol 1 - Functional Specifications
Part 4 - Peripheral Devices
Sections 1 to 16

38/185 ELLIOTT 4100 Technical Manual (ICL
1969 -1972)
Vol 2 - Programming Information
Part 1 - Introduction
Part 2 - ALGOL
 Section 2 - Basic ALGOL
 Section 3 - Short ALGOL
 Section 4 - Errors
 Section 5 - Dynamic Routine
Modules

38/186 ELLIOTT 4100 Technical Manual (ICL
1969)
Vol 2 - Programming Information
Part 1 - Introduction

Part 2 - ALGOL
 Section 2 - Basic ALGOL
 Section 3 - Short ALGOL
 Section 4 - Errors
 Section 5 - Dynamic Routine
 Modules

38/187 ELLIOTT 4100 Technical Manual (ICL
 1971)
 Vol 2 - Programming Information
 Part 3 - FORTRAN
 Section 1 - 4100 Fortran -
 Generate
 Section 2 - The Basic System
 Section 3 - Fortran for Systems
 With Backing Store
 Section 5 - Fortran Plotter
 Package
 Part 4 - NEAT ASSEMBLER LANGUAGE
 Section 1 - Programming Guide
 for the Basic Assembler
 Part 4 - NEAT AND NICE
 Section 2 - NEAT Errors
 Section 5 - Normal Input and
 Control Executive (NICE)
 Section 6 - NICE Supplementary
 Routines
 Section 7 - Program and Segment
 Loaders

38/188 ELLIOTT 4100 Technical Manual (ICL
 1971)
 Vol 2 - Programming Information
 Part 3 - FORTRAN
 Section 5 - Fortran Plotter
 Package
 Part 4 - NEAT Assembly Language
 Section 1 - Programming Guide
 for the Basic Assembler
 Part 4 - NEAT AND NICE
 Section 2 - NEAT Errors
 Section 7 - Program and Segment
 Loaders

38/189 ELLIOTT 4100 Technical Manual (ICL
 1971)
 Vol 2 - Programming Information
 Part 5 - LIBRARY PROGRAMS
 Section 1 - 803 Simulator
 Section 2 - 503 - 4100 ALGOL
 Converter

Section 3 - 803 - 4100 ALGOL
Converter
Part 5 - COMPATIBILITY PROGRAMS
Section 4 - 803 Autocode -
ALGOL Translator (AUTALG)
Section 5 - Autocode - ALGOL
Data Tape Translator (AUTALGDATA)
Part 7 - UTILITY PROGRAMS
Section 1 - Paper Tape Copy
Section 2 - Type Edit
Section 3 - EDIT41
Section 4 - Clear Store
Section 5 - DESPRINT
Section 6 - MODDZ
Section 7 - MONITOR
Section 8 - BINDUMP
Section 9 - LPRINT
Section 10 - TAPEDUMP
Section 11 - SYSDMP
Section 12 - Simple Copy
Section 13 - Detective
Section 14 - PC (Print Cards,
Paper Tape from Cards)
Section 15 - SP
Section 16 - Timing
Section 17 - CARD COPY - CC
Section 18 - ALGT2C
Section 19 - NEAT to Cards -
NEAT2C

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ELLIOTT 4100 Technical Manual (ICL
1971)
Vol 2 - Programming Information

Part 5 - LIBRARY PROGRAMS
Section 1 - 803 Simulator
Section 2 - 503 - 4100 ALGOL
Converter
Section 3 - 803 - 4100 ALGOL
Converter
Part 5 - COMPATIBILITY PROGRAMS
Section 4 - 803 Autocode -
ALGOL Translator (AUTALG)
Section 5 - Autocode - ALGOL
Data Tape Translator (AUTALGDATA)
Part 7 - UTILITY PROGRAMS
Section 1 - Paper Tape Copy
Section 2 - Type Edit
Section 3 - EDIT41
Section 4 - Clear Store
Section 5 - DESPRINT

- Section 6 - MODDZ
- Section 7 - MONITOR
- Section 8 - BINDUMP
- Section 9 - LPRINT
- Section 10 - TAPEDUMP
- Section 11 - SYSDMP
- Section 12 - Simple Copy
- Section 13 - Detective
- Section 14 - PC (Print Cards,
Paper Tape from Cards)
- Section 15 - SP
- Section 16 - Timing
- Section 17 - CARD COPY - CC
- Section 18 - ALGT2C
- Section 19 - NEAT to Cards -
NEAT2C

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ELLIOTT 4100 Technical Manual (ICL
1971)

- Vol 2 - Programming Information
 - Part 8 - LIBRARY ROUTINES
 - Section 1 - Scientific Input
and Output Subroutines
 - Section 2 - Mathematical
Subroutines - MATH
 - Part 8 - NEAT LIBRARY
 - Section 3 - Digital Plotter
Routines
 - Section 4 - Simple Input /
Output - SIO
 - Section 5 - Check and Trace -
CHAT
 - Part 9 - COMMERCIAL SOFTWARE
 - Section 1 - Introduction
 - Section 2 - General Information
(Content List only)
 - Section 3 - Languages (Content
List only)
 - Section 4 - Subroutine
Descriptions (Content List only)
 - Section 5 - Program
Descriptions (Content List only)
 - Section 6 - Language H (Content
List only)
 - Part 10 - ALGOL LIBRARY PROGRAMS
 - Section 1 - 4100 ALGOL Matrix
Package
 - Section 2 - Numerical
Integration of Ordinary
Differential Equations - NIODE
 - Part 12 - MAGNETIC TAPE UTILITY

PROGRAMS

- Section 1 - MTTIDY
- Section 2 - DMPALG
- Section 3 - Mag Tape Copy - MTC
- Section 4 - MC
- Section 5 - PMCOPY
- Section 6 - Conform

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ELLIOTT 4100 Technical Manual (ICL 1971)

Vol 2 - Programming Information

Part 8 - LIBRARY ROUTINES

Section 1 - Scientific Input and Output Subroutines

Section 2 - Mathematical Subroutines - MATH

Part 8 - NEAT LIBRARY

Section 3 - Digital Plotter Routines

Section 4 - Simple Input / Output - SIO

Section 5 - Check and Trace - CHAT

Part 9 - COMMERCIAL SOFTWARE

Section 1 - Introduction

Section 2 - General Information (Content List only)

Section 3 - Languages (Content List only)

Section 4 - Subroutine Descriptions (Content List only)

Section 5 - Program

Descriptions (Content List only)

Section 6 - Language H (Content List only)

Part 10 - ALGOL LIBRARY PROGRAMS

Section 1 - 4100 ALGOL Matrix Package

Part 12 - MAGNETIC TAPE UTILITY

PROGRAMS

- Section 1 - MTTIDY
- Section 2 - DMPALG
- Section 3 - Mag Tape Copy - MTC
- Section 4 - MC
- Section 5 - PMCOPY
- Section 6 - Conform

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ELLIOTT 4100 Technical Manual (ICL 1970)

Vol 2 - Programming Information

Part 13 - DISC SOFTWARE

Section 1 - Disc Filing System
Section 2 - DTIDY
Section 3 - Disc Print Program
- DODO
Section 4 - DES 1 Dump Programs
Section 5 - Disc Sectoring
Package
Section 6 - Disc Output to
Paper Tape and Restore
Section 7 - Disc Output to
Magnetic Tape and Restore
Section 8 - Assigned Character
Input and Output
Section 9 - Disc and Magnetic
Tape Record Handling Routines
Section 10 - DES Batch
Utilities
Section 12 - 4100 Multi-Access
Utility Programs

- 38/194 ELLIOTT 4100 Technical Manual (ICL
1971)
Vol 2 - Programming Information
Part 14 - OPERATING SYSTEMS -
Programmer's Descriptions
 Sections 1 to 12
- 38/195 ELLIOTT 4100 Technical Manual (ICL
1971)
Vol 2 - Programming Information
Part 15 - DEVICE ROUTINES
- 38/196 ELLIOTT 4100 Technical Manual
Vol 2 - Programming Information
Part 15 - DEVICE ROUTINES
- 38/197 ELLIOTT 4100 Technical Manual (ICL
1968)
Vol 2 - Programming Information
Part 40 - Applied Programming -
Introduction
Part 41 - Applied Programming -
General Mathematics
Part 42 - Applied Programming -
Matrix Operations
Part 43 - Applied Programming -
Integration
Part 44 - Applied Programming -
Statistics
Part 45 - Applied Programming -
Operational Research

		Part 46 - Applied Programming - Construction Industries
		Part 49 - Applied Programming - Miscellaneous
38/198		ELLIOTT 4100 Technical Manual (ICL 1970) Vol 3 - Installation and Operating Instructions Part 1 - Installation Information Part 2 - Supplies of Materials Part 3 - Daily Test Programs
38/199		ELLIOTT 4100 Technical Manual (NCR Elliott 1966) Vol 3 - Installation and Operating Instructions Part 4 - Operating Instructions - Hardware
38/200		ELLIOTT 4100 Technical Manual (ICL 1970) Vol 3 - Installation and Operating Instructions Part 5 - Operation of Basic Software Part 6 - Operation of Magnetic Tape Software Part 7 - Operation of Disc Software
38/201		ELLIOTT 4100 Technical Manual (NCR ELLIOTT / ICL 1971) TAPES containing printouts listing the contents of various tapes
38/202	1966	FERRANTI ORION 1 Vol 5 - N Type Package Information Package Data Sheets (Types 001 to 126)
38/203	1966	FERRANTI ORION 1 Vol 6 - Part 1 - Package Data Sheets Part 2 - Computer Main Power Supply Equipment
38/204	1963	FERRANTI ORION Test Program Manual Vol 2 Rothamsted
38/205		<u>ENGLISH ELECTRIC</u>

Large Black Kardex folder,
containing index cards (some
loose), detailing:
System 4 Log Messages

38/206 1965 ICT - The ICT ATLAS 1 Computer
Programming Manual for Atlas Basic
Language (ABL)

38/207 ICL Training 4-ring binder,
labelled "J1800, BASIC, OC-F".
Contains course notes on System 4
Operations Training

38/208 1960 ICT Type 1301 Data Processing
System Course Notes from Bradenham
Manor training centre

38/209 1960 ICT 1301 Programming Manual

38/210 POWERS-SAMAS (over-printed "ICT")
The P.C.C. Operator's Manual

38/211 POWERS-SAMAS Programme Controlled
Computer Servicing Manual Volume
1

38/212 1958 The Programme Controlled Computer
65 & 80 column Input and Output
Unit Maintenance Information
(Mechanical)

38/213 1960 ICT Type 1004 Data Processor

38/214 Powers Samas Bound volume (front
cover missing) of P.C.C. Logic
Diagrams

38/215 ELLIOTT - AUTOMATION NCR-ELLIOTT
4100 Data Processing System NEAT
Assembly Language Programming
Course

38/216 1966 ICT Orion 1 Computer Diagrams
Volume 4, Sep 1966 Bound volume of
logic diagrams, covering the
Central Computer

**39 Distributed and Personal Systems - DRS, 8801,
PC, PERQ, OPD**

39/1	Undated	DRS Pre-Sales Support Guide
39/2	1986	1) DRS 20 Utilities - Reference Manual
"	1987	2) DRS System Implementation
"	1987	3) DRS Distributed Text Manager
39/3	1981/82	1) Information Planning Architecture RP 90000 Planning Distributed Applications
"	1983	2) DRS 20 Distributed Resource System TP 90008
"	1983	3) DRS 20 Information Processing Architecture ICL Interactive Communications TP 7905-2 Reference Manual
"	1983	4) DRS 20 ICL Batch Mode Communications TP 7917-2 Reference Manual
39/4	1983	1) DRS 20 N Mode Utilities TP 7925 Reference Manual
"	1983	2) DRS 20 Information Processing Architecture ICL Interactive Communications TP 7905-2 Reference Manual
"	1982	3) DRS 20 Introduction to Models 20 and 25 TP 48006
"	1983	4) DRS 20 User Guide TP 92001
39/5	1980	1) DRS 20 Installation/Configuration of ML82A & ML83A Printer Types B210 (2 copies)
"	1983	2) DRS 20 Introduction to Models 10, 40, 50 TP 90002
"	1983	3) DRS 20 Implementing CP/M TP 90006
"	1983	4) DRS 20 User Guide TP 92001

39/6	1983	1) DRS 20 N Mode Basic TP 7923 Programmer Reference Manual
"	1982	2) DRS 20 Introduction to Models 10, 40, 50 RP 90002
39/7	1984	Range-Independent Non-Magnetic Media TP 3716
39/8	1983	DRS 20 9385 Controller TP 92096-1 Illustrated Parts Manual
39/9	1983	DRS 20 9380 Controller TP 92046-1 Service Manual
39/10		1) DRS 20 BSC 3270 Interactive Emulation Package TP 90019-1 BSC 2780/3780 Bulk Data Emulation Package
"		2) DRS 20 Personal Office Environment Terminal
39/11	1984	1) DRS 20 User Guide TP 92049-1
"		2) 1986 DRS System Implementation TP 92133-2
"	1984	3) DRS 20 ICL Interactive Communications TP 92594-0
"	1984	4) DRS 20 ICL Batch Mode Communications TP 92522-0
"	1982	5) DRS 20 ICL Batch Mode Communications RP 7917 Reference Manual
"	1984	6) DRS 20 Establishing IPA RR 92528-0
39/12	1982	1) DRS 20 The Business Manual
"	1982	2) DRS 20 Models 6, 16 and 20 Sales Guide
"	1982	3) DRS 20 Introduction to Models 16, 30 TP 4823
"	1982	4) DRS 20 Models 16, 30 System Implementation TP 4824

	"	1982	5) DRS 20 Model 16 User Guide
	"	1982	6) DRS 20 Model 3186-31 and 3186-32 Line Printer Operator Reference Manual
	"	1982	7) DRS 20 Model 3186-31 and 3186-32 Line Printer Installation Guide
39/13		1982	1) DRS 20 Model 50 Disc System TP 7920 Operating Instructions
	"	1981	2) DRS 20 Model 50 Disc System Service Manual Volume 1
	"	1984	3) DRS 20 Introduction to Models 110, 150 R 92131
39/14		1982	1) DRS 20 Model 10 Video Processor TP 7902 Operator Reference Manual
	"	1982	2) DRS 20 Model 10 Video Processor TP 7902 Operator Instructions
	"	1982	3) DRS 20 Diagnostic Reference Manual
	"	1982	4) DRS 20 Model 10 Video Processor Service Manual Volume 1
	"	1982	5) DRS 20 Model 30 User Guide TP 4835
39/15		1986	1) DRS Utilities Reference Manual 92079-02
	"	1982	2) DRS 20 Models 10 / 40 / 50 Extension Cabinet Illustrated Parts Manual
39/16		1983	DRS 20 Planner 20 RP 90021
39/17		1982-84	DRS 20 Utica Test Documents - Catalog and Test Specifications
39/18			DRS 20 Level 2 Controller Specification and Service Manual
39/19			DRS 300 Micro Planner
39/20		1981	DRS Retained Mode Utilities -

		Operator's Reference Manual
39/21		ICL Retail Systems
"	1984	1) Supermarket 20 - Office User Guide TP 93083/01
"	1984	2) Supermarket 20 - Retail Processor Programming R93081/01
39/22		ICL Retail Systems
"	1983	1) Introduction to DRS-based Retail Systems TP 93045
"	1983	2) DRS-based Retail Systems - User Guide TP 93052
"	1983	3) Retail 5 - Programmer's Reference TP 93048
"	1984	4) 9505/9507 Programmer's Reference RP 93003
39/23	1982-84	DRS 20, DRS 300, DRS 8800 - Marketing Bulletins
39/24	1982-87	1) DRS - Support Notices and Support Bulletins
"	1983-84	2) PERQ - Technical Sales Instructions
39/25	1983	1) DRS Wordskil 8800 - Model 8801 System Reference RP10020
"	1983	2) DRS 8801 - System Reference TP 10020
39/26	1983	1) DRS 8801 - System Reference TP 10020
"	1983	2) DRS 8800 - Diagnostic Software
39/27	1983	1) DRS 8801 - User Guide TP 10023
"	1983	2) DRS 8801 - Ready Reference TP 10022
39/28	1982	1) DRS 8801 - Ready Reference TP 10022

	"	1982	2) DRS 8801 - User Guide TP 10023
	"	1984	3) ICL PC Running MS-DOS Applications on your R 10341 ICL Personal Computer
	"	1984	4) ICL PC ICL External Disc Unit Option R 10314/5
	"	1982	5) DRS 8801 - Ready Reference TP 10022
39/29		1983	DRS 20 JCL Reference Guide TP 92000/1 (pocket book format)
39/30		1983	DRS 20 Distributed Text Manager TP 48901B-1 (pocket book format)
39/31		1985	ICL Personal Computer - Sales Manual
39/32		1985	ICL Personal Computer - Communications Facilities R 10408/01
39/33		1985	ICL Personal Computer - Demonstrations
39/34		1985	ICL Personal Computer - Software Catalogue
39/35			ICL PERQ
	"	1982	1) User Guide RP 10119
	"	1983	2) PASCAL Guide RP 10105
	"	1982	3) FORTRAN 77 under POS RP 10118
	"	1982	4) Grafiks User Guide RP 10110
	"	1983	5) 2780/3780 Communications under POS R 10109
	"	1983	6) System Software Reference RP 10101
39/36			ICL PERQ
	"		1) PERQ brochures

	"	1985	2) PERQ User Guide R 10132
	"	1984	3) PERQ 2 Service Guide
39/37			ICL PERQ Box of 8" Floppies, containing: PERQ PNX SR 1.2.4 Special Release
39/38			ICL PERQ Box of 8" Floppies, containing: PERQ PQOS Version R.2
39/39		1981	ICL PERQ Box of 8" Floppies, containing: 3RCC PERQ System D.5
39/40		1984	ICL PERQ Box of 8" Floppies, containing: PERQ F0 System Discs
39/41		1982	Three Rivers Corporation PERQ Introductory User Manual
39/42		1985	PERQ Catalogue Sheets and marketing correspondence
39/43		1981	Three Rivers Corporation PERQ - System Software Reference Guide
39/44		1988	Folder of PERQ News and other papers
39/45		1984	ICL PERQ Software Catalogue
39/46		1984	1) ICL PERQ - Confidence Tests R 10124/00
	"	1984	2) Program Product Set Notice for PQOS Operating System
	"	1985	3) ICL PERQ User Guide R 10132/02
39/47		1984	Report on OPD Research
39/48		1984	OPD - Pre-launch Documents
39/49		1984	Personal Computer 16-bit - Program Product Set Specification
39/50		1982	ICL Personal Computer - Hardware Manual

39/51	1984	DRS 20 - Marketing and Training material
39/52		Wallet, containing: NB: Not found 17/10/14 - JU/DS
"	1982	DRS20 Ordering and Configuring Guide P1374 NB: Not found 17/10/14 - JU/DS
"	1981	DRS20 Sales Guide MG1008 NB: Not found 17/10/14 - JU/DS
"	1982	DRS20 Sales Guide, Models 6, 16 & 30 MG1009 NB: Not found 17/10/14 - JU/DS
"	1981	DRS20 Systems Appreciation P1367 NB: Not found 17/10/14 - JU/DS
39/53		Wallet, "DRS 3000", containing:
"	1993	DRS3000 Range Level 656 your gateway to Open Systems P4118/2
"	1990	DRS Systems 3000 Series UNIX Server (x 2) 97 P3307 - DRS3000 L656 Product Announcements - Product Descriptions - Press Releases, etc

40 Miscellaneous Engineering Documentation (*Many items from the personal collections of individual engineers*)

40/1	1963	ICT Sales Manual
40/2	c1959	ICT Hollerith Machine Catalogue
40/3	c1959	ICT Powers Samas Machine Catalogue
40/4	Undated	British Tabulating Machine Co (Hollerith) Range of Machines 1907-1938
40/5	c1970	ICT/ICL 21, 40 and 80 column Punched Card Equipment
40/6	1971	ICL 1922 Card Punch Maintenance Manual

40/7	1970	ICL 1920 Card Punch Maintenance Manual
40/8	1967	ICL 130 and 136 Verifiers Illustrated Parts List - Vol 2
40/9	1975	ICL 171 Verifier Maintenance Manual
40/10	1973	ICL 171 Verifier from Serial No 3000 Maintenance Manual
40/11	1971	ICL 171 Verifier with Automatic Left Zero Feature Maintenance Manual
40/12	1975	ICL 314 Sorter Maintenance Manual
40/13	1971	ICL 313 Card Sorter Maintenance Manual
40/14	1972	ICL 71 Punch Maintenance Manual
40/15	1975	ICL 71 Punch from Serial No 3000 Maintenance Manual
40/16	1974	ICL 72 Punch from Serial No 3000 Maintenance Manual
40/17	1971	ICL Alpha-Numeric and Numeric Keyboards Maintenance Manual
40/18	Undated	ICT Machine Type Codes (pocket-book format)
40/19		Box, containing:
"	Undated	1) Specimen Wiring Diagrams, Relay Layouts, Plugboard Layouts, Machine Specs and Cable Layouts for; - 902 Tabulator - 800 Series Tabulators, E6/6, JRT, SRT - 513 Reproducer Summary Punch - Single Counter Double Punch Checking Machine
"	1959	2) Unit Register - 915 Tabulator
40/20	1933-52	Hollerith - various machines

		Mechanical Service Manual
40/21	c1957	Hollerith - Manual of Machines and Equipment
40/22	c1952	Hollerith - Field Engineering Manual
40/23	1943-52	Hollerith - Mechanical Service Manual
40/24	1936-50	Hollerith - Mechanical Service Manual
40/25	1937-48	BTM - Technical Information Sheets General Letters - Nos 67 to 129
40/26	1949-57	BTM - Technical Information Sheets Nos 1 to 120
40/27	1957-64	BTM/ICT - Technical Information Sheets Nos 121 to 237
40/28	1965-70	ICT Maintenance Instruction Sheets
40/29		ICL S1 Medium Systems Mainframe Action Manual - Vol 6 of 6
40/30	1969-80	Engineering Training Material various logic diagrams and other drawings, with associated questions
40/31	1969-75	Engineering Training Material various logic diagrams and other drawings, with associated questions, (some heavily annotated), indexed under: - HWY Control - Store SMC - Store Coupler - S1 OCP - Scheduler - SAU - IPC - Diagnostic Control Module - IPLM Coding - PC EDs
40/32	Undated	GTS, ODs and LOGICS for ADAPTOR

40/33	1950s	BTM Co Type 555 Electronic Calculator Wiring Diagrams/Technical Instructions
40/34	1967-68	2101 High Speed Card Reader Logic Diagrams
40/35	c1963	ICT Type 666 1000 lines-per-minute printer Drawings and parts lists
40/36	c1960	ICT Type 1971/3 C-DES-C Magnetic Tape System also 915 Core Store
40/37	1972	ICL Types 2801/2802 Exchangeable Disc Store Logic Diagrams TP 8323/2
40/38		File of various logic diagrams and notes labelled "PF 50 notes" and "ACE Automatic Computing Enhancement"
40/39		1004 Logic Diagrams
40/40	c1957	Bills of Materials for 900 machines and 589 machines
40/41	1958-61	Bills of Materials for 900 machines, 550, and 589 machines
40/42	1943-50	BTM - Specification and Bill of Material for 302 Sorter
40/43	c1950	BTM Current Planning Section Parts List Index
40/44		File labelled "PF 212 Numeric Sheets"
40/45		File containing drawings of Alpha Printing Function and A.P.D. Punch
40/46	c1964	ICT - Circuit diagrams for machine no H 915/0/115
40/47		Bundle containing Pupil's Notebooks from the Field Engineering Training School, labelled "V. Hopkins", and covering - 1301

- 1900 Series

40/48		Box labelled "Selection of Thermionic Valves"
40/49		Jiffybag labelled "Gordon Collinson - ICL History", containing various small PCBs
40/50		Jiffybag labelled "PCBs and Transistors"
40/51		Bankers Box labelled "Various core stores (2), 1 delay line"
40/52		Small Bankers Box labelled "Plessey core stores (2 off)"
40/53	1960s	ICT - Engineer's Reference Book (pocket book size)
40/54	1960s	ICT - Engineer's Reference Book (pocket book size)
40/55	1969	ICL - Engineer's Reference Book (pocket book size)
40/56	c1930-1990	A bundle of brochures, covering punched card machines, 555, 558, 1201, 1300/1301, ICT 1500, 1004, 1900, 2903, ME29, 2900, System 10, System 25 and many applications. (It looks like the life's work of someone who was involved in their design and printing).
40/57		Small blue book containing Engineering Data Sheets. Handwritten note on flyleaf states: "Service Manual for Hollerith Tabulating Machines, Sorting Machine, and Gang Punch"
40/58	1959	HOLLERITH Field Engineering Manual Type 29 Punch
40/59	1947	HOLLERITH Field Engineering Manual Horizontal Sorting Machine
40/60	1952	HOLLERITH Field Engineering Manual Type 129 Verifier

40/61	1946	HOLLERITH Card Sorting Handbook
40/62		HOLLERITH Comparing Reproducing Punch (Cover stamped "NPL 1946")
40/63	1956	HOLLERITH Type 900 Tabulators Additional and Alternative Units Operating Manual
40/64		3-ring black binder. Cover printed "HOLLERITH EXECUTIVE MANUAL" Special 2-week course for executives of users and prospective users.
40/65		3-ring black binder. Cover printed "HOLLERITH ELECTRONICS" Includes a chapter of rare information on the BTM 1400 computer
40/66	1966	ICT Engineering Services Type 314 Sorter Maintenance Manual
40/67	1956	POWERS-SAMAS (but over-stamped "ICT") Preliminary Parts Catalogue for the 65 and 80 column Input and Output Unit of the P.C.C.
40/68		POWERS-SAMAS (but over-stamped "ICT") Catalogue of the Electrical and Electronic components used in the various machines manufactured by Powers Samas Accounting Machines Limited
40/69	1957	File misleadingly labelled "COMPUTER PROGRAMME" Contains miscellaneous HOLLERITH Operational Reminders
40/70		Grey envelope file containing special commemorative editions of house magazines: - ICT - Hollerith and Powers-Samas Equipment - Issue No 1 replacing The Tabulator and the Powers-Samas Magazine - ICT House Magazine No 1 - February 1959 - Combined Operations - the ICT 1301 Project Development GEC CDL

		ICT
		- TABACUS Golden Jubilee of BTM 1907 - 1957
		- The Tabulator No 98 - Golden Jubilee Issue
40/71		Folder containing: - Letter from Mr R.A. Taylor to O. Strimpel of the Science Museum, cataloguing much of the documentation in this section - Photo and newspaper story about the 1201 installed for the Post Office in Islington - The Tabulator no 100 (1958) - Assorted BTM course materials hand-outs - The 901 Tabulator - summary sheets (10 copies)
40/72	1957	ICT Type 902 Tabulator Field Engineering Manual
40/73		ICT: Cover states 'Maintenance Manual' but contents are an engineer's personal notes. Notes on 21 col and 65 col tabulator mechanisms Customer Service Instructions: - International Gang Summary Punch - Programme Board Verifier Type 129/0 The ICT Punching Code
40/74		ICT: Cover states 'Maintenance Manual' but contents are an engineer's personal notes. Lecture notes on many electrical and electronic components
40/75	Undated	English Electric Brochure DEUCE general purpose digital computer
40/76	1958	BTM. The use of the Hollerith Type 555 Electronic Calculator for scientific computation by J.E. Hailstone, Computer Group, Atomic Energy Research Establishment, Harwell
40/77	Undated	ICT Type 44 Automatic Key Punch Operator's Manual

40/78	1959	ICT Catalogue for the 40-column Tabulator for machine no S409/4518 onwards
40/79	1952	Powers Samas Catalogue for the special parts used on 5, 7 & 8 and 40 column 40-character Summary Card Punch Tabulator
40/80	1952	Powers Samas, but overprinted ICT Catalogue for the special parts used on 5, 7 & 8 and 40 column 40-character Summary Card Punch Tabulator
40/81	1952	Powers Samas Catalogue for the 40 and 36 column Universal Automatic Key Punches DP8000 DP4500
40/82	1951	Powers Samas Instruction Book and Catalogue for the 40-character Alphanumeric Print Unit
40/83	1971	ICL 1900 Sales Manual RP 2924
40/84	Undated	A buff envelope containing a wide assortment of specimen cards of all sizes - 21, 36, 40, 65, 80 and 160 column, including some designed for mark-sensing, and specimen sections of paper tape.
40/85	1966-69	Buff folder containing 1900 Series Technical Sales Instructions numbers 38 to 198
40/86		Powers Samas Sales Manual
40/87		I.C.T. Price Manual
40/88	1960	I.C.T. Price Manual (Ancillary)
40/89		I.C.T. Executive Manual Notes on a Special Two Week Course for Executives of Hollerith Users and Prospective Users, together with associated brochures
40/90		Reminders for Hollerith Operators
40/91		I.C.T. Communications - Brochures

		- Interrogating Visual Display Units 7151, 7152
		- 7010 Telephone Data Terminal Transceiver
40/92		ICL 7930 Series Scanner Equipment - Technical Description
40/93	1973	ICL The CCITT Interface in 7900 Systems B.R. Russell
40/94	1973	ICL 7900 Series Communications Installation and Environmental Information
40/95	1967	ICT Technical Information - Who's Who
40/96		Powers Samas Basic Punching Instructions and Exercises
40/97	1947-56	Hollerith Reminders - Gang Summary Punch - Mark Sensing - Class Selectors - Numerical Interpreter - Alphabetical Interpreter - Collator
40/98	1951	A Selection of Hollerith Applications
40/99	1960	IBM Reference Manual - Functional Wiring Principles
40/100	1961	Star Aluminium Co Ltd - Mechanised Payroll. A well-documented example of a complete punched card application
40/101	1974	New Range Order Code Manual
40/102		LEO 3 - Miscellaneous training material
40/103		LEO 3 - Various circuit diagrams
40/104		LEO 3 Basics - Logics for Comms Controller - System 4 microprograms

40/105	LEO peripherals - Training material - Machine code programming - Electronics
40/106	LEO Programming training; post mortems (CLEO); interrupt facilities - training material
40/107	LEO introductory course
40/108	<i>Number accidentally omitted</i>
40/109	System 4 Folder - J1800 Digest - Various fault-finding procedures
40/110	System 4 - Miscellaneous training material
40/111	System 4 4-70 Sequences - CPU, MXCU, MCCU
40/112	System 4 Processor training
40/113	Engineer's guide to System 4 "J" operating system
40/114	System 4 Peripherals and "J" notes
40/115	System 4 Arithmetic unit engineering guide; System 4 operating system "J"
40/116	System 4 instruction set - technical descriptions
40/117	System 4 4-50 Discpack control unit
40/118	System 4 Paper tape reader technical information; Teletype technical description
40/119	System 4 MPDCU Technical description & training material
40/120	System 4 Printer 4554 Technical description & training material
40/121	System 4 MCCCUC (Comms) - Engineer's handbook

40/122	System 4 4-70 Engineer's Notes
40/123	System 4 Miscellaneous engineering notes
40/124	System 25 - Sales book for customers
40/125	UNIX Training Manual
40/126	DRS 20 models 16 and 30 - service guide
40/127	DRS Workstation Engineer's Handbook - Options
40/128	DRS Workstation Engineer's Handbook - General Systems
40/129	DRS Workstation Engineer's Handbook - DRS M50/M55
40/130	DRS Workstation Engineer's Handbook - DRS M75
40/131	DRS Workstation Engineer's Handbook - DRS M35/286
40/132	DRS Workstation Engineer's Handbook
40/133	DRS Workstation Engineer's Handbook - ICL PCs M75/20 M75/33
40/134	DRS 20 - Sales book for customers
40/135	DRS 300 technical information
40/136	1900 Folder - DME error logging - Miscellaneous technical sheets
40/137	Summary of George 3 commands
40/138	Engineer's Manual - Large and medium systems, service aids and work instructions
40/139	2966 Engineer's handbook - pocket version
40/140	2966 (Inland Revenue)

40/141	2966/2988 - fault finding guide
40/142	Series 39 Parts List
40/143	2966 Super Duals - Training & technical information
40/144	Guide to installing and operating superduals; S3E/S3J OCP hardware specialist's handbook
40/145	Mainframe Level 80 cookbook - SAM 231 manual
40/146	Series 39 Distributed and DX Systems node
40/147	Series 39 FDS 20G Disc drive and controller
40/148	Series 39 Mainframe units - Level 80 installation & commissioning
40/149	Series 39 Mainframe Units - Unpacking, Installation and Commissioning Guide
40/150	2960 Engineer's handbook
40/151	2980 OCP Technical description
40/152	2900 Peripherals - Logics; GPD training; DFC training
40/153	2900 Range Training manual E002 E019
40/154	2980 Engineering facilities; 2980 serial monitor technical description
40/155	Series 39 Level 30 cabinet; Level 80 System - service guides
40/156	Mainframe technical newsletters - hints & tips (1989)
40/157	2976 mod 4 level - training manual
40/158	Mainframe News bulletins 1 - 360 (Trefor Busby); Technical

information "the bible"

40/159 Mainframe - Technical Newsletters
- hints & tips (T. Busby)

40/160 Mainframe Technical Newsletters -
hints & tips 1990 (T. Busby)

40/161 2972/2976 Fault finding guide

40/162 2900 OCP EE039

40/163 2976/2980 mainframes -
Maintainability Guide

40/164 GPC (General Purpose Controller) -
miscellaneous engineer's notes

40/165 2980 Arithmetic unit Microprogram

40/166 3900 Updates - smart hubs etc -
1991 & 1995 - Service Guide

40/167 2980 System JL0014

40/168 2980 (Inland Revenue W1)

40/169 2980 (Inland Revenue M1)

40/170 SX Technical Overview

40/171 2960 DME/S4 software

40/172 2900 SMAC SAC training

40/173 Mainframe 2966 Training notes -
ADEMS system

40/174 SX installation and commissioning

40/175 2980 (Inland Revenue N1)

40/176 S39 SX system node cabinet -
service guide

40/177 2900 Error logging

40/178 2980 (Inland Revenue N5)

40/179 Mainframe 2960 - OCP/ECP Training
manual & engineer's handbook

40/180	Mainframe 2966 Training
40/181	2976 OCP (Ods)
40/182	SCL vocabulary
40/183	VME System construction and maintenance (TP6521)
40/184	S/W 2900 - Test programs - VME training
40/185	EDS 200 disc drive - hardware reference manual
40/186	FDS 640 Installation, maintenance, parts list, theory of operation
40/187	FDS 160 Fixed disc - Hardware manual & Training manual
40/188	EDS80/160/640 Disc Systems Technical Information
40/189	EDS 200 CDC Exchangeable Disc Drive technical manual
40/190	FDS 20G Disc system training manual
40/191	Eagle FDS 2500/5000 Disc drive service guide - parts - training commissioning - theory
40/192	DCU 0 - basic training
40/193	DFC disc controller engineer's handbook
40/194	EDS 200 - CDC Exchangeable disc drive - technical manual
40/195	EDS 80 Disc drive - hardware reference
40/196	Disc Drive 4425 Engineering training and technical information
40/197	FDS 5000 commissioning
40/198	FDS 300 disc system service guide

40/199	FDS 640 error codes, tests & diagnostics, logic diagrams
40/200	Mag tape MT 11/6 (MT 320) - Training and technical information
40/201	GTS Magnetic Tape Maintenance Notes
40/202	Mag Tape B510/B511 Transport logic diagrams
40/203	Mag Tape B510/B511 Formatter logic diagrams
40/204	Mag Tape STC formatter - maintenance manual
40/205	Mag Tape controller (52041) - technical description and installation guide
40/206	<i>Number accidentally omitted</i>
40/207	Mag Tape Fujitsu B510/B511 Training volume, maintenance manual
40/208	Large systems magnetic tape performance management
40/209	Magnetic tape controller (52041) (for MT6/11 tape decks) - Reference and logics
40/210	GTS Mag tape service guide; Macrolan adaptation service guide & technical notes
40/211	Mag tape 4552 Deck and 4342 Controller - technical training notes
40/212	GTS Mag tape - Training notes & technical information
40/213	GTS Mag Tape - Training notes and technical information
40/214	B510/B511 Mag Tape System - reference manual Vol 1 of 4

40/215	Mag Tape MT320 - Technical training
40/216	M/T System ATSI & MSA (large 2900 systems) - Engineer's Training Manual
40/217	MT11 (52141) - Logics
40/218	Laser Printer - Siemens ND3 operating system and test software
40/219	LP2000 Printer (6224) - Training and technical information
40/220	Genicom Printer - technical manual
40/221	Laser Printer LPS10 - engineering notes
40/222	Laser System Software - OMS 2 - OMS 3 firmware
40/223	PBS Printer - Technical notes & training material
40/224	LP2000 Printer Technical reference
40/225	Siemens Laser Printer - Technical notes & reference material
40/226	LP2000 printer Training manual, service guide & part numbers
40/227	LPS 20 Laser Printer Manual & Notes
40/228	LPS 20 Media Guide
40/229	Line Printer 4554 training course
40/230	Laser Printer ND3 - Maintenance Manual
40/231	Laser Printer software (OMS)
40/232	LPS10 Maintenance Manual Vol 2 (Siemens kit)
40/233	LPS10 Training and information

40/234	Laser System software
40/235	Siemens Laser Printer ND3 Maintenance Manual (English version)
40/236	LPS 10 Maintenance Manual Vol 1 (Siemens kit)
40/237	FP1500 printer, FP2000 printer - Training manual
40/238	Laser Systems Diaries (Inland Revenue)
40/239	Laser Printer system - System software
40/240	Band Printer 6224 - logic diagrams
40/241	MCU1 Technical Information & X25 Communications Notes
40/242	X25 Overview for Specialists
40/243	HSXC Comms controller - Installation and commissioning
40/244	NPS Communications hardware
40/245	MSX Made Simple
40/246	NPS Network Processor - Action Manual Vol 1 of 2
40/247	NPS Network Processor - installation & commissioning
40/248	Macrolan Control Cabinet
40/249	Teletype 32/33 technical description
40/250	MCCCU (Comms Controller) 4390 - Logics
40/251	Robotic Cartridge Systems - Overview
40/252	Line Writer Technical Information

40/253		Panther cartridge system -9710 - robotic cartridge - reference & training manual
40/254		S39 Robotic cartridge system - technical training - installation - commissioning
40/255		DCU2/CAFS - Technical information - training
40/256		MT3000 cartridge system + controller - training - theory - errors - fault finding
40/257		Twin Peaks Cartridge system - training and technical manual
40/258		Information Sheets: 190 - GTS Mag Tape; 191 - FDS 640
40/259		Information Sheets: 192 - Engineering software; 193 - LP1440; 194: Adems; 196 - LPS10; 197 - Series 39
40/260		Information Sheets: 121 - Network products; 157 - Train printers; 179 - EDS80; 187 - FDS 160
40/261		Information Sheets - Series 189 (2966 Series) - nos 1 to 183
40/262		"PUMA" Customer Care Activity Book

