

Belmont

Precision Engineering Company Limited

Plant & Equipment 02/1/17

Operating from a Modern 6,600 sq ft factory, fully alarmed including 24 hour CCTV surveillance. Air conditioned offices and inspection facility operating under ISO 9001.



CNC Machining Centres



All the machines listed are DNC. Linked and programmed using One CNC XR6 expert full 3D system or "Visicam" CAM system.

Haas VF4 Super speed 1.5m travel Machining centre, full 4th Axis capability.

Doosan DNM 500 1m travel. Machining Centre X1020 Y514 Z775, refrigerated Spindle, 12000 rpm, pre select tool change, swarf conveyor, tool breakage detection / offset Renishaw spindle probing, rigid tapping. Fanuc High speed contouring (3D) and data server.

Doosan DNM 400 800mm. Machining Centre X800 Y450 Z510, refrigerated Spindle, 12000 rpm, pre select tool change, swarf conveyor, tool breakage detection / offset Renishaw spindle probing, rigid tapping.

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Doosan DNM 5700 Machining Centre X1050 Y570 Z510, refrigerated Spindle, 12000 rpm, pre select tool change, swarf conveyor, tool breakage detection / offset Renishaw spindle probing, rigid tapping. Fanuc High speed contouring (3D) and data server. Nikken 4th Axis unit.

Daewoo Mynx 500. 1m travel. Machining Centre X1020 Y514 Z775, refrigerated Spindle, 8000 rpm, 1.5 second pre select tool change, swarf conveyor, tool breakage detection/offset probing, rigid tapping.

Fadal VMC 3016. Full 4 axis machine, 10,000 rpm spindle, refrigerated spindle & ball screws, X760, Y407, Z508, high speed 3D machining facility, tool breakage detection/offset probing, rigid tapping Renishaw MP10 job contact probe for part location and inspection.

Fanuc Robodrill High Speed Machining Centre. 40m/min rapids, Tapping at 8000 rpm, X500mm, Y380mm, Z300mm, 0.5 second tool change 11000rpm spindle.

CNC Turning

Mori Seiki CL25 Turning centre. 25 Kilowatt main spindle drive motor, for machining difficult materials such as stainless steels up to 300mm diam. Fitted with Renishaw LT02 Job contact inspection probing and tool eye.

Hyundai HIT 15 (Bar fed). Siemens Hitrol control, 55mm spindle bore, 40m/min rapid, 0.5 second tool change, programmable tailstock, Max swing 360mm, Hydrofeed 3m magazine bar feed, automated tool offset measurement, parts catcher.

Daewoo Lynx turning centre. Fanuc control, chucking diam upto 200mm 2" / 50mm bar capacity. Hydrofeed 3m magazine bar feed, automated tool offset measurement, parts catcher. Nikken collet system.

Electronic Discharge Machining (EDM)

AGIE Agiecut Classic 2, 5 axis wire erosion machine with Agievision control. Travels X 300mm, Y 550mm, Z 250mm, U + V axis +/- 70mm, max taper cut 30° / 100 mm. Automatic wire threading.

Conventional Services

Bridgeport Turret & Jig Milling (with DRO).

Centre Lathe Turning to 15" swing.

Surface Grinding (Jones & Shipman 540).

Production Cylindrical Grinding (Jones & Shipman 1070, auto sizing).

Lapping up to 150mm diameter.

Range of Drilling & Specialist tapping facilities.

Die Polishing (Diprofil).

Horizontal Bandsaw, semi automatic cutting, with capacity upto 250mm .

Welding: Kemppi MiniarcMig – Aluminium / Stainless steels / Steel welding.

ThermalArc Thermal Arc Arcmaster 202 AC/DC Tig Welder

Surface Finishing Equipment

Vapormatt Vapormate 3: Wet blast cabinet (Glass Bead / Vapour blast part finishing cabinet) internal capacity 950mm x 700mm x 600mm.

Vapormatt Cougar: Robot / Manual operation, wet blast cabinet (Glass Bead / Vapour blast part finishing cabinet) internal capacity 1330 x 1500 x 1330. Automatic operation using ABB IRB2400 robot.

Surface finishing machine (straight grain), capacity 800 x 200mm.

CAM / Software

Pegasus Operations II (production and inventory control).

One CNC XR6 Full 3D mill and turn system.

Visi - Cam Mill / Turn 5 with surface modeling 3D interface.

N-See virtual CNC program verification with solid modeling software.

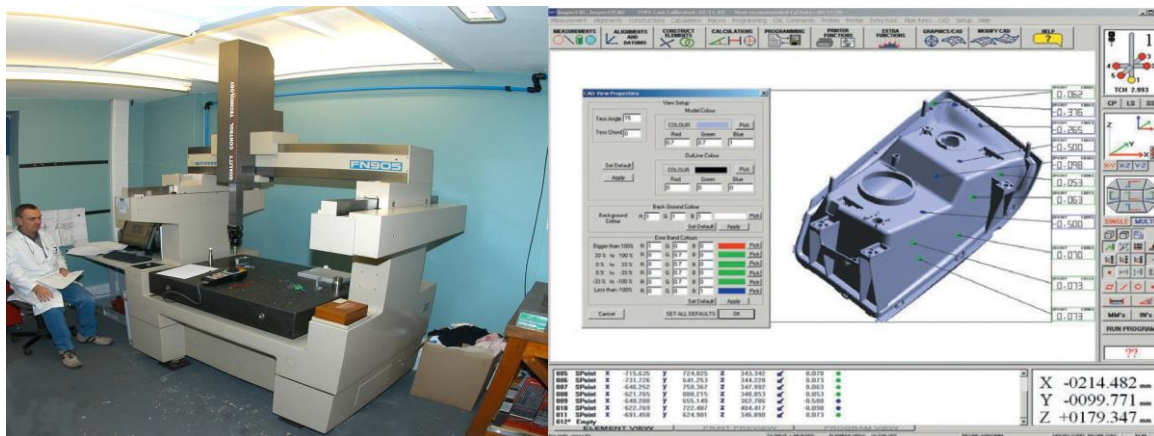
QCT Inspect 2 Cad Automatic CMM programming software.

BobCAM wire EDM programming software 5 AXIS.

DNC link to all CNC machines.

File transfer including IGES / DXF (2D or 3D) CATIA, Solidworks Etc.

Inspection



Mitutoyo Bridge type (extremely High accuracy) 3 axis Co-Ordinate measuring machine, FN905 with full CNC control and QCT Inspect 3D software.

Zeiss Universal Microscope measuring machine, measuring accuracy better than 0.00005mm. Rotary axis facility, enables measuring of large diameter screw cut items, helical milling etc.,

Verdict Trimos 500A Digital Height gauge (granite bed).

Talysurf Surface measuring equipment and small bore probing.

Full range of supporting equipment including plug gauges, screw plug gauges, Vernier calipers, micrometers etc.,

All gauging fully calibrated and traceable to NAMAS standards, operating under BS EN ISO 9001 approval.