



MACTAGGART SCOTT
Innovators since 1898

Plant List





MACTAGGART SCOTT
Innovators since 1898

Introduction

MacTaggart Scott is based in the small Scottish town of Loanhead, which is approximately 8km south of the beautiful city of Edinburgh. For over 100 years our extensive range of products have been designed, manufactured, assembled, and tested at this site.

We recognise that in our 'design to order' environment flexibility in our facilities and our people are key factors to ensuring our continued success.

To maintain this flexibility on our shop floor we have re-organised our mix of traditional machine tools and the very latest CNC equipment into production cells. Our well equipped machine shops are supported by extensive fabrication, assembly and test cells.

Each production cell is manned by a team of highly skilled engineers responsible for the delivery, cost and quality of the processes carried out within their cell. To make this possible we have developed and trained a flexible and resourceful workforce whose blend of youth and experience bring sound knowledge and fresh ideas to each project.

At MacTaggart Scott we believe that this all round flexibility, allied with a modern computerised production control system, and a drive for continuous improvement, means we can manufacture whatever the customer wants on time, every time.



MACTAGGART SCOTT
Innovators since 1898

Contents

Capstan Lathes
Centre Lathes
Combination Turret Lathes
CNC Turning Centres
CNC Mill/Turning Centres
Vertical Boring Mills
CNC vertical Boring Mills
Jig Boring machines
Horizontal machining Centres
Vertical Machining Centres
Milling machines
Spline Milling Machines
Drilling Machines
Grinding Machines
Surface grinding Machines
Internal Grinding Machines
Surface Lapping Machines
Honing Machines
Gear Cutting Machines
Slotting Machines
Planar Milling Machines
Welding Plant
Assembly and Quality Assurance



MACTAGGART SCOTT
Innovators since 1898

Capstan lathes

Manufacturer	Model	Chuck	Remarks	Number of machines
Herbert	No.2D	Spring chuck 1,1/2" collet		2
Herbert	No.4	Spring chuck 2" collet	Also has 4 jaw chuck	1



MACTAGGART SCOTT
Innovators since 1898

Centre lathes

Manufacturer	Model	Swing over bed	Swing over saddle	Swing in gap	Centre distance	Remarks	No. of machines
TOS	SN55B	500mm(19,1/2")	315mm(12,1/2")	507mm(20")	1830mm(72")		1
Dean Smith & Grace	Type 25	635mm(25")	395mm(15,1/2")	635mm(25")	1525mm(60")		1
Colchester	Triumph 2500	16"	10"		1000mm(40")		3
Dean Smith & Grace	13/1	13,1/2"	6,1/2"		30"		1
Craven Swift	26D	28"	16,1/2"	76" x 22"	14ft	6,1/8" dia through tube	1

Manufacturer	Model	Swing over bed	Swing over saddle	Swing in gap	Centre distance	Remarks	No. of machines
TOS	SN71B	28"	16,1/2"	37" x 11"	78"		1
Swift	190	40"	40"		22ft	4" dia tube	1



MACTAGGART SCOTT
Innovators since 1898

Combination turret lathes

Manufacturer	Model	Swing over bed	Swing over saddle	Max chuck to turret	Chuck	Spindle	Remarks	No. of machines
Ward	10/13	30"	21"	42"	25"	5,1/4"		1



MACTAGGART SCOTT
Innovators since 1898

CNC Turning Centres

Manufacturer	Model/ Control	Swing over bed	Number of tools	Max chuck to turret	Chuck size	Spindle	Remarks	No. of machines
Doosan	Lynx 300 / Fanuc	651mm	12	765mm	12"	76mm		1
Doosan	Puma 400 / Fanuc	770mm	10	1043mm	10"	116mm		1
XYZ	Proturn ELX 1440	360	0	900mm	8"	52mm		2



MACTAGGART SCOTT
Innovators since 1898

CNC Mill/turning Centres

Manufacturer	Model/ Control	Swing over bed	Number of tools	Max chuck to turret	Chuck size	Spindle	Remarks	No. of machines
Doosan	SlantPuma 2600LY turn	780mm	12	1280mm	10"	76mm		1
Mazak	Integrex 70/ T32	600mm	30	2100mm	600mm			1



MACTAGGART SCOTT
Innovators since 1898

Vertical Boring Mills

Manufacturer	Model	Chuck	Max diameter	Max height under cross rail	Vertical travel of turret	Remarks	No. of machines
Webster Bennett		36" dia	40"	23"	22"		1
Webster Bennett		54"	56"	48"	30"		1



MACTAGGART SCOTT
Innovators since 1898

CNC Vertical Boring Mills

Manufacturer	Model/ Control	Chuck	Max diameter	Max height under cross rail	Vertical travel of turret	Remarks	No. of machines
Webster Bennett	Siemens Sinumerik	58"	60"	50"	35"		1