41 Engineering Standards and Design Information

41/1	c1970	ICT Stevenage Design Standards Office Data Sheets Index, Issue 16 An index to the following 30 volumes, which contain a reference collection of drawings of components, mostly dating from the mid-1960s, sequenced alphabetically by component name
41/2	c1970	Component drawings - A
41/3	c1970	Component drawings - B vol 1 of 2
41/4	c1970	Component drawings - B vol 2 of 2

41/5	c1970	Component drawings - C vol 1 of 6
41/6	c1970	Component drawings - C vol 2 of 6
41/7	c1970	Component drawings - C vol 3 of 6
41/8	c1970	Component drawings - C vol 4 of 6
41/9	c1970	Component drawings - C vol 5 of 6
41/10	c1970	Component drawings - C vol 6 of 6
41/11	c1970	Component drawings - D, E
41/12	c1970	Component drawings - F
41/13	c1970	Component drawings - G, H
41/14	c1970	Component drawings - I vol 1 of 2
41/15	c1970	Component drawings - I vol 2 of 2, J, K
41/16	c1970	Component drawings - L vol 1 of 2
41/17	c1970	Component drawings - L vol 2 of 2
41/18	c1970	Component drawings - M
41/19	c1970	Component drawings - N, O
41/20	c1970	Component drawings - P
41/21	c1970	Component drawings - R vol 1 of 3
41/22	c1970	Component drawings - R vol 2 of 3
41/23	c1970	Component drawings - R vol 3 of 3
41/24	c1970	Component drawings - S vol 1 of 5
41/25	c1970	Component drawings - S vol 2 of 5
41/26	c1970	Component drawings - S vol 3 of 5
41/27	c1970	Component drawings - S vol 4 of 5
41/28	c1970	Component drawings - S vol 5 of 5
41/29	c1970	Component drawings - T vol 1 of 2

41/30	c1970	Component drawings - T vol 2 of 2
41/31	c1970	Component drawings - V, W
41/32		ICL Kidsgrove Design Centre
"		1) IRIS Design Classified Listings - Index
"		2) Supplier Codes
41/33		IRIS Design Classified Listings Assembly Fixings and Fasteners - Vol 1
41/34		IRIS Design Classified Listings Mechanical Components for Design
41/35		IRIS Design Classified Listings Electronic Components for Design - Vol 1
41/36		IRIS Design Classified Listings Electronic Components for Design - Vol 2
41/37		IRIS Design Classified Listings Bought Out Parts and Suppliers - Vol 1, sections 1 and 2
41/38		IRIS Design Classified Listings Bought Out Parts and Suppliers - Vol 1, sections 3 to 6
41/39		IRIS Design Classified Listings Bought Out Parts and Suppliers - Vol 2
41/40		IRIS Design Classified Listings Bought Out Parts and Suppliers - Vol 3
41/41	1970s	ICL West Gorton Design West Gorton Standards Manual Standards Index and Information Sheets
41/42	1970s	West Gorton Standards Manual - Vol 1 Draughting and Design Standards
41/43	1970s	West Gorton Standards Manual Design Drafting - Vol 1? (contains misfiled amendments of other parts

of this series of standards volumes)

41/44	1970s	West Gorton Standards Manual - Vol 4 Organisational and Procedural
41/45	1970s	West Gorton Standards Manual - Vol 7 Raw Materials Register
41/46	1970s	West Gorton Standards Manual - Vol 9 Short Form Specifications
41/47	1970s	West Gorton Standards Manual - Vol 10 Information Sheets
41/48	1970s	West Gorton Standards Manual Index and assorted amendment sheets
41/49	1976	1) Standards Directory, ICL Product Planning
"	1982	2) West Gorton Standards Index
41/50	1979	Purchase Specification. Specification for General Requirements for Integrated Circuits
41/51	c1976	Spares List Index Cross-References of old Spares List Numbers to Device Types
41/52	1961	Ferranti Computer Department Alphabetical Index of Code Classes
41/53	c197	Component Index
41/54	c1977	Purchase Specification of Plugs and Sockets
41/55		Sector Allocation Sheets Letchworth Brisch Code Numbers
41/56	1950-56	Powers Samas Accounting Machines Ltd Drawing Office Manual
41/57	c1960	Powers Samas Accounting Machines Ltd Standards Sheets, Mechanical
41/58	1960	British Tabulating Machine Company Hollerith Common Parts Catalogue 1 - Electrical

41/59	1960	British Tabulating Machine Company Hollerith Common Parts Catalogue Vol 3 - Commercial and Standard Parts
41/60	1960	British Tabulating Machine Company Hollerith Common Parts Catalogue Vol 3 - Nuts
41/61	1964	ICT Engineering Standards Section 1, Volume 1 - Drawing and Design
41/62	1964	ICT Engineering Standards Section 1, Volume 2 - Drawing and Design
41/63	1964	ICT Engineering Standards Section 2, Volume 1 - Raw Materials
41/64	1964	ICT Engineering Standards Packaging and Transport
41/65	1965-84	ICT/ICL Technical Sales Instructions Nos 1-1289, 1965-84 Classified Index Numerical Index
41/66		Technical Sales Instructions ICT Nos 1 - 141 1965-68 ICL Nos 142- 199, 1968-69 Vol 1 of 12
41/67		Technical Sales Instructions Nos 200-360, 1969-71 Vol 2 of 12
41/68		Technical Sales Instructions Nos 361-499, 1972-73 Vol 3 of 12
41/69		Technical Sales Instructions Nos 500-599, 1973-74 Vol 4 of 12
41/70		Technical Sales Instructions Nos 600-682, 1975-76 Vol 5 of 12
41/71		Technical Sales Instructions Nos 683-770, 1976-77 Vol 6 of 12
41/72		Technical Sales Instructions Nos 771-850, 1977-81 Vol 7 of 12
41/73		Technical Sales Instructions Nos 851-945, 1978-81 Vol 8 of 12
41/74		Technical Sales Instructions Nos

		946-1027, 1980-81 Vol 9 of 12
41/75		Technical Sales Instructions Nos 1028-1125, 1981-82 Vol 10 of 12
41/76		Technical Sales Instructions Nos 1126-1230, 1982-83 Vol 11 of 12
41/77		Technical Sales Instructions Nos 1231-1289, 1983-84 Vol 12 of 12
41/78		Bundle of Technical Sales Instructions 1126-1146 (apparently never re-filed after microfilming)
41/79	1973	Design Information Services Manual
41/80	1975	Design Communication Division - Internal Procedures Manual DCD/1/ Headquarters
41/81	1975	Design Communication Division - Internal Procedures Manual DCD/2/Book 1 Design Office
41/82	1975	Design Communication Division - Internal Procedures Manual DCD/2/Books 1 and 2 Design Office
41/83	1975	Design Communication Division - Internal Procedures Manual DCD/3/ Reprographic and Distribution Centre
41/84	1975	Design Communication Division - Internal Procedures Manual DCD/4/ Logic Interconnection Services
41/85	1975	Design Communication Division - Internal Procedures Manual DCD/5/ Technical Literature and Standards Department
41/86	1984	ICL Preferred Components Manual Part 1 - Electronic
41/87	1984	ICL Preferred Components Manual Part 2 - Non-Electronic
41/88	1976	Engineering Standards Physical Design and Documentation

41/89	1980	Logistics Division Quality Manual Equipment Overhaul and Workshop Facilities
41/90	1966	ICT Quality Control Final Test Procedure
41/91	1981	Quality Assurance Division Product Assurance Manual - Part 1
41/92	1981	Quality Assurance Division Product Assurance Manual - Part 2
41/93	1981	Quality Assurance Division Product Assurance Manual - Part 3
41/94	1980	Quality Matters

**42. Range-independent Software, including Dataskil
products Marketing information and associated
support notices**

42/1	1980-81	Competitive Marketing Updates, nos 1 to 19
42/2	1981-83	Competitive Marketing Updates, nos 20 to 40
42/3	1974-78	1) Operating System Support Notices, nos 1 to 22
"	1979-81	2) UKD Marketing Bulletins, nos 1 to 55 (UKD = United Kingdom Division)
42/4	1987	Marketing Newsletters
42/5	1984	1) Product Marketing Authorisations, nos 1 to 34
"	1984	2) Marketing Bulletins, small systems, office business centre, and DRS 20
42/6	1975-77	Hardware Support Bulletins, nos 1 to 193
42/7	1977-79	Hardware Support Bulletins, nos 194 to 388
42/8	1979-81	Hardware Support Bulletins, nos

389 to 519

42/9	1974-81	Hardware Support Notices, nos 1 to 44
42/10	1977-84	Small Systems Support Notices, nos 1 to 176
42/11	1973-76	Applications Support Notices, nos 1 to 38
42/12	1986-89	1) Product Support Bulletins
"	1987-88	2) OSLAN Product Notices, Descriptions, and Marketing Introduction Bulletins
42/13	1982-85	UKD and ICL (UK) Marketing Bulletins, nos 88 to 250
42/14	1973-76	Software Support Notices, nos 1 to 89
42/15	1976-77	1) Software Support Notices, nos 90 to 110
"	1974-77	2) System Support Notices, nos 1 to 8
"	c1979	3) Medium Systems Hardware Guide
42/16	1986	Product Support Guides
42/17	1985	Product Descriptions
42/18	1980-82	Miscellaneous Notices
42/19	c1977-79	Dataskil Products Brochures, Marketing Bulletins and Descriptions, Vol 2
42/20	c1980	Dataskil Products Brochures, Marketing Bulletins and Descriptions, Vol 2
42/21		IPA - Information Processing Architecture Brochures, Marketing Bulletins and Descriptions
42/22	1974	Dataview System Manual

42/23	c1972	PERICLES - Application User Guides
42/24	1985	1) Using Querymaster (QM 250) RP 00433
"	1985	2) Running Querymaster in VME RP 00435
42/25	1983	Decision Support Software Sales Guides and Brochures
42/26	1980	Operational Research - Data Analysis Engineering A multi-vendor software catalogue
42/27	1984	ICL UK Mail Order software catalogue
42/28	1982-92	Report of the Investigation of User Requirements of Large Scale Digital Map Data
42/29	c1986	Illustrator Graphics System
42/30	c1967-80s	Computer Aided Design and Graphics
42/31	1978	Dataskil - Wordskil (1st Release)
42/32	1964	ICT Digital Computers - Critical Path
42/33	1966	ECMA Standard for Flow Charts
42/34	1980	Information Processing Architecture Staff Guidebook
42/35	1979 onwards	T.S.P. South Output (TSP = Technical Services Publications)
42/36	1981	TSP Output Description and Samples
42/37		TSP Indexes
42/38	1969-70	Sales Survey Manual
42/39	1973	Sales Survey Manual, continued
42/40	1974	Sales Survey Manual, continued
42/41	1970	Space Performance Analysis and Computer Evaluation Catalogue

42/42	1965	Technical Specification of the ICT Standard Interface for Peripheral Devices
42/43	Feb 1983 to Oct 1984	Technical Publication List (several successive issues)
42/44	1982	MIDI - Machine Information Description Index
42/45	1984	ICL Data Dictionary System
"		1) Running and Using a Dictionary Service (DDS.700) RP00406
"		2) Advanced Dictionary Facilities (DDS.700) RP 00407
"		3) The DDS Model (DDS.700) RP 00408
42/46	1988	Product Notices Quattro, Omac, Community Management, Series 39
42/47	1982	Software Index
42/48	1982	Software Catalogue (Worldwide Edition)
42/49	1982	Software Availability Schedule
42/50	1985	Using DDS to Prepare A Query View (QM 250) R00434
42/51	1978	Training Course Material
"		1) Data Analysis
"		2) Data Dictionary System
42/52		Application Development Product Line
"	1984	1) Introduction to Cross-Range Transaction Processing R03793
"	1983	2) Business Analysis using DDS RP 2250
"	1984	3) Preparing a Query View using DDS R01146

	"	1984	4) Using DDS System Definition Language R00419
42/53			ICL MAIL
	"	1987	1) EXAC and ICL Mail - Administrator's Reference Manual R10214/01
	"	1986	2) Planning and designing an ICL Mail network R11227/01
	"	1986	3) Installing and maintaining an ICL Mail network R11226/01
	"	1986	4) User management of an ICL Mail network R11228/01
42/54		1988	Office Systems Product Preview - A Guide for Sales Staff
42/55		1984	ICL Office Systems - Professional Services
42/56		early 1984	Office Systems - Marketing Guide
42/57		1984	Office Systems - Marketing Guide
42/58		1985	Customer Services - Professional Services Catalogue
42/59		Undated	Safes 25 Sales Guide
42/60		1983	QuickBuild Sales Guide
42/61		Undated	QuickBuild Training Fast Path Workbook
42/62		1986	QuickBuild User Guide
42/63		Undated	Office Systems Planning Services

43 Books, Journals and Reports

43/1		1962	AFIPS SJCC Conference Proceedings Vol 21 (SJCC = Spring Joint Computer Conference FJCC = Fall Joint Computer Conference)
43/2		1962	AFIPS FJCC Conference Proceedings

		Vol 22
43/3	1963	AFIPS SJCC Conference Proceedings Vol 23
43/4	1963	AFIPS FJCC Conference Proceedings Vol 24
43/5	1964	AFIPS SJCC Conference Proceedings Vol 25
43/6	1964	AFIPS FJCC Conference Proceedings Vol 26 Part I
43/7	1964	AFIPS FJCC Conference Proceedings Vol 26 Part II
43/8	1965	AFIPS FJCC Conference Proceedings Vol 27 Part I
43/9	1965	AFIPS FJCC Conference Proceedings Vol 27 Part I (duplicate)
43/10	1965	AFIPS FJCC Conference Proceedings Vol 27 Part II
43/11	1966	AFIPS SJCC Conference Proceedings Vol 28
43/12	1966	AFIPS FJCC Conference Proceedings Vol 29
43/13	1967	AFIPS SJCC Conference Proceedings Vol 30
43/14	1967	AFIPS FJCC Conference Proceedings Vol 31
43/15	1968	AFIPS FJCC Conference Proceedings Vol 32
43/16	1968	AFIPS FJCC Conference Proceedings Vol 33 Part I
43/17	1968	AFIPS FJCC Conference Proceedings Vol 33 Part II
43/18	1969	AFIPS FJCC Conference Proceedings Vol 34
43/19	1969	AFIPS FJCC Conference Proceedings Vol 35

43/20	1970	AFIPS FJCC Conference Proceedings Vol 36
43/21	1970	AFIPS FJCC Conference Proceedings Vol 37
43/22	1951-70	AFIPS Conference Proceedings - Index to Vols 1-37
43/23	1971	AFIPS FJCC Conference Proceedings Vol 38
43/24	1971	AFIPS FJCC Conference Proceedings Vol 39
43/25	1971	AFIPS FJCC Conference Proceedings Vol 40
43/26	1972	AFIPS FJCC Conference Proceedings Vol 41 Part I
43/27	1972	AFIPS FJCC Conference Proceedings Vol 41 Part II
43/28	1973	AFIPS NCC Conference Proceedings Vol 42 (NCC = National Computer Conference)
43/29	1974	AFIPS FJCC Conference Proceedings Vol 43
43/30	1975	AFIPS FJCC Conference Proceedings Vol 44
43/31	1976	AFIPS FJCC Conference Proceedings Vol 45
43/32	1977	AFIPS FJCC Conference Proceedings Vol 46
43/33	1978	AFIPS FJCC Conference Proceedings Vol 47
43/34	1979	AFIPS FJCC Conference Proceedings Vol 48
43/35	1980	AFIPS FJCC Conference Proceedings Vol 49
43/36	1981	AFIPS FJCC Conference Proceedings Vol 50

43/37	1982	AFIPS FJCC Conference Proceedings Vol 51
43/38	1983	AFIPS FJCC Conference Proceedings Vol 52
43/39	1984	AFIPS FJCC Conference Proceedings Vol 53
43/40	1985	AFIPS FJCC Conference Proceedings Vol 54
43/41	1958	ACM Communications Vol 1
43/42	1959	ACM Communications Vol 2
43/43	1960	ACM Communications Vol 3
43/44	1961	ACM Communications Vol 4
43/45	1962	ACM Communications Vol 5
43/46	1963	ACM Communications Vol 6
43/47	1964	ACM Communications Vol 7
43/48	1965	ACM Communications Vol 8
43/49	1966	ACM Communications Vol 9
43/50	1967	ACM Communications Vol 10
43/51	1968	ACM Communications Vol 11
43/52	1969	ACM Communications Vol 12
43/53	1970	ACM Communications Vol 13
43/54	1971	ACM Communications Vol 14
43/55	1972	ACM Communications Vol 15 in 12 monthly parts
43/56	1973	ACM Communications Vol 16 in 12 monthly parts
43/57	1974	ACM Communications Vol 17 in 12 monthly parts
43/58	1975	ACM Communications Vol 18 in 12

		monthly parts
43/59	1976	ACM Communications Vol 19 in 12 monthly parts
43/60	1977	ACM Communications Vol 20 in 12 monthly parts
43/61	1978	ACM Communications Vol 21 in 12 monthly parts
43/62	1979	ACM Communications Vol 22 in 12 monthly parts
43/63	1980	ACM Communications Vol 23 in 12 monthly parts
43/64	1981	ACM Communications Vol 24 in 12 monthly parts
43/65	1982	ACM Communications Vol 25 in 12 monthly parts
43/66	1983	ACM Communications Vol 26 in 12 monthly parts, pt 3 missing
43/67	1984	ACM Communications Vol 27 in 12 monthly parts, pt 6 missing
43/68	1969	ACM Computer Surveys Vol 1 in 4 quarterly parts
43/69	1970	ACM Computer Surveys Vol 2 in 4 quarterly parts
43/70	1971	ACM Computer Surveys Vol 3 in 4 quarterly parts
43/71	1972	ACM Computer Surveys Vol 4 in 4 quarterly parts
43/72	1973	ACM Computer Surveys Vol 5 in 4 quarterly parts
43/73	1974	ACM Computer Surveys Vol 6 in 4 quarterly parts
43/74	1975	ACM Computer Surveys Vol 7 in 4 quarterly parts
43/75	1976	ACM Computer Surveys Vol 8 in 4 quarterly parts

43/76	1977	ACM Computer Surveys Vol 9 in 4 quarterly parts
43/77	1978	ACM Computer Surveys Vol 10 in 4 quarterly parts
43/78	1979	ACM Computer Surveys Vol 11 in 4 quarterly parts
43/79	1980	ACM Computer Surveys Vol 12 in 4 quarterly parts
43/80	1981	ACM Computer Surveys Vol 13 in 4 quarterly parts
43/81	1982	ACM Computer Surveys Vol 14 in 4 quarterly parts
43/82	1983	ACM Computer Surveys Vol 15 in 4 quarterly parts
43/83	1984	ACM Computer Surveys Vol 16 in 4 quarterly parts
43/84	1985	ACM Computer Surveys Vol 17 in 4 quarterly parts, pt 1 only
43/85	1961	Proceedings of the Western Joint Computer Conference
43/86	1964	ACM Proceedings of the 19th National Conference
43/87	1971	ACM Proceedings of the 1971 annual conference
43/88	1972	Proceedings of the ACM Annual Conference 1972, Vol 1
43/89	1972	Proceedings of the ACM Annual Conference 1972, Vol 2
43/90	1973	Proceedings ACM '73
43/91	1974	ACM Performance Evaluation Review SIGMETRICS Symposium, Montreal
43/92	1974	ACM SIGMOD Workshop on Data Description, Access and Control
43/93	1975	ACM '75 - Proceedings

43/94	1976	ACM '76 - Proceedings
43/95	1977	ACM '77 - Proceedings of 1977 Annual Conference
43/96	1978	ACM '78 - Proceedings of 1977 Annual Conference, Vol 1
43/97	1978	ACM '78 - Proceedings of 1977 Annual Conference, Vol 2
43/98	1978	ACM SIGMOD - Proceedings of international conference on Management of Data, Austin
43/99	1979	ACM SIGMOD - Proceedings of international conference on Management of Data, Boston
43/100	1980	ACM SIGCPR - Proceedings of the 17th annual computer personnel research conference
43/101	1981	ACM SIGCPR - Proceedings of the 18th annual computer personnel research conference
43/102	1985	ACM SIGMOD - Proceedings of international conference on Management of Data
43/103	1985	ACM SIGCPR - Proceedings of the 21st annual computer personnel research conference, with SIGBDP
43/104	1965	IFIP Information Processing Congress '65 - Proceedings, Vol 1
43/105	1965	IFIP Information Processing Congress '65 - Proceedings, Vol 2
43/106	1968	IFIP Information Processing Congress '68 - Proceedings, Vol 1
43/107	1968	IFIP Information Processing Congress '68 - Proceedings, Vol 2
43/108	1971	IFIP Information Processing Congress '71 - Proceedings, Vol 1
43/109	1971	IFIP Information Processing

		Congress '71 - Proceedings, Vol 2
43/110	1974	IFIP Information Processing Congress '74
43/111	1977	IFIP Information Processing Congress '77 - Proceedings
43/112	1980	IFIP Information Processing Congress '80 - Proceedings
43/113	1983	IFIP Information Processing Congress '83 - Proceedings
43/114	1972	AFIPS and IPSJ Proceedings of the first USA-Japan Computer Conference
43/115	1974	EUROCOMP Proceedings of the European Computer Conference
43/116	1975	AFIPS and IPSJ Proceedings of the second USA-Japan Computer Conference
43/117	1978	EUROCOMP 78 Proceedings of the European Computer Conference
43/118	1979	EURO IFIP 79 European Conference on Applied Information Technology
43/119	1977	Infotech State of the Art Report Performance Modelling and Prediction 1) Analysis and Bibliography 2) Invited Papers
43/120	1977	Infotech State of the Art Report Distributed Processing 1) Analysis and Bibliography 2) Invited Papers
43/121	1977	Infotech State of the Art Report Software Engineering Techniques 1) Analysis and Bibliography 2) Invited Papers
43/122	1977	Infotech State of the Art Report On-Line Databases 1) Analysis and Bibliography 2) Invited Papers

43/123	1977	Infotech State of the Art Report Mini Computer Systems 1) Analysis and Bibliography 2) Invited Papers
43/124	1977	Infotech State of the Art Report Future Systems 1) Analysis and Bibliography 2) Invited Papers
43/125	1973	Proceedings of the American Society for Information Science. Vol 10 - Innovative Developments in Information Systems: Their Benefits and Costs
43/126	1978	Proceedings of the Third International Conference on Software Engineering
43/127	1978	Proceedings of the Online Conference Pragmatic Programming and Sensible Software
43/128	1976	Internet 76 - 5th Internet World Congress Project Implementation and Management Bridging the Gap Vol 1
43/129	1976	Internet 76 - 5th Internet World Congress Project Implementation and Management Bridging the Gap Vol 2
43/130	1976	Internet 76 - 5th Internet World Congress Project Implementation and Management Bridging the Gap Vol 3
43/131	1976	Internet 76 - 5th Internet World Congress Project Implementation and Management Bridging the Gap Vol 4
43/132	1976	Internet 76 - 5th Internet World Congress Project Implementation and Management Bridging the Gap Vol 5
43/133	1960	Advances in Computers 1
43/134	1961	Advances in Computers 2

43/135	1962	Advances in Computers 3
43/136	1963	Advances in Computers 4
43/137	1964	Advances in Computers 5
43/138	1965	Advances in Computers 6
43/139	1966	Advances in Computers 7
43/140	1967	Advances in Computers 8
43/141	1986	Alvey Programme Annual Report 1986
43/142	1986	Alvey Programme Annual Report 1986 - Poster Supplement
43/143	1976	Proceedings of the International Symposium on Computer Performance Modelling, Measurement & Evaluation
43/144	1981	WCCE '81 3rd World Conference on Computer Education Pre-prints, Part 2
43/145	1982	PLEXUS P/25 System Technical Training - Student Guide
43/146	1982	PLEXUS P40 System Technical Training - Study Guide
43/147	1982	PLEXUS Cartridge Tape Drive Manual
43/148	1983	PLEXUS Sys 3 UNIX Programmer's Manual Vol 1A
43/149	1983	PLEXUS Sys 3 UNIX Programmer's Manual Vol 2A
43/150	1983	PLEXUS Sys 3 UNIX Programmer's Manual Vol 2B
43/151	1983	PLEXUS Sys 3 UNIX Programmer's Manual Vol 2C
43/152	1982	PLEXUS P/25 Engineering Manual
43/153	1977-79	Auerbach Computer Technology Reports A - 1 Computer Systems - U.S. Vendors - A-B

43/154	1977-79	Auerbach Computer Technology Reports A-2 Computer Systems - U.S. Vendors - C-H
43/155	1977-79	Auerbach Computer Technology Reports A-3 Computer Systems - U.S. Vendors - I
43/156	1977-79	Auerbach Computer Technology Reports A-4 Computer Systems - U.S. Vendors - J-Z
43/157	1977-79	Auerbach Computer Technology Reports A-5 Computer Systems - U.S. Vendors - European and Japanese
43/158	1977-79	Auerbach Computer Technology Reports B-1 Business Mini Computers - U.S. Vendors
43/159	1977-79	Auerbach Computer Technology Reports B-2 Business Mini Computers - European and Japanese Office Computers Intelligent Terminals
43/160	1977-79	Auerbach Computer Technology Reports D-1 Vol 1 Plug-Compatible Peripherals
43/161	1977-79	Auerbach Computer Technology Reports D-1 Vol 2 Plug-Compatible Peripherals
43/162	1977-79	Auerbach Computer Technology Reports E-1 Financial/Retail Systems
43/163	1977-79	Auerbach Computer Technology Reports F-1 Office Systems
43/164	1977-79	Auerbach Computer Technology Reports G-1 Applications Software
43/165	1977-79	Auerbach Computer Technology Reports J-1 System Software
43/166	1977-79	Auerbach Computer Technology Reports K-1 Datacomm Equipment
43/167	1977-79	Auerbach Computer Technology

		Reports L-1 Computer Terminals Teleprinters, A/N Displays
43/168	1977-79	Auerbach Computer Technology Reports L- 2 Computer Terminals Remote Batch, Intelligent, Graphic, Audio Response, Facsimile
43/169	Apr 1971	Auerbach Computer Characteristics Digest
43/170	Jan 1972	Auerbach Computer Characteristics Digest
43/171	May 1972	Auerbach Computer Characteristics Digest
43/172	Nov 1972	Auerbach Computer Characteristics Digest
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43/174	1973	Infotech State of the Art Report 13 Minicomputers
43/175	1973	Infotech State of the Art Report 15 Database Management
43/176	1974	Infotech State of the Art Report 17 Computer Design
43/177	1974	Infotech State of the Art Report 17 Computer Design
43/178	1974	Infotech State of the Art Report 18 Computer Systems Measurement
43/179	1974	Infotech State of the Art Report 19 Commercial Language Systems
43/180	1974	Infotech State of the Art Report 20 Computer Systems Reliability
43/181	1974	Infotech State of the Art Report 21 Management Information Systems
43/182	1975	Infotech State of the Art Report 22 Input/Output

43/183	1975	Infotech State of the Art Report 23 Microprogramming & Systems Architecture
43/184	1975	Infotech State of the Art Report 24 Network Systems and Software
43/185	1975	Infotech State of the Art Report Data Base Systems
43/186	1976	Infotech State of the Art Report Multiprocessor Systems
43/187	1976	Infotech State of the Art Report Structured Programming
43/188	1976	Infotech State of the Art Report Real-Time Software
43/189	1976	Infotech State of the Art Report Distributed Systems
43/190	1976	Infotech State of the Art Report Program Optimisation
43/191	1976	Infotech State of the Art Report Virtual Storage
43/192	1978	Infotech State of the Art Report - 1977 Series Cumulative Indexes
43/193	1979	Infotech Microprocessor Applications International Survey of Practice & Experience
43/194	Undated	Infotech State of the Art Conference System Performance Tuning
43/195	1977/78	Infotech Training The Jackson Design Methodology
43/196	1979	ICL Technical Journal, number 1, Vol 1 issue 2, Vol 1 issue 3 (x 2)
43/197	1980-81	ICL Technical Journal, Vol 2, issues 1-4
43/198	1982-83	ICL Technical Journal, Vol 3, issues 1-4
43/199	1984-85	ICL Technical Journal, Vol 4,

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43/200	1986-87	ICL Technical Journal, Vol 5, issues 1-4
43/201	1988-89	ICL Technical Journal, Vol 6, issues 1-4
43/202	1990-91	ICL Technical Journal, Vol 7, issues 1-4
43/203	1992-93	ICL Technical Journal, Vol 8, issues 1-4
43/204	1994-95	IngenuITy - The Technical Journal, Vol 9, issue 1 only Vol 10, issues 1-2
43/205	1996-97	The Systems Journal, Vol 11, issues 1-4
43/206	1997	The Systems Journal, Vol 12, issues 1-4
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43/208	1999-2000	The Systems Journal, Vol 14, issues 1-4
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43/210	1973	Computer-Assisted Management of Individualised Learning M. Phil Thesis J. Gilligan
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43/226	1963	BIONICS Symposium Contributed Papers pre-prints
43/227	1963	A Manual of Visual Presentation in

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43/228	1961	Systematic Layout Planning Richard Muther
43/229	1976	Imperial College - Research Report, 1971-74
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43/231	Undated	SOLARTRON Analogue Computer Application Reports
43/232	1968	POP-2 Papers 1) Introduction to POP-2 R.M. Burstall & J.S. Collins 2) POP-2 Reference Manual R.M. Burstall & R.J. Popplestone
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43/264	1968	Insulation Handbook
43/265	1969	LOGIC Handbook Digital Equipment Corporation
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43/283	1963	Transistor Substitution Handbook
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43/300	1972	Operations Procedures TP 4299
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- Communications in Data Processing
- Introduction to Real Time
- S4 Application Development Methodology
- Fundamentals of IDMS Databases
- Database Principles in IDMS
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		sixth formers by Arthur L. Rowles B.Sc C.Eng MIEE Part B - A primitive computer
43/346	1970	ICL - The Digital Computer A series of lectures directed at sixth formers by Arthur L. Rowles B.Sc C.Eng MIEE Part C - Hardware
43/347	1970	ICL - The Digital Computer A series of lectures directed at sixth formers by Arthur L. Rowles B.Sc C.Eng MIEE Part D - Programming, Software, and the User
43/348	1971	ICL CES Computer Education in Schools Computer Studies Book 1 (A5 book format)
43/349	1971	ICL CES Computer Education in Schools Computer Studies Book 2 (A5 book format)
43/350	1971	ICL CES Computer Education in Schools Computer Studies - Teacher's Guide Book 1
43/351	1971	ICL CES Computer Education in Schools Computer Studies Book 1 Teacher's Package - Overhead Projector Visuals
43/352	1972	ICL CES Computer Education in Schools Computer Studies Activities and Case Studies - Book 1
43/353	1969	ICL CES Computer Education in Schools Book 1 - The Fundamentals of Computing
43/354		ICL CES Newsletters, nos: 36 - March 1981 39 - April 1982 40 - December 1982 41 - June 1982
43/355	2004	Digital Electronic Telegraph Message-Switching Systems by Standard Telephones & Cables Ltd,

1956-1979 by Hugh McGregor Ross

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|--------|------|---|
| 43/356 | 1975 | COMMUNICATIONS NETWORKS Papers presented at the European Computer Conference London, September 1975 |
| 43/357 | 1972 | COMPUTER COMMUNICATION - IMPACTS AND IMPLICATIONS The first international conference on Computer Communication Washington, 1972 Ed S. Winkler |
| 43/358 | 1978 | EVOLUTIONS IN COMPUTER COMMUNICATIONS Proceedings of the fourth international conference on computer communications Kyoto, 1978 Ed H. Inose |
| 43/359 | 1983 | Proceedings of the Twentieth Annual Computer Personnel Conference ACM SIGCPR |
| 43/360 | 1957 | IRE NATIONAL CONVENTION RECORD - Part 6 Component Parts Industrial Electronics Production Techniques New York |
| 43/361 | 1957 | IRE NATIONAL CONVENTION RECORD - Part 10 Engineering Management Reliability and Quality Control New York |
| 43/362 | 1958 | IRE NATIONAL CONVENTION RECORD - Part 6 Component Parts Industrial Electronics Production Techniques Reliability and Quality Control New York |
| 43/363 | 1960 | IRE NATIONAL CONVENTION RECORD - Part 6 Component Parts Industrial Electronics Production Techniques Reliability and Quality Control New York |
| 43/364 | 1958 | IRE WESCON - Convention Record Part 6 Component Parts Industrial Electronics Production Techniques Reliability and Quality Control |
| 43/365 | 1956 | Proceedings of the WESTERN JOINT |

		COMPUTER CONFERENCE San Francisco
43/366	1953	Proceedings of the EASTERN JOINT COMPUTER CONFERENCE Washington
43/367	1955	Proceedings of the EASTERN JOINT COMPUTER CONFERENCE Boston
43/368	1956	Proceedings of the EASTERN JOINT COMPUTER CONFERENCE New York
43/369	2004	The Essential Turing ed B. Jack Copeland Oxford
43/370		Numerical Control Appreciation By I.G. Dalton
43/371		Introduction to Computer Graphics, part 1 By A. Kilgour Lectures given on a course on On-line Computation and Computer-Aided Design Edinburgh, September 1970
43/372	1959	A Survey of Digital Computers Available in the U.K.
43/373	1959	A Survey of Digital Computers Available in the U.K. Ancillary equipment and appendices
43/374	1975	Department of Trade and Industry The Future of Real Time Technology - A report to the Computer Systems and Electronic Requirements Board.
43/375	1971	BCS Codasyl Database Task Group October 1971 Conference on April 1971 Report
43/376	1968	Department of Defense Computer Institute Computers and Data Processing - Expert Opinion Survey
43/377	1974	SHARE SSD #249 - SILT Presentation at SHARE XLIII
43/378	1976	US Department of Commerce/National Bureau of Standards NBS Special Publication 451: Data Base Directions - The Next Steps

43/379	1972	OECD Survey by F.J.M.Laver of the History of Computing
43/380	1972	IBM History of Computing in Europe Chronological Calendar of Events
43/381	1976	Professor Jack Good Early notes on Electronic Computers, covering notes and correspondence from 1947/48 onwards.
43/382	1965-69	Manchester Business School Computer Research Unit - collected published papers, mostly by Enid Mumford.
43/383	1961	US Army Ordnance Historical Monograph - Electronic Computers within the Ordnance Corps
43/384	1972	The ACM Ombudsman - #1
43/385	1973	The ACM Ombudsman - #2
43/386	1974	Spring The ACM Ombudsman - #3
43/387	1974	Summer The ACM Ombudsman - #4
43/388	1969-1971	HMSO Select Committee on Science and Technology (Sub-Committee D) Minutes of Evidence - 22 printed booklets
43/389	1971	Association for Computing Machinery Acm 71 - A quarter-century view: (a double-height, lavishly illustrated celebratory brochure)
43/390	1956	IEE Convention on Digital Computer Techniques Folder containing copies of papers
43/391	1965	ICT Systems Analysis and Design
43/392	1985	MOTOROLA MC68681 Dual Asynchronous Receiver/Transmitter (DUART)
43/393	1989	MOTOROLA M68000 Family Programmer's Reference Manual

43/394	1987	NATIONAL SEMICONDUCTOR CORPORATION Series 32000 Programmer's Reference Manual By Colin Hunter
43/395	1982	SYBEX Programming the 6809
43/396	1986	INTEL 80286 Operating Systems Writer's Guide
43/397	1990	MOTOROLA M68000 Family Reference
43/398	1991	MOTOROLA MC68000, MC68008, MC68010, MC68HC000 8-/16-/32-bit Microprocessors User's Manual
43/399	1990	INTEL I486 Microprocessor Hardware Reference Manual
43/400	1992	INTEL Intel 486 Microprocessor Family Programmer's Reference Manual
43/401	1985	INTEL Introduction to the iAPX 286
43/402	1987	VMEbus International Trade Association The VMEBUS Specification
43/403	1985	INTEL iAPX 86/88 , 186/188 User's Manual Hardware Reference
43/404	1986	INTEL iAPX 86/88 , 186/188 User's Manual Programmer's Reference
43/405	1983	INTEL iAPX 286 Hardware Reference Manual
43/406	1983	INTEL MULTIBUS 7 Architecture Reference Book
43/407	1985	INTEL CHMOS Components Handbook
43/408	1985	INTEL iAPX 286 Programmer's Reference Manual including the iAPX 286 Numeric Supplement
43/409	1988	INTEL Embedded Controller Handbook Volume I 8-bit
43/410	1987	INTEL Embedded Controller Handbook Volume II 16-bit

43/411	1983	McGRAW-HILL Introducing the Unix System By Henry McGilton & Rachel Morgan
43/412	1989	CANON LBP-8 Mark III R Laser Beam Printer Operator's Manual
43/413	1986	CHARTWELL-BRATT Communications Network Protocols (2 nd Edition) By Brian W. Marsden
43/414	1985	INTEL Microsystem Components Handbook Processors and Peripherals Volume I
43/415	1985	INTEL Microsystem Components Handbook Processors and Peripherals Volume II
43/416	1986	INTEL Product Guide
43/417	1987	INTEL Product Guide
43/418	1991	INTEL Intel 486 DX Microprocessor Preliminary Reference Manual
43/419	1992	INTEL Intel 486 DX2 Microprocessor Preliminary Reference Manual
43/420	1986	INTEL Introduction to the 80386 including the 80386 Data Sheet
43/421	1982	INTEL INTEL Multibus Specification
43/422	1980	10 th International Symposium on Industrial Robots 5 th International Conference on Industrial Robots Technology Proceedings
43/423	1987	TAB BOOKS INC 80386 - A Programming and Design Handbook
43/424	1980	The Institute of Management and Control Applications of Microprocessors in Devices for Instrumentation and Automatic Control

Items 43/425 to 43/435 notionally form part of the Beeching Archive

43/425	1967	IABG Einfall Mark - 1A Eine ZOR-Computersimulation für den Erdkampf (A Zor computer simulation for land warfare) (On shelf with Beeching Archive reference B21)
43/426	1968	Programming in MIRFAC Supplement No 1 By H.J. Gawlik (On shelf with Beeching Archive reference B22)
43/427	1967	Programming in MIRFAC 2 nd Edition By H.J. Gawlik and F.J. Berry (On shelf with Beeching Archive reference B23)
43/428	1973	Ship Operation Automation An IFAC IFIP Symposium Oslo (On shelf with Beeching Archive reference B24)
43/429	1975	Royal Institution of Naval Architects Symposium on the use of computers in shipboard automation London (On shelf with Beeching Archive reference B25)
43/430	1965	Information Processing 1965 New York City Proceedings Vol I (On shelf with Beeching Archive reference B26)
43/431	1965	Information Processing 1965 New York City Proceedings Vol II (On shelf with Beeching Archive reference B27)
43/432	1967	Computers and Automation (Reprint) Characteristics of General Purpose Digital Computers (On shelf with Beeching Archive reference B28)
43/433		An Introduction to A.T.L.A.S. (= Abbreviated Test Language for All Systems) (On shelf with Beeching Archive reference B29)
43/434	1963	Communications of the ACM (Reprint) A specification of Jovial (On shelf with Beeching Archive reference B30)

43/435	1962	Journal of the ACM (Reprint) Structure and use of ALGOL 60 By H. Bottenbruch (On shelf with Beeching Archive reference B31)
43/436	1956	IEE Convention on Digital-Computer Techniques Programme and Abstracts
43/437	1951	The Preparation of Programs for an Electronic Digital Computer with special reference to the EDSAC and the use of a library of subroutines By Maurice V. Wilkes, David J. Wheeler and Stanley Gill
43/438	1971	Compiling Techniques F.R.A. Hopgood
43/439	1971	Assemblers and Loaders D.W. Barron
43/440	1971	The Digital Computer - Part A First Principles ICL
43/441	1971	The Digital Computer - Part B A Primitive Computer ICL
43/442	1971	The Digital Computer - Part C Hardware ICL
43/443	1971	The Digital Computer - Part D Programming, Software, and the User ICL
43/444	1977	Microelectronics Scientific American
43/445	1935	A Tour of some representative English Offices, 23rd-26th September 1935. Office Management Association
43/446	1955	The scope for electronic computers in the office. Papers for the 1955 National Conference of the Office Management Association

**44 Technical and Operator's Manuals for Punched
Card Equipment**

These manuals were previously held in four 4-drawer and two 2-drawer filing cabinets. They have now been transferred into banker's boxes, while still supported in the hanging files used in their

previous home. Each box is numbered in the sequence 44/1 to 44/34. Within each box items are now labelled in one single sequence, ignoring the arbitrary division into hanging files.

