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MANUFACTURING CAPABILITIES

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BRISBANE FACILITY MACHINING CAPABILITIES INCLUDE:

Machining Centre Table 2200 x 1300

- Okuma MCM20 5 Axis, Double Column, twin pallet (1.3m X 2.2m) 69 station ATC.

Mazak Vertical Milling machine centre - 510c

- With live 4th Axis
- 1050mm travel in "X"
- 510mm travel in "Y"
- 600mm under milling spindle
- 30 pre-set tools
- Calibrated measuring probe
- 1200kg

CNC Lathes

- Doosan S670L, 670mm swing, 1800mm between centres.
- Daewoo Puma 12C, 490mm swing, 600mm between centres
- Doosan Puma 700, 870mm swing, 12 station tooling turret, 1800mm between centres

Mazak Intergrex e 410H

- 5 axis milling & turning machine
- Swing 600mm in chuck
- Swing 240mm through travelling steady
- 3000mm travel
- 1 Tonne capacity
- 120 pre-tool sets
- Calibrated measuring probe

CNC Borers

- OM-TDC-20N turning centre, 2.0m dia. table, 2.6m swing x 1.8m high, live tooling. 15000kg
- Union horizontal Borer, 2750 x 2200 x 2000 high travel, CNC drilling 2000 x 1800 table, 8000kg

Borers

- Webster & Bennet vertical borer, 1.8m table - Digital readout.
- Webster & Bennet vertical borer, 1.5m table – Digital readout

- TOS Horizontal borer, 1.6m x 1.1m table, 1.2m table Centre Lathes (6 off)
- 6 off, 1250mm swing x 5000mm (max. capacity).

Milling Machines (2 off)

- Comprehensive range of vertical, horizontal & universal machines

Drilling

- Radial drilling capacity 50mm

Large Swift Lathe

- 1100mm Swing; 9m bed; 10ton capacity

Shan Shing Medium Lathe

- Swing 550mm over saddle, has 3m travel

Shan Shing Small Lathes x 2

- Swing 300mm over saddle, has 2m travel

Mazak Quick Turn 350 ii MY

- Live Tooling
- Swing 400mm in chuck
- 1500mm travel in "X"
- 70mm travel in "Y"
- Ferranti CMM 1100 x 1900 table

BRISBANE FACILITY MECHANICAL FITTING CAPABILITIES INCLUDE:

Valve Bay - Full refurbishment Testing and Certification of PSV.

- 2Tonne Hoisting Capability.
- Kemet 20 Lapping Machine.
- Kemet Optical Measuring Machine for Flatness.
- Pressure Testing Equipment.
- Hydrostatic Testing from 0-15,000 kPa.
- Nitrogen Testing from 0-25,000 KPa.
- Associated tooling required for Valve refurbishment.



BRISBANE FACILITY

Mechanical Fitting capabilities Continued:

- 2 carriage 10Tonne Overhead Gantry Crane.
- Single carriage 10Tonne Overhead Gantry Crane.
- 2 x 200Tonne Horizontal Press.
- 150Tonne Vertical Press.
- Enerpac Pullers and Hydraulic Cylinders up to 150Tonne capacity
- 2 x SKF Induction Heaters
- Torque Multipliers
- Cabinet Sand Blaster.
- Maintained & Filtered, Eco Friendly Wash Bay.
- 2 x Heated Pressure Cleaners.
- Opti-Line Laser Pulley Alignment.
- Site Truck

GLADSTONE FACILITY

MACHINING CAPABILITIES INCLUDES:

Borers

- Webster And Bennett Large Vertical Borer – Chuck dia. 2700mm.
- Kearns Richard Large Horizontal Borer – Cross travel 1600mm, Long travel 1200mm ; Vertical – 1500mm, Table – 1200mm X 1200mm.
- Defum Large Horizontal Borer - Cross Travel – 2000mm ; Long Travel – 2000mm; Table – 1400mm 1600mm.
- Webster and Bennett Small Vertical Borer - Chuck dia. 900mm.
- Small Horizontal Borer

Centre Lathes

- Ryasan Centre Lathe - 800mm swing; 3 mtr bed.
- Zc 530 Centre Lathe - 500mm swing; 3 mtr bed.
- Macson Centre Lathe - 600mm swing; 3.5 mtr bed.
- Tarnow Centre Lathe - 600mm swing; 2 mtr bed

Fabrication

- Lincoln Power Wave S500 550 amp 5th Generation Pulse Welding Machines
- Lincoln SST (Surface Tension Transfer) Modules for pipe welding
- Castolin Eutectic GAP 3002 AC/DC Plasma Welder (PTAW)
- 1200 amp Submerged Arc (SAW)

- Multiple Manipulating Tables up to 5 tonne, 2m Diameter swing
- Bug-O Oscillating Track Welding System
- Kemppi 350amp AC/DC water cooled Tig Machines

Miscellaneous

- Elliot Milling M/C.
- Large Radial Drill.
- 150 Tonne Horizontal Press.
- 60 Tonne Vertical Press.
- 10 and 16 Tonne Overhead Crane. * Ravenberg Slotter.

