

John Musgrave and Sons Ltd, Globe Iron Works, Bolton

Drawing number	Customer	Detail	Date
	[None]	Details of Hanger for a line G27	July 10 1890
G27	[None]	Strap Fork Motor	August 1 1890
M49	[None]	Drawing for gutters for engine house	October 21 1896
G52	[None]	Section of fireproofing	
M96	[None]	Plan of steam heating pipes	January 6 1897
114	[None]	Plan of fly rope pulley	July 12 1902
	The Commissioners - Water beach level - Stretham Cambridgeshire	10 1/2" exhaust pipes with Expansion joint coupling to new side pipe on cylinder	April 21 1909
119	[None]	Plan of Fly Pulley	[Not dated]
119	[None]	Plan of Fly rope pulley	March 21 1904
B 166	[None]	Plan of Fly Spur Segment Wheel & Pinion	February 23 1900
M170	[None]	Plan of Steam Heating Pipes	July 31 1897
235	[None]	Rope Pulley 20'-0" diameter. 8 -1 1/2 Ropes	March 7 1911
241	[None]	Plan of fly wheel & Rope pulley	May 6 1897
252	Whitworth Spinning Co Ltd	Plan of Fly Spur Segment Wheel	Sept 6 1900
252	Whitworth Spinning Co Ltd	Plan of Fly wheel Segment Wheel	September 8 1900
254	[None]	Plan of Fly Wheel 18' Diameter.	October 19 1898
255	[None]	Plan of Fly Spur Segment Wheel & Pinion for A 57	February 22 1907
258	[None]	Plan of Fly Wheel	July 5 1901
259	[None]	Fly & Spur Segment Wheel	December 4 1901
260	[None]	Fly Wheel	June 21 1901
261	[None]	Flywheel	October 16 1901
262	[None]	Fly & Spur segment Wheel	July 4 1902
263	[None]	Fly wheel	May 7 1902
264	[None]	Fly wheel	October 7 1901
265	[None]	Fly Wheel 24' Diameter for M123 & C125	March 15 1900
266	[None]	Fly & Spur segment Wheel	December 23 1901
267	ATFEH Pumping Station	Spur Wheel 7 Pinion	[Not dated]
268	[None]	Fly wheel showing connections	November 29 1902
268A	[None]	Dowell for fly wheel	January 12 1903
269	[None]	Fly wheel	February 27 1902
269	[None]	Fly & Spur segment Wheel	April 8 1903
270	N C M	Fly Spur Wheel	May 24 1905
271	[None]	Fly & Spur segment Wheel	April 8 1903
272	Clark & Co Paisley	Spur Segment & Pinion	June 15 1903
273	[None]	Fly wheel Rope Pulley etc.	December 9 1902
274	[None]	Fly Wheel 20'	March 31 1903
275	[None]	Fly Wheel 28' Dai.	January 23 1903
272	[None]	Fly & Segment Wheels	March 21 1905
273	[None]	Fly wheel Rope Pulley For M252	9 December 1902
274	[None]	Fly wheel 20'Dia	31 March 1903
275	[None]	Fly Wheel 28' Diameter	January 23 1903
276	[None]	Fly Wheel Spur & Pinions	March 21 1905
289	T Cross & Co	Fly Segment Wheel etc	June 13 1907
291	[None]	Fly Wheel 16' for E 76	March 8 1904
292	[None]	Fly Wheel 20' Diameter for 233/04	March 4 1904
293	[None]	Fly Wheel 19' Diameter for C152/05 No 2 Engine	December 26 1905
294	[None]	Fly Wheel 19' Diameter for C152/05	April 7 1903
		Proposed arrangement. of Magnetic Wheel Coupling for C152/05	March 24 1905
295	[None]	Fly Wheel 19' Diameter for C152/05	March 4 1905
296	[None]	Fly Wheel 18' Diameter For 261	July 18 1906
297	[None]	Coupling up Fly Wheel to Alternator for B261/06	July 18 1906
298	[None]	Fly Wheel 15.4 Diameter	June 21 1906
299	Electric Co Ltd	Fly Wheel 23/10 Diameter for C171/07	February 24 1908
302	[None]	Fly Wheel 21'6" Diameter for C199/06	May 20 1907
307	[None]	Fly & Spur Segment. Wheel	December 29 1908
311	John Ashworth Ltd	Steel Spur Segment. Wheel Ref 145/08	December 14 1908
313	[None]	Spur Segment. Wheel 21' Diameter for L113/09	January 28 1909