44/1/1	1919	Powers Division of Remington Rand - Parts List and Instructions 45 col Auto-Printing Tabulator 60 cpm (cards per minute)
44/1/2	1924	Powers Division of Remington Rand - Parts List 45 col Lasker Sorter
44/1/3	1925	Powers Division of Remington Rand - Parts List 45 col Croydon Sorter
44/1/4	1925	Powers Division of Remington Rand 65 col Numerical Printing Punch
44/1/5	1932	Powers Division of Remington Rand - MMF (=Mechanical Movements and Functions) Direct Subtraction Mechanism on the 45 col Model 2 Tabulator Base
44/1/6	1932	Powers Division of Remington Rand - MMF Model 2 Tabulator Carriage
44/1/7	1933	Powers Division of Remington Rand - MMF Tabulator Designating Device on the Model 2 Tabulator
44/1/8		Powers Division of Remington Rand - MMF Tabulator Head - Improved Rear Drive Mechanism on the Model 2 Tabulator
44/1/9	1933	Powers Division of Remington Rand - MMF Interpreter 45/90 col
44/1/10	1931	Powers Division of Remington Rand - DMMF (Description and Mechanical Movements and Functions) Model 2 Tabulator
44/1/11	1933	Powers Division of Remington Rand - DMMF Automatic Sub and Grand Total Device (Standard model)
44/1/12	1933	1933 Powers Division of Remington

		Rand - DMMF Automatic Sub and Grand Total Device (Subtraction model)
44/1/13	1933	Powers Division of Remington Rand - DMMF Summary Card Punch Designation
44/1/14	1939	Powers Division of Remington Rand - DMMF Multi-Control Reproducer
44/1/15	1939	Powers Division of Remington Rand - Brochure Multi-Control Reproducing Punch
44/1/16	1939	Powers Division of Remington Rand - Operating Instructions Multi-Control Reproducing Punch
44/1/17	1942	Powers Division of Remington Rand - MMF Tabulating Card Punches
44/1/18	1934	Powers Division of Remington Rand - MMF New Ribbon Feed and Reverse Mechanisms for the Tabulating and Recording Punch
44/1/19	1934	Powers Division of Remington Rand - MMF Repeat Punching Mechanism for the Summary Card Punch
44/1/20	1934	Powers Division of Remington Rand - MMF Selective Sorting Device
44/1/21	1934	Powers Division of Remington Rand - MMF Key Punch Dual Receiving Magazine
44/1/22	1935	Powers Division of Remington Rand - MMF Bowden Wire Translator
44/1/23	1935	Powers Division of Remington Rand - MMF Sorter Pairing Device
44/1/24	1954	Powers Samas - Description and Maintenance Manual 65 col Restyled Summary Card Punch
44/1/25	1955	Powers Samas - Supplement to the Description and Maintenance Manual 65 col Restyled Summary Card Punch

44/1/26	1936	Powers Division of Remington Rand - Parts Price List Models 1 and 2 Tabulator
44/1/27	1932	Powers Division of Remington Rand - Parts Price List Models 1 and 2 Tabulator
44/2/1	1927	Ac & Tab PRODUCTION DEPT - Technical Instructions and Data (Manufacturing instructions for all Powers machines)
44/2/2	1925	Ac & Tab - Catalogue of Parts Alphabetical Unit of Automatic Printing Tabulator
44/2/3	1947	Powers Division of Remington Rand - Preliminary Specifications Model 3 Summary Card Punch Type 311
44/2/4	1929	Ac & Tab - Descriptions Special Devices and Attachments
44/2/5		Powers Division of Remington Rand - Operating Instructions Model 3 Alphabetical Punches
44/2/6		Powers Samas Powers Four Punching Instructions and Exercises
44/2/7		Powers G.M.B.H. - Illustrated Parts List in German Universal Automatic Key Punch
44/2/8	1947	Powers Division of Remington Rand MMF Universal Automatic Carriage for the Model 3 Tabulator
44/2/9	1948/9	Powers Division of Remington Rand - Specifications Manual All products and features (Includes many brochures)
44/2/10	1941	Powers Division of Remington Rand - MMF Alphabetical Card Interpreter Type 312
44/2/11	1938	Powers Division of Remington Rand - MMF Printing Multiplying Punch 6 x 6

44/2/12	1949	Powers Division of Remington Rand - MMF - Type 320 Sorter - Type 321 Counting Sorter - Reproducing Punch - 90 Column Sorter - Summary Card Punch
44/3/1	1928	Powers - Spare Parts Catalogue Punches and Miscellaneous
44/3/2	1928	Powers - Spare Parts Catalogue Tabulators
44/3/3	1949	Powers Tabulator Timing and Adjustments
44/3/4	1944	Powers - Parts Catalogue Sterling Multiplying Punch 36 and 65 col
44/3/5	1944	Powers - Parts Catalogue Sterling Multiplying Punch 36 and 65 col
44/3/6	1948	Powers Buff folder containing loose sheets of Tabulator Specifications. (Misleadingly labelled on cover 'Printing/Multiplying Punch Functional Description')
44/3/7	1951	Powers Samas Card Aligning for the 65 col Multiplying Punch
44/3/8	1946	Powers Samas Adjustments for the 36 and 65 col Sterling Multiplying Punches
44/3/9	1955	Powers Samas Multiplying Punch Conversion from 5 x 3 to 4 x 4 working
44/3/10	1954	Powers Samas Adjustments and Timing Card Aligning Feature on the 40 col Multiplying Punch
44/3/11	1953	Powers Samas - Preliminary Instruction Book and Catalogue Master Rate Card Feature 36, 40 and 65 col Multiplying Punch
44/3/12	1949	Powers Samas - Preliminary

		Description 40-sector alphanumeric unit for use with Summary Card Punch
44/3/13	1948	Powers Samas Unit Card Billing for Powers Four Tabulator
44/3/14	1955	Powers Samas 18" Simple Pinwheel Carriage to line space at pitch of 5/32"
44/3/15	1955	Powers Samas Space before Total with non-space after Total for 65 col Tabulator
44/3/16	1955	Powers Samas Advance Control of Long Feed for 65 col Tabulator
44/3/17	1954	Powers Samas - Fitting Instructions Electric Long Feed on 3-unit Tabulator
44/3/18	1954	Powers Samas Platen Retaining Device
44/3/19	1955	Powers Samas - Fitting Instructions Sheet Feed Attachment and Sheet Length Control
44/3/20	1953	Powers Samas Instructions for aligning 65 Col Summary Card Punch with a Tabulator
44/3/21	1954	Powers Samas Card Aligning Feature on the 65 col Cross-Adding Punch
44/3/22	1954	Powers Samas Alpha-Numerical Designation in Grand Total Summary Cards for Tabulators fitted with 32-character old-style alphanumeric units
44/3/23	1953	Powers Samas Advance Control Unit for 65 col Intersensing Tabulators
44/3/24	1952	Powers Samas Head Raising Lock for 65 col 7- and 8-unit Tabulators Fitting Instructions
44/3/25	1955	Powers Samas Modifications to Auto-Accumulative Total Feature

		Control Unit on 65/80 col Restyled Tabulators.
44/3/26	1954	Powers Samas Tabulator Indicator Sector to print farthings
44/3/27	1953	Powers Samas Old Style Bowden Cable Connection Box for Printing Machine Maintenance Instructions
44/3/28	1954	Powers Samas Retracting Spreader Box for 65 col Printing Machine Fitting Instructions
44/3/29	1938	Powers Samas 65 Column Sorter Illustrated Parts List
44/3/30	1955	Powers Samas Progressive Total Print Control for the Cross Adding Punch
44/3/31	1955	Powers Samas Bank Note Checking Machine
44/3/32	1955	Powers Samas Paper Numbering Machine
44/3/33	1953	Powers Samas 65 col Addressing Machine Control Unit Parts List
44/3/34	1960	Powers Samas Sensing Units for 21, 40, 65, and 80 col Addressing Control Machines
44/3/35	1948	Powers Samas 36 col Side View U.A.K.P. Description and Parts List
44/3/36	1955	Powers Samas Circuit Diagrams of Electronic Connection Boxes of B1 and B2 EMPs
44/3/37	1953	Powers Samas Colour Coding of Resistors and Unistors
44/3/38	1950	Powers Samas Instruction Manual on Electrical Wiring on North American Exhibition Machines
44/3/39	1958	Powers Samas Samastronic Card Reader for the EMI Computer

		supplied to the British Motor Corporation
44/3/40	1937	Powers Samas Tabulator - Special Total-Taking Methods
44/3/41	1939	Powers Samas Designation Indicator for Standard and Powers-Four Tabulators
44/3/42	1954	Powers Samas Variations of Direct Subtraction
44/3/43	1934	Powers Samas Locked Pin Box Tabulator
44/3/44	1937	Powers Samas Variable Control for Standard and Powers-Four Tabulators
44/3/45	1948	Powers Samas Indian Currency Unit
44/3/46		Powers Samas Tabulator - Two-speed Drive
44/3/47	1933	Powers Samas - Fitting Instructions Powers Four - Variations of Direct Subtraction
44/4/1		Powers Samas - Provisional Parts List 65 col Multi Printing Counting Sorter
44/4/2		Powers Samas - Parts List Powers-One Sorter
44/4/3	1947	Powers Samas - Preliminary Description Tumbled Cards and Powers-One Machines
44/4/4	1952	Powers Samas - Conversion Instructions New Style I.S.D.D. Master for 5-unit Tabulators
44/4/5	1956	Powers Samas - Preliminary Instructions 40 col Tape to Card Translator
44/4/6	1954	Powers Samas - Fitting Instructions Paper Trimming Feature - 40 and 65 col Tabulators

44/4/7	1956	Powers Samas - Special Invoice for Leicester Lovells Ltd Card-Controlled Summary Card Punching with Card-Operated Alpha Sensing
44/4/8		1954 Powers Samas - Circuit Diagrams 40 col B2 Electronic Multiplying Punch
44/4/9	1955	Powers Samas - Instruction Book Input & Output Unit of 40 and 65 col EMP (B1 and B2)
44/4/10	1957	Powers Samas - Specifications The All Noughts Feature - B2 EMP
44/4/11	1956	Powers Samas - Specifications Straight Reproducing Feature
44/4/12	1955	Powers Samas - Specification Cross-Add/Multiply and Special Rounding-Off Feature on B2 EMP for French National Railways.
44/4/13	c1955	Powers Samas - Operator's Manual Restyled Front Feed Tabulator
44/4/14	1954	Powers Samas - Specification True Grand Total - Restyled 65 col Tabulator
44/4/15	1946	Powers Samas - Specification Two-Stage Sensing Device - 65 col Tabulator
44/4/16	1956	Powers Samas - Fitting Instructions Intersensing Feature B30900 - 65 col Tabulator
44/4/17	1956	Powers Samas - Specification Modifications to restyled Tabulator for 90 card per minute
44/4/18	1959	Powers Samas - Specification 65 col Intersensing Equipment - Department of Statistics, Lagos
44/4/19	1951	Powers Samas - Preliminary Instruction Book 40-sector Alphanumerical Unit for use with Summary Card Punch

44/4/20	1954	Powers Samas - Preliminary Instruction Book 65 col Restyled Tabulator
44/4/21	1956	Powers Samas - Specification Prototype 65 col Hand-Operated Parallel Sensing Unit
44/4/22	1958	Powers Samas - Parts List Samastronic Independent Print Head for LEO Computer
44/4/23	1948	Powers Samas - Instruction Book McClure Multiplying Punch
44/4/24	1960	Powers Samas - General Info & Mechanical Description SAMASTRONIC Tabulator
44/4/25	1959	Powers Samas - Instruction Book - Electrical Description Vol I SAMASTRONIC Tabulator
44/4/26	1959	Powers Samas - Instruction Book - Electrical Description Vol II SAMASTRONIC Tabulator
44/4/27	1960	Powers Samas - Instruction Book - Maintenance Info SAMASTRONIC Tabulator
44/4/28	1960	Powers Samas - Instruction Book - Supplement SAMASTRONIC Tabulator
44/4/29	1959	Powers Samas - Instruction Book Standard Independent SAMASTRONIC Print Head
44/4/30	1957	Powers Samas - Provisional Engineering Specification Standard Independent SAMASTRONIC Print Head
44/4/31	1958	Powers Samas - Instruction Book - Book 14, Maintenance Info SAMASTRONIC Printing Machine
44/5/1	1959	Powers Samas - Instruction Book SAMASTRONIC Independent Print Head as fitted to EMI Computer
44/5/2	1959	Powers Samas - Instruction Book SAMASTRONIC Independent Print Head

as fitted to Ferranti Perseus

44/5/3	1956	Powers Samas - Instruction Book SAMASTRONIC Double 65 or 80 col Printer
44/5/4	1959	Powers Samas - Instruction Book SAMASTRONIC Tabulator as supplied to the Bank of England
44/5/5	1959	Powers Samas - Fitting Instructions Category 1 Mods for SAMASTRONIC Printers and Tabulators
44/5/6	1960	Powers Samas - Instruction Book SAMASTRONIC Summary Card Punch 65 & 80 col
44/5/7	1959	Powers Samas - Operating Handbook Lamson Paragon Controlled Carbon Feed Feature on SAMASTRONIC
44/5/8	1958	Powers Samas - Description SAMASTRONIC Accumulator Units
44/5/9	1954	Powers Samas - Instruction Book True Grand Total - Restyled 65 col Tabulator
44/5/10	1955	Powers Samas - Instruction Book Supplement to True Grand Total - Restyled 65 col Tabulator
44/5/11	1955	Powers Samas - Instruction Book Supplement to Restyled Tabulator
44/5/12	1956	Powers Samas - Instruction Book Special 65 col Tape to Card Translator (Steel Co. Of Wales)
44/5/13	1954	Powers Samas - Instruction Book 36 col serial punching and numbering machine
44/5/14	1953	Powers Samas - Instruction Book Comparing Two Unit Settings, 65 col Summary Card Punch
44/5/15	1953	Powers Samas - Instruction Book Intersensing Feature with Reverse

		Feed for 65 col Tabulato
44/5/16	1954	Powers Samas - Instruction Book Auto Card Printing Feature - 65 col Printing Machine
44/5/17	1954	Powers Samas - Instruction Book High Speed Adding Machine (Prudential)
44/5/18	1954	Powers Samas - Instruction Book Electric Long Feed Feature
44/5/19	1956	Powers Samas - Instruction Book Comparing Feature with Auto Long Feed - High Speed Printing M/C
44/5/20	1955	Powers Samas - Instruction Book Advance Control of Carriage Feed and Long Feed by change of designation - 40 col Tabulator
44/5/21	1955	Powers Samas - Instruction Book High Speed Adding Punch
44/5/22	1955	Powers Samas - Instruction Book Pneumatic Sensing Machine
44/5/23	1959	Powers Samas - Servicing Manual Vol I Programme Controlled Computer
44/5/24	1957	Powers Samas - Fitting Instructions Intersensing Feature on 65/80 col Cross-Adding Punch (Restyled)
44/5/25	1956	Powers Samas - Parts List 65 & 80 col P.C.C. Input and Output Unit
44/5/26	1960	Powers Samas - Description 65 & 80 col P.C.C. Input and Output Unit
44/5/27	1956	Powers Samas - Maintenance Info 65 & 80 col P.C.C. Input and Output Unit
44/6/1	1957	Powers Samas - Description 65/80 col U.A.K.P with Features
44/6/2	1959	Powers Samas - Instruction Book

		65/80 col Restyled Hand Punch with Intersensing
44/6/3	1951	Powers Samas - Instruction Book 65 col Universal Printing Counting Sorter
44/6/4	1951	Powers Samas - Adjustments and Instructions for Lubrication 65 col Universal Printing Counting Sorter
44/6/5	1952	Powers Samas - Instruction Book Special Features on 65 col Universal Printing Counting Sorter
44/6/6	1953	Powers Samas - Preliminary Instruction Book 40 col Tape to Card Translator
44/6/7	1958	Powers Samas - Instruction Book 65 and 80 col Tape to Card Translator
44/6/8	1959	Powers Samas - Instruction Book 21 col Tape to Card Translator
44/6/9	1957	Powers Samas - Instruction Book 65 col Tape to Card Translator
44/6/10	1953	Powers Samas - Preliminary Instruction Book 40 col Tape to Card Translator
44/6/11		Powers Samas - Instruction Book Intersensing Feature on 65 and 80 col Tape to Card Translator
44/6/12	1958	Powers Samas - Instruction Book Tape Ignore Feature 21, 40, 65, 80 col Tape to Card Translator
44/6/13	1958	Powers Samas - Instruction Book Ten Shilling Delay Feature 21, 40, 65, 80 col Tape to Card Translator
44/6/14	1952	Powers Samas - Instruction Book 65 col Printing Machine
44/6/15	1957	Powers Samas - Instruction Book Auto Route Conveyor (Lotus) 40 col
44/6/16	1956	Powers Samas - Instruction Book Double Posting Sheet Feed

		Attachment 40 col Tabulator
44/6/17	1956	Powers Samas - Instruction Book Modified Roller Clutches for Tabulator Setting Cams and S.C.P.s
44/6/18	1955	Powers Samas - Instruction Book Select Subtraction Unit 40 col Tabulator
44/6/19	1955	Powers Samas - Instruction Book Double Posting Sheet Feed Feature for 7- and 8-unit Tabulators
44/6/20	1951	Powers Samas - Instruction Book Special Features - War Office Tabulator
44/6/21	1950	Powers Samas - Instruction Book Detachable Triple Ribbon Feature 7- and 8-unit Tabulators
44/6/22	1947	Powers Samas - Instruction Book Grand Total Independent Sector Designating Device
44/6/23	1957	Powers Samas - Instruction Book 40 col Mark Sensing Punch
44/6/24	1936	Powers Samas - Instruction Book Summary Card Punch Adjustments - 4/5-unit and 7-unit
44/6/25	1938	Powers Samas - Parts List Powers- One Tabulator - Base and Adding Head
44/6/26	1957	Powers Samas - Fitting Instructions Increased Speed Modifications - 65/80 col Restyled Tabulator
44/6/27	1958	Powers Samas - Instruction Book Sequence Checking & Selective Sorting Features 80 col Interpolator
44/6/28	1960	Powers Samas - Instruction Book Stop after Accumulative Total - 40 col Tabulator

44/6/29	1959	Powers Samas - Instruction Book Modifications to Powers 4/5 unit Tabulator
44/6/30	1958	Powers Samas - Instruction Book Modified Roller Clutches for 40 col Tabulator Setting Cams and S.C.P.s
44/6/31	1958	Powers Samas - Instruction Book Adjustments - Sheet Length Control 65/80 col Restyled Tabulator
44/6/32	1956	Powers Samas - Instruction Book Two Speed Pulley Device with Double Posting Sheet Feed - 40 col Tabulator
44/6/33	1955	Powers Samas - Tools and Fixtures Bowden Wire Connection Box.
44/6/34	1957	Powers Samas - Supplementary Drawings Bowden Wire Connection Box
44/6/35	1957	Powers Samas - Description Bowden Wire Connection Box
44/6/36	1957	Powers Samas - Description Long Feed (Fractional) 65/80 col Restyled Tabulator
44/6/37	1957	Powers Samas - Description Connection Box Universal Eliminating Device
44/6/38	1957	Powers Samas - Description Type B Total Mechanism 65/80 col Restyled Tabulator
44/6/39	1955	Powers Samas - Description 65 and 80 col Reproducing Punches
44/6/40	1954	Powers Samas - Description 65 col Selective Reproducing and Checking Punch
44/6/41		Powers Samas - Provisional Operating Instructions Restyled Reproducer (large size cards)

44/6/42	1959	Powers Samas Card Gauge Instructions 65 and 80 col card
44/6/43	1949	Powers Samas - Instruction Book Folded Cards - Machine Adjustments
44/6/44	1951	Powers Samas 40 col Card information
44/6/45	1944	Powers Samas - Instruction Book 65 col Cross Adding Punch
44/6/46	1954	Powers Samas - Provisional Instruction Book 65 col Cross Adding Punch
44/7/1	1952	Powers Samas - Maintenance Manual All 40 col range
44/7/2	1952	Powers Samas - Maintenance Manual 21 col - Machine Features
44/7/3	1950	Powers Samas - Service Manual
44/7/4	1952	Powers Samas - Maintenance Manual All 21 col range
44/7/5	1954	Powers Samas - Provisional Instruction Book Mark Sensing Machine
44/7/6	1958	Powers Samas - Instruction Book 65 col Hand-Operated Parallel Input Unit Mk II
44/7/7	1958	Powers Samas - Instruction Book 65 col Automatic Parallel Input Unit Mk II
44/7/8	1959	Powers Samas - Instruction Book 65 col Hand-Operated Parallel Input Unit AA650
44/7/9	1945	Powers Samas - Machine Instruction Book 21 col Serially Numbering Gang Punch
44/7/10	1959	Powers Samas - Servicing Manual Vol II Programme Controlled Computer

44/7/11	1959	Powers Samas - Machine Manual SAMASTRONIC Tabulator
44/7/12	1958	Powers Samas - Instruction Book SAMASTRONIC Printing Machine Bk I - General info and Mechanical Description
44/7/13	1930	Powers - Parts List 45 col S.S. Sorter
44/7/14	1933	Powers - Parts List Model G. Sorter
44/7/15	1929	Powers - Instruction Book Croydon Sorter 3-bank Multiple Counting Attachment
44/7/16	1931	Powers - Instruction Book Printing Multiple Counting Sorter
44/7/17	1929	Powers - Parts List Multiple Counting Attachment for Lasker Sorter
44/7/18	1929	Powers - Parts List Full Column Counting Attachment Sorter
44/7/19	1930	Powers - Instruction Book 45/90 Interpreter Unit for the Sorter
44/7/20	1952	Powers Samas - Parts List 21 col Sorter
44/7/21	1955	Powers Samas - Parts List 21 col Sorter and Various Features
44/7/22	1953	Powers Samas - Parts List 36/40 col Sorter and Various Features
44/7/23	1959	Powers Samas - Parts List 40 col Sorter and Various Features
44/7/24	1952	Powers Samas - Parts List 65 col Sorter
44/7/25	1954	Powers Samas - Parts List 65/80 col Sorter and Various Features
44/8/1	1955	Powers Samas - Maintenance Commentaries All col ranges - Info for Service Personnel

44/8/2	1955	Powers Samas - Parts List 21 col Automatic Key Punch
44/8/3	1960	Powers Samas - Parts List Reproducing Feature - 40 col Universal Automatic Key Punch
44/8/4	1952	Powers Samas - Parts List 36/40 col Universal Automatic Key Punch
44/8/5	1955	Powers Samas - Parts List 65/80 col Hand Punches
44/8/6	1939	Powers Samas - Parts List 65 col Universal Automatic Key Punch
44/8/7	1960	Powers Samas - Parts List Restyled Automatic Key Punch 65/130, 80/160 col
44/8/8	1956	Powers Samas - Parts List 65/80 col Universal Automatic Key Punch
44/8/9	1953	Powers Samas - Parts List 65 col Universal Automatic Key Punch
44/8/10	1955	Powers Samas - Parts List 65/80 col Intersensing Hand Punches
44/8/11	1954	Powers Samas - Parts List 65 col Interpreter
44/8/12	1955/60	Powers Samas - Instruction Book 65/80 col Posting Interpreter with Features
44/8/13	1951	Powers Samas - Parts List 40 col Interpreter
44/8/14	1952	Powers Samas - Instruction Book 40 col 40 character alphanumeric Summary Card Punch
44/8/15	1952	Powers Samas - Parts List Special Parts on 5-, 7-, & 8-unit and 40 col 40 character alphanumeric Summary Card Punch Tabulators
44/8/16		Powers Samas - Operator's Manual Summary Card Punch 40 col 40 character

44/8/17	1955	Powers Samas - Parts List 21, 36, 40 col Reproducing Punches
44/8/18	1958	Powers Samas - Parts List 65/80 Desk Reproducer
44/8/19	1954	Powers Samas - Parts List 65 col Interpreter
44/8/20		Powers Samas - Provisional Operating Instructions Electrical Sequence Checking and other special features on the Restyled Interpolator
44/8/21	1955	Powers Samas - Instruction Book Electro-Mechanical Sequence Checking and 4 x 4 Pin Box Feature 65/80 Interpolator
44/8/22	1932	Powers - Instruction Book Automatic Verifying Machine
44/8/23		Powers - Operator's Manual 21 and 40 col Automatic Verifier
44/8/24		Powers - Operator's Manual 65 and 80 col Automatic Verifier
44/8/25	1955	Powers Samas - Parts List 80 col Hand Verifier
44/8/26	1950	Powers Samas - Parts List & Instruction Book 65 col Auto Verifier
44/8/27	1939	Powers Samas - Instruction Book Avoirdupois Unit
44/8/28	1939	Powers Samas - Instruction Book Indian Currency Unit
44/8/29	1939	Powers Samas - Instruction Book Indian Currency Unit with 1947 modifications for Cypriot currency
44/8/30		Powers Samas - Operator's Instructions Powers-One range
44/8/31		Powers Samas - Operator's Instructions Powers Samas 'One'

Equipment

44/8/32		Powers Samas - Installation and Adjustment Instructions Powers-One Tabulator
44/8/33		Powers Samas - Preliminary Parts List 21 col Addressing Machine control units
44/8/34	1958	Powers Samas - Parts List Card Repairing Machine. (Familiarly known as 'The Winkle's Eye')
44/8/35	1959	Powers Samas - Parts List Swift Card Cutting Machines
44/8/36	1958	Powers Samas - Parts List Electrical and Electronic Components
44/8/37	1956	Powers Samas - Parts List Carbon Ribbon Feature 3-, 5-, 7- and 8-unit Tabulators
44/8/38	1953	Powers Samas - Parts List Sheet Feed Feature 7- and 8-unit Tabulators
44/8/39	1953	Powers Samas - Parts List Variable Control Feature 5- 7- and 8-unit Tabulators
44/8/40	1952	Powers Samas - Parts List Pinwheel Long Feed Feature 7- and 8-unit Tabulators
44/8/41	1956	Powers Samas - Parts List Paper Trimming Feature 5-, 7- and 8-unit Tabulators
44/9/1	1956	Powers Samas - Preliminary Parts List 65/80 col E.M.P. (Electronic Multiplying Punch)
44/9/2	1956	Powers Samas - Preliminary Parts List 40 col E.M.P.
44/9/3	1955	Powers Samas - Parts List 65/80 col E.M.P. Input/Output Unit

44/9/4	1955	Powers Samas - Parts List 36/40 col E.M.P. Input/Output Unit
44/9/5	1953	Powers Samas - Preliminary Instruction Book All column ranges E.M.P. Master Rate Card
44/9/6	1953	Powers Samas - Operator's Manual All column ranges E.M.P.
44/9/7	1948	Powers Samas - Parts List 65 col Tabulator Base
44/9/8	1956	Powers Samas - Parts List 65/80 col Tabulator Base
44/9/9	1957	Powers Samas - Parts List 65/80 col Tabulator Head
44/9/10	1956	Powers Samas - Parts List 65/80/col Tabulator Head Raising Jack
44/9/11	1959	Powers Samas - Parts List 40 col Tabulator
44/9/12	1952	Powers Samas - Parts List 4, 4/5, standard and wide Tabulator Head
44/9/13	1955	Powers Samas - Parts List 40 col Tabulator Base
44/9/14	1951	Powers Samas - Parts List 40 col Summary Card Punch
44/9/15	1953	Powers Samas - Parts List 40 col Summary Card Punch Alpha/Numerical
44/9/16	1951	Powers Samas - Parts List 65 col Summary Card punch
44/9/17	1953	Powers Samas - Parts List 65/80 col Summary Card Punch
44/9/18		Powers Samas - Operator's Manual 36/40 col Tabulator
44/9/19		Powers Samas - Operator's Manual Tabulator Sheet Feed
44/9/20	1956	Powers Samas - Operator's Manual Tabulator Double Posting Sheet

Feed

44/9/21	1949	Powers Samas - Operator's Manual Tabulator Long Feed Pin Wheel
44/9/22		Powers Samas - Operator's Manual 40 col Tabulator
44/9/23		Powers Samas - Operator's Manual Auto-Compensating Long Feed Attachment
44/9/24	1946	Powers Division of Remington Rand - Parts List Tabulator
44/10/1	1934	Acc and Tab - Parts Price List Summary Card Punch
44/10/2	1931	Acc and Tab - Parts Price List Sorter
44/10/3	1933	Acc and Tab - Parts Price List Interpreter
44/10/4	1950	Powers Samas - Parts List Powers Three Tabulator
44/10/5	1940	Powers Division of Remington Rand Mechanical Instruction Manual Book 6
44/10/6	1928	Powers Division of Remington Rand Mechanical Instruction Manual Book 7
44/10/7	1940	Powers Samas - Operator's Manual Auto-Compensating Long Feed Attachment
44/10/8	1950	Powers Samas - Sales Brochure Spot Punch
44/10/9	1929	Powers - Engineering Description Automatic Total Attachment (ATA)
44/10/10	1933	Powers - Engineering Description Subtraction Type D for Tabulator
44/10/11	1947	Powers Samas - Engineering Description General Technical Information

44/10/12		British Tabulating Machine Co - Mechanical Service Manual Senior Rolling Total Machine
44/10/13		British Tabulating Machine Co - Mechanical Service Manual Senior Rolling Total Tabulator with Continuously Rotating Shaft
44/10/14	1951	BTM - Mechanical Service Manual Senior Continuously Rotating Shaft Rolling Total Tabulator with modifications for Alpha listing during control cycles with universal carriage and continuous stationery
44/10/15	1958	BTM - Field Engineering Manual Senior and Junior Rolling Total Tabulators and E6/6 Tabulator Sterling/Weights (Alternative) Counter
44/10/16		BTM - Mechanical Services Manual Senior Rolling Total Tabulator - Machine Adjustments and miscellaneous engineering and circuit diagrams
44/10/17	1956	BTM - Technical Description Type 365 Collator Ducol Feature for F.E.L.F. Singapore
44/10/18	1948	BTM - Parts List Collator 077
44/10/19	1956	BTM - Engineering Manual Alphabetical Collators 368 and 365
44/11/1	1935	BTM - Historical Instruction Manual Punched-Hole Accounting
44/11/2	1953	BTM - Marketing Information Competitive and Allied Equipment Manual
44/11/3	1922	BTM - Salesman's Handbook
44/11/4	1941	BTM - Development of the Hollerith Tabulating Machine
44/11/5	1937	BTM - Technical Instruction Sheets

44/11/6	1950	BTM - Technical Instruction Sheets
44/11/7	1951	BTM - Operator's Reminders
44/11/8	1947	BTM - Instruction and Information Manual Business Efficiency Exhibition October 1947
44/11/9	1957	BTM - Hollerith Manual
44/11/10	1937	BTM - Instruction Manual Alphabetical Printing Duplicating Punch
44/11/11	1947	BTM - Instruction Manual Horizontal Sorting Machine
44/11/12	1947	BTM - Instruction Manual Horizontal Sorting Machine (duplicate copy)
44/11/13	1950	BTM - Operator's Manual Collator
44/11/14	1948	BTM - Operator's Manual Comparing Reproducing Punch
44/11/15	1938	BTM - Operator's Manual 80 - 38 col Reproducer
44/11/16		BTM - Operator's Manual Alphabetical Interpreter
44/11/17	1952	BTM - Operator's Manual Types 401 and 402 Numerical and Type 416 Alphanumerical Interpreter
44/11/18	1953	BTM - Mechanical Service Manual Census Equipment Type 334
44/11/19	1948	Scientific Paper An Experiment in Mechanical Searching for Compositions of Matter
44/11/20	1956	BTM - Technical Description Type 302/4 Card Counting Sorter with Group Selection and Ducol for F.E.L.F. Singapore
44/11/21	1953	BTM - Correspondence and Circuit Diagrams Two Deck Card Sorting

44/11/22	1953	BTM - Scientific Paper Two Deck Card Sorting
44/11/23	1946	BTM - Handbook Card Sorting
44/11/24	1952	BTM - Engineering Manual Type 805 Tabulator (E6/6)
44/11/25		BTM - Operator's Manual Quick Set Statement Devices - E6/6 Tabulator
44/11/26	1950	BTM - Engineering Manual Type 805 Tabulator (E6/6) - Addendum
44/11/27		BTM - Engineering Manual E6/6 Tabulator
44/11/28	1934	BTM - Instruction Manual - Book A Rolling Total Tabulator
44/11/29	1935	BTM - Instruction Manual - Book B Rolling Total Tabulator
44/11/30		BTM - Engineering Manual Rolling Total Machine Adjustments
44/11/31		BTM - Operator's Manual Senior Rolling Total Tabulator Types 852 and 853
44/11/32	1951	BTM - Operator's Manual Quick Insert Device combining Entry Control
44/11/33	1957	BTM - Operator's Manual Type 587 Tabulator and Type 582 Gang Punch
44/11/34	1946	BTM - Operator's Notes RAF Reminders
44/11/35		BTM - Operator's Notes Card Punching
44/11/36	1951	BTM - Operators' Handbook Card Punching and Verifying
44/11/37	1959	BTM - Operator's Handbook Card Sorting
44/11/38	1951	BTM - Hollerith Computing Services Information Digest A series of papers covering;

- Electronic Digital Computers =
Arithmetical Processes
- Binary Arithmetic
- More Binary
- The Meaning of Electronics
- Further Notes on Valves
- Basic Computer Circuits
- A Simple Computer
- Storage Methods
- A Typical Computer
- Lecture Notes on HEC

44/12/1	1958	BTM Technical Information Wire Contact Relays - 10 foolscap pages with interspersed graphs
44/12/2	1958	BTM Technical Information Category 3, 4, 5 & 6 Relay Assemblies (Supplementary to Engineering Standard 3/11)
44/12/3	1955	BTM Technical Information Engineering Standards Vol3 - Commercial and Standard Parts
44/12/4	1956	BTM Technical Information Sheets
44/12/5	1937	BTM Technical Information Sheets
44/12/6	1919	The Tabulating Machine Co, New York Supplement No 1 to Manual for Servicemen - Model 3 Tabulator - Universal Split for Sorter
44/12/7	1949	BTM Servicing of Hollerith machines - Tabulators
44/12/8	1954	BTM Parts List Punches and Verifiers
44/12/9	1951	BTM Type 103 (80 col) and Type 104 (38 col) Mechanical Verifiers
44/12/10	1947	BTM English Non-Printing Sorter Counter
44/12/11	1959	ICT Operator's Manual Type 555 Calculator with Type 240 Gang Punch

44/12/12	1958	BTM Operator's Manual Type 555 Calculator with Type 240 Gang Punch
44/12/13	1957	BTM Field Engineering Manual Type 555 Calculator
44/12/14	1957	BTM Engineering Notes HEC 4 Ancillaries 582 and 587
44/12/15	1932	BTM Mechanical Service Manual - Parts Catalogue IBM Multiplying Punch
44/12/16	1932	BTM Mechanical Service Manual Cross-Footing Device Supplement to the booklet on the American Multiplying Punch
44/12/17	1956	BTM Field Engineering Manual Senior Rolling Total Tabulator C.R.S.
44/12/18	1952	BTM Senior Rolling Total Tabulator - Single-Card List & Multi-Card Tab
44/12/19	1951	BTM Senior Rolling Total Tabulator - Three-Zone Alpha Unit
44/12/20	1952	BTM Mechanical Service Manual Senior Rolling Total Tabulator - Storage Unit
44/12/21	1949	BTM Operating Manual Senior Rolling Total Tabulator - Storage Unit
44/12/22	1956	BTM Field Engineering Manual Senior Rolling Total Tabulator - Storage Unit
44/12/23	1952	BTM Mechanical Service Manual Pension Book Printing Tabulator
44/12/24	1939	BTM Mechanical Service Manual Junior Rolling Total Tabulator - Ledger Posting & Line-Finding Device
44/12/25	1955	BTM Field Engineering Manual Type

		901 Tabulator
44/12/26	1958	BTM Field Engineering Manual Type 906 Tabulator
44/12/27	1957	BTM Programmer's Guide Type 1201 Computer
44/12/28	1957	BTM Technical Notes by D. Ash 7082 Print Unit
44/12/29	1957	1957 BTM Programmer's Guide Type 1201 Computer
44/12/30	1955	BTM Programmer's Guide HEC 2M with Print Output
44/12/31	1955	BTM Functional Specification Type 561 Computer and HEC 4E Experimental Model
44/12/32	1955	BTM Field Engineering Manual HEC 2M Electronic Computer Type 560
44/12/33	1957	BTM Field Engineering Manual Type 1201 Computer
44/12/34	1956	BTM Field Engineering Manual Type 504 Multiplying Punch
44/12/35	1951	BTM Mechanical Service Manual Type 504 Multiplying Punch
44/12/36	1952	BTM Operator's Manual Type 504 Sterling Multiplier
44/13/1	1957	BTM Field Engineering Manual Interpreter Types 400 - 499
44/13/2	1952	BTM Field Engineering Manual Types 401, 402 & 416 Interpreters
44/13/3	1952	BTM Operating Manual Types 418 and 419 Interpreters
44/13/4	1955	BTM Field Engineering Manual Type 43 Wire Printing Interpreter
44/13/5	1957	BTM Hollerith Manual of Machines and Equipment

