



## PLANT & FACILITIES

### 5 Axis CNC Machining Centres

\*\*NEW for 2008\*\*

	<u>Quantity</u>	<u>Capacity</u> (x – y – z, millimetres)
<b>Matsuura MAM72-63V – Twin Pallet 5-Axis Machining Centre Siemens G-Tech 840Di Control 20000 rpm</b>	<b>1</b>	<b>760 x 845 x 610</b> Axis Range <b>500 x 500</b> Pallet Surface <b>770 x 400 x 400</b> Max Machining Envelope (on pallet)

Matsuura MC-800 VG 11 5 Axis Machining Centre Yasnac J300 Control 60-12000 rpm	1	800 x 500 x 400
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### CNC Machining Centres

\*\*NEW for 2008\*\*

	<u>Quantity</u>	<u>Capacity</u> (x – y – z, millimetres)
<b>Yamazaki Mazak VTC300C2 Vertical Travelling Column Machining Centre Mazatrol PC-Fusion 640M Control 40-12000 rpm</b>	<b>1</b>	<b>1740 x 760 x 660</b>

Matsuura MC600VF Machining Centre Yasnac Control 60-8000 rpm	1	600 x 410 x 470
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Matsuura MC600VF Machining Centre Yasnac Control 60-15000 rpm	1	600 x 410 x 470
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Rambo RM1260 24 ATC Vertical Machining Centre Mitsubishi Control 60-10,000 rpm	1	1194 x 610 x 610
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Rambo RM1060 24 ATC Vertical Machining Centre Mitsubishi Control 60-10,000 rpm Integrated 4 <sup>th</sup> axis	1	990 x 610 x 610
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Hurco BMC30 20 ATC Vertical Machining Centre Utimax III Control 60-8000 rpm	1	762 x 457 x 610
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Hurco BMC25 20 ATC Vertical Machining Centre Ultimax 32 Control 60-6000 rpm	1	610 x 406 x 508
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**CNC Machining Centres (cont'd)**

	<b><u>Quantity</u></b>	<b><u>Capacity</u></b> (x – y – z, millimetres)
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
Leadwell MCV-OP 16 ATC Vertical Machining Centre Fanuc Om Control 40-6000 rpm	1	508 x 356 x 508
Leadwell VMC-40 20 ATC Vertical Machining Centre Mitsubishi Control 40-6000 rpm Integrated 4 <sup>th</sup> axis	1	1016 x 508 x 508

**CNC Milling Machines**

	<b><u>Quantity</u></b>	<b><u>Capacity</u></b> (x – y – z, millimetres)
Hurco Hawk SSM Vertical Mill Ultimax Max III Control 60-3500 rpm	1	787 x 356 x 533

**Dust Extraction Facilities**

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

**CNC Turning**

	<b><u>Quantity</u></b>	<b><u>Capacity</u></b> (Swing x Centres x Bar Cap, millimetres)
Miyano BND – 51 SY Turning Centre Fanuc Series 18i – TB Control 50 – 5000 rpm Sub-Spindle, Driven Tooling 'C' & 'Y' Axis	1	175 dia x 435 x 530
Kia Turn 28L CNC Turning Centre Yasnac Control 30-3150 rpm	1	584 dia x 1041 x 1651
CMK 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
Leadwell LTC10P CNC Turning Centre FANUC OTB Control 40-4500 rpm	1	203 dia x 508 x 38

<b><u>Conventional Milling</u></b>	<b><u>Quantity</u></b>	<b><u>Capacity</u></b> (x – y – z, millimetres)
Bridgeport BR 2J Mill Digital read out	2	762 x 305 x 508
<b><u>Conventional Turning</u></b>	<b><u>Quantity</u></b>	<b><u>Capacity</u></b> (Swing x Centres x Bar Cap)
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	
Bead Blasting Facility	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> (x – y – z, millimetres)
Temperature controlled Quality and Inspection Facility.		
Status G3 CNC CMM with Pc-Dmis CMM Software	1	1500 x 1100 x 600
Aberlink Maxim CNC CMM	1	500 x 600 x 400
Tesa Micro-Hite Gauge microprocessor Controlled	1	
Surface Tables	2	3' x 4' and 5' x 5'
Mitytoyo Optical Projector PJ-250.	1	
Mercer Air Gauging Trimos Height Masters. Surftest surface testing equipment. Sigma Comparator.		

## **Clean Assembly Facility**

Mechanical Assembly – inserts, Bearings etc.  
Freezing of bushes, pins etc. - using liquid nitrogen  
Bonding  
Riveting  
Soldering & Brazing  
Kitting  
ESD Protection  
Airbus approved assembly facility

## **Welding, Brazing & Soldering Facilities**

Purpose Built Area  
Oxy Acetylene Brazing Station & Fume Extraction  
Welding Plant Equipment (Arc)  
Pressure Testing Rig (water)  
Cleaning Tank  
Pickling Tank  
Beadblaster

## **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**

Jobshop 2008r1 ERP System

Comprising of the following modules:

Estimating/Quotations  
Sales Orders  
Works Orders  
Shop Floor Data Collection  
Scheduling  
Job Costing  
Stock Control  
Purchasing