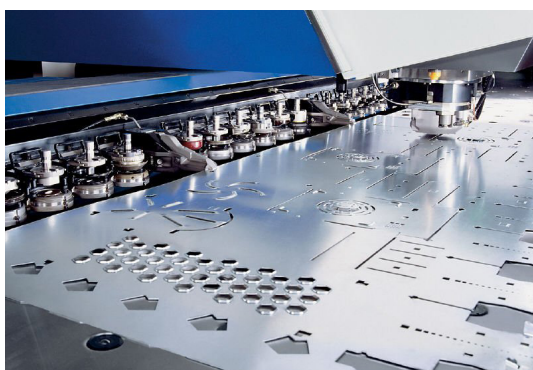


LASER CUTTING & PUNCHING



FLAT BED LASER CUTTING

Qty	Machine	Kw	Dimensions	Thicknesses
1	Large Format Flat Bed Laser with bevel facility up to 45 degrees	5	up to 20m x 3.2m	12mm Mild steel 9mm Mild steel (bevel)
22	Flat bed lasers inc. 10 Fibre lasers with fully automated loading & part sorting	12	up to 8m x 2.5m	25mm Mild steel 30mm Stainless steel 20mm Aluminium 10mm Copper 10mm Brass

CNC PUNCHING

Qty	Machine	Dimensions	Thicknesses
1	TRUMPF TruPunch 3000	up to 2500mm x 1250mm	6mm Stainless Steel 6mm Mild Steel 6mm Aluminium

TUBE, BOX SECTION, ANGLE & PIPE CUTTING



TUBE LASER CUTTING

Qty	Machine	Dimensions	Thicknesses
3	Tube Lasers Tubes: round, square, rectangle, flat sided oval Open profiles: angle, flat, channel Special profiles: Special shaped tubes or open sections can be programmed and cut without problems	Tube: up to Ø 220mm Box: up to Ø 200 x 200mm RSA: up to 200 x 200mm Max. weight: 340kg Max weight per single tube: 40 kg/m Max. component length: 8.5m Max. bundle loading weight: 5000kgs Fully automatic bar handling from bundle including: measuring, feeding, cutting & unloading	Mild steel: 12mm Stainless: 8mm Aluminium: 8mm Brass: 8mm Copper: 5mm Galvanized Tube: 12mm



ROBOTIC PLASMA TUBE CUTTING

Qty	Machine	Dimensions	Thicknesses
1	Robotic Plasma Tube Machine	8.0m x maximum diameter 1000mm	40mm wall thickness

HIGH DEFINITION PLASMA CUTTING

Qty	Machine	Dimensions	Thicknesses
1	High Definition Plasma Cutting Machine	Twin head cutting Large format cutting area 25m x 5m Bevel cutting facility to 40 degrees	40mm
1	High Definition Multi Bevel Plasma Cutting Machine	10m x 2.5m Chamfered edges up to $\pm$ 50 degrees 'True Hole' Technology	50mm



DYNAMIC WATERJET CUTTING

WATERJET CUTTING

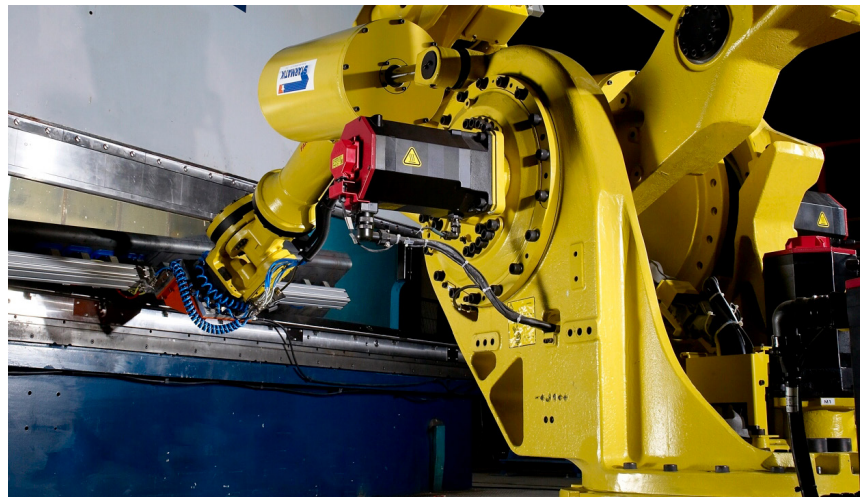
Qty	Machine	Dimensions	Thicknesses
3	Waterjet Cutting Machines	Max 7.3m x 2.4m	200mm (any material) 300mm aluminium