44/13/6	1959	ICT Operator's Manual Types 32 and 32 Keystor Punches & Type 29/2 Automatic Key Punch
44/13/7	1953	BTM Field Engineering Manual Type 31 Keystor Punch
44/13/8	1937	BTM Engineering Data Sheet Single Column Pence Translator
44/13/9	1957	BTM Parts List Type 901A Tabulator and Auxiliary Units - Section R - Multi Read Feed - Section V - Brush Sensing Statement
44/13/10	1956	BTM Parts List Type 901 Tabulator - Section D - Feed Unit - Section E - Print Unit - Section F - Drive Unit
44/13/11	1957	BTM Parts List Type 901 Tabulator - Section C - Base Assemblies
44/13/12	1957	BTM Parts List Type 901 Tabulator - Section C - Carriage Drive Unit - Section H - Carriage - Section J - Plate Relays (Servo) - Section K - Plate Counter - Section M - Relay Cabinets
44/13/13	1956	BTM Parts List Type 237 Pre-Reading Gang Punch
44/13/14	1948	BTM Operator's Manual 80 - 38 column Reproducer
44/13/15	1948	BTM Operator's Manual Comparing Reproducing Punch
44/13/16	1948	BTM Parts List Type 513 Reproducer
44/13/17	1955	BTM Parts List cType 202 High Speed Reproducer
44/13/18	1954	BTM Parts List Type 234 Gang Punch
44/13/19	1957	BTM Parts List Type 238/0 Gang Punch

44/13/20	1958	BTM Parts List Type 240 Gang Punch
44/13/21	1955	BTM Circuit Diagrams Type 239 Pre-Reading Gang Punch
44/13/22	1954	BTM Operator's Manual Type 237 Pre-Reading Gang Punch
44/13/23	1956	BTM Parts List Type 413 Wire Interpreter
44/13/24	1956	BTM Parts List Types 418 & 419 Wire Interpreters
44/13/25	1956	BTM Parts List Type 414 Transfer Interpreter
44/13/26	1956	BTM Wiring Diagram Ducol Feature for F.E.L.F. Singapore
44/13/27	1954	BTM Parts List Mechanical Key Punches Types 1/ Mechanical Verifiers Types 100/
44/13/28	1953	BTM Parts List Type 103 Mechanical Verifier 80 col
44/13/29	1958	BTM Parts List Type 129 Programme Board Verifier
44/13/30	1958	BTM Parts List Type 31 Keystor Punch
44/13/31	1957	BTM Parts List Type 32 Automatic Punch
44/13/32	1957	BTM Parts List Key Unit Assemblies
44/13/33	1953	BTM Parts List Type 302/4 Sorter Counter 80 col
44/13/34	1958	BTM Parts List Horizontal Sorter - Group Selection with Balance Card Reject
44/13/35	1956	BTM Parts List Type 331 Non-Printing Card Counting Machine
44/13/36	1955	BTM Parts List Standard Carriage

		with Quick Insert Device
44/13/37	1954	BTM Parts List Senior C.R.S. 80 col Feed 910171
44/13/38	1954	BTM Parts List Senior Rolling Total Tabulator Multi-Read Feed
44/13/39	1953	BTM Parts List Type 708 Plate Selecting Tabulator (Adrema)
44/13/40	1953	BTM Parts List Junior and C.R.S. Machines Lower and Upper Counter 11 Wheel (f.s.d.)
44/13/41	1953	BTM Parts List Senior Rolling Total Tabulators Double Alpha Type Unit Assembly 44-Wheel (R.A.F. machines)
44/13/42	1951	BTM Parts List Carriage Universal Drive
44/13/43	1953	BTM Parts List Card Stacker Assembly (Standard)
44/13/44	1950	BTM Parts List Universal Type Unit
44/13/45	1950	BTM Parts List Storage Device
44/13/46	1952	BTM Parts List Platen Drive Unit
44/13/47	1950	BTM Mechanical Service Manual Universal Carriage
44/13/48	1950	BTM Mechanical Service Manual Universal Carriage (Engineering Addendum)
44/13/49	1948	BTM Mechanical Service Manual Junior Rolling Total Tabulator including Ledger Posting & Summary Card Punching Attachments
44/13/50		BTM Operator's Manual Summary and Balance Punching
44/13/51		BTM Operator's Manual 38 column Rolling Total Tabulator

44/13/52	1950	BTM Operator's Manual Junior Rolling Total Tabulator Types 855 and 856
44/13/53	1937	BTM Mechanical Service Manual Junior Rolling Total Tabulator
44/13/54	1950	BTM Parts List Junior Rolling Total Tabulator Drive
44/14/1		BTM Operator's Manual Shillings and Decimals Multiplying Punch Shillings and Decimals Cross-Footing Multiplying Punch Decimal Cross-Footing Device for the above models
44/14/2	1945	BTM Operator's Manual Decimal Multiplying Punch with Decimal Accumulating Device (A note on the blue cover says: "This book should have a grey cover but grey paper was unobtainable.")
44/14/3	1938	BTM Operator's Manual Decimal Cross-Footing Multiplying Punch
44/14/4	1951	BTM Operator's Manual Type 501 Multiplying Punch
44/14/5		BTM Operator's Manual Decimal Cross-Footing Multiplying Punch
44/14/6		BTM Operator's Manual Shillings and Decimals Multiplying Punch
44/14/7	1951	BTM Operator's Manual Type 501 Multiplying Punch
44/14/8	1952	BTM Mechanical Service Manual Type 506 Multiplying Punch
44/14/9	1952	BTM Operator's Manual Types 401 & 402 Numerical and Type 416 Alpha-Numerical Interpreters
44/14/10	1952	BTM Operator's Manual Type 413 Interpreter
44/14/11		BTM Operator's Manual 80 - 38 col

		Interpreter
44/14/12		BTM Operator's Manual Automatic Interpreter
44/14/13	1951	BTM Operator's Manual Alphabetical Interpreter
44/14/14	1953	BTM Operator's Manual Type 414 Transfer Interpreter
44/14/15	1953	BTM Preliminary Operator's Manual Type 541 Electronic Multiplier & Type 237 Pre-Sensing Gang Punch
44/14/16	1954	BTM Preliminary Operator's Manual Type 542 Electronic Multiplier & Type 238 Gang Punch
44/14/17	1956	BTM Operator's Manual Type 542 Electronic Calculator with Type 238 Gang Punch and Type 550 Electronic Calculator with Type 239 Gang Punch
44/14/18	1953	BTM Mechanical Service Manual British Electronic Multiplier Type 541
44/14/19	1953	BTM Annotated Training Notes B.E.M. 9 (Type 541 Electronic Multiplier)
44/14/20	1956	BTM Field Engineering Manual Type 542 Electronic Multiplier
44/14/21	1957	BTM Field Engineering Manual Type 550 Electronic Multiplier
44/14/22	1939	BTM Operator's Manual Brush Control Statement Feature Alpha Listing while Cycling Feature
44/14/23	1953	BTM Operator's Manual Multi-Read Feed
44/14/24	1949	BTM Operator's Manual The Storage Unit
44/14/25	1951	BTM Operator's Manual Universal Carriage

44/14/26	1951	BTM Engineering Notes Royal Insurance Multi-Read Feed for C.R.S. Rolling Total Tabulator
44/14/27	1951	BTM Operator's Instructions Statement Form Design
44/14/28	1951	BTM Operator's Instructions Line-Finding Device - Ledger Posting
44/14/29	1946	BTM Operator's Instructions Quick Set Statement Device E6./6 Tabulator
44/14/30	1958	BTM Operator's Manual The Type 588 Tabulator with 582 Gang Punch
44/14/31	1941	BTM Operator's Manual The E6/6 Tabulator
44/14/32	1951	BTM Operator's Manual Junior Rolling Total Tabulator Types 855 and 856
44/14/33		BTM Operator's Manual Summary and Balance Punching - 30 col Rolling Total Tabulator
44/14/34	1952	BTM Operator's Manual Type 901 Tabulator
44/14/35	1938	BTM Operator's Manual Automatic Gang Punch
44/14/36	1952	BTM Operator's Manual Type 31 Keystor Punch & Type 129 Verifier
44/14/37	1957	BTM Operator's Manual Types 32 & 31 Keystor Punches and Type 29/2 Automatic Key Punch
44/14/38	1945	BTM Parts List Alpha Printing Punch
44/14/39	1948	BTM Parts List Motor Drive Duplicating Punch Type 21/0
44/14/40	1948	BTM Parts List Type 25/0 Programme Board Punch And Type 25/0 Programme Board Punch with Ducol operation

44/14/41	1955	BTM Engineering Notes Gang Punch Unit for Automatic Punches
44/14/42	1950	BTM Engineering Notes Step by Step Mark Sensing Punch
44/14/43	1952	BTM Parts List Senior Rolling Total Tabulator Alphabetical Unit Assembly
44/14/44	1953	BTM Parts List Senior Rolling Total Tabulator Card Stacker Assembly (Standard)
44/14/45	1950	BTM Parts List Senior Rolling Total Tabulator Semi-Automatic Bill Feed Carriage
44/14/46	1953	BTM Parts List Senior Rolling Total Tabulator Universal Print Magnet Unit
44/14/47	1953	BTM Parts List Type 103 Mechanical Verifier 80 column
44/14/48	1949	BTM Parts List Type 123/0 Programme Board Verifier and Type 123/0 or 125/0 Programme Board Verifier with Ducol operation
44/14/49	1952	BTM Parts List Type 129 Programme Board Verifier
44/14/50	1945	BTM Parts List Interpreter Type 552
44/14/51	1951	BTM Technical Description Keystor Punch Development Information
44/14/52	1938	BTM Operator's Manual Automatic Electric Key Punch and Automatic Electric Duplicating Key Punch
44/14/53	1955	BTM Technical Description Visible Card Punching Mechanism
44/14/54	1956	BTM Technical Description Type 029 Programme Board Punch Ducol Feature for F.E.L.F. Singapore
44/14/55	1959	ICT Operator's Manual Types 1 and

		2 Key-Operated Punches Types 103 and 104 Mechanical Verifiers
44/14/56	1959	ICT Operator's Manual Type 44 Automatic Key Punch
44/14/57	1962	ICT Operator's Manual Type 62 Automatic Key Punch
44/14/58	1959	ICT Operator's Manual Type 29 Programme Board Punch
44/14/59	1959	ICT Operator's Manual Type 30 Automatic Key Punch
44/14/60	1963	ICT Operator's Manual Check Digit Feature for Type 29 Punch
44/14/61	1957	ICT Operator's Manual Types 32 and 31 Keystor Punches and Type 29/2 Automatic Key Punch
44/14/62	1962	ICT Operator's Manual Type 34 Automatic Key Punch
44/14/63	1965	ICT Operator's Manual Type 34 Automatic Key Punch with Type 131 Automatic Verifier
44/14/64	1965	ICT Operator's Manual Type 36 Programme Board Punch
44/14/65	1966	ICT Operator's Manual Type 66 Programme Board Punch
44/14/66	1966	ICT Operator's Manual Types 67 and 68 Programme Board Printing Punches
44/14/67	1967	ICT Operator's Manual Card and Paper Tape Punching Codes and Keyboards
44/14/68	1966	ICT Operator's Manual Types 64 and 65 Automatic Key Punches
44/14/69	1967	ICT Operator's Manual Type 69 Programme Board Punch
44/14/70	1959	ICT Operator's Manual Automatic Verifier for 65 and 80 column

		cards
44/14/71	1959	ICT Operator's Manual Automatic Verifier for 21 and 40 column cards
44/14/72	1959	ICT Operator's Manual Automatic Verifier Types 140/0 and 142/0
44/14/73	1967	ICT Operator's Manual 169 Verifier
44/14/74	1966	ICT Operator's Manual 166 Programme Board Verifier
44/14/75	1960	ICT Operator's Manual Type 129 Verifier
44/14/76	1964	ICT Operator's Manual 1020 Paper Tape Punch and 1021 Paper Tape Verifier
44/14/77	1958	ICT Operator's Manual 1036 Tape Controlled Card Punch
44/14/78	1961	ICT Operator's Manual Tape Controlled Card Punch Types 1036 and 1039
44/14/79		ICT Provisional Operator's Manual Type 1037 Card to Tape Translator
44/14/80		ICT Operator's Manual Type 1038 Card Controlled Tape Punch
44/14/81	1962	ICT Operator's Manual Type 1047/2 and 1047/1 Card Controlled Tape Punch
44/15/1	1959	ICT Operator's Manual 21 column Equipment
44/15/2	1959	ICT Operator's Manual The Sorter for 40 column cards
44/15/3	1959	ICT Operator's Manual Sorter Type 327
44/15/4	1959	ICT Parts List Type 302 Horizontal Sorter

44/15/5	1962	ICT Operator's Manual Sorter Types 302/0, 302/4 & 313/0
44/15/6	1964	ICT Operator's Manual Sorter Type 314
44/15/7		ICT Operator's Manual Sorter Type 319
44/15/8	1964	ICT Operator's Manual Reproducer Type 213, 130 cpm
44/15/9	1964	ICT Operator's Manual Reproducer Types 215 & 216, 65/80 col, 200 cpm
44/15/10	1964	ICT Operator's Manual Restyled Reproducer, 65/80 col, 200 cpm
44/15/11	1964	ICT Operator's Manual Reproducer Types 203 & 208, 80 col, 100 cpm
44/15/12	1960	ICT Operator's Manual Reproducer Types 202, 203, 206 & 208, 80 col, 100 cpm
44/15/13	1965	ICT Operator's Manual The ICT Mark Sensing Feature
44/15/14	1963	ICT Operator's Manual Gang Punch Type 235, 100 cpm
44/15/15	1960	ICT Operator's Manual Tabulator Type 817/1, 40 col, 100 cpm
44/15/16	1960	ICT Operator's Manual Tabulator Types 816 & 817, 40 col, 100 cpm
44/15/17	1959	ICT Operator's Manual Summary Card Punch for the 40 col Tabulator
44/15/18	1963	ICT Operator's Manual Compendium of Tabulator Paper Feeds, 40 col, 100 cpm
44/15/19		ICT Operator's Manual The Front Feed Tabulator
44/15/20	1950	ICT (reprinted from BTM) Operator's Manual Tabulator E6/6, 80 col, 150 cpm

44/15/21	1949	ICT (reprinted from BTM) Operator's Manual Tabulator Types 852 & 853 Senior Rolling Total, 150 cpm
44/15/22		ICT (reprinted from BTM) Operator's Manual Tabulator Universal Carriage
44/15/23	1950	ICT reprinted from BTM) Operator's Manual Tabulator Types 855 & 856 Junior Rolling Total, 150 cpm
44/15/24	1959	ICT Operator's Manual Tabulator Brush Control Statement Feature Alpha Listing while Cycling Feature
44/15/25	1959	ICT Operator's Manual Tabulator Storage Unit
44/15/26	1957	ICT Operator's Manual Tabulator Type 901, 150 cpm
44/15/27	1959	ICT Operator's Manual Tabulator Types 901, 902 & 906, 150 cpm
44/15/28	1963	ICT Operator's Manual Tabulator Types 902, 903 & 906, 150 cpm
44/15/29	1969	ICT Operator's Manual Balancing/Printing Tabulator Type 908, 150 cpm
44/15/30	1959	ICT Operator's Manual Tabulator Type 900 - Additional & Alternative Units
44/15/31	1959	ICT Operator's Manual Tabulator Types 901, 902 & 906 - Additional & Alternative Units
44/15/32	1961	ICT Operator's Manual Tabulator Types 902, 906 & 915 - Universal Paper Feed
44/15/33	1961	ICT Operator's Manual Tabulator Type 915, 150 cpm
44/15/34	1963	ICT Operator's Manual Tabulator Type 915 - Lamson Paragon Dual

Feed

44/15/35	1970	ICT Operator's Manual Tabulator Automatic Computing Enhancement
44/15/36		ICT Operator's Manual Tabulator Type 915 - Document Feed
44/15/37	1950	ICT Operator's Manual Collator Types 365 & 368, 200 cpm
44/15/38	1950	ICT Operator's Manual Interpolator, 200 cpm
44/15/39	1966	ICT Operator's Manual Card Controller Type 1001, 1000 cpm
44/15/40	1960	ICT Operator's Manual Transfer Interpreters Types 430, 431 (442), 444, 445 & 446
44/15/41	1954	ICT Operator's Manual Interpreter Type 413
44/15/42	1958	ICT Operator's Manual Interpreter Types 418 & 419
44/15/43	1960	ICT Operator's Manual Multi-Zone Interpreter Type 424
44/15/44		ICT Operator's Manual The Posting Interpreter, 21/40 col
44/15/45		ICT Operator's Manual The Posting Interpreter for 40, 65 & 80 col cards
44/15/46	1959	ICT Operator's Manual E.M.P. Type 547, 548 & 549; 120 cpm
44/15/47		ICT Operator's Manual The E.M.P.
44/15/48	1963	ICT Operator's Manual 542 Multiplier, 100 cpm
44/15/49		ICT Engineering Instructions Type 542 Testing Procedures
44/15/50	1962	1962 ICT Operator's Manual Type 550/2 Calculator, 100 cpm

44/15/51		ICT Engineering Instructions Type 550 Calculator Test Procedures
44/15/52	1959	ICT Operator's Manual Type 555 Electronic Calculator with Type 240 Gang Punch
44/15/53	1962	ICT Operator's Manual Type 555 Computer - Additional Features
44/15/54	1963	ICT Operator's Manual Type 558 F.C.C. (Forty Column Computer or Ferrite Core Computer)
44/15/55	1962	ICT Operator's Manual 558 Sub-Routine Manual
44/15/56		ICT Operator's Manual 1004 Data Processor - Code Image Feature
44/15/57		ICT Operator's Manual 1004 Reader/Punch
44/15/58		ICT Operator's Manual ICT 235 Gang Punch linked to the Kimball Tag Reader, 100 cpm
44/15/59		ICT Operator's Manual ICT 40-column Card Punch linked to the Kimball Tag Reader
44/15/60	1959	ICT Operator's Manual 40 col Tabulator Sheet Feed Attachment
44/15/61		ICT Operator's Manual 40 col Tabulator Auto-Compensating Long Feed
44/15/62		ICT Operator's Manual Samastronic Output Printer
44/16/1	1964	ICT Operator's Manual 1004 Data Processor - Vol I
44/16/2	1964	ICT Operator's Manual 1004 Data Processor - Vol II
44/16/3	1964	ICT Operator's Manual 1004 Data Processor - Amendments 2, 6, 7, 8 & 9

44/16/4	1964	ICT Operator's Manual 1004 SIMPAL
44/16/5	1963	Pupil's Notebook by G. Beatson 1004
44/16/6	1963	UNIVAC 1004 Tape Lecture Illustrations
44/16/7	1963	ICT Operator's Manual 1004 Report Program Generator
44/16/8	1963	ICT Training Manual 1004 - Introduction to 1004 Logic and Codes
44/16/9	1957	ICT Operator's Manual 1201 Programmer Guide
44/16/10	1958	ICT Operator's Manual 1201 Program Test Procedure
44/16/11	1958	ICT Operator's Manual 1202 Programmer Guide
44/16/12		ICT Operator's Manual 8500 Document Sorter on line to the ICT 1500 System
44/16/13	1964	ICT Operator's Manual 7000 Data Link
44/16/14		ICT Operator's Manual Automatic Data Processing in a Light Engineering Factory
44/16/15	1962	ICT Documentation Standards ICT Terminology following the Merger between Powers and BTM
44/16/16	1953	ICT Parts List 12/0 and 13/0 Hand Punches 36/40 col
44/16/17	1960	ICT Parts List Restyled Automatic Key Punches Types 34/0, 48/1, 48/3, 49/0 & 49/1 & Optional Features, 65 & 80 col
44/16/18	1960	ICT Parts List Type 50/0 40 col Automatic Key Punch with Alpha Keyboard

44/16/19	1958	ICT Parts List 21 col Powers One Tabulator with subtraction
44/16/20	1949	BTM Parts List Type 25/0 Program Board Punch Conversion of Type 21/0 Motor Driven Punch & with Ducol operation
44/16/21	1962	ICT Parts List Type 29/0 Program Board Punch
44/16/22	1965	ICT Parts List Type 30/0 Program Board Punch Type 1039 Tape to Card Translator
44/16/23	1965	ICT Parts List Type 36/0 Program Board Punch
44/16/24	1949	BTM Parts List 123/0 Program Board Verifier & Ducol
44/16/25	1958	ICT Parts List 65/80 col Reproducer Types 215/1, 215/3, 216/0 & 216/1
44/16/26	1962	ICT Parts List Type 203 High Speed Reproducer
44/16/27	1959	ICT Parts List Type 206 End Printing Reproducer
44/16/28	1963	ICT Parts List Gang Punches Types 239/0 & 239/2
44/16/29	1959	ICT Parts List Fitting of Mark Sensing and other features to Type 202 High Speed Reproducer
44/16/30	1954	BTM Parts List 38/80 col Sorter Types 309 and 310, 400 cpm
44/16/31	1962	ICT Parts List Type 313 High Speed Sorter, 750 cpm
44/16/32	1966	ICT Parts List Type 314 High Speed Sorter, 750 cpm
44/16/33	1966	ICT Parts List Type 319 High Speed Sorter, 750 cpm
44/17/1	1961	ICT Parts List Types 430/0,

		431/0, 446/1 Interpreters 80/160 col, 100 cpm
44/17/2	1960	ICT Parts List Type 424 Multi- Zone Interpreter
44/17/3	1963	ICT Parts List Type 700 Balancing Tabulator, 200 cpm
44/17/4	1960	ICT Parts List Type 902 Balancing Tabulator, 150 cpm
44/17/5	1963	ICT Parts List Type 902 Balancing Tabulator with Auto Document Feed Mk II
44/17/6	1959	ICT Parts List Type 915 Tabulator, 150 cpm
44/17/7	1960	ICT Parts List Upper Counter Variations for Junior and C.R.S. Tabulators
44/17/8	1963	ICT Parts List Types 810 and 811 21 col Tabulator, 100 cpm
44/17/9	1959	ICT Parts List Type 588 Input/Output Tabulator for 1201, 100 cpm
44/17/10	1959	ICT Parts List Type 588 Additional Units
44/17/11	1962	ICT Parts List Type 589 Input/Output Tabulator for 1202, 100 cpm
44/17/12	1964	ICT Parts List Type 660/0 Line Printer for 1301 computer, 600 lpm Type 660/1 Line Printer for 1300 computer
44/17/13	1962	ICT Parts List Type 665 Line Printer, OEM, 600 lpm
44/17/14	1963	ICT Parts List Type 600 Gang Punch for 1301, 100 cpm (2 copies)
44/17/15	1962	ICT Parts List Type 582/6 and 582/8 Gang Punches for 1201/1202, 100 cpm

44/17/16	1962	ICT Parts List Types 582/3, 582/4, 582/5 Gang Punches for 1201/1202, 100 cpm
44/17/17	1962	ICT Parts List Type 822/0 65 col and Type 822/1 80 col Samastronic Tabulators
44/17/18	1961	ICT Parts List Type 266/0 130 col and Type 260/1 160 col Samastronic Summary Card Punches, 100 cpm
44/17/19	1962	ICT Instruction and Engineering Manual Type 558 40 col Computer, Vol I
44/18/1	1962	ICT Instruction and Engineering Manual Type 558 40 col Computer, Vol II
44/18/2	1962	ICT Instruction Manual Type 558 40 col Computer Programming Manual
44/18/3	1962	ICT Instruction Manual Type 558 40 col Computer Installation Requirements
44/18/4	1950	BTM (reprinted by ICT) Field Engineering Manual Technical Information Sheets
44/18/5	1963	ICT Field Engineering Manual Engineer's Reference Book
44/18/6	1950	Powers Field Engineering Manual Powers Service Manual
44/18/7	1961	ICT Parts List JRT/SRT Tabulators Universal Print Magnet Unit
44/18/8	1962	ICT Parts List Type 1036/2 & 1036/9 Tape Controlled Card Punch with Gang Punch Attachments
44/18/9	1960	ICT Parts List Tabulator Platens and Paper Plates
44/18/10	1960	ICT Parts List Alphabetical Typewriter Key Boxes
44/18/11	1963	ICT Parts List New Style

Keyboards and Key Units

44/18/12	1965	ICT Parts List Type 1000 Card Reader
44/18/13	1957	ICT Field Engineering Manual Type 029 Program Board Punch
44/18/14	1961	ICT Field Engineering Manual Type 029 - National Cash Link
44/18/15	1961	ICT Field Engineering Manual Type 029 - Burroughs Sensimatic Type P A Link
44/18/16	1963	ICT Field Engineering Manual Type 030 - National Cash Link
44/18/17	1964	ICT Field Engineering Manual Type 036 Punch
44/18/18		ICT Field Engineering Manual Type 036 Punch and Read Mechanisms
44/18/19	1964	ICT Field Engineering Manual Type 033/1 Punch
44/18/20	1964	ICT Field Engineering Manual Type 130 Verifier
44/18/21	1966	ICT Field Engineering Manual Type 327/S 40 col Sorter (Siemens-Halske)
44/18/22	1966	ICT Field Engineering Manual Type 327/0 40 col Sorter
44/18/23	1963	ICT Field Engineering Manual Type 313 80 col Sorter
44/18/24	1963	ICT Field Engineering Manual Type 319 40 col Sorter
44/18/25	1953	BTM Field Engineering Manual Type 334 80 col Census Equipment
44/19/1	1959	ICT Field Engineering Manual Type 413 80 col Interpreter
44/19/2		ICT Field Engineering Manual Type 413 Wire Interpreter - Modified

		Version
44/19/3	1960	ICT Field Engineering Manual Type 424 80 col Interpreter
44/19/4	1965	ICT Field Engineering Manual Type 902 40/80 col Tabulator
44/19/5	1964	ICT Field Engineering Manual Type 902 Tabulator - Control Cycle Listing
44/19/6	1964	ICT Field Engineering Manual Type 902 Tabulator - Summary Punch while Address Listing
44/19/7	1959	ICT Field Engineering Manual Type 902 Tabulator - Annas and Pies (Indian Currency)
44/19/8	1964	ICT Field Engineering Manual Type 902 80/21 col Tabulator
44/19/9	1964	ICT Field Engineering Manual Type 902 Tabulator Single Card List/Multi Card Tabulation
44/19/10	1963	ICT Field Engineering Manual Type 915/9 Tabulator - Core Store
44/19/11		ICT Field Engineering Manual 21 Column Summary Card Punch
44/19/12		ICT Field Engineering Manual 582/6/8 Card Punch - Computer
44/19/13	1964	ICT Field Engineering Manual 209/1 Computer Reader/Punch
44/19/14		ICT Technical Specification 582 Specification
44/19/15	1961	ICT Field Engineering Manual Rotary Card Printing Machine
44/19/16	1966	ICT Field Engineering Manual 335 Statistical Unit for NCB
44/19/17	1965	ICT Field Engineering Manual 335 Statistical Unit Interscan

44/19/18	1965	ICT Field Engineering Manual 335 Statistical Unit ICI
44/19/19	1964	ICT Field Engineering Manual 335 Statistical Unit Patent Office
44/19/20	1960	ICT Field Engineering Manual 906 Tabulator Wire Relay Model, 200 cpm
44/19/21	1960	ICT Field Engineering Manual 902 Tabulator, 100 cpm
44/19/22	1961	ICT Field Engineering Manual Samastronic Print Head for E.M.I. Computer
44/19/23	1957	ICT Field Engineering Manual 1 to 199 Punches and Verifiers
44/19/24	1963	ICT Field Engineering Manual Type 34 Automatic Key Punch
44/20/1	1966	ICT Field Engineering Manual 64 and 65 Automatic Key Punch
44/20/2	1967	ICT Parts List 67 and 68 Punch
44/20/3	1962	ICT Technical Proposal 80 col Card Punch with Cards Moving Constantly
44/20/4	1962	ICT Engineering Standards Design and Drawing - Vol I
44/20/5	1962	ICT Engineering Standards Design and Drawing - Vol II
44/20/6	1967	ICT Field Engineering Manual 64 & 65 80 col Automatic Key Punch (<i>loose sheets</i>)
44/20/7	1968	ICT Engineering Manual Type 071 80 col Program Board Punch
44/20/8	1968	ICT Operating Manual Care and Handling of Recording Media
44/20/9	1963	ICT Field Engineering Manual Type 313 80 col Sorter, 600 cpm
44/20/10	1964	ICT Field Engineering Manual Type

		203 and 208 Reproducer, 100 cpm
44/20/11	1961	ICT Field Engineering Manual Type 915 80 col Tabulator 150 cpm
44/20/12	1961	ICT Operating Manual Type 915 80 col Tabulator, 150 cpm
44/21/1	1963	ICT Operating Manual Type 555 Computer (<i>Not really a computer! Compare next item</i>)
44/21/2	1958	ICT Field Engineering Manual Type 555 Calculator
44/21/3	1965	ICT Field Engineering Manual 1922 Gang Punch, 100 cpm
44/21/4	1965	ICT Field Engineering Manual Type 424 Interpreter, 100 cpm
44/21/5	1960	ICT Field Engineering Manual Card Punch with Pegasus (L & M)
44/21/6	1960	ICT Field Engineering Manual Card Punch with Mercury (Shell)
44/21/7	1960	ICT Field Engineering Manual Card Reader with Pegasus (L & M)
44/21/8	1960	ICT Field Engineering Manual Card Reader with Mercury (Shell)
44/21/9	1962	ICT Field Engineering Manual Special Card Punch for N.D.P.
44/21/10	1960	ICT Field Engineering Manual Sheet Feed operated by Variable Control on 65/80 col Tabulator
44/21/11	1961	ICT Field Engineering Manual Sheet Posting Interpreter (Slotted and Round)
44/21/12	1960	ICT Field Engineering Manual Printing Machine Feature
44/21/13	1962	ICT Circuit Diagrams E.M.P. Specifications
44/21/14	1960	ICT Field Engineering Manual

		Fitting Instructions for 80 col Slotted Punch Units
44/21/15	1961	ICT Field Engineering Manual Samastronic Print Head - GPO
44/21/16	1959	ICT Field Engineering Manual Samastronic Print Head for LEO Computers
44/21/17	1959	ICT Field Engineering Manual Samastronic Print Head - Independent
44/21/18	1960	ICT Field Engineering Manual Samastronic Tabulator Cat IIB Adding Circuits
44/21/19	1960	ICT Field Engineering Manual Supplement to the Instruction Book for the Samastronic Tabulator Cat IIA
44/22/1	1967	ICT Operating Manual 7011, 7012, 7013 Data Link
44/22/2	1968	ICT Operating Manual 7071 Teletypewriter Operating
44/22/3	1968	ICL Operating Manual Imperial Datalog Typewriter linked to 64 Card Punch for Martins Bank
44/22/4		ICT Operating Manual 8000 Optical Character Reader
44/22/5		ICT Operating Manual 8501 Audit Lister for National Provincial Bank
44/22/6	1963	ICT Field Engineering Manual Type 1301 Computer
44/22/7	1964	ICT Operating Manual 1300 Programmer's Reference Manual
44/22/8	1962	ICT Operating Manual 1301 System Considerations
44/22/9	1964	ICT Operating Manual 1300 Operator's Reference

44/22/10		ICT Operating Manual MPL2 - 1300 Mnemonic Programming Language - Card Assembler
44/22/11	1964	ICT Operating Manual MPL2 - 1300 Mnemonic Programming Language - Tape Assembler
44/22/12	1965	ICT Operating Manual 1300 T.A.S.
44/22/13	1965	ICT Operating Manual 1300 RapidWrite - Tape
44/22/14	1963	ICT Operating Manual 1300 Initial Orders
44/22/15	1964	ICT Operating Manual 1300 Magnetic Tape 1/4"
44/22/16	1965	ICT Operating Manual 1300 Magnetic Tape 1" and 1/2"
44/22/17		ICT Operating Manual 1300 Traffic Allocation
44/22/18	1966	ICT Operating Manual 1300 COBOL/RapidWrite - Programming Techniques - How to use the Compiler
44/22/19	1962	ICT Field Engineering Manual 1000 Card Controlled Typewriter
44/22/20	1961	ICT Field Engineering Manual 1037 Card Controlled Tape Punch
44/22/21	1960	ICT Operating Manual Transpositional Punching feature as fitted to 80 col Tape to Card Translator
44/22/22	1960	ICT Operating Manual 8-channel Tape Sense feature as fitted to 40, 65, & 80 col Tape to Card Translators
44/22/23	1958	ICT Field Engineering Manual Type 1036 Tape to Card Punch
44/22/24		1964 ICT Field Engineering Manual Alpha/Numerical (Slimline)

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44/22/25	1963	ICT Operating Manual Compendium of Paper Feeds
44/22/26	1968	ICT Operating Manual Care and Handling of Recording Media
44/22/27	1959	ICT Sales Intelligence IBM Type 1400 Data Processing System - Outline Specification and Order Codes
44/22/28	1961	ICT Sales Intelligence IBM Type 1401 Data Processing System - General Appraisal
44/22/29		ICT Sales Intelligence IBM Type 1410 Data Processing System - General Appraisal
44/22/30	1960	ICT Operating Manual FP 6000 Auto Coder (PLAN)
44/23/1	1966	ICT Field Engineering Manual 1931 -2 -3 Printer
44/23/2	1967	ICT Field Engineering Manual 2401 Printer
44/23/3	1967	ICT Field Engineering Manual 2402 Printer
44/23/4	1968	ICT Field Engineering Manual 1916 Paper Tape Reader
44/23/5	1965	ICT Field Engineering Manual Type TR6 Tape Reader
44/23/6		ICT Field Engineering Manual 1911 Card Reader
44/23/7	1967	ICT Field Engineering Manual 2102 Card Reader
44/23/8	1967	ICT Field Engineering Manual 7008 Telegraph Terminal
44/23/9	1964	ICT Field Engineering Manual Type 36 Punch and Read Mechanism
44/23/10	1965	ICT Field Engineering Manual Type

		1000 Read Mechanism
44/23/11	1963	ICT Field Engineering Manual 1312/1 40-col Card Reader
44/23/12	1962	ICT Field Engineering Manual 593 Card Reader (1301)
44/23/13	1966	ICT Logic Diagrams Type 2601 -2 Paper Tape Reader/Punches
44/23/14	1966	ICT Operators' Manual Introduction to Computer Systems
44/23/15	1962	ICT Technical Description Junction Transistors
44/24/1	1963	ICT Programmers' Manual I.C.T. RapidWrite - 1500 Computer How to use the Compiler
44/24/2	1962	ICT Operator's Manual 1500 F.A.S.
44/24/3	1963	ICT Operator's Manual 1500 Programmer's Reference
44/24/4	1963	ICT Operator's Manual 1500 Training Notes
44/24/5	1962	ICT Parts List Types 590 & 593 Serial Card Reader
44/24/6	1965	ICT Operator's Manual Data Communications General Manual Part 1 - Theory & Practice
44/24/7	1965	ICT Operator's Manual Data Communications General Manual Part 2 - Data Communication Facilities
44/24/8		ICT Training Manual COBOL - Programmed Text
44/24/9		ICT Engineering Specification LEO LECTOR Document Reader
44/24/10		ICT Operator's Manual 1900 Introductory Manual
44/24/11	1966	ICT Operator's Manual 1906/7 Provisional System Description

44/24/12	1965	ICT Operator's Manual 1901 Introductory Manual
44/24/13	1965	ICT Operator's Manual 1900 Keyword in Context - KWIC Index ICT 1900 Series Computer Orders and Customers
44/24/14	1967	ICT Logic Diagrams 1900 - 1942/1,/2,/3 & 1942/1,/2,/3 Core Stores
44/24/15	1966	ICT Logic Diagrams 1901 Computer
44/24/16	1964	ICT Programmers Manual ATLAS - ABL Programming Exercise
44/24/17	1963	ICT Field Engineering Manual 2400 Computer Vol 1 - Power Modules & Basic Element Panels
44/24/18	1963	ICT Field Engineering Manual 2400 Computer Vol 2 - Test Equipment
44/24/19	1963	ICT Field Engineering Manual 2400 Computer Vol 4 - Type 410 I-inch Tape Deck
44/24/20	1963	ICT Field Engineering Manual 2400 Computer Vol 6 - Card to Tape Converter Unit 700/CTL
44/25/1	1963	ICT Field Engineering Manual 2400 Computer Vol 6a
44/25/2	1963	ICT Field Engineering Manual 2400 Computer Vol 7 - Peripheral Unit Control Logics
44/25/3	1965	ICT Field Engineering Manual 1900 Series Packages Vol 1
44/25/4	1965	ICT Field Engineering Manual 1900 Series Packages Vol 2
44/25/5	1965	ICT Field Engineering Manual 1900 Series System Description
44/25/6	1965	ICT Technical Notes Systems Studies (3 notes)

44/25/7	1965	ICT Technical Notes Microwiring (4 notes)
44/25/8	1965	ICT Technical Notes Output Printer Techniques
44/25/9	1965	ICT Technical Notes Fluid Logic (5 notes)
44/25/10	1965	ICT Technical Notes Continuous Film Store
44/25/11	1965	ICT Technical Notes Magnetic Thin Film Memory
44/25/12	1965	ICT Technical Notes Interconnections in I.C.s
44/25/13	1965	ICT Technical Notes Integrated Semi-Conductor Stores (2 notes)
44/25/14	1965	ICT Technical Notes Economics of I.C. Arrays
44/25/15	1965	ICT Technical Notes Evaporated Cobalt Films
44/25/16	1965	ICT Technical Notes High Density Recording (4 notes)
44/25/17	1965	ICT Technical Notes Basic Magnetics
44/25/18	1965	ICT Technical Notes Comparison of Oxide and Metal Tapes
44/25/19	1965	ICT Technical Notes Basic Recording on Metallic Film
44/25/20	1965	ICT Technical Notes Basic Magnetics
44/25/21	1966	ICT Technical Notes Optimisation of Media in Disc File
44/25/22	1966	ICT Programmers Manual 1900 COBOL/RAPIDWRITE
44/25/23	1966	ICT Training Manual 1900 NICOL
44/25/24	1968	ICL Draft Specification PF56

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44/25/25	1969	ICL Engineering Manual 2143/1 Card Reader
44/25/26	1969	ICL Engineering Manual 55/0 Special Printing Punch
44/25/27	1970	ICL Engineering Manual 335/1/7 Zone Pattern Sorter
44/25/28	1968	ICL Engineering Manual PEK64 Photo Electric Keyboard
44/26/1	1969	ICL Specification 640/5 Card Punch for OEM application
44/26/2	1968	ICL Parts List 033 Card Punch Mechanism
44/26/3	1968	ICL Parts List 1020/1021 Paper Tape Punch & Reader Units
44/26/4	1962	ICT Parts List 504 Multiplier
44/26/5	1960	ICT Parts List 365 Collator
44/26/6	1969	ICL Operators Manual 908 Printing Balancing Tabulator
44/26/7	1968	ICL Operators Manual 7011, 7012, & 7013 Data Link
44/26/8	1965	ICT Logic Diagrams 1920 Card Punch
44/26/9	1967	ICT Logic Diagrams 2801-2 Exchangeable Disc Store
44/26/10	1965	ICT Engineering Manual 1925 Paper Tape Punch
44/26/11	1969	ICL Engineering Manual 1916/9 Paper Tape Reader Mechanism
44/26/12	1965	ICT Engineering Manual 1916 Paper Tape Reader
44/26/13	1969	ICL Engineering Manual 2140 Paper Tape Reader Mechanism

