



# MANUFACTURING FACILITIES

Tinsley Bridge occupies a six hectare (14 acre site) and 26,000m<sup>2</sup> manufacturing facilities with undercover and segregated storage.

## MACHINING CENTRE

CNC & CNC Vertical 3 Axis machines include:

MACHINE DESCRIPTION INCLUDING MAKE & MODEL	SPEED (RPM)	DIMENSIONS CAPACITY	WEIGHT CAPACITY	CRANEAGE CAPACITY
Hwacheonz Hi-Tech 450 ALYSMC Mill Turn CNC	3500	Chuck 250mm, 700mm swing over bed, 550mm swing over saddle	1 tonnes	5 tonnes
Puma 2000MS CNC Lathe with MV65 automatic bar feed				
2 x Hartford Tornado HCMC 13	6000	Bed 1450mm x 800mm	1.6 tonnes	5 tonnes
2 x SW-BA40 Vertical CNC	5000	3800mm x 630mm	2 tonnes	5 tonnes
Kia KV 90L	4500	3000mm x 900mm	3 tonnes	5 tonnes
Dah Lih MCV 1450 vertical CNC machining centre	4500	1600mm x 880mm	2 tonnes	5 tonnes
Dah Lih MCV 1450 vertical CNC machining centre	4500	1600mm x 880mm	2 tonnes	5 tonnes
Dah Li 1250	4500	1400mm x 820mm	1.5 tonnes	5 tonnes
Haas VF4 4 axis	8100	1270mm x 500mm	1588kg	5 tonnes
Haas VF2 4 axis	12000	760mm x 400mm	1300kg	5 tonnes
Haas VF1 4 axis	7500	500mm x 400mm	1300kg	5 tonnes

Precision Grinders include (up to 5.4m length capacity, Slideway grinding accuracies to 0.005mm):

- GOCKEL GRINDER X 2
- REFORM GRINDER X 3
- LUMSDEN GRINDER X 1
- SNOW GRINDER X 5
- G-GRINDER X 1

## MILLING – ELGA MILL & BUTLER PLANER

Multiple milling & turning machine tools  
10 tonnes installed crane capacity (5 x overhead cranes)

## FABRICATION & WELDING, HOT & COLD FORMING, BENDING, FORGING, HEAT TREATMENT

Welding capability includes qualified MIG, TIG & MMA welders approved to welding quality standard BS EN ISO 3834 part 2 (comprehensive quality requirements), and BS EN ISO 1090 part 2 execution classes 1-4 (CE marking). Execution class 4 includes both ferritic and stainless steel and is the highest qualification standard possible.

- FULLY EQUIPPED 10,000M<sup>2</sup> FABRICATION WORKSHOPS
- 13.5M CEILING HEIGHT
- 5000M<sup>2</sup> STAINLESS STEEL SEGREGATION AVAILABLE
- 5M X 6M DOOR ACCESS
- 30 TONNE INSTALLED CRANE CAPACITY (7.5M LIFT, 10 X OVERHEAD CRANES)
- 4M CNC PRESS BRAKE
- 3M PRESS BRAKES X 2 (300T)
- ASSEMBLY, COMMISSIONING & TESTING
- WORKING AT HEIGHT ACCREDITATION
- MOBILE ACCESS PLATFORMS TO 25M HEIGHT X 4
- ON-SITE FABRICATION, INSTALLATION AND COMMISSIONING
- FABRICATION BAYS X 12 – THIS CAN BE INCREASED AS REQUIRED.
- MMA TYPE MACHINES X 6 AND TIG HAND WELDING MACHINES X 5
- MIG MACHINES WITH PULSE CAPABILITIES X 15
- FORGING CELLS X 4 (1000T & 250T FRICTION SCREW PRESS & OFMA INDUCTION UPSETTER)
- BEND & HEAT TREATMENT CELLS X 2 (6500T/YEAR CAPACITY)
- HEAT TREATMENT CELLS X 3 (6 FURNACES UP TO 7M LENGTH CAPABILITY)
- ROBOTIC TUBE BEND AND HEAT TREATMENT CELL
- SHOT PEEN CELLS X 2
- BUSHING CELLS X 4
- CLEAN ROOM 75M<sup>2</sup>
- AUTO SAW (60° MITRE ANGLE RANGE, CAPACITY 450MM HIGH X 250MM WIDE)
- GUILLOTINES (UP TO 3M WIDTH, 12.5MM PLATE)
- STRAIGHTENING
- ROLLING (UP TO 2.5M WIDE X 6MM PLATE & 1.5M WIDE X 12.5MM PLATE)
- PUNCHING (UP TO 25MM PLATE, Ø30MM HOLES)
- ELECTRONIC, HYDRAULIC & PNEUMATIC INTEGRATED CONTROL SYSTEMS

## BATCH FURNACES

Continuous run furnaces also available.

Furnace		Purpose	Height	Width	Length
Temperer	"NLR"	Tempering / Stress relieving	500mm	1700mm	5500mm
Small Temperer	"Small temperer"	Tempering	700mm	940mm	2400mm
Small Hardening Furnace	"Manchester"	Hardening	380mm	650mm	1400mm
Hardening Furnace	"Titanic"	Hardening	400mm	900mm	7000mm
Hardening Furnace	"Betsy"	Hardening	900mm	400mm	4800mm
Temperer	"Line1 Temperer"	Tempering	930mm	430mm	5500mm

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