

## Plant List

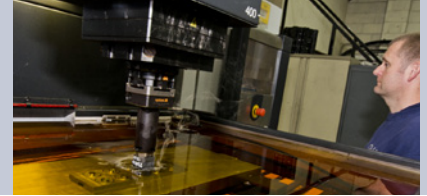
At C&M Mould Tools we constantly look at new technologies that can make us more competitive in today's toolmaking environment both in terms of cost and lead-time. Our plant list enables us to make first class mould tools, but also enables us to offer a sub-contract department that is second to none.



### SPARK EROSION

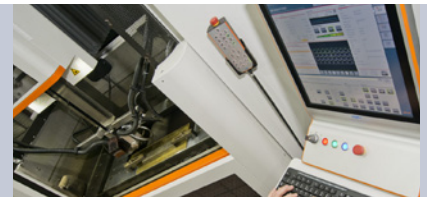
- ONA QX4 CNC 1070 x 770 x 450 tank capacity- full C axis & tool changer
- ONA QX4 CNC 1070 x 770 x 450 tank capacity- full C axis & tool changer
- ONA NX3 CNC 600 x 900 x 330 tank capacity - full C axis & tool changer

All equipped with the full range of System 3R Macro tooling



### WIRE EROSION

- CHARMILLES CUT P 550 440cc 1200 x 700 x 400 Complete with Renishaw probing & full Slug management
- CHARMILLES CUT 200 Sp 1000 x 550 x 220 Both fully submerged with automatic wire feed Equipped with full range of System 3R tooling
- CHARMILLES CNC D20 EDM Drill



### 5 AXIS CNC MILLING

- IBARMIA ZVH 58/L2200 EXTREME  
2200 x 1000 Heidenhain 530 control (12,000 rpm)

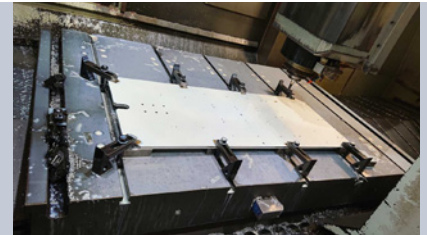
Complete with Renishaw probing



### 3 AXIS CNC MILLING

- DEPOJET 1612 High Speed CNC 1600 x 1200 Heidenhain 530 control (14,000 rpm)
- MAZAK VCN500C High Speed CNC 1050 x 530 Mazatrol SmoothG control with Renishaw probing
- MAZAK VTC20B CNC Machining Centre 1120 x 510 Mazatrol M32B control
- MICRON VCE High Speed CNC 860 x 560 Heidenhain 530 control
- DUGARD 850 CNC Machining Centre 850 x 520 Heidenhain 530 control

All CNC machines are fully networked and programmed via Delcam Powermill on the shop floor



### LASER WELDING

Large capacity laser welding machine is capable of repairing large or small moulds. Equipped with a rotating chuck to enable fast repairs to round objects. Images can be taken of before & after welding to document the repair. Large assortment of filler rods from 0.2mm to 1.2mm in a large range of materials.



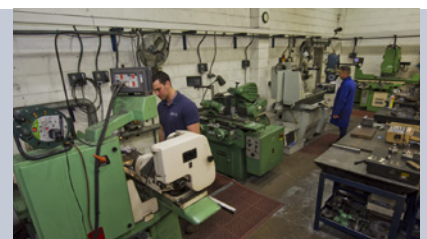
### MANUAL MILLING

- BRIDGEPORT Turret mill (3)
- KRV 3000 Turret mill



### GRINDING

- APS-818S Programmable surface grinder with Opti-dress
- Jones & Shipman 540 Surface grinder with Opti-dress (3)
- Jones & Shipman 1415 LAR Surface grinder
- Jones & Shipman 1400E Surface grinder
- Chevalier FSG 1020 Surface grinder
- Jones & Shipman 1311 Universal grinder
- Myford MG12 HM Cylindrical grinder



● Automotive ● Medical ● Household ● Building Products

**Plant List (continued)**

**JIG GRINDING**

- Moore No.3 jig grinder
- Moore No.3 CNC Jig grinder
- full range of Moore accessories



**CNC TURNING**

- XYZ Compact Turn 65

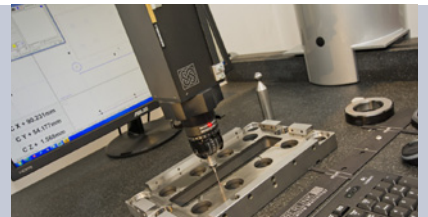


**MANUAL TURNING**

- Colchester Triumph 2000
- Harrison M300 long bed

**INSPECTION**

- Aberlink TOO 600 CNC Co-ordinate measuring machine
- Tesa Micro-hite
- Mitutoyo PJ302 Profile projector
- Full range of calibrated measuring equipment



**ELECTRODE MANUFACTURE**

- MAZAK FJV20 High Speed CNC Machining Centre
- 650 x 410 Mazatrol M32B control with Chameleon software
- Equipped with System 3R Pallets



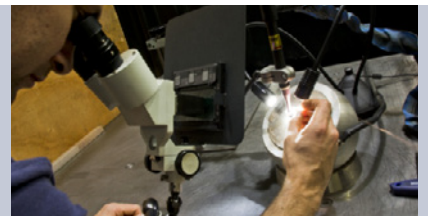
**LIFTING (Twin Crane Carriage Facility)**

- safely turn over large moulds
- 10 tonne capacity
- variable traverse speeds
- one person operation
- minimal load swing, internal software
- fully safety compliant
- increased reliability of operation



**SUNDRY**

- Forklifts up to 4 tonnes capacity
- Large capacity radial drilling
- National tool collection & delivery up to 20 tonnes
- In-house Micro welding in all materials
- Ultra-sonic cleaning tank
- Large capacity laser welding
- Dry Ice cleaning machine



**CAD CAM**

- In house 3D tool and component design/modelling using the latest Delcam Powershape software – 3 seats
- Shop floor programming using Delcam Powermill – 4 seats
- Offline wire erosion programming using MetalCam
- Most CAD formats accepted



● Automotive ● Medical ● Household ● Building Products