44/26/14	1966	ICT Training Manual 1902 - 3 Computer (Standard Executive)
44/26/15	1972	ICL Engineering Manual 2802 - EDS 8 _ Engineer's Guide to Fault Diagnosis
44/26/16	1969	ICL Engineering Manual 1904A System Description
44/26/17	1966	ICT Engineering Manual 1904E, 1905E System Description
44/26/18	1969	ICL Technical Information Engineer's Reference Book
44/26/19	1977	ICL Personnel Information Employee's Reference Book
44/26/20		ICL Technical Information 1906S Physical Layout
44/26/21	1972	ICL Technical Manual 1900 - E6RM Overlaid Executive
44/26/22	1972	ICL Data Preparation - Description, Programming & Operating Procedures 071/1 & /2 Program Board Card Punches
44/26/23	1972	ICL Data Preparation - Description, Programming & Operating Procedures 171/1 & /2 Program Board Verifiers
44/26/24	1967	ICL Engineering Manual Keyboards - Alpha/Numeric & Numeric
44/26/25	1957	ICT/BURROUGHS Operators Manual Standard Control Unit for demonstrating Burroughs Series FMC Control - Input Equipment
44/26/26	1961	ICT/BURROUGHS Engineering Manual Output Unit 292 (ICT 235)
44/26/27	1968	ICT/BURROUGHS Engineering Manual 66/3 Punch - Burroughs Sensimatic Type P/A link
44/26/28	1971	ICT/BURROUGHS Engineering Manual

		71/8 & 72/8 Punches - Burroughs link
44/26/29	1968	ICL/NCR Engineering Manual 66/3 Punch - NCR 31-32 Link
44/26/30	1971	ICL/NCR Engineering Manual 71/7 & 72/7 Punch - NCR Link
44/27/1	1958	KIMBALL Engineering Manual Tag Reader B
44/27/2		KIMBALL Sales Brochure The Kimball system of Automatic Data Processing
44/27/3	1951	CREED Engineering Manual Nos 7 and 8 Teleprinters
44/27/4	1948	IBM Sales Literature Manual of Electronic Punched Card Accounting Machines
44/27/5	1956	IBM Operators Manual 408 Accounting Machine (with card and continuous form carriage)
44/27/6	1951	IBM Operators Manual Automatic Carriage Type 921
44/27/7	1945	IBM Engineering Manual 407 Accounting Machine
44/27/8		IBM Mechanical Service Manual and Parts List International Automatic Bill Feed
44/27/9	1938	IBM Training Material Customer Engineering Manual
44/27/10	1938	IBM Engineering Manual International Automatic Multiplying Punch
44/27/11		IBM Manual of Instruction Customer Engineering
44/27/12	1945	IBM Training Manual Multiplier & 921 Tabulator
44/27/13	1942	IBM Principles of Operation

Alphabetical Accounting Machine
Type 405

44/27/14	1946	IBM Customer Engineering Manual of Instruction Alphabetical Accounting Machine Type 405 - Mechanical Principles
44/27/15	1948	IBM Customer Engineering Manual of Instruction Alphabetical Accounting Machine Type 405 - Electrical Principles
44/27/16	1944	IBM Training Manual 405 Tabulator
44/27/17	1946	IBM Training Manual 036 Punch & 552 Interpreter
44/28/1	1946	IBM Training Manual 016, 031 Punches & 080 Sorter
44/28/2	1946	IBM Training Manual Alphabetical Duplicating Punch Type 031
44/28/3	1949	IBM Sales Brochure New IBM Card Punch (Type 026)
44/28/4	1953	IBM Engineering Manual 024 Punch & 026 Printing Card Punch
44/28/5	1949	IBM Sales Brochure 024 Punch & 026 Printing Card Punch
44/28/6	1965	IBM Engineering Manual 029 Punch
44/28/7	1965	IBM Engineering Manual 059 Verifier
44/28/8	1964	IBM Engineering Manual 055 Alphabetical Verifier
44/28/9	1946	IBM Engineering Manual 031 Alpha Duplicating Punch
44/28/10	1933	IBM Operators Manual Alphabetic Printing Punch
44/28/11	1946	IBM Operators Manual 032 Alpha Printing Punch & 033 Alpha Duplicating Printing Punch

44/28/12	1936	IBM Operators Manual Alphabetic Printing Punch
44/28/13		IBM Engineering Manual 036 Alpha Duplicating Punch
44/28/14		IBM Parts List 036 Alpha Duplicating Punch
44/28/15	1947	IBM Engineering Manual 513 Automatic Reproducing Punch
44/28/16	1957	IBM Engineering Manual 514, 519, 528 Reproducing Punches
44/28/17	1946	IBM Engineering Manual 519 End Printing Reproducer
44/28/18	1959	IBM Engineering Manual 541, 542 Card Reader/Punch
44/28/19		IBM Wiring Diagrams 521 Reproducer
44/28/20	1933	IBM Mechanical Services Manual Automatic Setup Gang Punch
44/28/21	1933	IBM Operators Manual International Reproducing Punch
44/28/22	1934	IBM Manual of Sales Instruction International Reproducing Punch and Comparing Reproducer
44/28/23	1947	IBM Engineering Manual 602 & 603 Calculator/Punch
44/28/24	1952	IBM Engineering Manual 101 Electronic Stats Machine
44/28/25	1950	IBM Engineering Manual 89 Alpha Collator
44/28/26	1945	IBM Training Material Elementary Electronics Extension Course - 25 Booklets
44/28/27	1943	IBM Training Material Standard Course for Customer Engineers
44/28/28	1964	IBM Sales Brochure IBM in Britain

44/28/29		IBM Operators Manual 1092, 1093 Programmable Keyboards
44/28/30	1945	IBM Operators Manual 080 & 075 Sorter
44/28/31	1943	IBM Operators Manual Principles of Card Sorting
44/28/32	1952	IBM Research Paper Electronic Information Search System
44/28/33		IBM Sales Brochure Sorters and Collators
44/28/34	1942	IBM Operators Manual 921 Auto Carriage - Pluggable Controls
44/28/35	1942	IBM Engineering Manual 921 Auto Carriage
44/28/36	1935	IBM Operators Manual Alphabetic Direct Subtract Accounting Machine
44/29/1	1964	UNIVAC Engineering Manual (2 copies) 1004 Maintenance HB1700 Vol 1
44/29/2	1964	UNIVAC Engineering Manual 1004 Maintenance HB1700 Vol 2
44/29/3	1966	UNIVAC Engineering Manual 1004 Maintenance Uniservo Vic Mechanism HB1709
44/29/4	1963	UNIVAC Training Manual 1004 Tape Lecture Illustrations
44/29/5	1965	UNIVAC Logic Diagrams 1001 Card Controller
44/29/6	1965	UNIVAC Logic Diagrams 1004/1001 Subsystem Interface
44/29/7	1965	UNIVAC General Reference Manual 1001 Card Controller
44/29/8	1965	UNIVAC General Reference Manual 1001 Card Controller - Multi Program Panel

44/29/9	1965	UNIVAC General Reference Manual 1001 Card Controller - Standard Sort Panel
44/29/10	1965	UNIVAC General Reference Manual 1001 Card Controller - Interface to 1004
44/29/11	1966	UNIVAC Operators Manual 1501 Key Punch
44/29/12	1954	UNIVAC Technical Paper Sorting Methods
44/29/13		UNIVAC Operators Manual Type 1701 Verifying Punch Type 1710 Verifying Interpreting Punch
44/29/14		UNIVAC Field Engineering Manual 1004 Adjustments
44/29/15	1963	ICT Operators Manual 1004 Operator Controls & Program Testing Facilities
44/29/16	1964	RCA Basic Training Manual 301 Computer System
44/29/17	1964	RCA Training Manual 301 Processor
44/29/18	1964	RCA Training Manual 301 Control Logic Vol 2
44/29/19	1964	RCA Field Engineering Manual 301 Plug-in Data Sheets
44/29/20	1964	RCA Maintenance Manual 301 Processor - Models 303/304/305
44/29/21	1964	RCA Maintenance Manual 381 Hi- Data Tape Station Model 381
44/29/22	1964	RCA Maintenance Manual 581 - Tape 33 K/cs
44/29/23	1964	RCA Engineering Manual 581 - Tape 33 K/cs
44/29/24	1964	RCA Maintenance Manual 333 Printer (Analex)

44/29/25	1964	RCA Maintenance Manual 325 TapeWriter, 326 TapeWriter Verifier, 328 Monitor Printer
44/29/26	1964	RCA Maintenance Manual 331 Paper Tape Punch
44/29/27	1964	RCA Maintenance Manual 322 Paper Tape Reader
44/29/28	1964	RCA Maintenance Manual 321 Paper Tape Reader/Punch
44/30/1	1964	RCA Maintenance Manual 323 Card Reader
44/30/2	1964	RCA Maintenance Manual 334 Card Punch (ICT 100 cpm)
44/30/3	1964	RCA Programmers Manual 301 MICR Programmers Reference
44/30/4	1966	BURROUGHS Technical Description B5500 Disk File Master Control Program
44/30/5	1972	BURROUGHS Sales Information Filed Force Sales Letters
44/30/6	1964	BURROUGHS Engineering Manual B303 Card Punch (ICT 100 cpm)
44/30/7	1961	BURROUGHS Engineering Manual B293 Card Reader (ICT)
44/30/8		BURROUGHS Operators Manual Operation and Application of IBM Punched Card Equipment
44/30/9	1957	KIMBALL Engineering Manual Tag A Model Reader
44/30/10	1960	CREED Installation & Maintenance Manual Tape Winder Model S.4072
44/30/11	1960	CREED Parts List Tape Winder Model S.4072
44/30/12	1958	LAMSON PARAGON Operators Manual Formaliner

44/30/13		OLIVETTI Engineering Manual Electric Typewriter
44/30/14	1960	BOWE Engineering Manual Guillotine
44/30/15	1966	AMPEX Engineering Manual Core Memory System
44/30/16	1962	FERRANTI Logic Diagrams PLUTO
44/30/17	1962	FERRANTI Technical Description PLUTO - Chapter 2 - Additional and Modified Logic
44/30/18	1962	FERRANTI Technical Description PLUTO - Chapter 3 - Punched Card Logic
44/30/19	1961	FERRANTI Technical Description PLUTO - Chapter 4 - Packages
44/30/20	1957	FERRANTI Engineering Data MERCURY - Envelope containing miscellaneous technical papers
44/30/21	1957	FERRANTI Engineering Manual MERCURY - Core Store Commissioning Procedure & Core Store Test
44/30/22	1962	FERRANTI Engineering Manual PEGASUS - Vol 1 Book 1
44/30/23	1962	FERRANTI Engineering Manual PEGASUS - Vol 1 Book 2
44/30/24		FERRANTI Engineering Manual PEGASUS - Vol 2 B.E.P. 2
44/30/25	1962	FERRANTI Engineering Manual PEGASUS - Vol 2 B.E.P. 3
44/31/1	1962	FERRANTI Provisional information for PEGASUS Manual PEGASUS 2 - Vol 4 BEP 3
44/31/2	1962	FERRANTI Provisional information for PEGASUS Manual PEGASUS 2 - Vol 5 BEP 3
44/31/3	1962	FERRANTI Provisional information for PEGASUS Manual PEGASUS 2 - Vol

6 BEP 3

44/31/4	1962	FERRANTI Logical Description and Maintenance Manual PEGASUS (F.P.C. 1) - Vol 6 Magnetic Tape Store
44/31/5	1962	FERRANTI Logical Diagrams PEGASUS 2 - Functions 27, 37, 57, 76
44/31/6	1960	FERRANTI Technical Manual Issue 3 (2 copies) High Speed Tape Reader Type TR 5
44/31/7	1961	FERRANTI Technical Manual Issue 4 High Speed Tape Reader Type TR 5
44/31/8	1962	FERRANTI Technical Description Teletype 110 c/s Punch for Mercury, Pegasus & Sirius
44/31/9		ANELEX Technical Description High Speed Printer Buffer System for Ferranti
44/31/10	1961	FERRANTI Technical Description Universal Input/Output Scheme for Mercury, Pegasus II & Sirius II
44/31/11	1962	FERRANTI Technical Description Modifications to the TR 5 Manual
44/31/12	1959	FERRANTI Operators Manual Converter Type A
44/31/13	1961	FERRANTI Technical Description General Specification for Standard Input/Output Peripheral Design
44/31/14	1961	FERRANTI Technical Description Collected info and design data relating to peripheral equipment
44/31/15		FERRANTI Technical Description Provisional Description of ATLAS/ORION Peripherals
44/31/16	1961	FERRANTI Engineering Manual ATLAS System and Logic
44/31/17	1961	FERRANTI Engineering Manual ATLAS Basic Packages

44/31/18	1958	FERRANTI Engineering Manual Magnetic Drum Multi-Head Block
44/31/19	1959	FERRANTI Engineering Manual Ferrite Core Store designed for use as a buffer store
44/31/20	1960	FERRANTI Engineering Manual 1009 Magnetic Drum for LEO
44/31/21	1959	FERRANTI Engineering Manual NEURON Printed Circuit Boards
44/31/22	1959	FERRANTI Engineering Manual NEURON Circuits Interconnects
44/31/23	1965	FERRANTI Engineering Manual DDC - Direct Digital Control
44/31/24	1965	FERRANTI Marketing material Review from 'Automation'
44/31/25	1966	FERRANTI Sales Information List of Dates of Contracts Awarded
44/31/26	1965	FERRANTI Sales Information ARGUS 400 System
44/31/27	1963	FERRANTI Sales Information ATLAS II - TATA, India
44/31/28	1963	FERRANTI Sales Information ORION II - Prudential
44/31/29	1963	FERRANTI Sales Information ORION II - Prudential
44/31/30	1963	FERRANTI Sales Information ORION II - Eastern Electricity Board
44/31/31	1964	FERRANTI Programmer's Manual ATLAS II System Programmer's Manual
44/32/1	1964	TELETYPE Engineering Manual 33 Teletypewriter - Vol I
44/32/2	1964	TELETYPE Engineering Manual 33 Teletypewriter - Vol II
44/32/3	1957	RAE Engineering Manual Data

Transmission of Punch Cards

44/32/4		LFE (Laboratory for Electronics) Engineering Manual Random Access Memory (for IBM)
44/32/5		GERBER Sales Brochure System 40 Auto Artwork Generator
44/32/6	1969	NCR Engineering Manual Therman Dot Matrix Printer
44/32/7	1961	EMI Engineering Manual 2400 Computer
44/32/8	1962	EMI Operators Manual 2400 Computer
44/32/9	1967	ENGLISH ELECTRIC Technical Report Optical Character Recognition
44/32/10	1965	MARCONI Engineering Manual Data Transmission - Vol I
44/32/11	1965	MARCONI Engineering Manual Data Transmission - Vol II
44/32/112	1965	MARCONI Engineering Manual Data Transmission - Vol III
44/33/1	1963	ELLIOTT Engineering Manual 503 Computer
44/33/2	1962	ELLIOTT Programmer's Guide 803 National Elliott Computer
44/33/3	1967	ELLIOTT Engineering Manual CRM 400 - 109 Card Reader
44/33/4	1961	ELLIOTT Engineering Manual High Speed Card Reader
44/33/5	1964	ELLIOTT Maintenance Manual Medium Speed Tape Reader Types T2/202, T2/203, T2/206
44/33/6	1965	ELLIOTT Field Engineering Manual Paper Tape Reader Type R110
44/33/7	1965	ELLIOTT Field Engineering Manual Paper Tape Punch Type P135

44/33/8	1968	ELLIOTT Engineering Manual 4100 Computer - Vol 4 Part 6 - Eng Maintenance - Logic Elements
44/33/9	1968	ELLIOTT Engineering Manual 4100 Computer - Vol 4 Part 5 - Eng Maintenance - Optional Units
44/33/10		SOLARTRON Sales Brochure Electronic Reading Automation
44/33/11		ICT ESSI Operators Manual Director - Flame Cutters
44/33/12	1964	LEO Technical Guide Computer Installation
44/33/13		FRIDEN Technical Description Flexowriter Input/Output Device
44/33/14		FRIDEN Internal Logic Flexowriter Input/Output Device
44/33/15	1962	FRIDEN Technical Description Collectadata 30 Data Collection System
44/33/16		POST OFFICE Technical Data Relay Design
44/33/17	1963	LEO System Specification (3 <i>copies</i>) LECTOR Document Reader
44/33/18	1963	LEO Technical Drawing LECTOR Document Reader
44/33/19	1963	LEO Engineering Specification & Test Specifications LECTOR Document Reader
44/33/20	1963	LEO Test Procedures LECTOR Document Reader
44/33/21	1954	ICT Specification Papers Research Papers on 591 Card Reader for 1201
44/33/22		Research Paper Investigation of Silicon Photo-Voltaic Cells for Card Reading
44/33/23	1956	ICT Memos Feasibility of reading

Bank Cheque Codes

44/33/24	1956	ICT Specification RAE Fast Access Card Reader
44/33/25	1955	KODAK Paper Application of Mini Card System to problems of documentation
44/33/26	1962	UPTIME Contract Speedwriter - Card Reader
44/34/1	1975	CYPHER Engineering Manual 100X Magnetic Tape Recorder
44/34/2		BULL Engineering Manual Interpreter - 3 small manuals (<i>in French</i>)
44/34/3	1974	DECISION DATA Engineering Manual 8001 & 8010 Interpreting Data Recorder
44/34/4	1969	BRYANT Engineering Manual 2851 Magnetic Drum
44/34/5	1970	ICL Engineering Manual Termiprinter
44/34/6	1952	POWERS Engineering Manual Maintenance Manual of 40 column Equipment
44/34/7	1936	POWERS Engineering Manual Tabulator Timing & Adjustments
44/34/8	1960	ICT Parts List Type 365 Collator
44/34/9	1965	ICT Field Engineering Manual Type 209/1 Computer Read Punch
44/34/10	1963	ICT Field Engineering Manual ASM 18 Computer Read Punch
44/34/11	1964	ICT Field Engineering Manual Type 36 Punch Check Digit for N.C.B.
44/34/12	1968	ICT Field Engineering Manual Type 66/3 Punch Check Digit Feature
44/34/13	1962	ICT Operators Manual Sorter Types

		302/0, 302/4 & 313/0
44/34/14	1968	ICT Operators Manual 424 Interpreter - TP 3352
44/34/15	1955	ICT Operators Manual (2 copies) Collator Types 365 & 368
44/34/16	1959	ICT Operators Manual Type 30 Automatic Key Punch
44/34/17	1953	ICT Technical Drawings Special Features on the 1951 Census Universal Printing Counting Sorter
44/34/18	1953	ICT Parts List Special Features on the 1951 Census Universal Printing Counting Sorter

45 Boxes

Box 45/1

1	1969	ICL 071/1 & 071/2 Program Card Punches TP 3395
2	1974	Teletype 33 Teletypewriter Sets Eng Man - Keyboard Send/Receive (KSR) - Receive Only (RO) - Automatic Send/Receive (ASR)
3	1948	BTM Non-Printing Card-Counting Sorter Tech Note
4	1971	ICL Type 203 & 208 Reproducers TP 2021
5	1966	ICL Type 424 Interpreter TP 3352
6	1970	ICL Automatic Computing Enhancement TP 3399 (attachment to 900 series Tabulators)
7	1969	ICL Type 314 Sorter TP 3120
8	1969	ICL Types 302/0, 302/4, 313/0 Sorters TP 2006
9	1967	ICL 902, 903 & 906 Tabulators TP 3116

10	1967	ICL Type 365 & 368 Collator TP 2004
11	c1958	Powers EMP B1 & B2 Maintenance Manual
12	c1959	ICT Basic Notes for EMP Course
13	1948-55	BTM Reminders, filed by Edgar H. Bell, containing: - punched card application flowcharts - 2-week course on Hollerith equipment for users and prospects - plugging examples
14		BTM Quick Insert Device for JRT and SRT Tabulators with Ledger Posting Device
15	1941	BTM The Senior Rolling Total Tabulator
16	1957	BTM The Type 587 Tabulator with a note on the 582 Gang Punch
17	1950	BTM Type 805 Tabulator
18	c1959	ICT P.C.C. Programming Manual
19		Powers The Restyled Reproducer 65/80 column normal & interstage
20	1952	Powers Tabulator Head - Parts Catalogue
21	1933	Powers Powers Four - Variations of Direct Subtraction
22	1946	Powers Multiplier: Adjustments for 36 & 65 column Sterling Multiplying Punches
23	1925	Acc & Tab Parts Catalogue for Numerical Printing Punch
24	1925	Acc & Tab Parts Catalogue for Lasker Sorter
25	1919	Powers (New York) Parts Catalogue for Automatic Printing Tabulator

26	1920	Powers (New York) Parts Catalogue for 45 column Tabulator
27	1958	ICT Type 31 Keystor Punch - Parts List
28	1953	BTM Type 103 Mechanical Verifier - Parts List
29		ICT ICT 40-column Card Punch linked to the Kimball Tag Reader
30		Powers The Powers-Samas "One" Equipment (21 col) Ops Man
31		Powers The Tabulator for 36 and 40-column cards Ops Man
32		Powers The EMP Ops Man
33		ICT Type 44 Automatic Key Punch (40 col) Ops Man
34	1963	ICT Type 327/0 Sorter (40 col) Ops Man
35	1966	ICT Type 64 & 65 Automatic Key Punch TP 3353
36	1962	ICT 558 Programming Manual
37	1960	ICT Restyled Automatic Key Punches - Parts List Type 34/0 (rectangular hole), 48/1 (65 col), 48/3 (130 col) 49/0 (80 col), 49/1 (160 col)
38	1959	ICT 21 Column Equipment - 2 copies Ops Man
39	1963	ICT 558 Computer Ops Man
40	1961	ICT Samastronic Independent Print Head for E.M.I. Computer Field Engineering Manual
41		ICT Powers Tabulating - an engineer's personal course notes
42	1954	Powers 65 col EMP - an engineer's personal course notes

43	1938	BTM Automatic Gang Punch Ops Man
44	1940	BTM Summary and Balance Punching on 38-column Ops Man Rolling Total Tabulator
45	1940	BTM 38-column Rolling Total Tabulator Ops Man
46	1938	BTM E6/6 Tabulator Ops Man
47	1957	B^M 32 & 31 Keystor Punches and Ops Man 29/2 Automatic Key Punch
48	1938	BTM Automatic Electric Duplicating Key Punch and Ops Man Automatic Electric Key Punch
49	1947	BTM Automatic Electric Duplicating Key Punch and Ops Man Automatic Electric Key Punch
50	1951	BTM The Collator Ops Man
51	1951	BTM Alphabetical Interpreter Ops Man
52	1946	IBM Principles of Operation of Card Punching & Verifying Machines
53	1947	IBM Type 602 Calculating Punch - Customer Engineering Manual of Instruction
		<i>Box 45/2</i>
1	1960	ICT Fitting Instructions for the 80-column Rectangular Hole Punch (from Number 025 onwards)
2	1961	ICT Type 915 Tabulator Ops Man
3	1959	BTM/ICT Junior Rolling Total Tabulator Types 855 & 856 Ops Man
4	1951	BTM Statement Form Design
5	1953	BTM The Storage Unit (as fitted to Senior Rolling Total Ops Man Tabulators Types 852 & 854)

6	1951	BTM Universal Carriage (A Tabulator feature handling Ops Man either continuous stationery or separate ledger sheets)
7	1946	BTM Alphabetical Printing Duplicating Punch Ops Man
8	1965	ICT 1020 PaperTape Punch and Ops Man 1025 PaperTape Verifier
9	1961	ICT Tape-Controlled Card Punch Types 1036 & 1039 Ops Man
10	1962	ICT Type 550/2 Calculator Ops Man
11	1950	BTM Type 368 Collator Ops Man
12	1951	BTM Carriage Universal Drive Illustrated Parts List
13	1953	BTM Double Alpha Type Unit Assembly Illustrated Parts List (44-wheel for R.A.F. machines)
14	1951	BTM Multi-Read Feed Illustrated Parts List
15	1950	BTM Storage Device Illustrated Parts List
16	1950	BTM Universal Type Unit Illustrated Parts List
17	1958	BTM Type 129 Programme Board Verifier Illustrated Parts List
18	1953	BTM Type 708 Plate-Selecting Tabulator Illustrated Parts List (Adrema)
19	1953	BTM Type 302/4 Sorter Counter Illustrated Parts List
20	1965	ICT The ICT Mark-Sensing Feature for Ops Man Types 203 & 208 Reproducers
21	1961	ICT Universal Paper Feed for Ops Man Types 902, 906 & 915 Tabulators

22	1937	BTM Quick Set Statement Device for E6/6 Tabulator Ops Man
23	1940	BTM Summary & Balance Punching for Ops Man 38-column Rolling Total Tabulator
24	1951	BTM Alphabetical Interpreter Ops Man
25	1951	BTM Line-Finding Device for Ledger Posting Ops Man
26	1951	BTM Type 506 Multiplying Punch Ops Man
27	1956	BTM Type 542 Electronic Multiplier with Type 238 Gang Punch and Type 550 Electronic Calculator with Type 239 Gang Punch
28	1953	BTM Multi-Read Feed Ops Man
29	1953	BTM Type 31 Keystor Punch & Type 129 Verifier Ops Man
30	1959	ICT Type 901 Tabulator Ops Man
31	1958	BTM Type 588 Tabulator with a note on 582 Gang Punch
32	1958	BTM Type 906 Tabulator - Field Engineering Manual
33	1955	BTM Type 901 Tabulator - Field Engineering Manual
34	1956	Type 504 Multiplier - Field Engineering Manual
35	1951	BTM Senior Rolling Total Total Tabulator C.R.S. - Mechanical Service Manual
36	1957	BTM Types 32 & 31 Keystor Punches Ops Man and Type 29/2 Automatic Key Punch
37	1935/36	BTM Punched-Hole Accounting Notes and illustrations describing the operation of Hollerith machines.

		Student's lecture notes (ie course hand-outs)
38	1956	BTM The Hollerith Manual A catalogue of all BTM machines, indexed by class and type number - (engineer's edition, without rental & sale prices)
39	1933-50	BTM Field Engineering Services Manual A collection of Field Engineering and Customer Service Instructions
40	1959	BTM Servicing of Hollerith machines - Tabulators Eng Man
41	c1961	ICT The Reader-Punch for the 1004
42		ICT Type 8000 Optical Character Reader
43	c1962	ICT Type 8500 Document Sorter online to the ICT 1500 System - Programming Considerations
	<i>Box 45/3</i>	
1	c1964	Elliott 503 Computer Manual Volume 2 - Programming Information - Binder 1
2	c1964	Elliott 503 Computer Manual Volume 2 - Programming Information - Binder 2
3	1964	Elliott 503 Technical Information - TIS - 503 - 5 Fortran to Elliott ALGOL Translator - TIS - 503 - 6 Conversion of 803 programs to work with 503 Systems Programs - TIS - 503 - 7 Data Processing Software for the 503 - TIS - 503 - 8 503 Symbolic Assembly Program Mk II - TIS - 503 - 10 Reserved Area Program - TIS - 503 - 11 Peripheral Control Program - TIS - 503 - 12 Segment Tape

Administrative Routines (STAR)
- TIS - 503 - 13 Storage Planning
& Allocation (SPAN)

4 1964 NCR Language H

5 1966 NCR Language H Newsletters #1 to
#13 NCR/Elliott 803B Computer
Operating Instructions

6 c1966 NCR/Elliott Folder containing:
- Language H booklet
- Language H - article reprinted
from Data Processing June 1966
- Language H - training course
notes
- Language H - programming
exercises

7 1971 ICL 4100 computer system -
technical information (booklet)

8 1967 Burroughs 100/B 200/B 300 Series
Electronic Data Processing Systems
- Reference Manual

9 Undated Digital RSTS/E: Resource Sharing
Timesharing System (Extended) -
Technical Brochure

Box 45/4

1 1975 Cipher Mode 100X Magnetic Tape
Recorder - Technical Manual

2 1973 ICL 1925 Paper Tape Punch -
Maintenance Manual TP 8315

3 1972 ICL 1916/9 Paper Tape Reader
Mechanism TP 8317/9

4 1965 ICT High Speed Tape Reader Type TR
6

5 1965 ICT 1901 Introductory Manual

6 1967 ICT Type 1912 Card Reader -
Maintenance Manual

7 1967 ICT Type 2401 Printer -
Maintenance Manual

8	1967	ICT Type 2801-2 Exchangeable Disc Stores - Maintenance Manual
9	1970	Control Data 9450 Disk Storage Drive - Maintenance Manual
10	1971	ICL Type 2601-2 Paper Tape Reader Punches - Maintenance Manual
11	1966	ICT Type 2151 Card Punch - Maintenance Manual
12	1966	ICT Type 1931, 1932, 1933 Printers - Maintenance Manual
13		ICL Termiprinter - full Technical Manual
14	1977	Control Data Flexible Disk Drive
15	1969	ICL Introduction to Computer Systems TP 4157
16	1969	ICL Introduction to George 3 TP 4151
17	1973	ICL 7181/2 Remote VDU - Engineering Software Manual

Box 45/5

1		ICT Arithmetic Unit for the 8501 Audit Lister (sterling version) as supplied to the National Provincial Bank Eng Man
2	1961	ICT 1500 Programmer's Reference Manual - 3 copies
3	c1961	ICT 1500 Training Notes - 2 copies
4	1963	ICT 1500 FAS Manual
5	1965	ICT Type 1922 Card Punch - Maintenance Manual
6	1964	ICT 1300 Series Magnetic Tape Routines & Convention TP 3138 quarter inch (16 kc/s) system

7	1964	ICT 1300 Series Magnetic Tape Routines & Convention TP 3328 one inch (90 kc/s) system, half inch (22.5 kc/s) system
8	1964	ICT 1300 Series Programmer's Reference Manual TP 3165
9	1965	Teletype 32 and 33 Teletypewriter Sets - Technical Manual - Keyboard Send/Receive (KSR) - Receive Only (RO) - Automatic Send/Receive (ASR)
10	1960	Teletype High Speed Tape Punch Set
11	1962	ICT 590 & 593 Serial CardReader - Illustrated Parts List
12	1962	ICT 665 High Speed Printer - Illustrated Parts List
13	1953	BTM Type 541 Electronic Multiplier and 237 Pre-Sensing Gang Punch - Preliminary Operations Manual
14	c1962	ICT Type 8500 Document Sorter online to the ICT 1500 System - Programming Considerations
15		RCA 325 Tapewriter Maintenance Manual 326 Tapewriter/Verifier 338 Monitor Printer
16		RCA 325 Tapewriter Maintenance Manual 326 Tapewriter/Verifier 338 Monitor Printer 328 Interrogating Typewriter
17	c1961	RCA 301 (= ICT 1500) Control Logic - Training Manual
18	c1961	RCA 301 - 333 & 335 Online Printers - Maintenance Manual
19	c1961	RCA 301 - 331 Paper Tape Punch - Maintenance Manual
20	1964	ICT 1004 Data Processor Manual -

		Vol 1 TP 3149
21	1967	ICT 1004 Data Processor Manual - Vol 2
22	1971	ICL 71/8 & 72/8 Punches - Burroughs Link - Maintenance Man TP 8283
23	c1961	RCA RCA 301 - Basic Training Manual
24	1956	IBM 408 Accounting Machine - Operations Manual (preliminary)
25	1945	IBM Type 016 Motor Drive Duplicating Punch - Engineering Manual
26	195	BTM/ICT 1202 Programmer's Guide
27	1959	BTM/ICT 1201 Programmer's Guide
28	1958	BTM/ICT 1201 Programme Testing Procedure

46 Drawings

46/1		POWERS-SAMAS 1 folder of drawings of piece parts
46/2		BTM/IBM and ICT Master Drawings Double-size Technical Manual, containing: "a representative collection of master tracings of piece parts & assemblies which were used on punched card and early computer equipment, ranging from c1920 to c1970; arranged in sequence of part number, regardless of date."
46/3		BTM/IBM and ICT Master Drawings Double-size Technical Manual, continuing the collection from 46/2
46/4		BTM/IBM and ICT Master Drawings Double-size Technical Manual, continuing the collection from 46/2

46/5		BTM/IBM and ICT Master Drawings Double-size Technical Manual, continuing the collection from 46/2
46/6		BTM/IBM and ICT Master Drawings Double-size Technical Manual, continuing the collection from 46/2
46/7	1981	ICL Master Drawings DCU2 Logical diagrams (DCU = Disc Control Unit)
46/8	1980	ICL Master Drawings GTS Logical diagrams (GTS = Group Code Recording Tape Systems)
46/9	1977	ICL Master Drawings MT12 Magnetic Tape Transport (52111/01) Vol 2 of 3
46/10	1977	ICL Master Drawings 2812/5 Applications Module (EDS 200) (EDS = Exchangeable Disc System)
46/11		ICL Master Drawings 51331A Train Printer Reference Manual Vol 2 of 2
46/12	1981	ICL Master Drawings T2CE OD Set
46/13	1971	ICL Master Drawings Miscellaneous engineering components

48 PROBLEM INVESTIGATION ARCHIVE

During his career with ICL, Brian Parker progressed from being an ordinary support engineer into a very experienced diagnostician. He was the sort of man any team of engineers would send for when faced with a particularly obscure bug, when it was not clear whether the problem lay in hardware, software, or the interaction between them both. He became especially expert in the use of the logic analyser, a magnificent diagnostic tool for those who could apply it. This section of the archive records his notes of the years when he and the logic analyser flew around the world in response to many varied distress calls. It thus provides a useful overview of the problems that affected computer users during the period in

question, and illustrates how they were overcome by hard work, methodology and brilliant technical insight.

