

Holbro Engineering Ltd - Capacity List

We work as part of your team to genuinely understand your business, your production processes and component requirements, delivering the best service from concept to completion.

Our capabilities include:

- CNC Turning
- CNC Folding
- Centre Lathe Turning
- CNC Milling
- Vertical Milling
- Horizontal Milling
- Boring, Slotting & Drilling
- Grinding—Cylindrical/Surface
- Fitting—Sub Assembly work
- Laser Profiling/Cutting
- Fabrication
- Prototype Work
- CAD/CAM Workstations
- Inspection (CMM Inspection)
- Kitting of Components
- 3D Scanning
- 3D Printing
- Sub Assembling Kits and Components
- Repairs to Original OEM Specification
- Retrofit to Original OEM Specification
- Electric Bench Mounted Resistance Welding
- Spark Eroding
- Brazing
- Powder Coating
- Painting
- Zinc Plating
- Anodising
- Mouldings

CNC Turning

Machine	Max Dia (mm)	Max Length (mm)
Doosan Puma 280M	410	1030
Doosan Puma 400MB	550	2100
Colchester Tornado T8M	390	540

Centre Lathe Turning

Machine	Max Dia (mm)	Max Length (mm)
Colchester Mastiff	800	1400
Colchester Student	300	1000
Colchester Mastiff 1800	554	2000
Colchester Mascot 2000	460	1500

CNC Milling

Machine	X (mm)	Y (mm)	Z (mm)	No. of Axis
Doosan DNM 650	1270	670	625	4 & 5
Bridgeport VMC 800	800	510	450	3
Quaser MV 184	1000	500	700	4 & 1
Bridgeport VMC 560	540	410	480	3

Manual Milling

Machine	
Turret Mill Machines (x2)	complete with electrical readouts
Cincinnati Milacron Horizontal Miller	

Milling, Slotting and Drilling

Machine	Table
Bridgeport Turret Mill	48" x 9"
Chester Turret mill	54" x 10"

Spark Eroding

Machine
Charmilles Isopulse P25

Grinding - Cylindrical/Surface

Machine	Max Size (mm)
Jones & Shipman 1430 Surface Grinder	600 x 300

Laser Profiling/Cutting

Our new Laser Cutting office has the capability to cut a wide range of metals with a variety of thicknesses.

Machine	Working Range X x Y x Z (mm)	Power	Max. Axis (m/min)	Cutting Thickness
AMADA LCG-AJ Series	3070 x 1550 x 100	4000W	170	-
(AMADA LCG-AJ) Mild Steel	-	-	-	20mm
(AMADA LCG-AJ) Stainless Steel	-	-	-	18mm
(AMADA LCG-AJ) Aluminium	-	-	-	16mm
(AMADA LCG-AJ) Brass	-	-	-	10mm
(AMADA LCG-AJ) Copper	-	-	-	8mm
(AMADA LCG-AJ) Titanium	-	-	-	10mm

Inspection (CMM Inspection)

Our inspection department is run by experienced and qualified staff with the help of a CMM measuring machine linked to a database running state of the art software.

Machine	X (mm)	Y (mm)	Z (mm)	Resolution
Nikon Altera 8.7.6	813	710	610	0.05µm

Machine	Max. Capacity		
Micro Vertex 750-1000	1000mm	Air Pressure Base	Double Tool Setting Points

3D Scanning Equipment

Our maximum 3D Printing capabilities are 320mm x 130mm x 150mm. Software used is Autodesk Power Shape and Featurecam.

Machine	Measuring Range	Point Repeatability (mm)	Volumetric Accuracy (mm)	Laser Accuracy
Nikon LC60DX Laser Scanner	Unlimited	-	-	6µm
Nikon MCAx 7-Axis	2.5m	0.049	0.069	66µm

CAD/CAM Workstations

Installation of our Edge Cam Solid Cad Cam Production System and our new DNC link system brings the interface between the programming and machining together.

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