314	[None]	Steel Spur Segment Wheel & Pinion Ref L49	September 23 1908
315	[None]	Spur Segment Wheel 21' Diameter	January 28 1908
316	[None]	Spur Segment for 21' Diameter for L113/09 No 3 Mill	January 28 1909
326	[None]	Fly Wheel 32' Diameter	October 27 1908
322	[None]	Fly Wheel 18' Diameter	April 28 1909
323	[None]	New Steel Spur Segments.	February 12 1909
326	Eastwood & Sager Ltd Blackburn	Fly Wheel 24' Diameter	November 4 1908
335	[None]	Fly Rope Drum	January 7 1908
381	M Stuttard & Bros Ltd	Pair Starting Engines	October 3 1832
563	[None]	Fly rope pulley etc	March 14 1882
564	George Grant & Sons	Starting Gear	February 16 1882
565	[None]	Patent Barring Engine	May 11 1882
566	James Eckersley & Co Ltd	Patent Starting Gear	May 1 1882
567	William Calvert & Sons	Patent Hand Starting Gear	November 2 1882
568	Huntley & Palmer	Pair of Starting Engines	July 1882
569	[None]	Patent Starting Gear	January 17 1882
570	[None]	[none]	June 7 1883
571	[None]	Starting Engine	May 9 1883
572	[None]	Patent Barring Engine	May 15 1885
574	[None]	Arrangement. of triple expansion engine	[Not dated]
2669	[None]	Boiler House	May 15 1893
11595	[None]	Foundations for Horizontal. Compound Engine	February 26 1900
17407	[None]	Platform round cylinders for Vertical Triple Expansion Engine	February 6 1897
17445	[None]	Platform round Cylinders	February 1897
17539	[None]	Plan of Cap Stones of Foundations for Horizontal Compound Engine	May 9 1905
27160	[None]	Foundations for Horizontal. Side by Side Steam Engine	May 23 1905
27230	[None]	Connecting rod & crank Pin	February 6 1908
31482	[None]	Alteration to Walking Crane Cylinder Shop	September 1902
62486	[None]	Governor Stand & Details	November 4 1887
9788	T Hesketh & Sons	36 " Air pump bucket	December 7 1887
9843	[None]	Beam Centre Pedestal for Horse Beam Engine	September 24 1890
9847	T & H	Automatic Governor	December 19 1887
9885	[None]	Air Cylinder for Single & Compound Engines	December 15 1888
9915	[None]	Air Cylinder	December 17 1888
9916	[None]	H P Steam Receiver	March 23 1891
11912	[None]	Cut-off Tackle for 37" - 2nd Inter Cylinder	March 25 1891
11922	[None]	Piston rods, Sockets for Vertical Quad Expansion Engine	April 10 1891
11953	[None]	Fenders for rocking levers	May 14 1891
11959	[None]	Crank Pin End of connecting rod	May 7 1891
11977	[None]	Wrought Iron Work for Corless Valves for L P Cylinder	May 12 1891
11981	[None]	34 15/64" Piston	May 12 1891
11994	[None]		

11998	J W Cranks	[none]	May 15 1891
11999	[None]	Connecting rod	May 13 1891
12000	[None]	Crank shaft for No 128 Mill	May 13 1891
12001	[None]	Rocking lever	May 12 1891
12002	[None]	Rocking levers on Standards	May 12 1891
12003	[None]	Air Pump lever	May 14 1891
12005	[None]	Stay for Top of Governor	May 15 1891
12006	[None]	Eccentrics & Rings	May 18 1891
12007	[None]	Air Cylinders	May 7 1891
12020	John Harwood & Sons	4"-6 Piston etc.	April 24 1914
12021	[None]	20" Air Pump Bucket for B59	May 30 1891
12022	[None]	Delivery Valve for 20" Air pump for B59	March 23 1893
12023	[None]	Foot Valve for 20" Air pump for B59	June 5 1891
12025	[None]	Slides for 20" Air Pump for B59	May 27 1891
12028	[None]	N I Crank for B59	May 27 1891
12019	[None]	Eccentric & Coupling Rods for No 128 Mill	May 27 1891
12030	London & Manchester Plate Glass Co Ltd	Siemens Steel Crank Shaft	June 2 1891
