





# **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	KITTING OF COMPONENTS		
CNC FOLDING	3D SCANNING		
CENTRE LATHE TURNING	3D PRINTING		
CNC MILLING	SUB ASSEMBLING KITS AND COMPONENTS		
VERTICAL MILLING	REPAIRS TO ORIGINAL OEM SPECIFICATION		
HORIZONTAL MILLING	RETROFIT TO ORIGINAL OEM SPECIFICATION		
BORING, SLOTTING & DRILLING	ELECTRIC BENCH MOUNTED RESISTANCE		
	WELDING		
GRINDING – CYLINDRICAL/SURFACE	SPARK ERODING		
FITTING – SUB ASSEMBLY WORK	BRAZING		
LASER PROFILING/CUTTING	POWDER COATING		
FABRICATION	PAINTING		
PROTOTYPE WORK	ZINC PLATING		
CAD/CAM WORKSTATIONS	ANODISING		
INSPECTION (CMM INSPECTION)	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	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 MILACROM HORIZONTAL MILLER				

# MILLING, SLOTTING AND DRILLING

MACHINE	TABLE
BRIDGEPORT TURRET MILL	48" X 9"
CHESTER TURRET MILL	54" X 10"

#### **SPARK ERODING**

	MACHINE
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# **GRINDING - CYLINDRICAL/SURFACE**

MACHINE	MAX SIZE (MM)
JONES & SHIPMAN 1430 SURFACE GRINDER	600 X 300

# LASER PROFILING/CUTTING

Our laser cutting office has the capability to cut a wide range of metals with a variety of thickness.

MACHINE	WORKING RANGE XxYxZ (MM)	POWER	MAX AXIS (M/MIN)	CUTTING THICKNESS
AMADA LCG-AJ SERIES	3070 X 1550 X 100	4000 W	170	-
AMADA LCG-AJ MILD STEEL	-	-	-	20MM
AMADA LCG-AJ STAINLESS STEEL	-	-	-	18 MM
AMADA LCG-AJ ALUMINIUM	-	-	-	16 MM
AMADA LCG-AJ BRASS	-	-	-	10 MM
AMADA LCG-AJ COPPER	-	-	-	8 MM
AMADA LCG-AJ TITANIUM	-	-	-	10 MM







#### **INSPECTION (CMM INSEPCTION)**

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	0.05um

MACHINE	MAX CAPACITY		
MICRO VERTEX 750 – 1000	1000 MM	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 Feature Cam.

MACHINE	MEASURING RANGE	POINT REPEATABILITY (MM)	VOLUMETRIC ACCURACT (MM)	LASER ACCURACY
NIKON LC60DX LASER SCANNER	UNLIMITED	-	-	6um
NIKON MCAX 7-AXIS	2.5M	0.049	0.069	66um

#### **CAD/CAM WORKSTATIONS**

Installation of our edge cam solid cad cam production system and our DNC link system brings the interface between the programming and machining together.

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Copse Hill Works

**Kilbane Street** 

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