

QUALITY | PRECISION | SERVICE

Flexible Machining Centres



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



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)



Tsugami FMA 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

Machining Centres



Fadal VMC 6030

A vertical machining centre with a 30 tool turret and Renishaw work probing. Basic specifications:
Table size: 1524 mm x 762 mm x 762 mm
Maximum spindle speed: 10,000 RPM
4 Axis



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



Doosan DNM 750 (x2)

A flexible machining centre with a full 4th axis. Basic specifications:
Axis: (x) 1525 mm x (y) 762 mm x (z) 625 mm
Maximum spindle speed: 12,000 RPM
30 tool ATC



Mitsubishi FA30V EDM Wire Erosion Machine

This process is to NADCAP Aerospace standard. Basic specifications:
Stroke (X/Y/Z): 750 mm x 500 mm x 670 mm
Max. work piece: 1300 mm x 1000 mm x 670 mm
Max. work piece weight: 3000 kg

Turning Centres



Tsugami FMA 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



Puma 600

A large capacity, high productivity CNC turning centre with 12 position turret. Basic specifications:
Rapid traverse: 12/16m / min
Spindle bore: 152 mm
Swing capacity: 1030 mm
1650 mm Z Axis



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



Mori Seiki SL 603

Designed for accuracy, rigidity and speed, this machine features high speed feed on all axis. Basic specifications:
Max. turning diameter: 930 mm
Max. turning length: 2000 mm
Spindle RPM: 1500
Swing capacity: 1000 mm



Mori Seiki MT2500

State of the art turning/milling centre with 5 axis milling capability. Basic specifications:
Max. turning diameter: 550 mm
Max. turning length: 1528 mm
Swing capacity: 1000 mm
Supports 120 tools



FM 00389

Turning Centres



Hitachi Seiki HT30G

Horizontal lathe/turning machine. Basic specifications:
Max. turning diameter: 500 mm
Max. turning length: 600 mm
Swing capacity: 620 mm
Spindle speed: 20-2500 min-1
12 station turret head



Hitachi Seiki HT40G (x 2)

Horizontal lathe/turning machine. Basic specifications:
Max. turning diameter: 620 mm
Max. turning length: 1120 mm
Swing capacity: 1000 mm
Spindle speed: 20-2000 min-1
12 station turret head



Swedturn 20

High speed precision CNC lathe. Basic specifications:
Max. turning diameter: 700 mm
Max. turning length: 300 mm
Swing capacity: 1200 mm



Hitachi Seiki HC40 Hi-Cell

A combined CNC lathe and milling machine.
Basic specifications:
Max. turning diameter: 330 mm
Max. turning length: 1050 mm
24 station automatic tool change facility

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



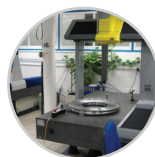
Ferranti Merlin 750

A 3-dimensional CMM co-ordinate measuring machine. Basic specifications:
Traverse: (x) 750 mm x (y) 750 mm x (z) 500 mm
Ferranti profile analysis software
SPC software



Etalon Derby 4.5.4

Used for fast dimensional measurement of components in the workshop. This intelligent measurement system automatically recognises geometric features, calculates dimensional data and shows the results geographically.



DEA Scirocco

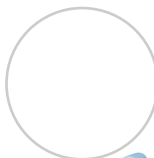
A 5 axis co-ordinate measuring machine. Basic specifications:
Stroke: (x) 1000 mm x (y) 1500 mm x (z) 800 mm

Miscellaneous Tools



Microbore EC011

The microset tool pre-setting unit serves as a measuring unit for the operation of drilling, milling and turning with their functional dimensions. The machine gives a readout with linear and rotary encoders. It can also send the data recorded through a post processor function to many of our machine tools.



CEMB Balancing Machine

Enables easy calibration and highly accurate measurements, which is achieved by inputting the geometrical dimensions.

Accreditations

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

Additional Capabilities

Precision machining - CNC turning
Universal & horizontal milling
Lathes & anilam digital read outs
Altendorf panel sizing saw
MIG, TIG & ARC welding
Vapour blasting