Testing Equipment

- Hydro Test Machine 0 – 15000 Kpa.
- 2 off Pump Test Benches for Vibration Analysis.
- Balancing Machine.
- Pressurised Clean Room – 12.5 mtrs x 6.5 mtrs.
- Vibration – Data Collection and Analysis software

CNC MACHINES

Titan SC 40/50 4HY – CNC Vertical Turret Lathe Double Column

- 3 Tool post with live tooling and milling function
- Chuck Diameter – 4000mm
- Max. swing diameter – 5000mm
- Height – 3000mm
- Maximum Workpiece weight – 50000 kg.

HNK HB 130CX – CNC Horizontal Boring and Milling Machine

- 4th axis rotary table – 1600mm X 1600mm
- Length – 4000mm
- Height – 2300mm
- Depth – 1300mm
- W Axis – 700mm
- Rotary table load – 10000 kg.
- Side table load – 15000 kg.

Mazak VTC 200C – Vertical Machining Centre

- 4th axis rotary chuck – 420mm diameter max.
- Table length – 1950mm
- Height – 500mm
- Width – 510mm
- Table load – 1000 kg.

Alpha Harrison – 2 Axis CNC Lathe

- Bed length – 3000mm
- Max swing diameter – 550mm
- Swing over saddle – 370mm

Puma – 2 Axis CNC Lathe (Turret type 10 tools)

- Bed length – 1200mm
- Max swing diameter – 550mm



VERTICAL BORERS

Webster And Bennett - Large Vertical Borer

- Chuck Diameter – 2750mm
- Max. swing diameter – 3100mm
- Height – 1980mm
- Maximum Workpiece weight – 25000 kg.

Shibaura TB14 - Medium Vertical Borer

- Chuck Diameter – 1200mm
- Max. swing diameter – 1400mm
- Height – 1100mm

Webster And Bennett - Small Vertical Borer

- Chuck Diameter – 900mm
- Max. swing diameter – 1100mm
- Height – 900mm

HORIZONTAL BORERS

Kearns Richard SF125

- Table size – 1200mm X 1200mm

Dabrowska

- Table size – 1400mm X 1400mm

Richards

- Table size – 1070mm X 1070mm

Tos

- Table size – 1120mm X 900mm

CENTRE LATHES

Shenyang

- Bed length – 8000mm
- Max swing diameter – 1200mm
- Swing over saddle – 880mm

Shenyang CW6280C

- Bed length – 3000mm
- Max swing diameter – 820mm
- Swing over saddle – 350mm

Shenyang CW61125B

- Bed length – 3000mm
- Max swing diameter – 500mm
- Swing over saddle – 480mm

ZC530

- Bed length – 3000mm
- Max swing diameter – 560mm
- Swing over saddle – 330mm

ASSEMBLY & TESTING EQUIPMENT

- Hydrostatic Testing from 0-15,000 kPa.
- 2 off Pump Test Benches for Vibration Analysis.
- Pressurised Clean Room – 12.5 mtrs x 6.5 mtrs.
(Includes 5 tonne bridge crane overhead)

WELDING & FABRICATION

- 15x Lincoln Powerwave (5th gen) 500 amp, with water coolers.
- 5x GTAW, 300-400 amp water-cooled
- 1x GTAW 400 amp hot wire (TIP TIG)
- 2x PTAW – Plasma welding system – Overlay/cladding and autogenous key hole joining.

MANIPULATION

- 7x 5t positioners
- 4x 1-2t positioners
- 1x 20t turn table
- 1x 10t turn table
- Column and boom (2x2.5m), integrated with positioner (1.2t).
- Fully programable
- Drive rollers up to 5t
- Various mechanised oscillating systems

MISCELLANEOUS

- Cougar NC Milling M/C.
- Large Radial Drill.
- Surface Grinder.
- 150 Tonne Horizontal Press.
- 60 Tonne Vertical Press.
- 10, 16 & 50 Tonne Overhead Crane.

MISCELLANEOUS

- Dye Penetrant
- Magnetic Particle
- Ultra Sonic thickness
- Eddy Current



BERG

MANUFACTURING CAPABILITIES



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