48/1	OPD
48/2	Printers (various printers and plotters)
48/3	Small Printers ML82A/83A etc
48/4	ML83A control program listing (on top of books)
48/5	PBS Printer Specs & logics
48/6	Laser Printers for Office Systems - Problem investigations
48/7	M5 VIDEO investigations
48/8	PSD 1866, M303 etc Specs
48/9	M15 Terminal Notes etc incl Barron McCann +M15 logics
48/10	OEM bits on Office Systems Specs
48/11	Rodime Fixed disc & Xebec disc controller Specs
48/12	Tandberg CMT Fault investigations
48/13	Tandberg CMT & Emulex controller specs
48/14	ICL PC Specs and logics
48/15	DRS M30/M45/M55 etc Mainly logics & Specs
48/16	ICL PC Book 1
48/17	DRS M30, 40, 50 Problem investigations Book 2
48/18	PCs M30, M40, M50 problem investigations Book 2 (<i>Missing</i>)
48/19	ICL PC Book 3 (incl "Drive A hung)

48/20	CP/M Operating system/use guide
48/21	Personal Basic reference
48/22	8085 Instruction set specification
48/23	DRS - All types prior to DRS 300 - Problems
48/24	DRS 20 specs etc.
48/25	DRS 300 Disc problems (incl NNF review)
48/26	DRS 300 Series - Problem investigations
48/27	DRS 300/CCU (incl ML2)
48/28	RCU/CCU + DRS connect problems
48/29	DRS Connect/MICROLAN 2/IBDN basic info.
48/30	DRS 400E (see also binder No.52)
48/31	DRS 400 disc related specs
48/32	DRS 400 specs & logics
48/33	DRS 400/6406 video/Office Power
48/34	Peripherals, (mostly LW400) on OSLAN/DRS400 etc
48/35	DRS 3000 I/O Problems & Exabyte spec
48/36	DRS 6000 mainly logics & specs
48/37	DRS 6000, Microlan investigations & info
48/38	DRS 6000 VAIO - B232
48/39	DRS 6000 I/O Book 1
48/40	DRS 6000 I/O investigations Book 2
48/41	DRS 6000 I/O Investigations Book 3

48/42	System 25 investigations
48/43	S25 Useful info for LA applications
48/44	S25 CMT SCSI i/f etc.
48/45	SCSI Spec Part 1
48/46	SCSI Spec part 2
48/47	"S" Series OCP's problem investigations
48/48	SCU 1 & SCU 1+ Fault investigations
48/49	SCU Fault investigations Book 2
48/50	Oslan Bridges
48/51	Retail Applications
48/52	DRS 400/400E Async bugs & Logics

49 Product Descriptions and other marketing documentation - Series 39 and subsequent ranges.

In the following entries '4RB' is short for '4-Ring Binder', 'Tpnnnnn' is the identifying number of an official ICL Technical Publication

49/1	<p>4RB SERIES 39 - Site Preparation Package: Physical dimensions, electrical specifications and environmental constraints of many system components</p> <ul style="list-style-type: none"> - TRIMETRA and SERIES 39 Environmental Data - SERIES 39 Site Preparation - reference sheets - TRIMETRA and SERIES 39 - System Cabinet - SERIES 39 - Large mainframe and distributed system nodes - Comms modules - MPSU, Macrolan etc <ul style="list-style-type: none"> - module and cable specifications - Remote connections - Macrolan and SMARTfibre cable specifications - SMARTarray - controllers and disc units - Disc units - FDS 300, FDS760, FDS2500 and FDS20G - MT3000, CS3000, etc Tape Cartridge and Library systems - Panther, TwinPeaks and Timberline Library and Cartridge modules
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- MTS 780, 310, 470 and 780 systems, QIC 120
- HSXC, MCU1, MCU4, HSOG, SCC
- PP250, PP200 Page printers and controllers
- LP2000, LP1440, LW400/800 and other printers
- Series 39 Stacker for Cabinets 1, 2 and 3

49/2		4RB SERIES 39 - Site Preparation Package - Vol 2
49/3	1983	TP 39400200 First Edition SERIES 39 Mainframe Services - Installation Planning Guide
"	1990	TP 39400206 Fifth Edition SERIES 39 Installation Preparation Guide
"	1991	TP 39400500 Second Edition MACROLAN Hardware Planning and Installation Guide
"		TP 39400202 Fourth Edition OSLAN Hardware Planning and Installation Guide
"		4RB SERIES 39 - Product Descriptions (S3L, DM1 and MACROLAN)
49/4		LEVEL 80 Packages/Options and Conversions
"	Nov 89	LEVEL 65 Packages/Options and Conversions
"	Aug 90	LEVEL 40, 50, 50XP & 60 Upgrades and Enhancements
"	Jul 86	LEVEL 60 Packages/Options and Conversions
"		Large Mainframe Main Store
"	Jun 89	MACROLAN
"	May 90	Harsh Environment Macrolan
"	Aug 91	Long Macrolan Repeater Unit
"	Sep 91	Switchable MPSU

"	Dec 87	FDS5000
"	Apr 90	FDS2500
"	June 92	FDS760
"	Apr 86	MTS310, 470, 780
"	Oct 85	HIC Tape System - The Choices
"	Sep 92	Cartridge System 3000 (CS3000)
"	Feb 94	Cartridge System 3000 (CS 3000)
"	Dec 96	MT3000
"	Mar 93	MT3000 ECRE Data Compression Option
"	Aug 94	Auto288 - Automated Cartridge System
"	Jun 97	RCS & Wolfcreek Library Server Units
"	Dec 95	SMARTtape Controller and Timberline
"	Feb 97	Series 39 Robotic Cartridge Systems and Wolfcreek
"	Jan 96	Wolfcreek Robotic Cartridge System
"	Jan 96	RCS 18-track Cartridge Drive Units
"	Jan 96	Robotic Cartridge System (RCS)
"	Jul 92	Robotic Cartridge System (RCS)
"	Apr 85	OSLAN Physical Components
"	Apr 91	OSLAN Transceiver, IEEE 802.3 Conformance 'N' Fitting
"	Mar 87	Open Systems Gateway/Modular Control Unit 3 (MCU3)

	"	Dec 91	Series 39 DRS Start-Up Terminal
	"	Jul 91	Stackers
	"	Apr 90	High Speed X.25 Controller Packages and Enhancements
	"	Dec 89	OSPAC Interface Cables
	"	Jun 89	DATEX 100 Support Services
	"	Jun 89	DATEX 100 Site Planning Service
	"	Jun 89	DATEX 100 Installation Service
	"	May 91	DATAPORT
	"		4RB SERIES 39 - Product Descriptions (Series 39 DX Systems)
49/5		Jul 92	Series 39 DX Systems
	"	Jan 92	Series 39 DX Peripherals & Communications Equipment
	"	Aug 96	Series 39 GI-30 Product Announcement
	"	Aug 96	Series 39 GI-30
	"	Oct 95	New discs for Series 39 DX Systems
	"	Sep 95	Series 39 GI-20
	"	Sep 95	Series 39 GI-20 Product Announcement
	"	Jul 95	Series 39 GI-20 Pre-Disclosure Information
	"	Mar 96	FDS20G Data Module
	"	Apr 95	FDS20G Data Module
	"	Mar 92	Series 39 Extended Systems Storage
	"	Sep 99	Correspondence re Open Reel Customers in Local Government
	"	2000	Magnetic Tape Upgrade Guide for

VME

"	Jun 98	Memo: The implications of DLT only tape systems
"	Apr 97	Memo: Requirements for Tape Developments
"	Apr 97	Memo: Strategic Tape Solutions
"	Jul 97	Memo: Pricing Expectations - Tape Systems
"	Aug 97	Memo: Panther Cost Justification
"	Mar 97	Memo: DLT4000 Transfer Rates
"	Jun 96	HIC Tape Systems - The choices for 36 track (and DLT)
"	Feb 98	Cables for connection of Trimetra to Tape drives in a Panther 9710
"	Apr 98	Options for Corporate Storage on Trimetra DY and LY Systems
"	Nov 96	Panther-9710, TwinPeaks 4890 and DLT4000
"	Nov 98	StorageTek Robotic Cartridge Systems
"	Jan 99	Panther-9710 Robotic Cartridge System
"	Apr 98	9714 Robotic Cartridge System
"	May 96	Series 39 Macrolan Tape Controller
"	Nov 98	Ultra10 Library Server Unit
"	Nov 98	Year 2000 Compliant LSU and Software
"		4RB SERIES 39 - Product Descriptions
49/6	Apr 97	SMARTarray: Old Disc Buy-Back Offer
"		Trimetra UNS and Series 39 SXRF

Disk Pricing by Usage

"		Trimetra UNS and Series 39 SXRF RAID Disk Packages
"	Jul 96	QuickBuild on SX and DX - User Based Charges Offer
"	Mar 95	Series 39 SX Systems Flexipower
"	Mar 96	Series 39 SX Systems S Range
"	May 94	Series 39 SX Systems S Range
"	Mar 96	Series 39 SX Systems
"	May 94	Series 39 SX Systems
"	Mar 93	Series 39 SX Systems
"	Apr 98	Relational Feature (SXRF) for Series 39 SX Systems (Hardware)
"	Apr 97	Relational Feature (SXRF) for Series 39 SX Systems (Hardware) - Product Announcement
"	Mar 96	Series 39 Main Store
"	Jan 92	Series 39 SX Macrolan - Inter-Node Connection
"	Jan 92	Series 39 SX Macrolan - Peripheral Connection
"	Jan 92	Series 39 SX Peripherals and Communications Equipment
"	Apr 95	Series 39 HSOG Replacement
"	Jan 92	Series 39 High Speed OSLAN Gateway
"	May 94	Series 39 SMARTfibre
"	Jan 98	SMARTfibre
"	Nov 99	Trimetra Controller Cabinet
"	Nov 98	SCSI Extenders
"	May 94	Series 39 SMARTarray

"	May 97	SMARTarray-100 and SMARTarray-200
"	Aug 94	Series 39 Remote Diagnostic Concentrator - Product Announcement
"	Aug 94	Series 39 Remote Diagnostic Concentrator
"		SMARTarray performance statistics - c15 pages
"	Mar 95	RDC on Series 39 SX Systems
"	Feb 97	Series 39 SMARTarray 150 - Product Announcement
"	Jan 97	Series 39 SMARTarray 150
"	May 97	Series 39 SMARTarray 300 - Product Announcement
"	Jan 98	Series 39 SMARTarray 300
"	Apr 97	Series 39 SMARTarray 300
"	Apr 97	Series 39 SMARTarray RAID System - Product Announcement
"	Apr 97	Series 39 SMARTarray RAID System
"	May 97	SMARTarray T300 - Product Announcement
"	Jun 97	SMARTarray T300
"		Trimetra UNS 3.5 Management Workstations and Consoles
"	Jan 98	VME PC System Start Up Terminal
"	Sep 96	SMARTlan Ethernet Controller 10/100 - Product Announcement
"	Jul 96	SMARTlan Ethernet Controller 10/100
"	Jan 97	SMARTlan EC 10/100 - Technical Briefing

	"	Jun 96	SMARTlan EC - Technical Briefing
	"	Jun 96	SMARTlan Ethernet Controller - Product Announcement
	"	Jun 96	FDDI-LC - Product Announcement
	"	Oct 95	FDDI-LC for Series 39 SX Systems
	"	Feb 97	Series 39 GatewayPLUS - Product Announcement
	"	Jul 96	Series 39 GatewayPLUS
	"	Oct 96	Series 39 GatewayPLUS - Technical Briefing
	"	Feb 97	Terminal to Series 39 OpenVME Connection Options
	"	Dec 95	Series 39 Networking - Memo
	"		4RB SERIES 39 - Product Descriptions
49/7		Feb 94	Application Master 300 VME
	"	Feb 94	Application Master Run-Time Library 300 VME
	"	May 89	Application Master 250 VME
	"	Apr 87	COBOL Compiling System for VME
	"	Apr 87	COBOL Path Analysis for VME
	"	Apr 87	COBOL Interactive Testing System for VME
	"	May 89	Data Dictionary System 800 VME
	"	May 89	DDS Multiple Project Management 800 VME
	"	May 89	DDS Multiple Project Management 800 VME
	"	May 89	DDS User Retrieval 800 VME
	"	Apr 87	Direct CAFS Interface Plus for VME

"	Feb 88	PROGRAM MASTER Interactive Program Development Environment for VME
"	Feb 94	QUERYMASTER 250 (CAFS-ISP version)
"	Feb 94	QUERYMASTER 250 (non-CAFS version)
"	Apr 87	QUERYMASTER 250 (CAFS-ISP version)
"	Feb 94	QUERYMASTER Management System for VME
"	May 97	QuickBuild Package (Version 3)
"	May 97	QuickBuild Run-Time Package (Version 3)
"	May 89	QuickBuild Pathway 250 VME
"	May 89	QuickBuild Pathway & Automatic System Generation 250 VME
"	May 89	QuickBuild Automatic System Generation 250 VME
"	Feb 92	QuickBuild Workbench Support for VME
"	Apr 89	Visionmaster Development Option VME (version 110)
"	Apr 89	Visionmaster Service Option VME (version 110)
"	Dec 96	COBOL Interactive Testing System for VME
"	Dec 96	FORTTRAN 77 Compiling System for VME
"	Aug 98	Liberator for VME
"	Aug 98	Librarian for VME
"	Aug 98	Vision for OpenVME
"	Jan 96	UK Commercial Routines
"	Dec 96	CAFS search Option for OpenVME
"	May 97	Equipment Installation Service

"	Apr 89	Equipment Warranty Service
"	Nov 91	Series 39 VME Software Error Correction Service
"	Apr 85	VME Upgrade Planning Service
"	Apr 85	VME Upgrade Planning and Implementation Service
"	Apr 85	VME Software Maintenance Service
"	Sep 90	Series 39 System Teleservice
"	Mar 87	Series 39 Equipment Service - Secure Site Service
"	Nov 95	SMARTmove - Memo
"	Nov 95	ASPYRE OpenVME SMARTmove Service - Product Announcement
"	Nov 95	ASPYRE OpenVME SMARTmove Service
"	Mar 91	Series 39 Systems Warranty Service
"	Oct 92	Series 39 System Service Silver
"	May 91	Series 39 VME Node Replacement Services
"	Mar 91	PC-PARIS - Support Knowledge Information on CD-ROM
"	May 91	Series 39 VME System Resilience Review
"	Jun 95	Transition Guide for moving Filestore to SMARTarray
"	Aug 97	Trimetra Datacentre Solutions Exploiting UNS
"	Aug 96	ASPYRE Panther Exploitation
"	Aug 96	ASPYRE Continuous Consultancy
"	May 96	OpenPLUS Services - Product Announcement
"	May 96	CustodianPLUS

"	May 96	CustodianPLUS - Product Announcement
"	May 96	OpenPLUS ReViewDirect Services Portfolio
"	Apr 95	ReViewDirect - PC access to non-relational data on Series 39
"	Dec 94	ReViewDirect Server for VME SV294
"	Dec 94	ReViewDirect Client
"	Oct 97	ASPYRE Services
"	Nov 95	BACSTERPLUS Transfer Exchange Routines for VME
"	Nov 95	BACSTERPLUS for VME X25 Service
"		Satelcom MegaBOX and MegaPAC-E
"	Sep 85	BACSTERPLUS Transfer Exchange Routines for TME
"	Feb 89	BACSTERPLUS Transfer Exchange Routines for VME
"	Apr 90	LAFIS Core Module
"	Apr 90	LAFIS Budget and Forecast Module
"	Apr 90	LAFIS Database Generation Software Module
"	Mar 92	LAFIS Database Reorganisation Service
"	95	VISION Documents on Demand - Product Overview
"		Dialogue Manager - Datasheet
"	Jul 96	Dialogue Manager Newsletter
"	Oct 96	Dialogue Manager Newsletter
"		Dialogue Manager Qualification Questionnaire
"	Aug 96	Dialogue Manager Version 3 Level 5 - Product Announcement

	"	Aug 96	Dialogue Manager Version 3 Level 5
	"		Dialogue Manager Case Studies
	"		4RB SERIES 39 - Product Descriptions
49/8			Twin Peaks to 7000 or 9840 - Trade-in Programme
	"	May 98	Twin Peaks 4890
	"	Jun 97	Digital Linear Tape 4000
	"	May 97	DLT4500
	"	May 97	Digital Linear Tape 4500
	"	May 98	Digital Linear Tape 7000
	"	Sep 99	PowerStor L200 Stacker Loader
	"	Mar 97	Direct connection of non-VME systems to Panther-9710
	"	Feb 97	The elements for connecting servers to Panther-9710
	"	Feb 97	Visit to Storagetek, Colorado - Memo
	"	Nov 92	Line Writer 400Q
	"	Apr 90	Line Writer 800Q
	"	Apr 90	FP1500
	"	Apr 90	FP2000 (OSLAN)
	"	Apr 90	LP2000
	"	Sep 94	PP220/PP230 - Corporate Laser Printers for Series 39
	"	Oct 94	PP220 & PP230 - Corporate Laser Printers for Series 39 - Product Announcement
	"	Oct 94	Laser Pack Price Restructuring for Series 39 Cut Sheet Printers - Product Announcement

"	Sep 94	Laser Pack for Series 39 Cut Sheet Printers
"	Oct 94	PP2125 High Volume Cut Sheet Laser Printer for Series 39 - Product Announcement
"	Sep 94	PP2125 High Volume Cut Sheet Laser Printer for Series 39
"	Oct 94	ICL Laser Printing System and ICL Large Laser Printer Service
"		OpenVME V1 - Cessation of Support - Memo
"	Jul 99	VME/OpenVME Software Upgrade Service
"		OpenVME Version 4 - Advance Reslease Description
"	Feb 95	OpenVME: Upgrade or Run Time Set
"		Sales Guide - OpenVME and Trimetra System Software
"	Sep 98	OpenVME Version 3 - Product Announcement (2 copies)
"	Sep 98	Run Time Set for OpenVME Version 3
"	Sep 98	Trimetra System Software Version 2
"	Jan 97	OpenVME Version 2
"	Jan 97	Run Time Set for OpenVME Version 2
"	Nov 94	Run Time Set for OpenVME Version 1
"	Feb 94	TPMS Run Time System for OpenVME
"	Feb 94	IDMS Extended Version Run Time System for OpenVME
"	Feb 94	VME-X Development for OpenVME
"	Jun 95	UNIX Networking for OpenVME
"	Feb 94	Run Time Set for VME

"	Mar 98	VME Control Desk
"	Mar 98	VME Control Desk Central Control Option
"	Mar 98	OpenVME Software on CD-ROM
"		How to Review the Weighting Factors used by the Accounting Algorithm
"	May 97	Accounting Option
"	May 97	Automated System Operator
"	May 97	Batch Recovery Option
"	Feb 94	Concurrent Session Access Option for VME
"	Jan 90	Enhanced Filestore Option for VME
"	Jan 98	Filestore Management Option
"	Feb 94	Remote Access Option for VME
"	Jan 90	System Programming Option for VME
"	Aug 93	Tape Handling Routines for VME
"	Oct 91	Work Scheduling Option for VME
"	Jun 90	VME FTAM (File Transfer, Access & Management)
"	Sep 94	Popular Option Package for OpenVME
"	Feb 94	Base Option Package 1 for OpenVME (2 copies)
"	Dec 97	UNIX Interworking for OpenVME
"	Feb 94	VME Base Option Package 2
"	Feb 96	IDMSX 610 Product Set for OpenVME
"	Feb 94	IDMS Extended Version (IDMSX)
"	Feb 94	IDMS Extended Version Run Time System for OpenVME

	"	Feb 96	IDMSX High Performance Option for OpenVME (2 copies)
	"	Aug 91	Utilities for IDMSX on VME
	"	Jul 87	IDMS Restructure Utility
	"	Feb 94	TPMS and IDMSX Development Package for VME
	"	Jun 96	OpenTP Release 3.1 - Product Announcement
	"	Apr 87	Transaction Processing Management System for VME
	"	Feb 94	TPMS Run Time System for OpenVME
	"	Feb 93	Open Systems Transaction Management Release 3 Version 3
	"	Jan 88	TPMS XE Option for VME
	"	Feb 94	TPMS XL Option for VME
	"	May 97	Distributed Transaction Processing System
	"	Dec 90	VCMS Planning Option
	"	Apr 94	VCMS Tuning Option
	"	Sep 92	OpenVME Custodian for UNIX
	"		4RB SERIES 39 - Product Descriptions (TRIMETRA DL Servers and Services)
49/9		Oct 00	Trimetra DL Servers and Services
	"	Jul 00	Trimetra DL Servers and Upgrades
	"	Jun 00	Trimetra 8-Way Processor Module
	"	Sep 00	Trimetra FC5700 Fibre Channel Disk System
	"	Jun 00	Trimetra DL Establishment Service
	"	Feb 00	Trimetra DL System Cabinet

"	Feb 00	Trimetra Dl Disk Cabinet
"		ISDN Service for VME Teleservice
"	Feb 00	Trimetra DL Establishment Service
"		Daffodil - VME on INTEL Phase II - Powerpoint presentation
"		Trimetra DL Future Development - Memo
"	Jul 00	Trimetra DL - Now Shipping - Press Release
"		Trimetra DL Systems on General Release - Memos (10 pages)
"	Jul 99	SX to DL Migration - Business Evaluation Process
"		Account Evaluation - Memos and forms (30 pages)
"	Mar 00	Trimetra DL - Provisional Product Information
"	Feb 00	Trimetra DL - Proposed Configurations for several customers
"	Jun 00	Trimetra Servers - Powerpoint presentation
"	Dec 99	Trimetra DL Hardware Configurations and Upgrades
"	Jan 00	Trimetra DL Physical Design Definition
"	Jan 98	Macrolan Tape Controller
"	Feb 99	ISDN for TCP/IP Teleservice
"		4RB SERIES 39 - Product Descriptions (TRIMETRA SY, LY and DY)
49/10	Dec 98	Trimetra and Series 39 Hardware Product Descriptions

"	Dec 98	Trimetra and Series 39 Software Product Descriptions
"	Dec 98	Trimetra and Series 39 Services Product Descriptions
"	Dec 98	Product Announcements from MSSG Marketing
"	Nov 97	Development of ICM VME Systems from Series 39 to Trimetra
"	Mar 98	Performance of Trimetra LY and SY Systems
"	Sep 98	Trends in IT - Some recent articles
"	Dec 98	Trimetra LY & SY Servers and Services
"		UNS 3.5 Cabinet - Powerpoint presentation
"	Jun 99	Reducing the risk of a VME Trimetra performance issue
"	Mar 00	Trimetra Servers (with UNS 3.5)
"	Nov 99	Trimetra SY Server Upgrades (with UNS 3.5)
"	Aug 98	Trimetra SY Servers
"	Aug 98	Trimetra SY Server Upgrades
"	May 98	Trimetra LY & SY UNS Upgrades (using J700i system components)
"	Jun 97	SMARTarray T300
"	Jun 99	Trimetra LY Servers
"	Apr 99	Trimetra LY Server Upgrades
"	Nov 99	Trimetra DY Servers (with UNS 3.5)
"	Mar 98	Trimetra DY Servers - Product Announcement
"	Jun 99	Trimetra DY Servers

"		DY Presentation - Powerpoint presentation
"	Mar 98	Trimetra System Software and Options
"	Apr 99	Trimetra System Software Version 2
"	May 98	Trimetra System Software Version 1
"	May 97	Trimetra System Software Version 1
"	Aug 99	SCO Unixware on Trimetra
"	Jul 99	UNS Unixware for Trimetra DY, LY and SY Servers
"	May 98	UNS Unixware for Trimetra DY, LY and SY Servers
"	Aug 99	Microsoft Windows NT on Trimetra
"	May 97	Trimetra Systems Warranty Service
"	May 97	Trimetra Equipment Warranty Service
"	May 97	Trimetra Software Error Correction Service
"		Draft T.o.r. for Aspyre Requirements study for heterogeneous backup
"	May 97	Trimetra Services - Trimetra System Service
"	Jun 97	Trimetra OpenVME Workload Migration
"	Jun 97	Trimetra and Smartarray OpenVME Filestore Design & Migration
"	May 97	Unixware Exploitation Service
"	May 97	Unixware Startup Service
"	May 97	Unixware Filestore Design and Migration Service
"	May 97	Unixware Backup and Recovery

		Service
"	May 97	System Healthcheck Service
"	May 97	System Migration Planning and Project
"	Sep 98	Trimetra Controller Cabinet
"	May 97	SMARTarray T300 - Product Announcement
"	Jun 97	SMARTarray T300
"	Apr 97	Series39 SMARTarray RAID System
"	Apr 97	Relational Feature (SXRF) for Series 39 SX Systems - Product Announcement
"	Apr 97	Relational Feature (SXRF) for Series 39 SX Systems - (Hardware)
"	Oct 96	Relational Feature for Series 39 SX (SXRF) - Enabling Software
"	May 98	UNS UNIXware for Trimetra DY, LY & SY Servers
"		SX Relational Feature - Powerpoint presentation
"	Oct 98	EMC Symmetrix Systems - Product Announcement
"	Oct 98	Symmetrix 3000 Integrated-Cached Disk Array Systems
"		4RB SERIES 39 Networking/TRIMETRA Networking
49/11	Aug 00	LEGATO Premium Support
"	Jun 00	Connecting VME to a UTP LAN and a TCP/IP Network
"	Mar 99	Rationalisation of Networking for Unixware Products (3 copies)
"	Sep 99	IPA Networking Products

"	Jul 00	Legato Software - Compatibility Guide
"	Feb 00	Legato NetWorker Information Protection Products
"	Jun 99	Legato Version 5.5 for Windows NT and Unix
"	Aug 00	Legato NetWorker Version 5.5
"	Sep 99	Legato NetWorker on Trimetra
"	Dec 97	Gateway Plus - Product Announcement
"	Jan 00	Gateway Plus
"	May 97	SMARTlan Ethernet Controller 10/100
"		RFC 1006 Sponsor Performance
"	Aug 96	Interworking Plus Services Portfolio
"	Nov 97	RFC 1006 Sponsor for OpenVME
"	Dec 97	UNIX Interworking for OpenVME
"	Mar 98	TCP/IP for VME
"	Mar 00	VME Comms Client 2000
"	Mar 00	VT320+ 2000
"	Mar 00	VME Comms Client 2000 - Product Announcement
"	Mar 00	VT320+ 2000 - Product Announcement
"	Sep 99	Web-View - VME Comms Client for Windows, V2
"	Apr 98	VME Comms Client for Windows, V2
"	Mar 98	VME Comms Client for Windows, V2 - Product Announcement
"	Aug 95	FAQs about Series 39, OpenVME and TCP/IP

		"	3Com LinkBuilder FDDI Hub
		"	3Com LANplex Family Switches
		"	4RB EMC Connectrix Enterprise Director
49/12	Sep 00		Symmetrix 8430 and 8730 Systems
		"	EMC Connectrix Enterprise Director ED-1032 (2 copies)
		"	EMC Connectrix DS-16 (2 copies)
		"	Pricing for Symmetrix 4 Family
		"	Enterprise Storage - Powerpoint presentation
	Sep 99	"	EMC Enterprise Storage Configuration Service
		"	EMC Related Services Available
		"	EMC Lancashire County Council - case study
	Mar 99	"	SYM 4.8 Hardware ICL Pricing
	Jul 99	"	Sizing EMC disc subsystems when attached to VME
	Jun 99	"	EMC Disc System - small configuration
		"	The EMC Effect - Powerpoint presentation
	Apr 99	"	EMC Symmetrix Systems - Product Announcement
	May 99	"	Symmetrix 3630, 3830, and 3930 Systems
		"	EMC Enterprise Storage Software vs HP/HDS Offerings - Fact Sheet
		"	The EMC Effect - the Business View - Powerpoint presentation
		"	EMC Brochures

	"		4RB SAN Storage Area Networks and DataCore software
49/13			SANsymphony Storage Domain Server Software - Powerpoint presentation
	"	Jul 00	SANsymphony Configurator
	"		Datacore software - Storage control in the 21st century - presentation
	"		SANsymphony - The advanced storage controller - presentation
	"		SANsymphony Storage Domain Server Software - Powerpoint presentation
	"		Storage Resource Management for Distributed Systems - Gartner report
	"		Best Practices for Internet-Based Businesses: Storage & Hosting Strategies - Gartner report
	"		Total Cost of Storage Ownership - A User-Oriented Approach - Gartner report
	"		4RB BACK-UP
49/14		Mar 97	Direct connection of non-VME Servers to Panther
	"		CNT Channellink Remote Vaulting - Application Note
	"	Dec 96	Direct connection of non HPS Servers to Panther
	"	Nov 96	Backup Manager and Legato Networker
	"		4RB TRIMETRA P1000 and P2000
49/15			Trimetra Xtraserver P2000 - Sales Guide
	"		Trimetra P2000 - Powering Enterprise Solutions - Product

Announcement

- " Trimetra P2000 Systems
- " Trimetra FC5700 Fibre Channel Disk System
- " Trimetra 8-Way Processor Module
- " Trimetra Policy Scheduler Set-Up Service
- " Trimetra Controller Cabinet
- " Trimetra P2000 - Configuration options
- " Trimetra Xtraserver - Brochure
- " Trimetra Xtraserver P1000i System - Reference Sheet and supporting documentation
- " Trimetra Xtraserver P2000 - Pre-Announcement
- " Trimetra Xtraserver P1000i - Product Announcement
- " Trimetra Xtraserver P1000i - SCO Unixware
- " Trimetra Xtraserver P1000i - Uninterruptible Power Supply
- " Trimetra Xtraserver P1000i - Disk Array
- " Trimetra Xtraserver P1000i - Memory Options
- " Trimetra Xtraserver P1000i Systems
- " Legato Network on Trimetra
- " SCO Unixware - Technical Briefing
- " Trimetra Xtraserver - UNIX Systems Management - Technical Briefing
- " SCO Unixware - Brochures

	"	ACCO SAN - Storage Area Network - Presentation slides and associated notes
49/16	Glued	TRIMETRA Xtraserver - Sales Guide
49/17	Glued	TRIMETRA Xtraserver - UK Sales Briefing 6 th November 1997 - Slides
49/18	Glued	TRIMETRA Enterprise Storage - Sales Briefing 26 th June 1998 - Slides
49/19	Stapled	LIBRARIAN Automated Tape Library Management System - Product Overview and Design Concepts
49/20		ACCO Series 39 Relative Performance - Consolidated Table (12. February 1993)
49/21	Spiral bound	An Introduction to EMC Symmetrix (May 1999)
49/22	Glued	TRIMETRA - Sales Guide (28 May 1997) (Includes contemporary press cuttings)
49/23	Glued	Xtraserver - LG Sales Briefing (23 February 1998)
49/24	Spiral bound	SERIES 39 - SX Systems - Nodes Upgrades and System Enhancements - Planning Guide (June 1992)
49/25	Spiral bound	Environmental Planning Guide (1997)
49/26	Glued	Enterprise Exchange - Sales Guide (1998)
49/27	Spiral bound	SMART Guide
49/28	Spiral bound	Series 39 I/O and Networking Technical Seminar - Presentation slides (1994)
49/29	Spiral bound	Series 39 - The SMART way forward - News Review (1994)

49/30	Glued	ICL Worldwide Integrated Network Service - 1992 Directory
49/31	Glued	Series 39 - Customer Information Catalogue (June 1994) - 2 copies
49/32		Wallet: "Series 39 - Storage Systems", containing:
49/33	1992	Series 39 DX Systems Overview B92/215
"		1993 Series 39 SX Systems Overview B93/006
"	1991	Series 39 Peripherals P3806
"	1992	Series 39 PP250 Printing System B91/304
"	1992	Series 39 LPS40 Printing System B91/305
"	1992	Series 39 FDS20G Data Module B91/306
"	1992	Series 39 Robotic Cartridge System B91/307
"	1991	Series 39 Robotic Cartridge System P3370
"	1992	Series 39 MCU1 - Modular Control Unit 1 B91/308
"	1992	Series 39 ESS Extended Systems Storage B91/309
"	1992	Series 39 Cartridge System 3000 B92/332
"	1992	Series 39 Dataport Connection to Hyperchannel B91/349
"		Wallet: "VME, FORMS, NOVELL", containing:
49/34	1991	VME The Open System X/Open Base XPG3 P3238/2
"	1992	Novell Netware Gateway B92/78

	"	1992	Forms B92/307
	"		Wallet: "Series 39 - Open for the Future - 1991/2 - DX Systems", containing:
49/35		1992	Series 39 DX Systems Overview B92/215
	"	1991	Series 39 DX Systems Management Overview P3423
	"		Series 39 DX Systems Technical Overview P3424
	"		Wallet: "Series 39 - Corporate Systems - 1992", containing:
49/36		1991	Series 39 Corporate Systems P3803
	"	1991	Series 39 SX Systems - Technical Overview P3804
	"	1991	Series 39 DX Systems - Technical Overview P3805
	"		Wallet: "Series 39 - Storage Systems", containing:
49/37		1993	Series 39 Systems Management Open VME Custodian B93/244
	"	1993	Series 39 FDS20G Data Module B93/256
	"	1993	Series 39 Extended Storage System B93/257
	"	1993	Series 39 Cartridge System 3000 B93/258
	"	1993	Series 39 Robotic Cartridge System B93/259
	"		Wallet: "Series 39 - Open for the Future - 1993", containing:
49/38		1993	Series 39 Open Corporate Systems (X/Open,XPG4) B93/005
	"	1993	Series 39 SX Systems Overview

B93/006

" 1993 Series 39 DX Systems (X/Open, XPG4) B93/123

" 1993 Series 39 VME OptICL (floppy disc and folder x 2)

" Wallet: "Series 39", containing:

49/39 1991 Series 39 Hardware Overview, Issue 5 CPD 20.5 B314

" 1991 Series 39 Hardware Overview, Issue 6 CPD 20.6 B30

" 1990 Information Services User Guide x 2 B91/201

" Wallet: "Printers - The ICL Range", containing:
 ICL PP130, PP130D, PP250
 ICL LP400, LP600, LP800, LP1400
 Citizen, Genicom, Fujitsu, HP, MT, OKI, Panasonic,

49/40 Wallet: "OpenVME - The Way Forward", containing:

49/41 1994 OpenVME the way forward B94/26

" 1994 OpenVME UNIX interworking option B94/27

" 1994 OpenVME & TeamOFFICE B94/28

" 1994 Corporate Computing in the '90s - The Role of the Mainframe B94/41

" 1994 TeamOFFICE PS4931

" Wallet: "Series 39 - The SMART way forward", containing:

49/42 1994 Series 39 The **SMART** way forward B94/121

" 1994 Series 39 **SMART**array B94/113

" 1994 Series 39 **SMART**fibres B94/114

	"	1994	Series 39 SX Systems S Range - The SMART way forward B94/115
	"	1994	Series 39 SMART fibre TB001
	"	1994	Series 39 SMART fibre Controller TB002
	"	1994	Series 39 SMART array Disc Modules TB003
	"	1994	Series 39 OpenVME Support for SMART array TB004
	"	1994	Series 39 SMART guide and Marketing Bulletin
	"		Wallet: "Trimetra", containing:
49/43		1997	Trimetra Servers T97/002
	"	1997	Trimetra Services T97/003
	"	1997	Trimetra System Software T97/004
	"	1997	Trimetra Software Solutions T97/005
	"	1997	Trimetra Storage Strategy T97/006
	"		IDC White Paper - IT Futures, Centralisation
	"		Gartner Group - The Survivor's Guide to the Data Center
	"		Wallet: "OPENframework", containing:
49/44		1992	OPENframework, P4004
	"	1992	OPENframework, Architecture Overview P4001
	"	1992	OPENframework, Management Overview P4002
	"	1992	OPENframework, Integration Services P4003
	"	1992	OPENframework, Systems Overview

		Guide OM032
	" 1992	OPENframework, Marketing Bulletins (internal)
	" 1992	OPENframework, Covering letter & disc presentation
	"	Wallet: "Harnessing Information Technology for Business", containing:
49/45	1993	Harnessing Information Technology for Business P4098
	" 1993	1993 Winning business with OPENframework OfM01
	" 1993	1993 OPENframework Marketing bulletins OfM02
	"	Winning Systems Integration Business (x 2) B93/000
	"	Planning to Harness IT for Business (x 2)
	"	SystemWise Providing know-how to integrators (2 catalogue sheets plus a floppy disc)
	"	OPENframework helping you to win business (case studies) Banking Matters, Issue 1, Spring 1993 (Financial Services)
	"	Wallet: "Network Systems", containing:
49/46	1991	Network Systems Business Networks to meet Business Needs P3573
	"	Capability profiles and consultancy services sheets
	"	Wallet: "UNIX Case Studies", containing: Airbreak, Baxters of Speyside, Britannia, Ferry Pickering, Holmes Dresser, Hornby Hobbies, London Borough of Enfield,

M6 Papers, Merrydown, Southern
Water, South Glamorgan C.C.,
Standard Fireworks, United
Transport Logistics

49/47		Wallet: "UNIX Case Studies Summer 1992", containing: Austin Reed, Boys & Boden, Dillons, Dublin Corporation, Granada TV, Holt Jackson, London Borough of Enfield, London Suzuki Centre, Scottish Power, Whyte McKay Group
49/48		Wallet: "GOLDRUSH MegaSERVER", containing:
49/49	1993	ADABAS on GOLDRUSH MegaSERVER B93/303
"	1993	Oracle 7 on GOLDRUSH MegaSERVER B93/304
"	1993	INGRES on GOLDRUSH MegaSERVER B93/305
"	1993	GOLDRUSH MegaSERVER Services Overview B93/306
"	1993	GOLDRUSH MegaSERVER Technical Overview B93/307
"	1993	GOLDRUSH MegaSERVER Open Database Servers B93/308
"	1993	GOLDRUSH MegaSERVER ASK Group and ICL B93/340
"	1993	GOLDRUSH MegaSERVER ICL and Oracle In Partnership B93/342
"	1993	GOLDRUSH MegaSERVER Sales Guide
"	1993	GOLDRUSH MegaSERVER B93/303
"	1993	Product Matters GOLDRUSH MegaSERVER - Special issue
"		Wallet: " Series 39 Client/Server", containing:

49/50	1994	Series 39 Client/Server the IT Solution for the '90s 94\L.147.1
"	1994	Series 39 Client/Server Open TP 94\L.147.3
"	1994	Series 39 Client/Server ReViewDIRECT 94\L.147.4
"	1994	Series 39 Client/Server OpenVME and TeamOFFICE 94\L.147.5
"	1994	Management Report Client/Server - A new Model for IT
"		Wallet: "Series 39 in action", containing:
49/51	1989	Danske Tipstjeneste A/S (S39 distributed systems) MS.B70-01
"	1989	Private Motorists Protection Association Ireland MS.B219
"	1989	European Commission (S39 distributed systems) MS.C8
"	1990	ROF Glascoed (OMAC2000) P3278
"	1990	Ransomes Sims & Jefferies (OMAC2000) P3293
"	1990	Ruston Gas Turbines (OMAC2000) P3350
"	1991	Lansing Linde (Manufacturing) P3445
"	1991	United Transport (Logistics) P3611
"	1991	Meica (Computer Aided Manufacturing) B91/199.2
"	1991	Portman Building Society B91/298
"	1991	London Borough of Camden B91/300
"	1991	Barclays Registrars B91/301
"	1991	Automobile Association B91/302

	"	1992	Thames Valley Eggs (Series 39 DX systems) B92/216
	"	1992	Donside Paper Company (Series 39 DX systems) B92/217
	"	1992	Tamworth Borough Council (Series 39 DX systems) B92/218
	"	1992	Colwyn Borough Council (Series 39 DX systems) B92/219
	"		4-ring binder, "Series 39 - The stand-alone departmental mainframe", containing:
49/52		1989	Series 39 Level 15ME & 25ME B175.01
	"		VME at Work ICL VME - Setting the record straight
	"		ICL at Work Series 39 makes for EC translation
	"	1989	Series 39 Large Mainframes - Power by design P3082
	"		ICL at Work QuickStart means Quality for Brand-Rex P2187
	"	1988	Series 39 - QuickStart Systems tailored to your business needs P2190
	"	1988	Series 39 - Super 39 Service - helping you to exploit the power P2185
	"	1987	INGRES Relational Systems P2003
	"	1988	Series 30 - XP Distributed Systems and associated supporting documents P2189
	"		Wallet: "OPEN framework", containing:
49/53		1992	OPEN framework Management Overview P4002

	"	1992	OPEN framework Architecture Overview P4001
	"	1992	OPEN framework Integration Services P4003
	"	1992	OPEN framework Systems Overview Guide and associated supporting documents OM032
	"		4-ring binder: "S&TS Technical Guide", containing:
49/54		1983	2900 VME Overview P1540
	"	1983	2900 VME System Productivity P1529
	"	1983	2900 VME Comprehensive Data Management P1530
	"	1983	2900 VME Advanced Communications & Networking P1548
	"	1983	2900 VME Security P1549
	"	1983	2900 VME Architecture P1550
	"	1983	2900 VME A Versatile and Secure Service P1551
	"	1983	2900 VME Scope for Growth P1553
	"	1983	2900 VME Moving to VME P1554
	"	1984	2900 CME P1555
	"	1983	2900 VME Continuous Operation P1562
	"	1987	VCSR VME Modelling System A System Overview P2013
	"	1985	Querymaster P1761
	"	1980	Fleetmaster P1314
	"	1984	BACS + BACSTER P1611
	"	1984	PLANES Property Land Network & Spatial Systems P1654

	"	1984	CAFS-ISP P1531
	"		4-ring binder: "Quickbuild User Guide", containing the following chapters: Overview Application Analysis Database Design Application Design Reports Queries Service Set-up Appendices
49/55			4-ring binder: "2900 Marketing Guide, October 1983" - A Focus on Opportunity
49/56			Spiral-bound: "Product Guide, April 1987"
49/57			Spiral-bound: "Product Guide, Autumn 1987"
49/58			Spiral-bound: "Product Preview, Spring 1988"
49/59			Spiral-bound: "Product Preview, Autumn 1988"
49/60			Spiral-bound: "Product Preview, Spring 1989"
49/61		1988	OMAC JIT - Sales and Support Guide
49/62		1992	OPENframework - Systems Transition Guide - OfV92 Issue 1.0
49/63		1992	OPENframework - Systems Integration Guide - OfV92 Vol 1 Issue 1.0
49/64		1992	OPENframework - Systems Integration Guide - OfV92 Vol 2 Issue 1.0
49/65		1996	SERIES 39 SX Systems S Range - The SMART Way Forward
49/66		1993	SERIES 39 SX Systems - Overview

49/67 1991 In Focus - Systems Architectures
49/68 1993 Series 39 Software Catalogue

SECTION 50 Manufacturers not connected to the ICL family

Section 50/1 UNIVAC

50/1/1 1965 UNIVAC
Large (ie >A3) Red 5-ring binder,
containing:
Equipment Diagrams for Uniset
Complex
PX 2034 Vol One (Rev A)
Functional Schematics:
- Uniset Keyboard & Printer Type
4200-01, Serial 101 →
- Uniset Head II Type 8027-01,
Serial 101 →

50/1/2 1964 UNIVAC
Large White multi-ring binder,
containing:
Equipment Diagrams for Programmer
II
PX 2036 Vol 1 (Rev C)
Functional Schematics

50/1/3 UNIVAC
Large White multi-ring binder
labelled on spine "P/C Cards 938 -
994" containing:
Functional Schematics and Parts
Lists

50/1/4 1964 UNIVAC
Large White multi-ring binder
labelled on spine "Buffer
Processor Type 9450 PX 2029 PX
2039" containing:
Equipment Diagrams for Buffer
Processor II PX 2029-1 (Rev T)
Volume 1 - Functional Schematics
for Master Control
Volume 2 - Functional Schematics
for Core Memory
Volume 3 - Functional Schematics
for Interface Controls
Equipment Diagrams for Programmer
II PX 2036

Vol 1 (Rev D) Functional
Schematics

- 50/1/5 1963 Remington Rand UNIVAC
Large White multi-ring binder
labelled on spine: "P/C Cards 943
- 985" containing Functional
Schematics without any heading
page
- 50/1/6 1964 UNIVAC
Large White multi-ring binder
labelled on spine: "P/C Cards 908
- 937" containing Printed Circuit
Card Schematics for Type 976
Series Boards PX 2033 (Rev B)
Volume One
- 50/1/7 1964 UNIVAC
Large grey improvised 4-ring
binder containing:
Equipment Diagrams for Buffer
Processor II PX 2029-1 (Rev T)
Volume One Functional Schematics
for Master Control

