



## PLANT & FACILITIES

### 5 Axis CNC Machining Centres

	<u>Quantity</u>	<u>Capacity (X – Y – Z, millimetres)</u>
Matsuura MX-330 PC10 - 10 pallet 5-Axis Machining Centre Matsuura G-Tech 31i control, 15000 rpm, 90 tools	1	435 x 465 x 560 Axis Range Ø330 x H300 Max. workpiece size Ø130 Capto C6 Pallet System
Yamazaki Mazak Variaxis i600 5-Axis Machining Centre Siemens 840Di Control 18000 rpm, 40 tools	1	760 x 845 x 610 Axis Range 600 x 500 Table Surface 510 x 910 x 510 Max Machining Envelope
Matsuura MAM72-63V – Twin Pallet 5-Axis Machining Centre Siemens G-Tech 840Di Control 20000 rpm, 120 tools	1	760 x 845 x 610 Axis Range 500 x 500 Pallet Surface 770 x 400 x 400 Max Machining Envelope (on pallet)
Matsuura MC-800 VG 11 5 Axis Machining Centre Yasnac J300 Control 60-12000 rpm 30 tools	1	800 x 500 x 400

### CNC Machining Centres

	<u>Quantity</u>	<u>Capacity (X – Y – Z, millimetres)</u>
Yamazaki Mazak VTC300 Vertical Travelling Column Machining Centre Mazatrol PC-Fusion 640M Control 40-12000 rpm Integrated 4 <sup>th</sup> Axis	1	1740 x 760 x 660
Yamazaki Mazak 530C 30 ATC Vertical Machining Centre Mazatrol Control, 60-12,000 rpm Integrated 4 <sup>th</sup> Axis	1	1060 x 610 x 610
Yamazaki Mazak 510C 32 ATC Vertical Machining Centre Mazatrol Control, 60-12,000 rpm Integrated 4 <sup>th</sup> Axis	1	1060 x 610 x 610
Matsuura MC600VF Machining Centre Yasnac Control 60-8000 rpm	1	600 x 410 x 470
Matsuura MC600VF Machining Centre Yasnac Control 60-15000 rpm	1	600 x 410 x 470
Dugard 1000XP 36 ATC Vertical Machining Centre Fanuc 0iMF Control 20-12,000 rpm Integrated 4 <sup>th</sup> Axis (1 off)	2	1050 x 540 x 560

<b><u>CNC Machining Centres (cont'd)</u></b>	<b><u>Quantity</u></b>	<b><u>Capacity (X – Y – Z, millimetres)</u></b>
Hurco BMC30 20 ATC Vertical Machining Centre Ultimax III Control 60-8000 rpm	1	762 x 457 x 610
Hurco VM10 20 ATC Vertical Machining Centre Winmax Control 10000 rpm	1	610 x 406 x 508
Hurco VM10i 20 ATC Vertical Machining Centre Winmax Control 10000 rpm	1	610 x 406 x 508
Hurco VM20 20 ATC Vertical Machining Centre Winmax Control 10000 rpm	1	1050 x 600 x 600
Hurco VM1 16 ATC Vertical Machining Centre Ultimax Control 10,000rpm	1	660 x 356 x 457
Hurco VM2 16 ATC Vertical Machining Centre Ultimax Control 10,000rpm	1	1016 x 457 x 457
Hurco VM3 20 ATC Vertical Machining Centre Ultimax Control 10.000rpm Integrated 4 <sup>th</sup> Axis	1	1270 x 457 x 457

### **Dust Extraction Facilities**

Purpose built extraction installation for machining Plastics, reinforced materials and composites.

<b><u>CNC Turning</u></b>	<b><u>Quantity</u></b>	<b><u>Capacity (Swing x Centres x Bar Capacity, mm)</u></b>
Yamazaki Mazak Integrex J200 Multi-Tasking M/C Mazatrol Smooth Control, 5000 rpm spindle, 8" chuck 36 tools (driven) 12000 rpm milling Spindle, tailstock	1	500 dia x 1000 x 65
Yamazaki Mazak Quick Turn Smart 300 Mazatrol Smart Control, 30-4000 rpm 10" chuck, 12 tools	1	420 dia x 1250 x 80
Yamazaki Mazak Quick Turn Primos 150 SG Mazatrol Smooth Control, 4000 RPM spindle 6" chuck, 8 tools	1	500 x 305 x 51
Hurco TM10 Turning Centre Winmax Control 10" chuck, 12 tools	1	450 dia x 695 x 76
Miyano BND – 51 SY Turn/Mill Centre Fanuc Series 18i – TB Control 50 – 5000 rpm Sub-Spindle, Driven Tooling 'C' & 'Y' Axis	1	175 dia x 435 x 50

