

QUALITY | PRECISION | SERVICE

Flexible Machining Centres

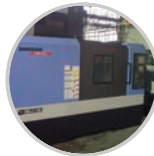


Mitsubishi M-H5B with 72 pallet Fastem linear rack system
5x Mitsubishi high speed horizontal machining centres are linked by a multi-level Fastems linear rack system, which holds 72 pallets. A centrally positioned stacker crane serves all 5 machines collecting and delivering pallets to and from any position on the three tier rack. A scheduling-type cell controller oversees all operating functions of the FMS. Continuous machining is aided by Tool breakage detection.



Mitsubishi M-H5B

A multiple pallet magazine supporting up to 8 pallets. Continuous machining is aided by tool breakage detection. Basic specifications:
Maximum work piece size - 800 mm x 760 mm
120 Tool ATC
500 mm x 500 mm work piece probing
Rapid traverse 40m/min
4 Axis



Doosan DNM 650 (x2)

A flexible machining centre with a full 4th axis. Basic specifications:
Axis: (x) 1270 mm x (y) 670 mm x (z) 650 mm
Maximum spindle speed: 12,000 RPM
BT 40 spindle
30 tool ATC



Mitsubishi M-H60E

A multi-pallet horizontal machining centre with seven pallets supporting up to seven separate fixtures. Offers true flexible machining 24/7. Basic specifications:
Max. machining envelope: 1000 mm x 800 mm x 800 mm
80 Tool ATC
Maximum spindle speed: 12000 RPM
Pallet change time: 20 seconds (chip to chip)



Fadal VMC 4020

A vertical machining centre with a 30 tool turret and Renishaw work probing. Basic specifications:
Table size: 1016 mm x 508 mm x 711 mm
Maximum spindle speed: 10,000 RPM
4 Axis



Tsugami FMS 5

A multi-pallet Flexible Machining Centre designed for high accuracy. Allows for continuous machining for two out of three shifts. Basic specifications:
Max. machining envelope: 500 mm x 500 mm x 500 mm
Supports 8 pallets
126 Tool ATC



Fadal VMC 3016

A vertical machining centre with a 30 tool turret and Renishaw work probing. Basic specifications:
Table size: 762 mm x 406 mm x 508 mm
Maximum spindle speed: 10,000 RPM
4 Axis



Tsugami FMS 3

A multi-pallet Flexible Machining Centre that is ideal for the company's smaller work. Includes all the features of the FMA5. Basic specifications:
Max. machining envelope: 300 mm x 300 mm x 250 mm
Supports 11 pallets
126 Tool ATC



Cincinnati Sabre 750

A vertical machining centre with a 27 tool turret. Basic specifications:
Working area: 760 mm x 510 mm
Maximum spindle speed: 10,000 RPM



Hitachi Seiki 500

An 11 pallet Flexible Machining Centre capable of running unmanned 24/7. Basic specifications:
Max. work piece size: 500 mm x 500 mm
120 Tool ATC
Rapid traverse 45m/min



Doosan HP 5100

A horizontal machining centre. Basic specifications:
Axis: (x) 850 mm x (y) 700 mm x (z) 750mm
Maximum spindle speed: 14,000 RPM
120 tool ATC
4 Axis (twin pallet changer)



FM 543135

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Machining Centres



Puma 700 LM (x2)

A large capacity, high productivity CNC turning centre. Basic specifications:
 Max. turning diameter: 900 mm
 Max. turning length: 3200 mm
 Spindle RPM: 1500
 Swing capacity: 1030 mm

Profile Machine



Flow Mach3B 1313b Water Jet Machine

This waterjet cutting machine is equipped with ultra pierce and full 3D dynamic contour control for increased performance and accuracy. Basic specifications:
 Max. machining envelope: 1300 mm x 1300 mm
 4000 bar cutting pressure will cut almost any material up to a thickness of 190mm to within +/- 0.05mm

Sheet Metal Equipment



Promecam Press Brake

50 tonne press brake. Basic specifications:
 Bed length: 2 metres



Edward Pearson Press Brake

50 tonne press brake. Basic specifications:
 Bed length: 3.1 metres



Haegar Insert Press

8 tonnes of ram force. Basic specifications:
 Throat depth: 24 inches



Promecam Press Brake

Basic specifications:
 2 metre up stroke

Sheet Metal Equipment



Strippit 100R

22 tonne punch press. Basic specifications:
 Working area: 1250 mm x 1000 mm
 Punch rate: 200
 Hits per minute: 400
 20 tool (2 with auto index)

Inspection Equipment



LK CMM G-90C

A vertical spindle with moving ceramic bridge CMM machine. The machine works on high efficiency air bearings and has a granite surface plate base with bonded straight edge. In common with the Merlin, this machine is automated but benefits from a larger working surface. Basic specifications:
 Working surface: 100 mm x 700 mm x 600 mm



Mitutoyo B241

CMM Co-ordinate measuring machine. Basic specifications:
 Working surface: 800 mm x 1500 mm
 Traverse: (x) 700 mm x (y) 1000mm x (z) 450 mm



CE Johansson Micro-Hite 3D CMM

Small co-ordinate measuring machine with PC-DMISTM software to automatically collect and analyse measurement data. Basic specifications:
 Work capacity: (x) 600 mm x (y) 750 mm x (z) 430 mm

Accreditations

AS9100 REV C, ISO 9001:2008, BS EN 9100:2009
 2008 'Best Machining' MWP Award Winner

- Precision Machining - Vertical & Horizontal
- Sheet Metal
- Large CNC Turning
- Waterjet Cutting
- Zinc Phosphating
- Wet Paint
- Screen Printing
- Alocrom & Irridite Plating
- Powder Coating
- Ultrasonic Cleaning
- MIG & TIG Welding
- Chemical Etching
- Bead Blasting
- Xylan Coating
- Deburr
- Vapour Blasting
- Assembly & Test

Materials

We machine, treat, fabricate and assemble a large variety of materials, including but no limited to: Aluminium, Steel, Stainless Steels, Titanium, Magnesium and Plastics

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