12032	[None]	Auxiliary injection tackle for L32	March 19 1891
12034	John Jackson & Son	W I Crank	June 3 1891
12038A	[None]	Crosshead Brasses	June 25 1913
12039	[None]	Wrot Iron Cranks for M45 & A38	July 22 1891
12040	[None]	Whitworth's Compressed Steel Crank Shaft	July 22 1891
12041	[None]	Eccentric Rods & Coupling Rods for M45	August 14 1891
12046	[None]	Wrot Iron Work for Corliss Valves for 39" LP Cylinder for	June 16 1891
12049	[None]	Slides for 28" Air Pump for M45	June 26 1891
12050	[None]	Delivery Valves for 28" Air Pump for M45	June 26 1891
12053	[None]	Jacketed Steam Receiver between H P & Inter Press Cylinder for M45	August 12 1891
12054	[None]	Strainer Box for Injection Water for M45	AUGUST 24 1891
12055	[None]	Carrier Levers for M45	July 30 1891
12057	[None]	6 3/4 Air Cylinder	May 30 1891
12065	[None]	Rocking lever on intermediate Cylinder for M45	July 21 1891
12066	[None]	Rocking levers for Low Pressure Cylinders for M45	July 20 1891
12068	[None]	Safety Gear for No 128 Mill	June 10 1891
12067	[None]	4" Stop Valve Box for Quadruple Expansion Engine for B59	June 6 1891
12074	[None]	Rocking Lever for a 24" McN[ought] N Cylinder	June 1891
12073	[None]	Air Pump for 24" H P Cylinder for B64	June 13 1891
12075	[None]	W I Work for Corliss Valves for B64	June 11 1891
12076	[None]	Eccentric rods for B64	June 12 1891
12079	[None]	Safety Gear for Beam Engine for B64	June 25 1891
12083	[None]	Safety Gear for Vertical Engine for B59	June 15 1893
12085	[None]	Receiver for H P & !First Inter Cylinder for B59	June 19 1891
12086	[None]	Steam Receiver between 2nd Intermediate NS l p cylinder FOR b59	May 12 1891
12088	[None]	H P Air Cylinder for B59	June 17 1891
12089	[None]	Inter. Air Cylinder for a Quad Exp. Steam Engine for B59	May 9 1891
12099	[None]	Steel crank shaft for Patent Compound Vertical Engine	July 14 1891
12100	[None]	18' 1st intermediate Piston for B59	June 26 1891
12105	[None]	Connecting rods Cross Heads, piston rods etc. for C44	June 20 1891
12107	[None]	Eccentrics and Rings for C44	July 8 1891
12106	[None]	Eccentric and Coupling rods for C44	July 22 1891
12108	[None]	H P Rocking Lever for C44	
12117	[None]	H P Air Cylinder for C44	June 26 1891
12120	[None]	Air Pump Beam for C44	July 8 1891
12122	[None]	Wrot Iron Work	July 10 1891
12123	[None]	Air Pump Slides for C44	July 15 1891
12124	[None]	Air Pump Bucket for C44	July 2 1891
12125	[None]	Delivery valve etc. for C44	July 6 1891
12126	[None]	Injection Tackle for C44	July 28 1891
12129	[None]	H P Piston for C44	June 26 1891
12130	[None]	Fixings etc. for Staircase for W41	June 29 1891
12132	[None]	L P Air Cylinder for C44	June 30 1891
12133	[None]	Back Slide for C44	July 8 1891
12134	[None]	Safety Gear for Governor for C44	July 30 1891
12136	[None]	Back Slide Block for C44	July 7 1891
12138	[None]	Beams for carrying Air Pump for C44	July 10 1891
12139	[None]	Air Pump Bucket for S59	June 17 1891
12145	[None]	22" H P Piston for C44	July 22 1891
12146	[None]	38" L P Piston & Cover for C44	July 24 1891
12149	[None]	Connecting Rod for a vertical Non-condensing Compound Engine for H71	July 23 1891
12150	[None]	Side Levers etc for vertical non-condensing Compound Engine for H 71	July 24 1891
12160	[None]	7" Slide Wedge Stop Valve Box for L32	July 1892
12163	[None]	H P Rocking Lever for H71	August 6 1891