Section 50/2 Digico

- 50/2/1 Green spiral-bound binder
MATHCHATPLUS (M16V)
Notes and listings
- 50/2/2 Green spiral-bound binder
MATHCHATPLUS (M16V) - second copy
- 50/2/3 Green spiral-bound binder
MATHCHATPLUS - Version for M16V
Various typed and handwritten
sheets, clipped together
- 50/2/4 Green spiral-bound binder
TOPSTACKPLUS - 28 August 1980
Listings
- 50/2/5 Green spiral-bound binder
TOPSTACKPLUS - 28 August 1980 -
second copy Listings
- 50/2/6 Green spiral-bound binder
TOPSTACKPLUS - 28 August 1980 -
third copy Listings

50/2/7	Buff envelope printed "Royal Holloway College" TOPSTACKPLUS - 28 August 1980 Listings
50/2/8	Green spiral-bound binder E-LENS CONTROL BOX Listings and drawings
50/2/9	DIGICO Orange card-bound A4 booklet MICRO 16-P COMPUTER Specification and Description
50/2/10	DIGICO Purple card-bound A4 booklet MICRO 16V COMPUTER Manual Specification and Description
50/2/11	DIGICO Black spiral-bound manual MICRO 16V EXECUTIVE Specification
50/2/12	DIGICO 4-hole punched; no cover MICRO 16 Operator Handbook
50/2/13	DIGICO folded large-scale technical drawings INTER-PROCESSOR LINK (MICRO 16 TO MICRO 16) Drawing numbers 332- 0202 and 332- 0203
50/2/14	DIGICO 4-hole punched; clipped together MICRO 16P Instruction Test Specification No 5189 - Issue 1 and other test programs
50/2/15	DIGICO 4-hole punched; clipped together MICRO-16 Binary Relocatable Loader
50/2/16	DIGICO 4-hole punched; clipped together MICRO 16 and MICRO 16P Binary Read Program
50/2/17	DIGICO 4-hole punched; clipped

		together MICRO 16 Operator Handbook
50/2/18		DIGICO 4-hole punched; clipped together Bootstraps for MICRO 16 and MICRO 16-P
50/2/19		DIGICO 4-hole punched; clipped together MATHS Package 5000/1 Nine Decimal Places
50/2/20		DIGICO 4-hole punched; clipped together FLOATING POINT Ppackage 5001/1 Three-Word; 9 Decimal Places
50/2/21		DIGICO 4-hole punched; clipped together TEXT TYPE-OUT Subroutine
50/2/22		DIGICO A3 in dark blue plastic binder DIGICO PRINTS redrawn by TRANSAMERICA COMPUTER CO March 1976
50/2/23		Single A4 handwritten page DIGICO Channels
50/2/24		DIGICO Micro 16V Computer - Manual

Section 50/3 Honeywell

50/3/1		HONEYWELL Case Study brochure Computers in Textiles The Business Information System at Moygashel Ltd
50/3/2		HONEYWELL brochure Honeywell computers in Europe
50/3/3		HONEYWELL A Plain Man's Guide to Software (Illustrated by EMETT)
50/3/4	1967	HONEYWELL Field Service 204B-1, 2, 3, 4 Magnetic Tape Drives Theory of Operation Manual

50/3/5		HONEYWELL Field Engineering 204B - 1A / 2A (50 Hz) Prints (Ie engineering drawings)
50/3/6		HONEYWELL Power Supply 50 and 60 Hz Prints
50/3/7	1974	HONEYWELL Education Department OS 2000, incorporating features of Release 2
50/3/8	1967	HONEYWELL Field Service Series 200 Training Manual 203B - 1, 2, 2A, 4 Tape Control Units
50/3/9		HONEYWELL H-200 Instruction Summary and Reference Guide Also includes loose chapters on: - C.P. Cycles - General - C.P. Extraction Cycles - C.P. Timing OSC - Instructions Logic
50/3/10	1970	HONEYWELL Field Engineering Operation/Maintenance Manual 204B - 1A, 2A, 3A, 4A Magnetic Tape Systems
50/3/11	1971	Blue 3-ring binder HONEYWELL Series 200 Power Cabinet Interlock
50/3/12	1970	Blue 3-ring binder HONEYWELL 213-3 Internal Timer 213-4 Time-of-Day Clock Operation/Maintenance Manual
50/3/13	1970	Blue 3-ring binder HONEYWELL Series 200 Power Supplies
50/3/14		HONEYWELL H273 Drawings (Copies, reduced to A4 size, and bound with an ACCO clip)
50/3/15	1960	Honeywell 800 Transistorised Data Processing System Programmer's Reference Manual

50/3/16	Undated	316/516 General Purpose Digital Computers Reference Card
50/3/17		HONEYWELL 702/901 Keytape Operation and Maintenance Manual
50/3/18		HONEYWELL 702/901 Keytape Operation and Maintenance Manual (copy of 50/3/17)
50/3/19	1966	HONEYWELL 1201 Central Processor Engineering Training Manual
50/3/20	1968	HONEYWELL Plexedit Logical Design Field Engineering Training Manual
50/3/21	1967	HONEYWELL 203B-5, 204B-11, 12 Magnetic Tape System Field Engineering Training Manual
50/3/22	1970	HONEYWELL 283 - 5/7 Control & Interface Unit Operation/Maintenance Manual
50/3/23	1970	HONEYWELL 286 - 1, 2, 3 Multichannel Communications Control Unit Operation/Maintenance Manual
50/3/24	1969	HONEYWELL 285-1 Communication Adapter Operation/Maintenance Manual
50/3/25	-	HONEYWELL 702/901 Keytape Logic Diagrams and tabulations
50/3/25		Brochure - CAP: Honeywell's Council to Advance Programming
50/3/26		ML/1 User's Manual - 4 th Edition
50/3/27		Red spring binder, containing ADMOS and other programs for the Honeywell DDP 516
50/3/28		Printout - OMNI PIN and SIGNAL DETAILS for the Honeywell DDP 516
50/3/29	1970	HONEYWELL Field Engineering 122/222A Line Printer

Illustrated Parts List

50/3/30	1970	HONEYWELL Field Engineering 122/222A Line Printer Illustrated Parts List (50 HZ) Prints
50/3/31	1970	HONEYWELL Field Engineering SYSFIL (diagnostic utility)
50/3/32	1970	HONEYWELL Field Engineering 123/223A Card Reader Illustrated Parts Manual
50/3/33	1973	HONEYWELL Field Engineering 172/273/274 Disk Pack Drives Illustrated Parts Breakdown and update to 1974 including also model 276
50/3/34	1969	HONEYWELL Field Engineering 123A/223A Card Reader Operation/Maintenance Manual
50/3/35	1970	HONEYWELL Field Engineering 122/222A Line Printer Operation/maintenance Manual with update to 1974
50/3/36	1969	HONEYWELL Field Engineering Coutant Power Supply
50/3/37		HONEYWELL Field Engineering 2 and 3 Series package prints
50/3/38		Buff folder, taped, containing HONEYWELL Field Engineering 5 Series prints
50/3/39	1970	HONEYWELL Field Engineering 122/222A Line Printer Illustrated Parts List
50/3/40	1970	HONEYWELL Field Engineering 122/222A Line Printer Illustrated Parts List (50 HZ) Prints
50/3/41	1970	HONEYWELL Field Engineering SYSFIL (diagnostic utility)
50/3/42	1970	HONEYWELL Field Engineering

		123/223A Card Reader Illustrated Parts Manual
50/3/43	1967	HONEYWELL μ -PAC I/C Modules 5Mhz & 2Mhz Instruction Manual Vol 1
50/3/44	1967	HONEYWELL μ -PAC I/C Modules 5Mhz & 2Mhz Supplementary Modules & Equipment Instruction Manual Vol II
50/3/45	1967	HONEYWELL μ -PAC 5mc Digital Logic Modules Solderless Wrapping Manual
50/3/46	1975	HONEYWELL Computer Users Association Newsletter No 27
50/3/47	1975	HONEYWELL Computer Users Association Survey of Honeywell Maintenance & Engineering Service Questionnaire
50/3/48	Undated	HONEYWELL Computer Control Users Association Programme Library Catalogue
50/3/49	1966	HONEYWELL μ -PAC DDP-516 General Purpose I/C Digital Computer Overview
50/3/50	1966	HONEYWELL μ -PAC DDP-516 General Purpose I/C Digital Computer Programmer's Reference Manual
50/3/51	1968	HONEYWELL μ -PAC DDP-516 General Purpose I/C Digital Computer Programmer's Reference Manual
50/3/52	1966	HONEYWELL μ -PAC DDP-516 General Purpose I/C Digital Computer Interface Manual
50/3/53	1968	HONEYWELL μ -PAC DDP-516 General Purpose I/C Digital Computer Interface Manual
50/3/54	1966	HONEYWELL μ -PAC DDP-516 General

		Purpose I/C Digital Computer Installation Manual
50/3/55	1967	HONEYWELL DDP-516 User's Guide (2 copies)
50/3/56	Undated	HONEYWELL DDP-516 Equipment Descriptions, etc
50/3/57	1966	HONEYWELL DDP-516 General Purpose Computer Instruction Manual (front cover missing) Vol 1 - Theory of Operation & Maintenance
50/3/58	1966	HONEYWELL DDP-516 General Purpose Computer Instruction Manual Vol II - Flowcharts
50/3/59	1967	HONEYWELL DDP-516 General Purpose Computer Instruction Manual Vol III - Drawings
50/3/60	1968	HONEYWELL DDP-516 General Purpose Computer Instruction Manual Vol III - Drawings (different date and format from 50/3/17)
50/3/61	1966	HONEYWELL DAP Manual for 16-bit DDP Computers (2 copies)
50/3/62	1966	HONEYWELL FORTRAN IV Manual for DDP Computers
50/3/63	1970	HONEYWELL Blue 3-ring binder containing 204 B - 17/18 (50 Hz) Tape Drives Operation & Maintenance Manual
50/3/64	1967	HONEYWELL DDP - 416/516 - 9501 50 Hz Modification Option Manual
50/3/65	1971	HONEYWELL Series 16 Grey 2-ring binder containing Complex and Double-Precision Maths Library Listings
50/3/66	1968	HONEYWELL Power Supply RP - 61/RP - 62

		Instruction Manual
50/3/67	1968	HONEYWELL DDP 416/516 Interface Design Guide Supplementary to Interface Manual
50/3/68	1969	HONEYWELL DDP 416/516 Interface Design Guide Supplementary to Interface Manual
50/3/69	1970	HONEYWELL Field Engineering Series 16 - 4110/4120 Magnetic Tape Drives Illustrated Parts Manual
50/3/70	1970	HONEYWELL Series 16 Software BUS MOS Operating System
50/3/71	1971	HONEYWELL Series 16 Software DAP -16 & DAP -16 Mod 2 Assembly Languages
50/3/72	1969	HONEYWELL 316/516 General Purpose Digital Computer Programmer's Reference Manual
50/3/73	1969	HONEYWELL DDP 416/516 - 507X Paper Tape Punch (Facit) Option Manual
50/3/74	1969	HONEYWELL DDP 416/516 - 505X Paper Tape Reader (Facit) Option Manual
50/3/75	Undated	Introduction to DAP Assembly Language Programming on the Honeywell DDP - 516 By Dr O.R. Hinton
50/3/76	1969	HONEYWELL DDP - 516 Memory Expansion, Models 516 - 05/06 Instruction Manual
50/3/77	Undated	Green envelope folder, containing DDP 516 Intel RAM Memory Notes and Circuits
50/3/78	1968	HONEYWELL DDP - 516 Programmer's Reference Card (2 copies)

50/3/79	1966	HONEYWELL DDP 416 - 08/08 - 1 DDP 516 - 08/08 - 1 Memory Lockout Option Manual
50/3/80	1966	HONEYWELL Priority Interrupt DDP - 516 - 25, DDP - 416 - 25 & Memory Increment DDP - 516 - 26, DDP - 416 - 26 Option Manual
50/3/81	1966	HONEYWELL DDP - 516 - 11 High-Speed Arithmetic Unit Option Manual
50/3/82	1966	HONEYWELL DDP - 516 - 2 Real-Time Clock Option Manual
50/3/83	1967	HONEYWELL DDP - 516 - 2 Direct Memory Access Option Manual
50/3/84	1968	HONEYWELL DDP - 516 - 2 Direct Memory Access Option Manual
50/3/85	1968	HONEYWELL DDP - 516 - 2 Direct Memory Access Option Manual (Glue-bound, whereas 50/3/83 and 50/3/84 are spiral-bound)
50/3/86	1967	HONEYWELL DDP - 516 - 20 Data Multiplexed Control Option Manual
50/3/87	Undated	Buff folder marked "4110 logic prints Rev 5" Contains copies of circuit diagrams of DDP 416/516 - 4110
50/3/88	1970	HONEYWELL Field Engineering (lever arch file) Series 16 - 4120 Magnetic Tape Drive Instruction Manual
50/3/89	Undated	Lever arch file, containing HONEYWELL Series 16 Standard Software - Program

Listings

50/3/90	Undated	Grey 2-ring binder, containing loose copies of HONEYWELL Users Association Newsletters
50/3/91	Undated	Cardboard box containin miscellaneous documentation for Honeywell 20/40 from Guildford Kapwood Ltd
50/3/92	Undated	Keytape Model 960/760 Operation and Maintenance Manual
50/3/93	Undated	Keytape 712/912 Operation and Maintenance Manual
50/3/94	Undated	H200 Series Engineer's Reference Manual

Section 50/4 Digital

50/4/1	1982	DIGITAL 4-hole punched manual Introduction to MicroPower / PASCAL
50/4/2	1986	DIGITAL KLESI - B Module User and Installation Guide
50/4/3	1984	DIGITAL LN03 Toner User Guide
50/4/4	1986	DIGITAL DECserver 200 Users Guide
50/4/5	1986	DIGITAL VAX 8700/8800 System Hardware User's Guide
50/4/6	1986	DIGITAL H9646 - AH / AJ CABINET SYSTEM User Guide
50/4/7	1983	Digital Research CP/M Plus Two diskettes plus user multiple copies of user agreement documentation in a Digital Research folder
50/4/8		Digital - DEC System 10 - Technical Summary
50/4/9	1970	Digital - PDP-10 - Timesharing Handbook

50/4/10		DIGITAL Large bundle of logic diagrams, containing : - bound set of drawings of DEC PDP/12 SYSTEM 1969 - bound set of PDP 8/1 TRAINING DRAWINGS - miscellaneous others
50/4/11		Very large ACCODATA 3-ring binder (misleadingly labelled on spine "IBM JCL") containing (loose rather than on the rings): - printout of PS8 PMP, labelled "PDP-8 (Straight preferably)" - PDP - 8/L - Maintenance Manual Volume 1 1968 (2 copies) - PDP - 8/L - Replacement Schematics - DECAL - BBN - Technical Manual, 1963 - Programming Manual - Extensions of the DECAL Algebraic Compiler, 1967
50/4/12	1964	DIGITAL Spirally-bound (some sheets breaking loose) of logic diagrams, not obviously associated with any particular processor
50/4/13	1978	DIGITAL DECwriter IV - LA34 User's Guide
50/4/14	1979	DIGITAL LA34 - Pocket Service Guide
50/4/15	1986	DIGITAL DMB32 - Synchronous Device Driver Manual
50/4/16	1985	DIGITAL LN03 - Programmer Reference Manual
50/4/17	1986	DIGITAL SA 482 - Storage Array User Guide
50/4/18		DIGITAL KDB50 Disk Controller - User's Guide
50/4/19		DIGITAL DSV11 Synchronous Device Driver Manual
50/4/20		DIGITAL Installing and Using the

		VT320 Video Terminal
50/4/21		DIGITAL VAX-11 Programming Card
50/4/22		Large green 3-ring binder, printed on front and spine "Royal Holloway College - Central Computer Services", containing:
	"	1977 DIGITAL PDP/11 VT55 Programming Manual
	"	1976 DIGITAL VT55 - E, F, H, J DECgraphics Scope - User's Manual
	"	1976 DIGITAL VT52 DECscope Maintenance Manual
	"	1976 DIGITAL VT55 - A, B DECgraphics Scope - User's Manual
50/4/23	1978	Black multi-ring binder (<i>Labelled on front "to be removed from room E208" !</i>) DIGITAL LA36/LA35 DECwriter II - Maintenance Manual Volume 1
50/4/24	1970	Blue 3-ring binder Misleadingly printed on front cover FARNELL 1968 ELECTRONIC COMPONENTS CATALOGUE Labelled on spine "PDP-11 Paper Tape Software", containing DIGITAL Paper Tape Software - Programming Handbook
50/4/25	1968	DIGITAL - PDP-8/1 Disk Monitor System Programmer's Reference Manual - PDP-8 Disk System Builder Listing - PDP-8 Assembler Listing - Listing of 8K SABR-DISK I/O - Appendix H - Disk Indexing Loader
50/4/26	1980	DIGITAL PDP-11 TECO - User's Guide
50/4/27	1968	White 3-ring binder Labelled on spine "Digital PDP 8/L Software Manual", Contains

		DIGITAL PDP 8/L - Software Manual
50/4/28		Buff folder, labelled "Blocking Oscillator" Contains PDP 8 Operating Instructions Labelled "Special Devices on PDP 8L"
50/4/29	1982	Red 3-ring binder Printed on front - "University of London Computer Centre - Technical Literature" Labelled on spine "DEC μ T 11", containing: DIGITAL μ T 11 - User's Guide
50/4/30	1973	DIGITAL PDP-11 Paper Tape Software - Programming Handbook
50/4/31		Blue 3-ring binder, containing
"	1975	DIGITAL RP04 Device Control Logic - Maintenance Manual
"	1976	DIGITAL RJP04 Moving Head Disk Subsystem - Maintenance Manual
"		A user's notebook, with annotations on circuitry of RJP04 and RP04
"		DIGITAL RP04 Disk Drive - Installation Manual
50/4/32	1986	DIGITAL 881 Power Controller - User Guide
50/4/33	1986	DIGITAL DMB32 User Guide
50/4/34	1986	DIGITAL TU81 / TA81 and TU81 PLUS Subsystem User's Guide
50/4/35	1986	DIGITAL LN03 PLUS - Programmer's Reference Manual
50/4/36	1986	DIGITAL LN03 Bitmap Option - Installation Guide
50/4/37	1986	DIGITAL LN03 Series - Toner Kit Guide

50/4/38		DIGITAL PDP-11 Device Register Interface DR11-A - four sheets stapled together
50/4/39	1970	Reprints from DATAMATION and ELECTRONICS on the launch of the PDP-11 in January 1970
50/4/40		Brochures: - DIGITAL LA30 DECwriter data terminal (2 copies) - DIGITAL Wire Wrapping Services - DIGITAL GLC-8 - DIGITAL Reading Educational Services - DIGITAL LAB-K
50/4/41	1965	PDP-7 User's Handbook
50/4/42	1965	PDP-7 Fortran II - Preliminary Programming Manual
50/4/43	1971	DIGITAL Equipment Corporation VT05 alphanumeric display terminal Engineering Drawings
50/4/44	1972	DIGITAL Equipment Corporation Drawings Directory Customer Print Set Index and drawings for Data System DS 340
50/4/45	1977	DIGITAL Equipment Corporation Revised Print Package Modified drawings required in the field for engineers maintaining VT05
50/4/46		DIGITAL Field Maintenance Print Set for MOS Memory System
50/4/47	1977	DIGITAL Plastic envelope containing Software Bill of Materials for DEC/X11 DIAG PAPER TAPE ONLY KIT
50/4/48		DIGITAL Very large plastic envelope containing Field Maintenance Print Sets for: - RP 04/05/06 Disk Drive - Basic Assembly (11/40) - DL11 Asynchronous line interface

- RK05 Disk Drive
- RK11D disk Drive Controller
- DD11D
- BM792 read-only-memory and MR11-DB bootstrap loader
- Other unidentified drawings

Section 50/5 Burroughs

- | | | |
|--------|------|---|
| 50/5/1 | 1975 | AE500 Audit Entry Data Preparation System |
| 50/5/2 | 1975 | Audit Entry System User's Manual |

Section 50/6 IBM

- | | | |
|---------|---------|---|
| 50/6/1 | 1972 | IBM - System / 7 - System Summary |
| 50/6/2 | Undated | An Introduction to PL/1 Student Text |
| 50/6/3 | 1965 | A PL/1 Primer Student Text |
| 50/6/4 | Undated | System 360 Reference Data Card |
| 50/6/5 | | Operator's Manual for the IBM Automatic Sequence Controlled Calculator (Mark 1) |
| 50/6/6 | | Envelope containing brochure, photographs and circuit diagrams of the IBM Automatic Sequence Controlled Calculator (Mark 1) |
| 50/6/7 | 1973 | IBM System 360 and System 370 Model 195 Maintenance Manual |
| 50/6/8 | 1971 | IBM 3080 Power Unit Models 1 - 3 Parts Catalog |
| 50/6/9 | 1971 | IBM 3195 Processing Unit Parts Catalog |
| 50/6/10 | 1971 | IBM 3060 System Console Parts Catalog |
| 50/6/11 | | IBM Model 195 - Indicator List |
| 50/6/12 | 1973 | IBM System 360 and System 370 Model 195 Theory of Operation (Vol 2) Console and Maintenance |

Facilities

50/6/13	1973	IBM System 360 and System 370 Model 195 Installation Manual 3195 Processing Unit
50/6/14	1960	IBM IBM 407 Accounting Machine Reference Manual
50/6/15	1951	IBM Type 604 Electronic Calculating Punch Manual of Operation
50/6/16	1958	IBM Type 548, 552 Interpreters Manual of Operation
50/6/17	1964	IBM 24 Card Punch 26 Printing Card Punch Reference Manual
50/6/18	1967	IBM 82, 83 and 84 Sorters Product Reference Literature
50/6/19	1969	IBM 82, 83 and 84 Sorters Product Reference Literature
50/6/20	1970	User Manual for ASK 360 V 2.1
50/6/21		Printout - ASK 360 - SYSTEM 4 Version
50/6/22		Printout - ASK 360 - Input Modules
50/6/23		Printout - DOS ASK 360 32K Version Modified SLCTPRNT and other modules
50/6/24	1969	IBM System 360 Basic Programming Support (Card) Basic Assembler and Basic Utility Programs Specifications and Operating Guide
50/6/25	1967	IBM System 360 Principles of Operation
"	1973	IBM System 370 Principles of Operation
50/6/26	1969	IBM System 360 Operating System Job Control Language
50/6/27	1971	IBM System 360 Operating System

		Data Management Services
50/6/28	1976	OS/VS Message Library VS2 System Messages
50/6/29	1972	OS/VS Message Library VS2 System Codes
50/6/30	1969	IBM System 360 Operating System Linkage Editor and Loader
"	1968	IBM System 360 Operating System Programmer's Guide to Debugging
"	1975	OS/VS2 JCL
50/6/31	1967	IBM System 360 Operating System ALGOL Language
50/6/32	1973	OS/VS Data Management Services Guide
50/6/33	1975	A Guide to the IBM System 370 Model 158
50/6/34	1971	IBM System 360 Operating System FORTRAN IV (H Extended) Compiler and Library (Mod II) General Information
"	1971	IBM System 360 FORTRAN Program Products for OS and OS with TSO - Code and Go FORTRAN Processor - FORTRAN IV (G1) Processor - TSO FORTRAN Prompter - FORTRAN IV Library (Mod 1) General Information
"	1969	IBM System 360 Operating System Basic FORTRAN IV (E) Programmer's Guide
"	1969	IBM System 360 FORTRAN IV Library Mathematical and Service Subprograms
"	1963	FORTRAN II General Information Manual
50/6/35	1971	IBM System 360 Operating System Utilities

50/6/36	1970	ITT Data Services A Guide to BASIC
"	1970	IBM System 360 OS/DOS and OS(TSO) ITF: PL/1 and BASIC General Information
"	1970	IBM General Purpose Simulation System 360 User's Manual

SECTION 51 Particular Installations

Section 51/1 Science Museum

51/1/1	1958	IBM Customer Engineering Reference Manual B1 Electric Typewriter as modified for Data Processing Equipment
51/1/2	1963	IBM Reference Manual IBM 870 Document Writing System (3 copies)
51/1/3	1964	IBM Customer Engineering Maintenance Manual 24 - Base Machine
51/1/4	1962	IBM Education Guide (2 copies) IBM 870 Document Writing System
51/1/5		IBM Data Processing Application Mechanised Library Procedures (using the 870)
51/1/6	1967	IBM Data Processing Application Mechanised Library Procedures for the IBM Advanced System Development Division Library Los Gatos, California
51/1/7	1962	IBM 870 Document Writing System Practice Problems
51/1/8	1966	IBM Reference Manual IBM 407 Accounting Machine
51/1/9	1959	IBM Reference Manual IBM 513, 514 Reproducing Punches
51/1/10		Corrugated paper parcel containing nine pads of Planning Charts for the IBM 870 Document Writing System

51/1/11		IBM Data Processing 1) IBM Card Reference Manual 2) IBM Supplies Catalogue both in a blue binder labelled "IBM Proposal"
51/1/12		Illustrations of IBM 866 Non- Transmitting Typewriter, Model 5, and IBM 836 Control Unit
51/1/13	1963	Engineering Specification of the Card Correction Feature which could be fitted to certain unspecified IBM Card Punches
51/1/14	1961	IBM 834-836 Control Unit - Parts Catalogue
51/1/15	1963	IBM 24 Card Punch and 26 Printing Card Punch - Parts Catalogue
51/1/16	1960s	Black springback folder containing plugboard layouts for IBM 836 and IBM 870 Document Writing System and other documentation referring to applications run for the Science Museum Library by the A.D.P. Section : Departmental Staff Records at the Chessington Computer Centre
51/1/17	1974	Buff folder, labelled "IBM 870 Document Writing System", containing Manual of Operating Procedures and Control-Panel Wiring Diagrams, compiled by J.A.Chaldecott, Sci. Mu. Lib
51/1/18	1974	Blue 2-ring binder containing: - Buff folder, labelled "IBM 870 Document Writing System", containing Manual of Operating Procedures and Control-Panel Wiring Diagrams, compiled by J.A.Chaldecott, Sci. Mu. Lib - Sci. Mu. Lib. - List of Instrument Makers - a description of the directory search methodology, and subsequent input to punched card processing.

51/1/19		Large taped bundle, labelled "IBM 870", containing course notes and Dr Chaldecott's Manual.
51/1/20		Pad of blank planning charts and plugboard diagrams for the IBM 870 Document Writing System
51/1/21	1963	IBM Booklet "Taking Care of Quality", covering care in the preparation, storage, handling and usage of IBM punched cards
51/1/22	1974	Buff folder, labelled "Procedures for AK in charge of DP Section". Contains details of jobs performed upon the IBM 870 machine: <ul style="list-style-type: none"> - Lists A, B, C and D of Periodicals on Open Access - Catalogue of Valves in the Science Museum - Index of Scientific Instrument Makers - Wedgwood Index - Portraits Index
51/1/23		Buff folder labelled "Address Listing"
51/1/24	1962-72	Buff folder labelled "Annual Demand"
51/1/25		Buff folder labelled "Museum Holdings Lists Oceanography & Geophysics Information Sheets"
51/1/26		Loose sheets in long blue Treasury tags (now also bound with string): IBM 870 Document Writing System - Miscellaneous documentation
51/1/27	1965	IBM LIBSYS - A Library Cataloguing System Part 9 of Library Management System
51/1/28		IBM System Reference Library System Operation Reference Manual IBM 357 Data Collection System
51/1/29	1964	Reproduced from BOOK PRODUCTION

Magazine: "The (R)evolution in Book Composition" Computers in '64 - Year of Transition from Theory to Practice

51/1/30 SO Book 321 - IBM 870 Document Writing System Notes on Punching layouts and procedures

51/1/31 SO Book 321 - IBM 870 Document Writing System Control Panel Wiring - PORTRAITS Record

51/1/32 SO Book 321 - IBM Log Book:
- Visits of maintenance engineers
- Visitors appointments

51/1/33 SO Book 121 - IBM 870 Stationery Stock Record

51/1/34 Buff folder, marked "Museum Objects - Short Title Listings"

51/1/35 IBM 870 Analysis Guide and Service Index

51/1/36 IBM Field Engineering Maintenance Manual 24-base machines

51/1/37 IBM Customer Engineering Reference Manual 870 Document Writing System

51/1/38 IBM Parts Catalog 834-836 Control Unit

51/1/39 IBM Reference Manual - loose sheets B1 Electric Typewriter

51/1/40 Blue clip folder, containing 870 control panel and plugboard diagrams, for practice problems and other applications

Section 51/2 Unknown user of a CROMEMCO system

51/2/1 1978 CROMEMCO Disk Operating System (CDOS) User's Manual

51/2/2 1980 CROMEMCO Z80 Monitor Instruction Manual

51/2/3	1980	CROMEMCO ZPU - Z80 Central Processing Unit Instruction Manual
51/2/4	1978	CROMEMCO Trace System Simulator Instruction Manual (2 copies)
51/2/5	1979	CROMEMCO 16KZ RAM Instruction Manual
51/2/6	1979	CROMEMCO TU-ART Digital Interface Instruction Manual
51/2/7	1979	CROMEMCO 16K Extended Basic Instruction Manual
51/2/8	1980	CROMEMCO Link & Lib Instruction Manual
51/2/9	1981	CROMEMCO Screen Editor Instruction Manual
51/2/10	1978/79	CROMEMCO 3-ring binder containing: - 16KZ RAM Instruction Manual - Text Editor - Fortran Coding Sheets - CDOS User's Manual
51/2/11	1978	CROMEMCO 3-ring binder containing: - FORTRAN IV Instruction Manual - FORTRAN IV User's Manual
51/2/12	1978	CROMEMCO 3-ring binder containing: - BYTESAVER II Instruction Manual (loose sheets) - Text Editor Instruction Manual (2 copies) - 16KZ RAM Instruction Manual - Z-2 Z-2D Instruction Manual
51/2/13	1979	CROMEMCO (spine labelled "16K Extended Basic Vol 3") 3-ring binder containing: - TU-ART Digital Interface Instruction Manual - ZPU Z-80 CPU Instruction Manual - PERSCI (Cromemco) Models 270/272/277 Diskette Drive Logic and Schematic Diagrams (2 copies) - PERSCI (Cromemco) Model 272 Diskette Drive Product Specification (2 copies)

		<ul style="list-style-type: none"> - RDOS Instruction Manual - CDOS User's Manual (2 copies) - 3K Control Basic Instruction manual
51/2/14	1978	<p>CROMEMCO (spine labelled "16K Extended Basic Vol 3") 3-ring binder containing:</p> <ul style="list-style-type: none"> - Disk Operating System (CDOS) User's Manual - Text Editor Instruction Manual
51/2/15	1978	<p>CROMEMCO (spine labelled "Spare Cromemco Manuals") 3-ring binder containing:</p> <ul style="list-style-type: none"> - Trace System Simulator Instruction Manual - Z80A Central Processing Unit Technical Manual - ZPU Central Processing Unit Instruction Manual - Data Base Management System Introduction - Text Formatter Instruction Manual
51/2/16	1978	<p>CROMEMCO (spine labelled "Word Processing System Vol 7") 3-ring binder containing:</p> <ul style="list-style-type: none"> - Fortran IV Instruction Manual - Text Editor Instruction Manual (2 copies)
51/2/17	1978	<p>CROMEMCO (spine labelled "COBOL Vol 8") 3-ring binder containing:</p> <ul style="list-style-type: none"> - FORTRAN IV Instruction Manual (2 copies) - Disk Operating System (CDOS) User's Manual - Text Editor Instruction Manual (2 copies)
51/2/18	1978	<p>CROMEMCO (spine labelled "Data Base Management System Vol 9") 3-ring binder containing:</p> <ul style="list-style-type: none"> - Data Base Management System User's Manual - Z-2 Z-2D Instruction Manual - Z80A Central Processing Technical Manual (2 copies) - ZPU Instruction Manual

- 16KZ RAM Instruction Manual

51/2/19 1978 CROMEMCO (spine labelled "RATFOR with FORTRAN IV Vol 12") 3-ring binder containing:
- FORTRAN IV Programming Language Instruction Manual
- RATFOR Reference Manual

Section 51/3 Gainsborough Cornard

51/3/1 1972 HONEYWELL M9 Memory Drawer Operator/Maintenance Manual (loose sheets bound with tape)

51/3/2 1973 HONEYWELL 204B -1A, -2A, -3A, -4A/204F -1, -3 Tape Drives Illustrated Parts Manual

51/3/3 1966 HONEYWELL 222 Printer (P8 - U4) Training Manual

51/3/4 1975 HONEYWELL 273 Disk Drive Family Operation/Maintenance Manual

51/3/5 1971 HONEYWELL H1 257-2 Mass Memory Control Unit Operation/Maintenance Manual

51/3/6 1971 HONEYWELL 220 Console Operation/Maintenance Manual

51/3/7 1973 HONEYWELL 172/273/274 Disk Pack Drives Operation/Maintenance Manual

51/3/8 Black 3-ring binder HONEYWELL Series 200/2000 OS/2000 Disk and Magnetic Tape Conventions June 1972 with revisions to June 1977

51/3/9 Black 3-ring binder HONEYWELL Series 200/2000 OS/2000 Programmers' Reference Manual (Models 200 - 4200) January 1973

51/3/10 Black 3-ring binder HONEYWELL Series 2000 (Models 2040 through 2070) Programmers' Reference Manual May 1973

51/3/11 Black 3-ring binder HONEYWELL
Series 200/2000 OS/2000 Sort
Programs December 1973, with
revisions to April 1976

51/3/12 Black 3-ring binder HONEYWELL
Series 200/2000 OS/2000 EASYWRITER
Elementary Query Language March
1975, with revisions to June 1976

51/3/13 Black 3-ring binder HONEYWELL
Series 200/2000 OS/2000 Fortran
Compiler March 1975

51/3/14 Black 3-ring binder HONEYWELL
Series 200/2000 OS/2000
1) Disk Data Management (Rev 1)
March 1975, with revisions to
April 1976
2) Disk Data Management (Rev 2)
June 1977

51/3/15 Black 3-ring binder HONEYWELL
Series 200/2000 OS/2000 Message
Control System - Datanet 2000
Communications Processing March
1975 with revisions to June 1977

51/3/16 Black 3-ring binder (bound with
tape) HONEYWELL Series 200/2000
OS/2000
1) System Generation Guide (Rev 3)
March 1975, with revisions to
April 1976
2) System Generation Guide (Rev 4)
June 1977

51/3/17 Black 3-ring binder HONEYWELL
Series 200
1) Programmers' Reference Manual
Models 200/1200/1250/2200/4200
October 1968
2) ½ inch Tape Input Output B and
C August 1966

51/3/18 Black 3-ring binder (bound with
tape) HONEYWELL Qx - Qx Drawer
Sets Product Manual Volume 1 March
1974

51/3/19 Black 3-ring binder (bound with

tape) HONEYWELL Series Qx - Qx
Drawer Sets Product Manual Volume
2 March 1974

51/3/20 Blue 3-ring binder, printed
HONEYWELL EDUCATION HONEYWELL
Series 200/2000 OS/2000 Utility
Programs (Rev 3) April 1976 Note:
the label on the spine says
wrongly that this is Rev 4

51/3/21 Blue 3-ring binder, printed
HONEYWELL EDP PROPOSAL A Data
Processing Proposal for
Gainsborough Cornard Limited March
1969

51/3/22 Blue 3-ring binder, printed
HONEYWELL EDP PROPOSAL HONEYWELL
Electronic Data Processing
Proposals for Jersey-Kapwood Ltd
March 1965

51/3/23 Black 2-ring binder HOSKYNS Study
of Future Computer Strategies for
the Knitting Division of
Carrington Viyella June 1977

51/3/24 Blue 3-ring binder (bound with
string) HONEYWELL Series 200/2000
Disk Concepts - Self-Education
Course Materials
1) Administrator's Guide August
1972
2) Self-Instructional Text August
1972
3) 3 Film Strips
4) 3 Audio Cassettes

51/3/25 White 3-ring binder HONEYWELL
Supplies Manual August 1979, with
revisions to January 1981

51/3/26 Four books (bound with string)
HONEYWELL Site Fault Call Log
Book 1 - 1977-78
Book 2 - 1978-80
Book 3 - 1980-82
Book 4 - 1982-84

51/3/27 Black 2-ring binder GUILFORD

KAPWOOD Honeywell File Layouts As
at 22.8.1983

51/3/28		Blue 2-ring binder Weekly Sales Analysis Run Sheets
51/3/29		Blue 2-ring binder Weekly Recovery Run Sheets
51/3/30		Blue 4-ring binder, spine labelled HONEYWELL NOTES Correspondence, software notes, software proposals, etc Note: labels on spine and cover are positioned to cover the words "IBM PROPOSAL"
51/3/31		All bound with tape 1) Buff folder Documentation of - Gainsborough Cornard Order System (loose sheets) - General Description of Stock System 2) Buff folder Honeywell Operations Time Schedule 3) Green folder Honeywell Operations Guide April 1983 Basic Operating Procedure 4) Transparent envelope Honeywell Application Programs February 1983
51/3/32	1968	Gainsborough Cornard Ltd Computer Feasibility Study Report, by J.D.Shaw, Chief Accountant and T.A.Curran, D.P. Manager
51/3/33	1977	Denco Miller Ltd. Quotation for an air conditioning system for Gainsborough Cornard, Sudbury, Suffolk
51/3/34		Black plastic binder and green plastic binder, taped together with a covering note, labelled "Honeywell Application System Flowcharts" covering such applications as Sales Ledger, Sales Invoicing, etc
51/3/35	1973	Black 3-ring binder HONEYWELL Series 200/2000 OS/2000 American National Standard COBOL Compiler

		manual With addenda dated 1975, 1975 and 1977
51/3/36	1976	Black 3-ring binder HONEYWELL Series 200/2000 OS/2000 System Files manual With addendum dated 1977
51/3/37		Black 3-ring binder, taped, containing HONEYWELL Series 200/2000 OS/2000
	" 1973	Utility Programs, Revision 1
	" 1977	Utility Programs, Revision 4
	" 1973	Concepts and Characteristics of OS/2000, Revision 1
	" 1973	Datanet 2000 Remote Device Support, Revision 0
	" 1977	Datanet 2000 Remote Device Support, Addendum A, Revision 3
51/3/38		Black 3-ring binder, taped, containing HONEYWELL Series 200/2000 OS/2000
	" 1976	Concepts and Characteristics of OS/2000, Revision 3
	" 1977	Concepts and Characteristics of OS/2000, Revision 4
51/3/39	1972	Blue 3-ring binder, labelled Honeywell Education HONEYWELL Series 200/2000 OS/2000 Supervisory Components, Revision 0 With addendum A, November 1972
51/3/40	1975	Black 3-ring binder HONEYWELL Series 200/2000 OS/2000 Supervisory Components, Revision 2 With addendum A, June 1975 And addendum B, April 1976
51/3/41	1974	Black 3-ring binder HONEYWELL Series 200/2000 MOD 1 (MSR) Program Development Subsystem

51/3/42	1973	Black 3-ring binder HONEYWELL Series 200/2000 OS/2000 EasyCoder Subsystem With addenda A 1974 to E 1977
51/3/43	1975	Black 3-ring binder HONEYWELL Series 200/2000 OS/2000 EasyCoder Subsystem With addendum A 1976
51/3/44	1974	Black 3-ring binder HONEYWELL Series 200/2000 MOD 1 (MS) Utility Routines
51/3/45	1975	Black 3-ring binder HONEYWELL Series 200/2000 OS/2000 Datanet 2000 Remote Device Support With addendum A 1976
51/3/46		Black 3-ring binder HONEYWELL Series 200/2000 OS/2000
"	1976	Index of OS/2000 Console Messages, Revision 3
"	1977	Index of OS/2000 Console Messages, Revision 4
51/3/47		Red 3-ring binder, taped, with many loose pages HONEYWELL Series 200/2000 MOD 1 (TR) Programming & Operating Procedures for Tape Sort C and Collate C Tape Sort CV and Collate CV
51/3/48		Large black 3-ring binder, taped HONEYWELL Series 200/2000 OS/2000 - Index of OS/2000 Console Messages (perhaps incomplete)
"	1977	Operator's Guide
51/3/49	1977	Unbound HONEYWELL Series 200/2000 OS/2000 Input Output Processing With addendum D
51/3/50	1976	Black 3-ring binder HONEYWELL Series 200/2000 OS/2000 Catalogue of Documentation
51/3/51		Blue 3-ring binder HONEYWELL EDP

PROPOSAL Part of a sales proposal for a customer in the textile business (presumably Gainsborough Cornard)

51/3/52 Taped bundle, labelled 'REGEL (Report Generator Language)'
 - Plastic folder, containing description and parameter formats for many REGEL application programs.
 - Book, labelled 'REGEL Dumps Library', containing documentation of 54 REGEL programs

51/3/53 Book labelled 'EASYWRITER Dumps Library' containing JCL documentation of 51 EASYWRITER programs

51/3/54 1975 Black 2-ring binder Warp Knitting Division Stock & Orders System Data Input User's Manual

51/3/55 4 spiral bound folders, taped, with failing binders and a note saying that some pages may be out of sequence Gainsborough Fabrics Ltd
 - Order System
 - Stock System
 - Operating Standards
 - System Specification

51/3/56 Plastic folder, labelled 'fine jersey' Guildford Kapwood Tape/disc record layouts, and other documentation

51/3/57 Green 2-ring binder labelled 'Program Descriptions' Guildford Kapwood List of program names, descriptions, and notes for stock control, invoicing, sales analysis, bought & sales ledger, etc

Items 51/3/58 to 51/3/62 are all bound together with string

51/3/58 1972 Bound printout containing listing

of Diagnostic Operating
Instructions For REV 9999 Sysfil
Rev 11.4 & 10.B Noted "for
Gainsborough"

51/3/59	1978-80	Pile of small Printouts, (Bound with string) all headed: List Unresolved Records (These look like error listings from successive COBOL compilations)
51/3/60		Printout (Bound with string) PLEXEDIT DOCUMENT LOGIC AND WIRING Pages 1-97
51/3/61		Printout (taped) COMPLEX DOCUMENT of the new 1015 Central Processor. Pages 0001->800 Marked "Incomplete"
51/3/62		Printout (bound with string) PLEXEDIT DOCUMENT LOGIC AND WIRING
"	27/9/1969	Pages 1 - 33
"	27/7/1969	Pages 1 - 68
"	2/12/1969	Pages 1 - 65
"	22/11/1969	Pages 1 - 251
"	16/10/1972	Pages 1 - 163
51/3/63		A4 Printout - taped and bound to a buff folder containing more printout PLEXEDIT DOCUMENT, LOGIC AND WIRING Revisions 010, 018 - 101
51/3/64		Roll of printout from a console typewriter Marked "Console Printer Monitoring a Main Frame" Dated 11/5/82
51/3/65		A pile of COBOL Program Source Listings HONEYWELL OS/2000 COBOL Compiler

The programs seem to be mostly concerned with costing, stock control, invoicing and sales ledger activities in a company dealing in yarns and

fabric. They are therefore very probably associated with the installation documented on shelves 24/2 and 23/3. The programs are not arranged in any obvious sequence, by date, by subject, or by programmer name. One would expect listings deliberately retained to be of correct versions of programs. However, many of these listings contain errors flagged by the compiler, so there must be another reason for their having been kept. Perhaps they represent the portfolio of programs for which successive senior programmers were individually responsible. In the table below, * is shown against any program obviously containing such errors.