BENDING, FOLDING & PRESSING

ROBOTIC PRESS BRAKE

1	URSVIKEN 640 Tonne CNC Press 7.6m wide including 1 with 600kg capacity robotic handling & angle checking device
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PRESS BRAKES

1	URSVIKEN 640 Tonne CNC Press 7.6m wide
1	URSVIKEN 640 Tonne CNC Press 4.5m wide
16	Press Brakes, capacity up to 4.2m x 230 tonnes
2	URSVIKEN 200 Tonne CNC Press 4m wide
1	URSVIKEN 64 Tonne Press 2m wide
1	Digibend 360 multi purpose bender / former
1	Euromac B#E2DO CNC DI-GIBEND 720 L.2000

ADDITIONAL SERVICES

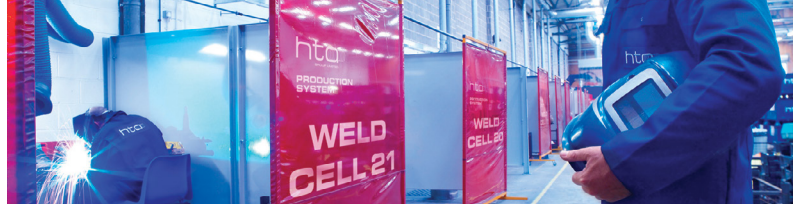
CM2 Pyramid Rolls (CNC Rolling)	Sheet Metalwork
3m Rolling	Rumblers
Hagerpress Fastener Insertion Machines	Vaqua Blasting
Belt Polishers	Finishing
Guillotines	Conventional Machining

WELDING & FABRICATION

CODED WELDING

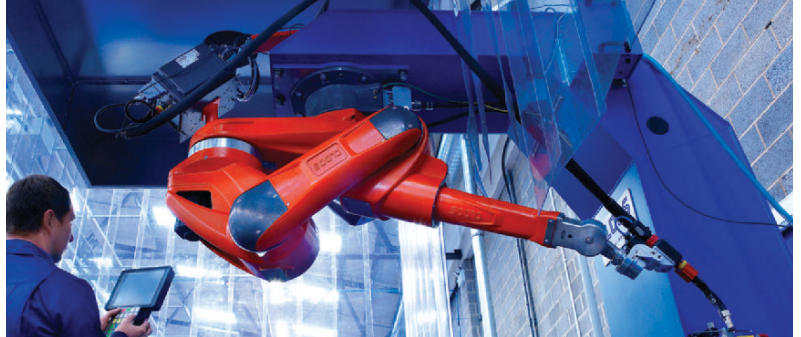
We have over 150 skilled welders within the Group.

> TIG > MIG > Sub Arc



ROBOTIC MIG & TIG WELDING

Qty	Machine
1	Large Format Gantry Robot Welding Cell (structures up to 8m long)
1	Automated Hull / Turret Welding System (6 axis robotic arm with 90 degree down weld)
10	Robotic MIG & TIG welding cells



CNC MACHINING

CNC MILL/TURN

Qty	Machine	Diameter	Length
1	Mazak Integrex 300Y CNC Mill Turn Centre	350mm	900mm
1	Mazak Integrex 200 IVS	250mm	700mm



CNC MILLING (UP TO 11.5M LENGTH)