12164	[None]	L P Rocking Lever for H71	August 6 1891
12165	[None]	Air Cylinder H P for H 71	August 6 1891
12166	[None]	Air Cylinder L P for H 71	August 7 1891
12167	[None]	Crank Race Drippers. Pillars and Rails etc for C44	December 21 1891
12169	[None]	Stuffing Box on H P Cylinder	August 10 1891
12170	[None]	Stuffing Box etc for C44	August 8 1891
12171	[None]	Piston Rods, Socket etc for vertical Compound Steam Engine	August 12 1891
12172	[None]	Drawing of Pistons for H 71	August 19 1891
12175	[None]	Crank Shaft for H 71	August 19 1891
12177	[None]	4 1/2 Stop Valve etc for H 71	August 20 1891
12178	[None]	Fender for Rocking Levers for H 71	August 14 1891
12179	[None]	Eccentrics & Rings for H 71	August 19 1891
12180	[None]	Eccentric & Coupling Rods for H 71	August 21 1891
12181	[None]	Safety Gear for Vertical Engine for H 71	August 28 1891
12182	[None]	Crank and Pin for H 71	August 13 1891
12183	[None]	Steam Receiver for M45	August 14 1891
12185	Dronsfild Oldham	Fixing and Shaft for Higginson's Regulator	August 20 1891
12186	[None]	Corliss Valves & Spindles for W47	August 20 1891
12187	[None]	Boiler Feed Pump for B59	August 29 1891
12192	[None]	22" H P Piston for M45	August 28 1891
12194	[None]	39" L P Piston for M45	August 31 1891
12195	[None]	Waste Water Taps from Cylinders for M45	August 28 1891
12197	[None]	Beams for Air Pumps for M45	September 1 1891
12200	[None]	Crosshead, Slide Blocks & Piston Rods for Horizontal Non-condensing Steam engine SS79	September 9 1891
12204	[None]	Crank Shaft Pedestal for SS79	September 7 1891
12212	[None]	Siemens-Martin steel crank shaft for SS79	September 5 1891
12213	[None]	Wrot Iron Crank for SS79	September 1 1891
12216	[None]	18" H P Piston for SS79	September 11 1891

12218	[None]	Connecting rod etc for Horizontal Steam Engine B66	September 9 1891
12225	[None]	Air Cylinder 5" diameter. for SS79	September 9 1891
12228	[None]	Air Cylinder for B66 and M64	September 16 1891
12230	[None]	Indicating Tackle for SS 79 1891	September 18 1891
12231	[None]	Knock off Tackle for SS79	September 18 1891
12233	[None]	Pump Rod for SS97	September 14 1891
12235	[None]	Indicating Gear for B66	September 21 1891
12240	[None]	Crank Shaft for E 32	October 19 1891
12241	[None]	Stuffing Box for M45	September 22 1891
12242	[None]	Stuffing Box for M45	September 22 1891
12244	[None]	Rocking lever on L P Cylinder for E32	September 22 1891
12250	[None]	Eccentrics & Rings for E32	September 25 1891
12225	[None]	H P Piston for E 32	September 25 1891
12256	[None]	L P Piston for E 32	October 1 1891
12257	[None]	1st inter Stuffing Box for E 31	September 29 1891
12260	[None]	Back Pedestal for B 66	October 1 1891
12262	[None]	H P Air Cylinder for E 32	September 25 1891
12263	[None]	L P Air Cylinder for E 32	September 23 1891
12275	[None]	L P Rocking Lever for H 65	October 12 1891
12276	[None]	Carrier Levers for H 65	October 9 1891
12289	[None]	Air Pump Beam for H 65	October 13 1891
12295	[None]	Fixing and Springs on Governor rod W 32	October 1 1891
12297	[None]	Stop Valve and Pillar for E 32	October 19 1891
12302	[None]	Safety Gear for Governor for H 65 & N28	October 23 1891
12312	[None]	H P Ai Cylinder for C 49	October 28 1891
12313	[None]	Rocking Lever for H P Cylinder for C 49	October 28 1891
12314	[None]	H P Carrier Levers for C 49	November 2 1891