Date	Program-ID	Program Title
12/8/82	COST50	Update Yarns Rates and Specs
28/3/78	LEDGDB	List of Outstanding Debit Notes
28/3/78	COST53	Calculate Commercial Costs
28/3/78	COST34	Costing Summary
23/2/84	PRAL00	Production Card Edit
28/3/78	CT12	Unloads Yarn Code for Each Costing
27/6/78	NM15	Summary by Control Centre
27/6/78	NM18	Summary by Cost Centre
15/2/83	COST52	Costing Calculation and Print
25/3/83	COST52	Costing Calculation and Print
29/10/80	SA04	* Sales Analysis by PM, S Cat, PG, Grade, Qual, Width
2/10/80	SA04	* Sales Analysis by PM, S Cat, PG, Grade, Qual, Width
8/5/80	CUSLG2	* League Table List of Customers
4/8/80	CUSLG1	* Create Sales File for CUSLG2
30/5/80	REP040	
29/11/78	* SAN014	

22/5/80	SA14	Creation of Input File to Nominal
6/11/80	* SAN009	
13/8/80	* SAP006	
11/6/80	* INANE	
12/8/80	* NCHECK	Advice Note Check
12/8/80	* NCHECK	Advice Note Check
12/8/80	REMADV	Remove Selected Records from S Analysis
11/8/76	SIGN01	Put Signs onto Sales Analysis
11/8/80	STK805	
13/8/80	TAP048	
13/8/80	SAP020	
13/8/80	SAN012	
2/7/80	SA06	Added Value Analysis
21/12/79	SAN03	Sales Analysis by PM, S Cat, PG, Grade, Qual, Width
15/5/81	SAN03	Sales Analysis by PM, S Cat, PG, Grade, Qual, Width
11/6/80	SAN003	S Analysis by Ware, S Cat, Prod Gp, Qual, Wid
13/8/80	SAPTOT	Sales Analysis Totals
15/5/81	SAN01	To Create a Costed Sales Analysis File. From Any Combination of the Following: 1/ Cards 2/ Card Images 3/ Tape File
13/8/80	SAN01	To Create a Costed Sales Analysis File. From Any Combination of the Following: 1/ Cards 2/ Card Images 3/ Tape File

4/1/82	SAN03	Sales Analysis by PM, S Cat, PG, Grade, Qual, Width
11/7/80	* WEFT07	
29/1/81	* TARGET0	1980 Prod Budget and Target
12/7/80	CUSLIS	Customer List for Data 100 Input
11/8/80	WEFT05	
1/4/80		* D/G Stock List
22/4/80	QUALPR	Lists Current Qualities on Stock and Orders Files
8/5/80	FBLABS	General Label Print
19/3/80	BUDGUP	Inflate Budget Prices
12/6/80	DUMINV	
12/6/80	FBLABS	
12/6/80	WMLABS	Management Accounts Labels
19/11/80	STLABL	Stock Take Labels
12/6/80	TELE01	Analysis of Telephone Calls
23/3/81	STK020	
12/6/80	LABELS	* Customer Labels Print
12/6/80	LABELS	* Customer Labels Print
12/6/80	LABELS	* Customer Labels Print
		3 compilations in very quick succession on the same day, all with similar errors.
12/6/80	OHYEAH	
8/5/81	INV05	* Invoice Print Etc
13/8/92	GINFID	
11/8/82	EDD100	
16/9/81	EDD200	
11/8/80	GINSPT	

14/8/80	EDD150	Edit Check for Sales Ledger
2/9/77	LEDG01	Validate and Edit New Transactions
12/8/80	LEDG03	Update Sales Ledger
12/8/80	LEDG05	Outstanding Transactions Print
12/8/80	LEDG06	Credit Limit Report
12/8/80	LEDG50	Update History File
12/8/80	LEDG55	Ageing Report
12/8/80	* STATEM	Sales Ledger Statements Print
12/8/80	* LEDG53	Sales Ledger Turnover Print
5/10/77	LEDGDB	List of Outstanding Debit Notes
1/7/81	* IVTRAN	
26/6/80	CRLIMIT	Customer Credit Limits
24/7/80	MANINV	Produce Numbered Manual Invoices
12/8/80	LEDG56	Interrogation of Ledger Files
24/5/76	DIGLST	List of Possible Cust Nos and Their Check Digits
24/5/76	LEO101	Lists Customers With no Recent Ledger Movements
2/4/81	FIT	
21/5/75	* DUMPRT	
13/1/76	* DUMPRT	
17/12/76	COL09	
31/8/77	COLORD	
17/12/76	COLSTK	
31/8/77	EDD100	
31/8/77	EDD150	Edit Check for Sales Ledger
17/12/76	EDD200	

17/12/76	LABELS	Customer Labels Print	3
17/12/76	LABELS	Customer Labels Print	compilations in quick succession
17/12/76	LABELS	Customer Labels Print	
17/12/86	ORD30		
11/8/82	ORD47		
11/8/82	PRAL00	Production Card Edit	
11/8/82	PRAL02	Successor to PROD72	
21/12/76	PROD89		
17/12/76	PRD85C		
31/8/77	PROD84	4 compilations in quick succession	
31/8/77	PROD84		
31/8/77	PROD84		
31/8/77	PROD84		
31/8/77	PRAL08	Prints Banded Lace Details and Variances With Totals at Quality and Product Group Level	
17/12/76	PROD84		
31/8/77	PROD06		
31/8/77	PROD29	Handles Held-Advice-Notes (WH=0) File, On Stock Update	
31/8/77	STK191	Update Stock History	
1/9/77	STKAGE		
31/8/77	STKVAL	Printout of Stock Valuation	
17/12/76	STOCKR	Reads Stock File, Ignoring All But Rec Types 01 And 55, Converts These to Rec Types 05 or 06 Depending on Sense Switch 3, And	

Outputs Them in Stock Update
Format

17/12/76	ORD07	
17/12/76	PROD10	
17/12/76	PROD30	
17/12/76	ORD50	
17/12/76	PROD52	
17/12/76	PROD74	
17/12/76	COLSTK	
21/5/75	* DUMPRT	
3/7/75	* DUMPRT	
21/5/75	* DUMPRT	
4/9/75	* DUMPRT	
21/5/75	* DUMPRT	
21/5/75	* DUMPRT	
2/4/76	* DUMPRT	
21/5/75	* DUMPRT	
17/11/75	* DUMPRT	
21/5/75	* DUMPRT	
28/1/76	* DUMPRT	
21/5/75	* DUMPRT	
8/4/76	* DUMPRT	
21/5/75	* DUMPRT	3 compilations in quick succession
21/5/75	* DUMPRT	
21/5/75	* DUMPRT	
15/5/81	COST34	Costing Summary
19/10/82	COST52	Costing Calculation and Print
17/8/82	COST50	Update Yarns Rates and Specs
13/5/81	* COST51	Printout of Yarns, M/C Rates, Specs
13/5/81	* COST51	Printout of Yarns, M/C Rates, Specs
17/5/82	* COST50	Update Yarns Rates and Specs
13/9/82	* STK031	

13/5/81	* COST50	Update Yarns Rates and Specs
12/8/80		PROD28
21/12/78		COST79
15/5/81	* PRAL01	Edits Input Production Cards or Card Image Tape Accesses Cost File and Writes Costed Production Tape Or Re-costs a Previously Costed Production Tape
15/5/81	* CTFRIG	
15/5/81	CSLIST	List of Qualities and Yarn Cost per Metre
15/5/81	CT90	Create Extract Ghost File
17/7/80	COST33	Weekly Knitted Production Reports
9/2/83	* COST52	Costing Calculation and Print
7/7/82	* COST34	Costing Summary
6/1/82	* COST10	Put Costs Onto Stock File
15/5/81	* CT26	Export Price List
15/5/81	* CT25	Commercial Cost Less D/G
17/6/80	CT13	Yarn - Qual Printout
15/5/81	CT12	Unloads Yarn Code for Each Costing
15/5/81	CT10	Match Cost File Against Stock Take File
15/5/81	* CT03	Listing of Commercial Costs
15/5/81	* CC0201	Lists Weight per 100 Metres by Quality
19/5/81		* (prog-id missing)
18/6/81	CTDEL	
13/5/81	* COST52	Costing Calculation and Print
15/5/81	* COST24	Full Price List

15/5/81	* COST55	Prints and Laminates Listing
15/5/81	* COST10	Put Costs Ponto Stock File
15/5/81	COST31	Put Standard Costs Onto Orders File
15/5/81	* COST33	Weekly Knitted Production Report
	<i>Section 51/4</i>	<i>ICI Winnington & ICI Fleetwood</i>
51/4/1		Three large (21" x 15") bundles of engineering drawings, in strong board binders, and all bound with tape, binders marked: ARGUS PROCESS CONTROL SYSTEM ICI FLEETWOOD BOOK 7 Input/Output Equipment Diagrams
51/4/2		Three large (21" x 15") bundles of engineering drawings, in strong board binders, and all bound with tape, binders marked: ARGUS PROCESS CONTROL SYSTEM ICI FLEETWOOD BOOK 3 ARGUS Computer Diagrams
51/4/3		Computer Log Book Computer Type 200 Serial no 8 Contains details of faults found and corrected from 19/7/1965 to 15/1/1971
51/4/4		Large plastic envelope, labelled: ARGUS PROCESS CONTROL EQUIPMENT ICI FLEETWOOD Computer Frame Wiring Diagrams
51/4/5		Buff circulation envelope containing various loose sheets: - illustrations of ARGUS 200 components - ARGUS 200 music-by-numbers program - score for "Blaydon Races"
51/4/6		ICI Winnington - Ammonia Soda Section ARGUS 200 Computer Directory

51/4/7		Buff circulation envelope containing: ARGUS 200 fault reports: 1975-1978
51/4/8	1962	Ferranti ARGUS Programming Examples
51/4/9		ARGUS Reports Work carried out, modifications, card changes, etc
51/4/10		ARGUS Process Control System - ICI Fleetwood Book 1 - ARGUS Computer General Description
51/4/11		ARGUS Process Control System - ICI Fleetwood Book 2 - ARGUS Computer Operations, Testing, and Fault Finding Information
51/4/12		ARGUS Process Control System - ICI Fleetwood Book 4 - ARGUS Computer Package Details
51/4/13		ARGUS Process Control System - ICI Fleetwood Book 5 - Input/Output Equipment General Description
51/4/14		ARGUS Process Control System - ICI Fleetwood Book 8 - Input/Output Equipment Package Details
51/4/15		ICI - Winnington Works ARGUS 200 Computer Installation Operating Manual Part 1 - Program Details
51/4/16		Winnington Computer Ferranti ARGUS 200 Acceptance Program
51/4/17	1968	Winnington Computer Ferranti ARGUS 200 Kodak box - containing photographs of the computer trays.

51/4/18	1964	Winnington Computer Ferranti ARGUS 200 ICI grey envelope marked "Power Supply Mods", containing a hand- modified circuit diagram and explanatory notes.
51/4/19	1965/66	Winnington Tower Computer Controls Progress Report Book
51/4/20	1967	ICI Winnington Log Book
51/4/21	1969	ICI Winnington ARGUS 200 Computer Log Book
51/4/22		Winnington Works ARGUS 200 Computer Installation Operating Manual Part II - Input/Output Details Process Operator's Instructions
51/4/23	1965	Folder marked "Winnington Program Details" Program details for the ARGUS 200 Computer Ammonia-Soda Process Control, Winnington
51/4/24	1969	Folder marked "Prints for Winnington Computer Program", with a note 'This is the same program, but written out slightly differently in points of detail, to that in the "Winnington Program Details" folder' - ie 51/4/23
51/4/25	1969	ARGUS 200, Winnington. Black folder, containing: - flowcharts for the Interrupt Program and the Free-Running Program - program listings as in 51/4/24 - listings of supplementary programs

*Section 51/5 Unknown user of a Philips P300
Bookkeeping system*

51/5/1		Black 4-ring binder SALES LEDGER Operator's Instructions and Tapes
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- 51/5/2 Black 4-ring binder PURCHASE
LEDGER Operator's Instructions and
Tapes
- 51/5/3 Two stiff plastic cards, headed
"Philips Data Systems - P300
Operator Notes and Preliminary
Checks".
- 51/5/4 A stack of blank P300 data cards,
headed variously "Sales Ledger",
"Analysis Ledger", "Nominal
Ledger" and "VAT Analysis Card".

Section 51/6 Shetack Tools

- 51/6/1 Red ACCO printout binder,
containing: Miscellaneous
documentation about Bought Ledger,
Sales Ledger and other
applications of Monument Tools Ltd
of Balham, (formerly Shetack
Tools), using Molecular 18
minicomputer.
- 51/6/2 Blue 4-ring binder, Printed on
cover - BUSINESS COMPUTERS LTD
MOLECULAR 18 Labelled on spine -
Sales Package Contains program
listings and associated notes
- 51/6/3 Blue 4-ring binder, Printed on
cover - BUSINESS COMPUTERS LTD
MOLECULAR 18 Contains listings and
patch details for various programs
- 51/6/4 Blue 4-ring binder, Printed on
cover - BUSINESS COMPUTERS LTD
MOLECULAR 18 Labelled on front -
SHETACK TOOL WORKS LTD Sales
Ledger System Specification Also
contains notebook - operator's log
from 17/3/76 to 25/3/85, and
correspondence about failure of
Business Computers Ltd
- 51/6/5 1973 Business Computers Limited
Molecular 18 Invoicing and Sales
Ledger Package for the Sheetback
Tool Works Ltd. ("*Sheetback*" is a
misprint for "Shetack")

51/6/6 Business Computers Ltd Molecular
18 Invoices and Delivery Notes

51/6/7 Faded orange binder, cover
labelled SALES LEDGER - OPERATING
INSTRUCTIONS and heavily
annotated; contents untidy, on
fading thermal copying paper,
probably also from SHETACK TOOL
WORKS

Section 51/7 National Physical Laboratory

Section 51/8 British European Airways

51/8/1	1966	SPERRY RAND HOLLAND N.V. Spiral binder - Compatibility Adapter - Remote Buffer Processor II Engineering Technical Bulletin
51/8/2	1964	SPERRY RAND HOLLAND N.V. Spiral binder Buffer Processor Command Tester (Test G)
51/8/3	1965	SPERRY RAND HOLLAND N.V. Spiral binder BP Delta Clock Exerciser
51/8/4	1964	SPERRY RAND HOLLAND N.V. Spiral binder G-Test Coding
51/8/5	1965	SPERRY RAND HOLLAND N.V. Spiral binder B.E.A. Uniset Complex Test
51/8/6	1962	SPERRY RAND HOLLAND N.V. Spiral binder Teletype Corporation LPW 300** Paper Winder
51/8/7	1964	SPERRY RAND HOLLAND N.V. Spiral binder Univac Uniset Complex Service Manual "Prepared for British European Airways Airline Reservation System"
51/8/8	1965	SPERRY RAND HOLLAND N.V. Spiral binder B.P. Memory Test
51/8/9		SPERRY RAND HOLLAND N.V. 8 photocopied A4 sheets stapled together The Uniset

51/8/10		SPERRY RAND HOLLAND N.V. 1 photocopied A4 sheet Uniset Programmer
51/8/11		SPERRY RAND HOLLAND N.V. 2 photocopied A4 sheets stapled together Buffer Processor
51/8/12		SPERRY RAND HOLLAND N.V. Buff foolscap binder UNIVAC Buffer Processor 49-11 Programming Manual
51/8/13	1962	Grey A4 binder E-Series U-49 Programmed Checkout By R.W. Davidson & J.J. Sahlstrom
51/8/14		Envelope folder, labelled "B.P. 49 and UNIVAC - Data and Correspondence" Contains index card stating: "SCM 87/527 UNIVAC from Mr Woodford"
51/8/15	1964	Foolscap notes with ACCO binder and dark green backing sheet U 49- 11 Instructions and Special Sequence Timing Analysis
51/8/16		Buff foolscap binder, containing: - 1 sheet - Figure 1 - Buffer Processor Display Panel - 10 sheets - Two simple programs for UNIVAC Buffer Processor 49, by K.N. Bawtree, Trinity College Glenalmond, March 1976 - 42 sheets, headed "drawing number 4100842" - Buffer Processor pp 1-32 - Communications Terminal Section pp 1-10

SECTION 52 Miscellaneous

52/1	1974	Postal Tube addressed to Doron D. Swade labelled: "Computing (74) 1990 - 299 pt ERNIE II program" containing photocopy of Certificate from the BCS certifying the randomness of the program for ERNIE
52/2		11 sheets stapled together: RSGB -

		Teleprinter Handbook Teletype 28 Series: Send-Receive and Receive- Only Page Printer Sets
52/3		Clear plastic envelope 7-track tape and teletype printout FSQT TIME TEST and other tests
52/4		Clear plastic envelope Teletype printout EXTENDED - EXTENDED DISC READ and DISC MULTIREAD LOAD
52/5		CASE spiral-bound manual VISTA - 1 Standard User Manual
52/6		CASE spiral-bound manual - second copy VISTA - 1 Standard User Manual
52/7		CASE spiral-bound manual VISTAR Technical Users Manual
52/8	1984	RACAL-MILGO MODEM COMLINK IV Installation and Operation Manual
52/9	1982	TELEVIDEO MODEL 910 <i>PLUS</i> TERMINAL (<i>Three copies</i>) Operator's Manual
52/10	1980	EMI EMI 9620 MODEM Instruction Manual
52/11		DYNATECH NOLTON 1680 Modem Eliminator Installation and Options
52/12		CASE COMPUTEK 300 User's Manual
52/13	1977	TEC Incorporated SERIES 400 DATA- SCREEN TERMINALS Product Description Manual
52/14	1979	BEEHIVE INTERNATIONAL MICRO B VIDEO DISPLAY TERMINALS Technical User Manual
52/15	1981	DATA-TYPE TERMINALS LTD DATA-TYPE GRAPHICS BOARD User's Manual
52/16	1982	VIDECOM LIMITED APOLLO Visual Display Terminal

52/17	1984	TELEVIDEO SYSTEMS INC TELEVIDEO VIDEO DISPLAY TERMINAL Operator's Manual
52/18		TREND PRINTER 800 Operators Manual
52/19	1979	COMART C-RAM 16 Manual
52/20	1980	COMART C-RAM n Manual
52/21	1978	Mountain Hardware Inc 100,000 Day Clock Operating Manual
52/22	1977	ZILOG Z80 - MCB Software User's Manual
52/23	1981	MICROPRO International Corporation SUPERSORT 1 - 6 Operator's Handbook and Programmer's Guide
52/24	1966	ITT Handbook Modem Equipment type GH-2002
52/25		8" diskette GEC Computers Ltd Test Software TTS 11/08 Release 1
52/26	1975	POST OFFICE TELECOMMUNICATIONS SERVICES Technical Guide No 16 Experimental Packet Switched Service
52/27		A bundle of listings and coding sheets Production of Commercial Software Magnetic Tape Executives - MTEXEC
52/28		Box of blank NEAT coding sheets
52/29		GEC Computers Limited - GEC 4000 Series Diskettes containing: - Mainframe Test Software and Store Resident Peripheral Test Software - Peripheral Test Software
52/30		Large OHMS buff envelope containing documentation from Customs and Excise, Southend, with note from Doron Swade to Jackie Britton dated 24/7/87. Science Museum object 85/444 refers.

- Digital TU58 Dectape 11 - Users' Guide
- Cifer Systems Limited - 2600 Range of Visual Display Terminals - User's Manual
- Control Data Corporation - Mini-Module Drive - A Guide for the Disk Drive Operator
- Digital PDP-11/44 - System User's Guide
- Control Data Corporation - Flexible Disk Drive Model 9406-2/3 - Technical and Operator's Manual
- Digital LA120 - User's Guide
- Digital RX02 Floppy Disk System - User's Guide
- Minicomputer Technology - SMC11 - Reference Manual
- Some loose sheets

52/31		ITT 3210 Visual Display Unit - Instruction Manual
52/32		ITT 3210 Visual Display Unit - Operator's Manual
52/33	1983	GEC - The Training and Education of Engineers in Japan, by P.R. Rawle, London Graduate School of Business Studies
52/34	1977	Hazeltine 1500 Video Display Terminal - Reference Manual
52/35	1977	Hazeltine 1500 Video Display Terminal - Reference Manual - Addendum
52/36	1978	INTEL MCS-86 - Seminar Notebook
52/37	1971	Orange 4-ring binder DRI (Data Recording Instruments) - Product Description for the Exchangeable Disc Store Series 30
52/38		Applied Computing and Software Ltd - brochure
52/39	1980	NEC Information Systems Inc Spinwriter Terminals - Product Description

52/40	1963	VERMONT RESEARCH CORPORATION Instruction Manual
52/41	1971	DOCUMATION Inc M-300L Card Reader - Technical Manual
52/42	1980	KINGSTON COMPUTERS LTD KC Netkit - Serial Basic
52/43	1980	KINGSTON COMPUTERS LTD KRK-2 MICE-TR0 - Music Processor
52/44	1980	KINGSTON COMPUTERS LTD KRK-2 - User's Manual
52/45		TELEVIDEO SYSTEMS INC Televideo Video Display Terminal - Operator's Manual
52/46		HAZELTINE Hazeltine 1200 Video Display Terminal - Operating Manual
52/47	1979	LEAR SIEGLER INC ADM-3A Dumb Terminal - Interactive display terminal Operators Manual
52/48	1975	RACAL MILGO Data Communications Equipment - Modem 27 LSI Instruction Manual
52/49	1973	PHILIPS Utilities Manual - Print Julian Calendar
52/50	1977	SINCLAIR Cambridge Programmable 4 Electronics Program Library
52/51	1970	NATIONAL SEMICONDUCTOR Two mnemonic cards: - National Semiconductor TTL Guide - National Semiconductor (Series 74N) TTL Cross Reference Guide
52/52		Brochure: MINIC Microprogrammed Minicomputer
52/53	1979	TELEVIDEO Model 912 Model 920 Operating Instructions
52/54	1970	Harvard Business School The Management Game

52/55		OHMS Envelope, labelled 1982-786 Handbook EMIAC II W/L 1
52/56		3 TELETYPE Manuals (tied together) (labelled "Computing (74) Collection")
	" 1964	Teletype Bulletin 273B Vol 1 32 & 33 Teletypewriter Sets Technical Manual KSR, RO and ASR variants
	" 1968	Teletype Bulletin 310B Vol 2 32 & 33 Teletypewriter Sets Technical Manual KSR, RO and ASR variants
	" 1968	Teletype Bulletin 11842 33 Page Printer Set (ASR, KSR, and RO) Parts List
52/57	1975	ERNIE - Envelope, labelled 1990 - 298 (pt) Operating Instructions for ERNIE I utility programs
52/58		Large plastic bag, labelled 1989 - 533 (pt), containing six TELETYPE manuals in Ferranti binders:
	"	Teletype Model 35 Trainee's Guide and Model 33 ASR Trainee's Guide
	"	Teletype Model 35 Trainee's Guide
	"	Teletype Model 35 ASR Parts List
	" 1971	Teletype Model 35 Parts List
	" 1966	Teletype Model 35 KSR & RO Technical Manual
	"	Bulletin 281B Vol 1
	" 1971	Teletype Model 35 ASR Technical Manual
	"	Bulletin 280B Vol 2
52/59		Cardboard tube, donated by Peter Dick, containing two posters from the DECUS NOP SIG (DEC USers Nostalgic Obsolete Products Special Interest Group):

- A selection of DEC products from PDP-7 (1967) to VAXstation 2000 (1988)
- PDP-8 (1965)

52/60		Small booklet, written and published by Peter Dick, entitled "RSTS - 80 th Birthday Celebration", purporting to celebrate on 11 th June 2050 the 80 th anniversary of the RSTS operating system for DEC PDP-11.
52/61		AMPEX - Technical Manual for the RF-6 Magnetic Core Memory
52/62	1967	ITT Modem Equipment type GH-2003 Handbook
52/63	1973	KODE 80 VP (Verifying Punch) and 80 VIP (Verifying Interpreting Punch) Operator's Handbook
52/64	September 1967	Blue 4-ring binder, printed FACIT FACIT PE 1000 Tape Reader Manual
52/65	November 1967	Blue 4-ring binder, printed FACIT FACIT PE 1000 Tape Reader Spare Parts
52/66	April 1967	Blue 4-ring binder, printed FACIT FACIT PE 1500 Tape Punch Manual
52/67	Undated	Blue 4-ring binder, printed FACIT FACIT PE 1500 Tape Punch Spare Parts
52/68	April 1970	Blue 4-ring binder, printed FACIT FACIT 4001, 4003 and 4004 Tape Readers Service Manual
52/69	December 1969	Blue 4-ring binder, printed FACIT FACIT 4060, 4061 and 4063 Punch Units FACIT 5106 Control Unit Service Manual
52/70	November 1968	Square Brochure FACIT 4060 Tape Punch Instruction Book
52/71	December 1969	Punched sheets held together with Treasury Tags FACIT 4060, 4061 and

4063 Punch Units Spare Parts List

52/72		MOHAWK DATA SCIENCES 1) MDS 6400 End User Supplement Maintenance Manual (loose sheets) 2) MDS 6401 Keyed Data Recorder Brochure (These papers relate to Inventory Item 1978-548)
52/73	Undated	(No attribution) Grey 2-ring binder containing Desk-Top Calculator Program DTCP 10/A N.E.D. Milmine Program Description
52/74	Undated	(No attribution) BASIC Manual
52/75	1961	University of Illinois Graduate College - Digital Computer Laboratory ILLIAC Logic Diagrams with index, Aug 1961 Arithmetic Subsystem logic for ILLIAC2
52/76		MEMOREX 651 Flexible Disc File Engineering Drawings
52/77	1946	Buff folder containing fragile papers concerning the AWAS/TRE relay computer
52/78	1959	Booklet: Use of Electronic Data- Processing Equipment. HEARING before the Sub-Committee on Census and Government Statistics of the Committee on Post Office and Civil Services House of Representatives, 86 th Congress, 1 st Session
52/79		White envelope containing engineering drawings of the AUTOCRYPTOGRAPH
52/80	1971	CONTROL DATA CDC 6000 ALGOL Reference Manual
52/81		K Autocode on System/360 A. Gibbons
52/82	1972	Buff folder containing "ALGOL 68 with fewer tears" C.H. Lindsey

(Reprinted from the Computer
Journal)

53 The Beeching Archive

These documents were donated to the Science Museum
Library in 2006 by David W. Beeching.

- | | | |
|----|------|--|
| B1 | 1957 | FERRANTI Ferranti Mercury Computer
Programming Manual Issue 1
(Included in the listing of the
ICL Archive with reference 38/233) |
| B2 | | FERRANTI The ARGUS Autocode
(Included in the listing of the
ICL Archive with reference 38/234) |
| B3 | 1952 | FERRANTI Brochure - The Manchester
Electronic Computer (Included in
the listing of the ICL Archive
with reference 38/235) |
| B4 | 1965 | FERRANTI Brochure - ARGUS 400 -
Microminiature general purpose
digital computer (Included in the
listing of the ICL Archive with
reference 38/236) |
| B5 | 1958 | FERRANTI Brochure - A description
of the Ferranti Mercury Computer
(Included in the listing of the
ICL Archive with reference 38/237) |
| B6 | 1965 | FERRANTI ARGUS 100 ARGUS 300
Programming Manual (Included in
the listing of the ICL Archive
with reference 38/238) |
| B7 | | FERRANTI ARGUS 600 User's Manual
(Included in the listing of the
ICL Archive with reference 38/239) |
| B8 | | ELLIOTT Specification of the
Elliott 403 Electronic Digital
Computer (Included in the listing
of the ICL Archive with reference
38/240) |
| B9 | 1960 | ELLIOTT A Guide to programming the
Elliott 802 Electronic Digital
Computer (Included in the listing |

- of the ICL Archive with reference 38/241)
- B10 ELLIOTT A general description of the Elliott 402 Electronic Digital Computer (Included in the listing of the ICL Archive with reference 38/242)
- B11 ELLIOTT 502 General Purpose Real Time On-Line Data Processor (Included in the listing of the ICL Archive with reference 38/243)
- B12 ELLIOTT Routine EF 1 402 Library (Included in the listing of the ICL Archive with reference 38/244)
- B13 ELLIOTT Programming NICHOLAS By G.E. Felton (Included in the listing of the ICL Archive with reference 38/245)
- B14 ELLIOTT 803 Autocode Specification (Included in the listing of the ICL Archive with reference 38/246)
- B15 1962 ELLIOTT The Elliott 503 Computer Description (Included in the listing of the ICL Archive with reference 38/247)
- B16 1960 ELLIOTT A Guide to programming the National-Elliott 803 Electronic Digital Computer (Included in the listing of the ICL Archive with reference 38/248)
- B17 1961 ELLIOTT The Elliott 503 Computer Description (Included in the listing of the ICL Archive with reference 38/249)
- B18 ELLIOTT 803 Facts Booklet (Included in the listing of the ICL Archive with reference 38/250)
- B19 ELLIOTT 4100 Parts Booklet (Included in the listing of the ICL Archive with reference 38/251)

B20	1952	ELLIOTT The Nicholas Library (Included in the listing of the ICL Archive with reference 38/252)
B21	1967	IABG Einfall Mark - 1A Eine ZOR- Computersimulation für den Erdkampf (A Zor computer simulation for land warfare) (Included in the listing of the ICL Archive with reference 43/425)
B22	1968	Programming in MIRFAC Supplement No 1 By H.J. Gawlik (Included in the listing of the ICL Archive with reference 43/426)
B23	1967	Programming in MIRFAC 2 nd Edition By H.J. Gawlik and F.J. Berry (Included in the listing of the ICL Archive with reference 43/427)
B24	1973	Ship Operation Automation An IFAC IFIP Symposium Oslo (Included in the listing of the ICL Archive with reference 43/428)
B25	1975	Royal Institution of Naval Architects Symposium on the use of computers in shipboard automation London (Included in the listing of the ICL Archive with reference 43/429)
B26	1965	Information Processing 1965 New York City Proceedings Vol I (Included in the listing of the ICL Archive with reference 43/430)
B27	1965	Information Processing 1965 New York City Proceedings Vol II (Included in the listing of the ICL Archive with reference 43/431)
B28	1967	Computers and Automation (Reprint) Characteristics of General Purpose Digital Computers (Included in the listing of the ICL Archive with reference 43/432)
B29		An Introduction to A.T.L.A.S. (= Abbreviated Test Language for All

Systems) (Included in the listing of the ICL Archive with reference 43/433)

- B30 1963 Communications of the ACM
(Reprint) A specification of Jovial (Included in the listing of the ICL Archive with reference 43/434)
- B31 1962 Journal of the ACM (Reprint)
Structure and use of ALGOL 60 By H. Bottenbruch (Included in the listing of the ICL Archive with reference 43/435)

54 Sales Proposals, Invitations to Tender, and Responses to Tenders

- 54/1 1964 Proposal to Bristol Waterworks Co for a 1301
- 54/2 1966 Proposal to Eastbourne Waterworks Co for a 1901 and magnetic tape
- 54/3 1967 Proposal to Mid Kent Water Co for a 1901 and punched card accessories Vol I
- 54/4 1967 Proposal to Mid Kent Water Co for a 1901 and punched card accessories Vol II (Supplementary Report)
- 54/5 1967 Proposal to Luton Water Co for a 1901 and punched card accessories
- 54/6 1967 Proposal to Luton Water Co for a 1901 and cassette tapes enhancement
- 54/7 1967 Proposal to Mid Sussex Water Co, with quotations for punched cards, 1004 and 1901
- 54/8 1970 Proposal to Arnott Motteram Menz (South Australia) for 1901A, TEDS and UDR
- 54/9 1971 Invitation to Tender and Proposal to Commonwealth Railways of

		Australia for a 1902A
54/10	1971	Three Proposals: - AMSCOL (South Australia), for 1901A, TEDS, UDR - F.H. Faulding (South Australia), for 1901, cassette tapes, and UDR - Swan Brewery (West Australia), for online enhancements to 1902A
54/11	1972	New Zealand Law Enforcement Information System, Proposal for 2 x System 4 with DEC communications. Vol I
54/12	1972	New Zealand Law Enforcement Information System, Proposal for 2 x System 4 with DEC communications. Vol II
54/13		New Zealand Law Enforcement Information System, Invitation to Tender
54/14	1974	BP Trading, Purchase and Stores, Proposal for 7502 and 7503 enhancements to 1904A
54/15		1976 Two Proposals: - BP Oil Terminal Automation, for 2903 - Shell UK Oil Terminal Data Processing, for 2903 & 7502
54/16	1976?	The Wellcome Foundation, Invitation to Tender and Proposal, for 2900 with VME/B. Vol I.
54/17	1976?	The Wellcome Foundation, Invitation to Tender and Proposal, for 2900 with VME/B. Vol II.
54/18	1977	BNOC, Proposal for 2900
54/19	1977	Shell Chemicals, Proposal for 2904
54/20	1978	Gulf Oil, Invitation to Tender and Proposal, for 12 x 2903 & 2904. Vol I.
54/21	1978	Gulf Oil, Invitation to Tender and Proposal, for 12 x 2903 & 2904.

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54/22	1978	Eschmann Bros & Walsh, Proposal for 2904 Model 50
54/23	1978	Esso Petroleum, Proposal for 1500 distributed system
54/24	1984	Compare BroomWade, Proposal for OMAC, QuickBuild, 2900 enhancement and FDC
54/25	1985	BDH, Invitation to Tender and Proposal for OMAC QuickBuild
54/26	1985	R. Twining & Co, Proposal for Series 39 Level 35, OMAC QuickBuild
54/27	1991	Spillers Foods Invitation to Tender
54/28	1992	Spillers Foods, Proposal for DRS 6000
54/29	1992	GEC Marconi, Proposal for Series 39 SX5 10-20
54/30		Six Proposals:
"	1997	Preston Borough Council, for Trimetra LY
"	1999	Bury Metropolitan Borough Council, for Trimetra DL
"	1999	South Tyneside Metropolitan Borough Council, for Trimetra DL
"	2000	Buckinghamshire County Council, for Trimetra Xtraserver P2000
"	2000	Suffolk County Council, for Trimetra DL
"	2000	St. Edmundsbury Borough Council, for Trimetra DL110-11
54/31		Electricity Council of Nigeria, Consumer Accounting System Specification Vol I.

54/32 Electricity Council of Nigeria,
Consumer Accounting System
Specification Vol II.

All the following refer to SGIO = The State
Government Insurance Office of Queensland

54/33 1900 Projects and Project Numbers

54/34 Comprehensive Motor Vehicle
Insurance System - Reference
Manual

54/35 CMVIS -MP01, MP02, MP03 program
specifications

54/36 CMVIS - MP04 program
specification, Vol I

54/37 CMVIS - MP04 program
specification, Vol II

54/38 CMVIS - MP04 card and record
layouts, and flowcharts

54/39 Comprehensive Motor Vehicle
Insurance System - Procedures
Manual

54/40 INSURE, Vol I

54/41 INSURE, Vol II

54/42 INSURE, VDU Operator's Manual

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