



Manufacturing Capabilities

CNC Lathes

Mazak Integrex 50Y

4 Axis Lathe with milling capacity X,Y,Z, and C axis. Capacity 2M bed, with programmable steady and tailstock chucking up to 580mm. Robot loaded system up to 100kg max. Unattended capacities.

Mazak Integrex 400

5 Axis Lathe with milling capacity X,Y,Z,C and T axis. Capacity 1M bed with programmable steady and tailstock chucking up to 280MM. Robot loaded system up to 100kg max. Unattended capacities.

Okuma LB25 CNC High Speed Chucking lathe with OSP 5020L controller
Capacity: 420mm swing x 1000mm between centres

Okuma LCS-15 high Speed Lathe with OSP 700L controller, 4000mm hydraulic bar feed, and no Tail Sock
Capacity: 270 swing x 280 long

Okuma LH35-N Lathe with OSP 5020L-G and OSP 7000L-G Controllers
Capacity: 610mm swing x 3000mm between centres

Okuma Soarer L300E-M with OSP-P20L-R Controller
Capacity =300mm swing x 1060mm between centers
12 tool turret with milling attachments 3800 max rpm

CNC Milling Machines and Machining Centres

Okuma MC600 Horizontal Machining Centre

Capacity: x = 1000mm, y + 800mm, z = 750mm. B-axis rotary axis resolution: 0.0001°. Pallet 630mm square
10-pallet carousel (fully unattended machining capacity)

Okuma MA600 Horizontal Machining Centre

Capacity: x = 1000mm, y + 850mm, z = 970mm. B-axis rotary axis resolution: 0.001°. Pallet 630mm square
AGV LOADED pallet system (fully unattended machining capacity)

Mazak VTC-20B Fixed Bed Vertical Machining Centre

Capacity: x = 1200mm, y = 510mm, z = 510mm

Wire Cutting

Wire Cut 5-Axis EDM Unit

Working range: width 520mm x length 370mm x height 280mm

Milling Machines

Horizontal and Turret Mills to 1800mm x 400mm table x 500mm height

Quantum Turret Mill FM-5V

Table Travel 920mm x 380mm, Max Permissible Load on Table 420 KG

Cincinnati Dial Type Mill 315-15VT

Table Travel 2200mm x 900mm

Cincinnati Universal Mill No. 30

Table Travel 1700mm x 700mm

Gear Cutting and Grinding Equipment

Hofler Gear Grinder

Capacity: 1500mm diameter
600mm grinding stroke
Up to 18 Module (depending on tooth data)
6000kg maximum table load
± 45° angle capable
full inspection capability

Lorenz hobbing machine

Capacity: 1500mm diameter x 700mm travel

Staehely hobbing machine

Capacity: 130mm diameter x 400mm travel, 950mm maximum overall length

Churchill hobbing machine

Capacity: 400mm diameter x 200mm travel

Pfauter hobbing machine

Capacity: 400mm diameter x 340mm travel;

Barber Coleman hobbing machine

Capacity: 130mm diameter x 350mm travel

Lorenz shaper

Capacity: 900mm diameter int/ext x 180mm stroke

Fellows shaper machine

Capacity: 400mm diameter int/ext x 150mm stroke;

Slotter

Capacity: 305mm. Stroke. Table diameter 600mm

Klingelnberg Lead and Involute inspection machine

Capacity: Maximum gear diameter 600mm x 240mm length to maximum of 1500kg

Capacity between centers diameter 300mm x 550mm length

Wormwheel checker

Capacity: 800mm diameter

Klingelnberg Hob Sharpening Machine

Niles Gear Grinder

Capacity: 300mm PCD maximum x 160 stroke
between centres 400mm

Cross Tooth Rounder

Capacity: 400mm diameter x 350 high

Matrix Thread Grinder

Capacity: 260mm diameter x 1100mm (grinding range 600mm)

Pfauter Thread Mill

Capacity: 260mm diameter x 1100mm (cutting length 600mm)



Grinders

Okuma Gi-20N Multi-Purpose Internal CNC Grinder with OSP 5020G controller and Double Quill
Capacity: Bore Dia: 5mm – 200mm x 200 long

Multi grinders with the following capacities:

Internal: 450mm diameter x 400mm stroke
External: 400mm diameter x 2000mm long
Centreless: to 150mm diameter
Surface: to 3000mm x 1500mm

SHIGIYA - GN30B

CNC Cylindrical Grinding Machine, with Fancu Series 21i-T Controller.