12316	[None]	Wrot Iron Work for Corliss Valves for C 49	November 3 1891
12320	[None]	L P Rocking Levers for C 49	October 29 1891
12321	[None]	Carrier levers for C49	November 4 1891
12323	[None]	H P Piston for C49	November 6 1891
12324	[None]	26 " L P Piston for C 49	November 11 1891
12326	[None]	Eccentrics and Rings for P 27	October 28 1891
12327	[None]	Eccentric Rods for P 27	November 16 1891
12328	[None]	Rocking Levers for P 27	November 13 1891
12329	[None]	Plates etc for High and Low Press Cylinders for C 49	October 29 1891
12330	[None]	Eccentric & Coupling Rods for C 49	November 11 1891
12331	[None]	Eccentrics & Rings for C 49	November 3 1891
12334	[None]	Crank Shaft Pedestal for B 68	October 23 1891
12334	[None]	Connecting rod , Crosshead etc for B68	November 4 1891
12336	[None]	W I Crank for B 68	October 27 1891
12339	[None]	Siemens - Martin Steel Crank Shaft for B 68	November 25 1891
12340	[None]	Governor Tackle for P 27	November 24 1891
12341	[None]	Alterations to Injection Tackle for I 21	November 2 1891
12342	[None]	H P Piston for B68	November 5 1891
12344	[None]	Brass delivery valves for E 32	November 9 1891
12348	Huntley & Palmer	Crank Shaft	November 9 1891
12349	[None]	1stInter. & H P Stuffing Boxes for B59	November 11 1891
12350	[None]	Inter. Stuffing Box for B 59	November 10 1891
12356	[None]	Eccentric & Rings for B 68	November 11 1891
12357	[None]	Indicating Tackle for B 68	November 12 1891
12375	[None]	Connecting rod for B46	November 16 1891
12377	[None]	Wrot Iron Crank for B46	November 9 1891
12379	[None]	Wrot Iron Work for 17" Air Pump for B46	November 19 1891
12388	[None]	Eccentrics for Patent Engine for B66a	November 25 1891
12391	John Walton	Brass Stamper Valve & Spindle	November 25 1891
12394	[None]	Oil Cylinder etc.	November 25 1891
12396	[None]	Pump Rod etc for 5" Hot Water Pump	November 27 1891
15813	[None]	Spring Box for M101	June 21 1895
15814	[None]	Slide & Slide Block for M101	June 22 1895
15817	[None]	Fork end connecting rod for 4 1/2" diameter. Pump for N32	June 24 1895
15821	[None]	Wrot Iron Work for Cut off Valves for M101	June 26 1895
15823	[None]	Wrot Iron Crank & Steel Crank pin for M101	June 27 1895
15826	[None]	Cast Steel Crank & Casing for R 41	June 27 1895
15830	[None]	Siemens Steel Crank Shaft for R 41	July 18 1895
[none]	W W Scholfield Esq. Buckley	30 Ho. Cylinder Bottom	June 1863
[none]	[None]	Fly Pulley 9'-0 1/2" diameter. for T 113/10	May 6 1910
[none]	[None]	Air Pump for No1 & 2 Engines at No 2 Mill	March 19 1908
[none]	[None]	Fly Wheel 18" diameter for B186	June 21 1901
[none]	M Stuttard & Bros Ltd Underbank Mills Whitworth	Spur Fly Wheel & Pinion for Compound Vertical Engine (Bertha)	December 6 1905
[none]	M Stuttard & Bros	Spur Fly Wheel	May 9 1905
[none]	James Kenyon & Sons Bury	Engine House	May 2 1905
[none]	Leithen Mills Spinning Co	Fly wheel Drum	April 19 1905
[none]	Leithen Mills Spinning Co	H P Cylinder	March 20 1908
[none]	Leithen Mills Spinning Co	Horizontal Air Pump & Condenser	March 22 1908
[none]	Leithen Mills Spinning Co	General Arrangement of Expansion Gear Also Piston Valves & Rods	June 22 1908
[none]	Thomas Houldsworth & Co Ltd	Injection Pipes and Well for Vertical Engine	October 5 1904
[none]	Thomas Taylor & Bros Wigan	Rolled Steel Girders	April 27 1904
[none]	Thomas Taylor & Bros	Engine House for Vertical Engines	March 12 1904