MACTAGGART SCOTT
Innovators since 1898

Horizontal Machining Centres

Manufacturer	Model / Controller	Table	Long Travel	Cross Travel	Vertical travel	Number of Tools	Remarks	No. of machines
Mazak	HA500 / Fanuc M32	500mm x 500mm	650mm	710mm	650mm	40		1
Mori Seiki	NH 6300 DCG /	630mm x 630mm	980mm	900mm	800mm	60		1
Mitsui Seiki	Fanuc 6MB	1000 x 1000	1060	1300	1000	60		1



MACTAGGART SCOTT

Innovators since 1898

Vertical Machining Centres

Manufacturer	Model / Controller	Table	Long Travel	Cross Travel	Vertical travel	Number of Tools	Remarks	No. of machines
XYZ	1510 VMC	1600mm x 600mm	1500mm	600mm	600mm	24		1
Mazak	AJV50 / 80 Fanuc M32	2000mm x 1150mm	2000mm	1000mm	708mm	40		1
Dugard	Eagle / Siemens	1200mm x 450mm	1000mm	450mm	450mm	20		1
Soraluce	Heidenhain iTNC	16000mm	7000mm	1000mm	1900mm		Travelling column (1550mm long travel available)	1
Soraluce	Heidenhain iTNC	16000mm	7000mm	1000mm	1900mm	30	Travelling column (1550mm long travel available)	1



MACTAGGART SCOTT

Innovators since 1898

Milling Machines

Manufacturer	Model	Long Travel	Cross Travel	Vertical travel	Spindle Travel	Table To Spindle	Remarks	No. of machines
Huron	Hure SA	1300mm	650mm	480mm		450mm		2
Adcock & Shipley	No.2 AGU	40" x 20"	23"	15"		14,1/4"		1
XYZ	XYZ 3000	863mm	406mm	406mm	127mm	457mm	Easson digital read out system fitted	1



MACTAGGART SCOTT
Innovators since 1898

Spline Milling Machine

Manufacturer	Table Size	Centres	Admits max dia compensation	Max spline length	Max dia of spline	Remarks	No. of machines
Union Gera / BFT 125						Converted to machine large dia. Internal splines	1



MACTAGGART SCOTT
Innovators since 1898

Drilling Machines

Manufacturer	Type	Table	Radius	Max height of spindle	Spindle	Max dia of steel	Remarks	No. of machines
Archdale	Radial arm	42" x 30"	4ft	60"	5 M.T.			1
Asquith	Radial arm	27" x 24"	32"	20"	4 M.T.		Swivelling table	1
Asquith	Radial arm	62" x 36"	6ft	40"	5 M.T.	3"		1
Archdale	Radial arm	4' x 3'	5'	44"	5 M.T.	3"		1



MACTAGGART SCOTT
Innovators since 1898

Grinding Machines

Manufacturer	Type	Centres	Swing	Remarks	No. of machines
Jones & Shipman	1055EFT Int/Ext	60"	12" dia	Double swivel wheelhead slide	1
Jones & Shipman	E102	27"	10" dia		1
Jones & Shipman	1077 Ext	27"	14"		1
TOS Tool & cutter grinder	Mod BN102A	690mm			1
Cincinatti	Centreless		4" dia		1

Manufacturer	Type	Centres	Swing	Remarks	No. of machines
Churchill	External	240"	24"		1



MACTAGGART SCOTT
Innovators since 1898

Surface Grinding Machines

Manufacturer	Type	Table	Height under new wheel	Stroke	Remarks	No. of machines
Alpa	Rotary	4ft dia	14"	2ft		1
Jones & Shipman	PD540	18" x 6"	9,1/2"	18"	Fitted with wheel profiling attachment	1
Jones & Shipman	1011	24" x 12"	9,1/2"	24"		1



MACTAGGART SCOTT
Innovators since 1898

Internal Grinding Machines

Manufacturer	Chuck	Swing	Length	Stroke	Remarks	No. of machines
Churchill	20"	21"	40"	40"		1
Churchill	9"	21"	30"	18"		1
Jones & Shipman jig grinder	Table	3"	18"	10"		1



MACTAGGART SCOTT
Innovators since 1898

Surface Lapping Machines

Manufacturer	Table	Remarks	No. of machines
Lapmaster	24" dia		1



MACTAGGART SCOTT
Innovators since 1898

Honing Machines

Manufacturer	Type	Stroke	Remarks	No. of machines
Delapena	3" horizontal hand operated	8"		2
Delapena	Vertical hand operated	36"		1
Jones & Shipman	Single spindle vertical auto honing m/c	15"		1



MACTAGGART SCOTT
Innovators since 1898

Gear Cutting Machines

Manufacturer	Type	Max PCD	Max Stroke	Height	Min DP	Remarks	No. of machines
Gleason - Pfauter	Gear shaper	1600mm	600	1500mm		Up to 1800mm OD and 24 Module	1



MACTAGGART SCOTT

Innovators since 1898

Slotting Machines

Manufacturer	Type	Stroke	Throat	Max Under Ram	Remarks	No. of machines
Butler	PR8	8"	19,3/8"	5deg ram tilt	20" dia rotary table	2
Butler		14"	29"	24"	39" dia rotary table	1