Self probing for finish sizing and machine calibration allowing for unattended production runs.

Capacity Between Centres; 200 mm diameter x 1600mm long.

Fully Automated Fancu Robot loading System up to 125 Kg

Lumsden Slide-way Grinding Machine with twin wheel head and 3000mm x 1000mm table

Excel No 3 Horizontal Surface Grinder

600 x 220mm Magnetic Chuck 12" Diameter Wheel

Manual Turning

5 Centre lathes up to 800mm swing x 3000mm between centres

Vertical Borers

Berthiez 54" Vertical Borer

Capacity: 1570mm diameter

Webster & Bennett

Capacity: 1 Metre Chuck

Horizontal Borers

SMTCL TPX 6113 - 2000mm x 2000mm table, Max Permissible Load on Table 10000 KG

Richards- Table Travel 2000mm x 1200mm,

Richards PRT - 900mm x 900mm table

Capacity: 2400mm diameter

Richards No. 2 Horizontal Borer

Heat Treatment Equipment

GE Induction Hardener (Vertical Axis), with 3.8kHz (150kW) and 10kHz (100W) generators

Capacities:

To 250mm diameter x 890 long

Horizontal to 250mm diameter x 3000mm long

Vertical axis to 1660mm diameter x 150mm high

Induction Hardener 370 kHz for gear teeth to 6 MOD (4DP) x 660mm diameter

4 off QHT FH69M Computer Controlled and Automated Fluidised Bed Furnaces

Process: Gas Carburising, Neutral Hardening

Capacity: 520mm diameter x 900mm deep

Foundry

Ferrous and Non-Ferrous

Furnace capacity: Ferrous 250kg, Non Ferrous 180kg

GE Centrifugal (spin) casting machine

Chrome Plating

Hard Chrome plating facility with 3000A transformer

Capacity: up to 1200mm length

Toolroom Equipment

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Capacity: 1422 x 1000mm; Positional accuracy (X&Y): 2.5μ

Makino Tool and Cutter Grinder

Churchill Grinder: 300mm diameter and 1000mm between centres; internal/external with digital readout

3-Axis vertical/horizontal milling centre with digital readout to 5μ

Wasino Optic Profile Grinder with x25 and x50 optical magnification

Pratt and Whitney 6" tool room slotter

Holbrook relieving lathe

Inspection, Metallurgical and Testing Equipment

Gear Inspection Equipment

Klingelnberg Lead & Involute tester

Capacity: 600mm diameter x 240 mm length; 1500kg maximum load
between centres diameter 300mm x 550mm length

Parkson Worm and Wheel Centre Distance Tester

MAAG Base Pitch Measuring Instrument - up to 30 module

Faro Arm – Portable CMM

NDT and Metallurgical Test Equipment

Krautkramer USL32 Ultrasonic Flaw Detector, with angle and straight probes

2 Magnetic Particle Inspection systems (Wet Fluorescent technique)

Leco M400G micro-hardness

Sinowon IMS-300 Inverted Metallurgical Microscope with DCMC510 digital camera mount

2 Vickers Hardness testers

Rockwell Superficial Hardness tester

Rockwell "C" Hardness tester

Zeiss Surface Texture test

2 Equotip Portable Hardness testers

Portable Vickers Hardness tester

Leco VP-160 Polisher/Grinder

Mettler H3 Balance

Miscellaneous Equipment

Karl Klink Internal Spline Broach (Auto-cycle)

Fanuc Robocut α 1C

3 Radial Drills

37kw Hydraulic Press (200 tonne, 4 column with horizontal press vice)

Keyway Broach

Pedestal Drills

25mm Drill Capacity – 2 off

Bandsaw

12" Diameter Cutting Capacity

Associated Equipment

Linishers, Off Hand and Tool Grinders