<b><u>CNC Turning (cont'd)</u></b>	<b><u>Quantity</u></b>	<b><u>Capacity (Swing x Centres x Bar Cap, mm)</u></b>
Kia Turn 28L CNC Turning Centre Yasnac Control 30-3150 rpm	1	584 dia x 1041 x 63
Kia Turn SKT100 CNC Turning Centre Fanuc OiTC Control 50-6000 rpm	1	550 dia x 300 x 45
CMZ TL20 Turning Centre Fanuc Series 18i-T Control 50 – 4000 rpm Sub-Spindle, Driven Tooling, "C" Axis	1	680 dia x 730 x 67
Doosan S280 CNC Turning Centre FANUC OTC Control 40 – 4500 rpm	1	280 dia x 330 x 51

<b><u>Conventional Milling</u></b>	<b><u>Quantity</u></b>	<b><u>Capacity (X – Y – Z, millimetres)</u></b>
Bridgeport BR 2J Mill Digital read out	1	762 x 305 x 508

<b><u>Conventional Turning</u></b>	<b><u>Quantity</u></b>	<b><u>Capacity (Swing x Centres x Bar Cap)</u></b>
Harrison M400 Long Bed Lathe Digital Readout	1	15.75" dia x 50" x 2.5"
Hardinge HLV Precision Lathe	1	5.0" dia x 19.0" x 1.625"
Myford Super 7B Lathe	2	6" dia x 18" x 0.625"

<b><u>Grinding</u></b>	<b><u>Quantity</u></b>	<b><u>Capacity</u></b>
Jones & Shipman 540 Surface Grinder	1	X-18" x Y-6" x Z-9"

<b><u>Miscellaneous Plant</u></b>	<b><u>Quantity</u></b>	<b><u>Capacity</u></b>
Fly Press No.5	1	
Surface Plates	2	3.0' x 2.0'
Surface Plates	1	18" x 18"
Engraving Facilities	1	
High Speed Drill (Drill Service)	1	5/32 dia x 10,000 rpm
Bench Drills (Single Spindle)	4	½" dia to 5/8" dia
Quick Boy Tapping Machine	1	
Oldak Tapping Machine	1	
Band Saw	1	24" throat x 7" height
Super Brown Circular Saw	1	6" dia
Startrite Horizontal Band Saw	1	10" dia x 21" or 24" dia

<b><u>Measurement &amp; Calibration Equipment</u></b>	<b><u>Quantity</u></b>	<b><u>Capacity</u></b>
Temperature controlled Quality and Inspection Facility.		
Status G3 CNC CMM with PC-Dmis CMM Software	1	1500 x 1100 x 600
Global 575 CNC CMM with Renishaw PH20 head	1	500 x 500 x 500
Tesa Micro-Hite Gauge microprocessor Controlled	1	
Vision Swift Pro Cam optical measuring System	1	200 x 100
Surface Tables	2	
Mitytoyo Optical Projector PJ-250.	1	
Mercer Air Gauging Trimos Height Masters. Surftest surface testing equipment. Sigma Comparator.		

### **Mechanical Assembly Facility**

Mechanical Assembly – inserts, Bearings etc.  
Freezing of bushes, pins etc. - using liquid nitrogen  
Bonding  
Riveting  
Kitting  
Electrical Bond Testing  
Aerospace approved assembly facility

### **CAD / CAM Facilities**

Catia version 5 CAD System  
Hypermill – 5 Axis Milling & 3D Milling,  
Edgecam 11.75 – Turning & Milling  
Alphacam – Advanced 3D Milling  
DXF & IGES software translators

### **Production Control System**

Javelin 2018r2 ERP System

Comprising of the following modules:  
Estimating/Quotations  
Sales Orders  
Works Orders  
Shop Floor Data Collection  
Scheduling  
Job Costing  
Stock Control  
Purchasing