Qty	Machine	X	Y	Z
1	Correa Axia floor-type Milling Machine	11500mm	1500mm	2500mm +450mm
1	Correa Axia floor-type Milling Machine	10000mm	1500mm	2000mm +450mm
1	Asquith Butler Power Centre 500	8000mm	1500mm	2000mm
1	Hartford PRO3150 Blockbuster M/C Centre	3060mm	1560mm	780mm
1	Hartford Sword SW216 Dual Column M/C Centre	2100mm	1600mm	780mm (1070mm)
1	Hartford Super HCMC2082 Vertical M/C Centre	2060mm	820mm	660mm
1	MTE BF-3200 Universal Milling Machine	3000mm	1250mm	1500mm
1	CME Model FCM3000 CNC Bed Milling Machine	3000mm	1200mm	2000mm
1	CME Model FS2 CNC Bed Milling Machine	2000mm	1200mm	1500mm
1	Awea VP12 CNC Gantry Machining Centre	2000mm	1200mm	760mm
1	Mazak FJV 35/60 II	2240mm	880mm	650mm
1	HAAS VF-9/40	2134mm	1016mm	762mm
1	HAAS VF-6/40SS	1526mm	813mm	762mm
1	Mazak VT C 20 CNC Machining Centre	1660mm	510mm	640mm
1	HAAS VF-4SS	1270mm	508mm	635mm
2	HAAS VF-4	1270mm	508mm	635mm
3	Hartford Pro 1000 Heavy Duty	1000mm	600mm	630mm
1	Mazak HCN 5000 - Twin Pallet 500mm x 500mm	700mm	700mm	700mm
1	HAAS VF1	508mm	406mm	508mm



CNC TURNING (UP TO 3845MM LENGTH, 950MM DIAMETER)

Qty	Machine	Diameter	Length	Bar Feed	Driven Tools
1	Hankook Fanuc CNC Lathe	950mm	3845mm		
1	Mazak 350MY CNC Lathe	480mm	1583mm	85mm	12
1	Mazak Quickturn Smart 300M CNC Lathe	420mm	1250mm		12
1	Mazak 200MS (sub-spindle) CNC Lathe	380mm	750mm	65mm	12
1	Doosan 280M CNC Lathe	280mm	658mm	76mm	12
1	Mazak QT 15N CNC Lathe	150mm	250mm	50.8mm	
1	Mazak Nexus 100 CNC Lathe	160mm	252mm	50.8mm	YES
1	Mazak QT 200 MSY CNC Lathe	380mm	575mm	63.5mm	YES
1	Mazak SQT 15M CNC Lathe	300mm	500mm	50.8mm	YES
1	Mazak QT 20H-P CNC Lathe	440mm	429mm		
1	Mazak QT30 CNC Lathe	300mm	1000mm		
1	SQT15M CNC Lathe	300mm	500mm		



SLIDING HEAD TURNING

Qty	Machine	Dia	Bar Feed
3	Citizen Miyano ABX64 SYY42 Sliding Head Lathe	64mm	3m
1	Citizen M32 7 axis sliding head lathe	32mm	3m
1	Citizen L32 VIII Sliding Head Lathe	32mm	3m

CMM QUALITY INSPECTION

DEA Global Advantage CNC CMM
(up to 1200 x 2200 x 1000mm)

3 x Faro Inspection Arms

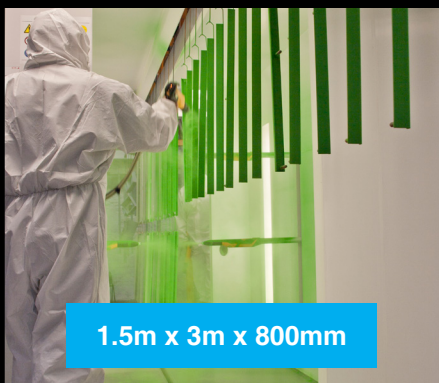
Faro PowerGage

Etalon CMM

Micro Hite CMM

FINISHING

POWDER COATING



1.5m x 3m x 800mm

Boasting two automatic reciprocators and a four stage in-line pre-treatment plant and a 90% powder recovery system, we can powder coat components up to 1.5m high, 3m long and 800mm wide at our Darwen and Coventry facilities.

WET PAINTING



20m x 6m x 5m

Our wet painting booths based in Rotherham, Darwen and Sherburn-In-Elmet work in-line with our shot blasting facilities, meaning energy costs and lead times are reduced.

SHOT BLASTING & SHOT PEENING



15m x 6m x 4m

Our state-of-the-art air blast room facilities are ideal for large scale components as we have the capability to blast material up to 15m long, 6m wide and 4m high.