MACTAGGART SCOTT
Innovators since 1898

Planar Milling Machine

Manufacturer	Table Size	Capacity	Remarks	No. of machines
Lockwood	16ft x 6ft	16'6" x 6'6" x 6' under bridge	50HP 2-speed Futurmill vertically mounted with 6" quill movement	1



MACTAGGART SCOTT
Innovators since 1898

Welding Plant

Manufacturer	Type	Specification	Remarks	No. of machines
Co-weld	Turntable			1
Air Liquide	Turntable			1
Parweld	TIG	Portable XTI-181dv-tig		1
Lincoln	TIG	Precision TIG MMA 375		3
Lincoln	MIG	Powertec 500S		4

Manufacturer	Type	Specification	Remarks	No. of machines
Oerlikon	MIG	Citoarc M505		1
Fronius	TIG	Transtig TT450 & manipulator		1
ESAB	MMA	LHF400 (portable)		1
ESAB	Plate roller			3
ESAB	Pipe bender			1
Pearson	Brake press			1
Messer	Profile burning machine	Proflin comcut CNC		1
Messer	Portable burner	Quicky straight line burner		1
Mannings	Stress relieving furnace	2000mm x 2000mm x 3000mm		1

Manufacturer	Type	Specification	Remarks	No. of machines
Ramsell Naber	Stress relieving furnace	2 Ft cube capacity	Electric	1

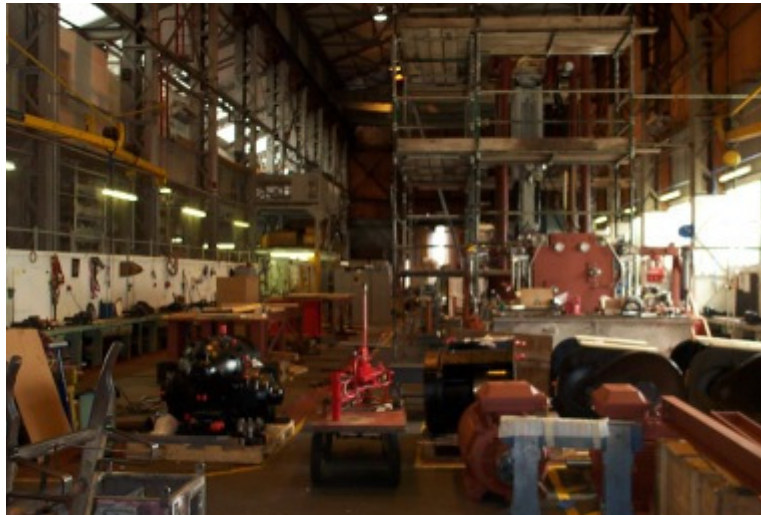


MACTAGGART SCOTT

Innovators since 1898

Assembly

Mactaggart Scott currently has the capacity to build and test all types of machinery, special purpose, proto-type etc. including the overhaul, refurbishment and rebuilding of machines, pumps, hydraulic motors etc. Test towers and test equipment is available for testing winches, windlasses and lift equipment up to 30 tonnes.





MACTAGGART SCOTT
Innovators since 1898

Quality Assurance

Mactaggart Scott has for a number of years held ISO 9001 approval for their Quality System, furthermore a systematic control of product and process quality has been evident since the early days of AQAP & BS9000.

The current system in accordance with ISO 9001:2000 is focussed on continuous improvement and its documentation is structured thus:

Document	Description
Quality Policy / Manual	Governing Documents
Quality Assurance Procedures (QAP's)	Mandatory procedures within ISO 9001
Company Procedures (CP's)	How the remaining sections of ISO 9001 are managed / controlled
Special Procedures (MTSP's)	Procedures / work instructions where lack of defined criteria would adversely effect the outcome of the product quality.

The Quality System is an integral part of the way that Mactaggart Scott manages the business. At the outset of any enquiry / order a stringent review of customer requirements is conducted involving all functional areas.

When deemed necessary a Quality Plan is developed from our standard template which includes a Contract Quality Assurance Matrix outlining the levels of customer monitoring / witnessing, deliverable documentation, requirement for process approvals, material certification levels and factory acceptance testing (in accordance with the project test plan).

Internal auditing is planned and conducted to ensure that the results of the processes are as expected and opportunities for improvement identified. This pro-active approach facilitates the target of efficient, effective and repeatable processes, meeting / exceeding customer requirements.

Throughout the product realisation processes there are inspection and testing activities at appropriate points, all Mactaggart Scott products are subject to a 100% inspection check to ensure compliance to design / drawing & 100% testing (where appropriate) to ensure design verification / validation.

If non-conformance should occur Mactaggart Scott operates a rapid process through a multifunctional team ensuring dispositioning, corrective and preventative actions (where appropriate). Weekly & monthly reviews are conducted to facilitate trend analysis and target areas for improvement.

A final visual check on all deliverable products is conducted prior to release from Mactaggart Scott to ensure the items to be received will meet the customer expectations.