

Plant & Equipment List 26/6/2024

Premises

Operating from modern 3.000 sq ft premises, with 24-hour CCTV surveillance. Air-conditioned offices and inspection facility under the BSI Quality Management System and ISO 9001:2015 approval.

CNC Machining Centres

All the machines listed are DNC linked and programmed using OneCNC XR9 Mill / Turn expert CAM software, full 3D machining capability.

Doosan DNM 400 Spindle power 18.5KW, 12,000 rpm spindle, 30 position tool carousel, travels 520 X 400 X 480mm, with rapid traverse rates of 48m/min on all axes, through tool coolant, Renishaw Tool breakage detection and tool Length probing.

Doosan DNM 500 Spindle power 18.5KW, 12,000 rpm spindle, 30 position tool carousel, travels 520 X 400 X 480mm, with rapid traverse rates of 48m/min on all axes, through tool coolant, Renishaw Tool breakage detection and tool Length probing, Renishaw OMP 60 Spindle probing system / Job contact probing.

Doosan DNM 5700 Simultaneous 4 axis machining centre, 12,000 rpm spindle speed, spindle motor power 18.5 KW with BT 40 Taper tools, spindle thermal error compensation function for stable cutting, travel (X) 1050 (Y) 570 (Z) 510mm. Renishaw OMP 60 Spindle probing system.

CNC Turning Equipment

Doosan Lynx 220LMSA Twin spindle driven tooling lathe with long bed, Hydrafeed MV65 magazine bar feed, Max Turning Dia 300mm x 510mm. Fanuc control with manual guide programming.

Doosan Lynx 220LSYC 5 axis twin spindle driven tooling lathe with Y and C axis machining, Hydrafeed MV65 magazine bar feed, Max Turning Dia 300mm x 510mm. Fanuc control with manual guide programming.

Wire Eroding

AGIE CLASSIC 2 5 axis CNC wire erosion machine. X 350mm, Y 250mm, Z 256mm, max taper 30 degrees. Max workpiece dimensions 750mmx550mmx250mm

Conventional Services

* **Bridgeport** Turret & Jig Milling (with DRO)

- * **Colchester** Centre Lathe Turning to 15" swing
- * **Jones & Shipman 540** Surface Grinding
- * Range of Drilling & Specialist tapping facilities
- * **Diprofil** Die Polishing
- * Horizontal Bandsaw, semi-automatic cutting, with capacity up to 250mm
- * **Welding: Kemppi Miniarc MIG + TIG** – Aluminium / Stainless steels / Steel welding

Surface Finishing

Vapormatt Lynx Vapour blast/ Abrasive blast finishing machine.

CAM / Production / Design software.

Pegasus Operations II production and inventory control with MRP.

OneCNC XR9 Full 3D system milling and turning up to 5 axes and twin spindle Y axis programming.

DNC link to all machining centres. File transfer including IGES / DXF (2D or 3D) CATIA, Solidworks, etc.

Full Solidworks License Design and drawing suite with lifetime software license and annual software updates.

Inspection Equipment

Fully air-conditioned, dedicated inspection department, all gauging is calibrated and traceable to NAMAS standards. Quality control systems operate under BSI Quality Management System ISO 9001:2015 approval.

DEA Global 2105 CNC Co-Ordinate measuring machine large capacity X700mm Y1000mm Z500mm, with full CNC control and QCT Inspect 3D PRO software, Renishaw motorized PH10 auto index probing system, with MCR20 6 station probe rack.

Zeiss Universal Microscope measuring machine, measuring accuracy better than 0.0005mm. Rotary axis facility, enables measuring of large diameter screw cut items, helical milling etc.,

Tesa-Hite Plus M Motorised digital height gauge 0-700mm complete with printing facility and inspection grade granite table.

Talysurf Surface measuring equipment.

Taylor Hobson S100 series Digital surface measuring equipment

Small Inspection equipment A full range of supporting equipment including plug gauges, screw plug gauges, Vernier calipers, micrometers etc.