[none]	Thomas Taylor & Bros	Engine House for Pair of Vertical Engines	March 11 1904
[none]	Lees & Rigley Greenbank Mills Oldham	Air Pump and Boiler Pump	April 4 1903
[none]	Lees & Wrigley Oldham	General Arrangement of Air Pumps & Condenser	March 17 1902
[none]	W Shaw & Sons	Seating and Brickwork for Boiler	Nov 9 1901
[none]	Wood Street Mill Co Ltd	Arrangement of Parallel Motion for New H P Cylinders	August 4 1899
[none]	James Scholfield & Sons Buckley Mills		
[none]	William Shaw 7 Sons Rochdale	Cast Iron Stool to replace top course of stone in crank wall Plan & Elevation of Engine Bed for Horizontal. Engine Eccentrics & Rods working Piston Valves of Horizontal.	October 4 1899 June 30 1891
[none]	Leithen Mill Spinning Co	Compound Tandem Engine	April 6 1905
[none]	W Shaw & Sons	Piston rod Cap & Parallel Motion of new H P Cylinder	January 19 1894
[none]	W Shaw	H P Cylinder 15" Dai x 5ft stroke	January 24 1894
[none]	W Shaw & Sons	H P Cylinder 15" diameter x 5ft stroke & Connections	March 5 1894
[none]	Longholme Shed	Connecting rods, Cranks Pins for pair of Compound Beam Engines	December 24 1894
[none]	[None]	Low Pressure Cylinders 10ft to this hand & 10ft to opposite hand	January 3 1895
[none]	Longholme Shed	2 L P Cylinders 26" diameter by 5ft stroke	January 28 1895
[none]	Longholme Shed	Air Pumps & Condensers for Pair of Compound Beam Engines	January 29 1895
[none]	Longholme Shed	New Governor Stand & Gearing & Alterations to old Arms & Spindle	February 15 1895
[none]	Longholme Shed	One Hot Water Pump 3 1/2" diameter by 15" stroke for Pair of Compound Beam Engines	February 13 1895

[none]	Longholme Shed	Rawtenstall	Slide Stop Valve for Pair of Comp. Beam Engines	February 20 1895
[none]	Longholme Shed		Slide Valves, rods, guidebrackets, cross-bars & Links for L P Cylinders	February 20 1895
[none]	Longholme Shed		One 6" Automatic Knock off Valve	February 20 1895
[none]	Longholme Shed		Packing Stage for H P Cylinders	February 27 1895
[none]	Longholme Shed		Arrangement of Levers, shafts, fixings etc. to Trip Motion & Knock off Valves	February 29 1895
[none]	Longholme Shed		Channel Bracket for L P Packing Stage	July 4 1895
[none]	James Scholfield	Rochdale	One H P Cylinder 22" diameter by 2'-9" Stroke	October 4 1895
[none]	James Scholfield	Rochdale	Arrangement of Expansion, Cast Iron Stool for carrying Governor etc.	November 6 1895
[none]	James Scholfield		Eccentric & Rod for working H P Valves for compounding	January 4 1895
[none]	James Scholfield		Horizontal Beam engine	January 6 1896
[none]	James Scholfield		Arrangement of Parallel Motion for New H P Cylinders	January 6 1896
[none]	James Scholfield		5" Combined Stop & Valve	February 5 1896
[none]	Glasgow Cotton Spinning Co Ltd		Wallplates in Rope Chamber of New Mill	March 18 1890
[none]	W W Scholfield Esq		Fly Wheel	September 7 1863
[none]	[None]		Lowcocks Improved Fuel Economiser	[Not dated]
[none]	[None]		Standard list of Grooves for Rope Pulleys	[Not dated]
[none]	W W Scholfield Esq.		Fly Wheel	June 5 1863
[none]	Nathan Pickering & Sons Ltd		Plan of Barring Engine	June 23 1915
[none]	John Robinson Kay Trustees			
[none]	Longholme Shed		[none]	[Not dated]
C19/610	NWMJEA Meaford Power Station		Diagrammatic arrangement of 30,000 kW Condensing & Feed Heating plant	November 29 1944