

CNC Machining Capabilities

5 Axis Machines

- **2 X HURCO VMX60SR FULL 5 AXIS MILLING MACHINE**
 - Swivel Head and Rotary Table
 - Tool Probing
 - Travel 1520mm x 660mm x 610mm (X x Y x Z)
 - 12000 RPM spindle
- **NAKAMURA SUPER NTJX(L) TWIN CHUCK TURN/MILL MACHINE**
 - Swivel Head 5-AXIS capability
 - 1500mm multi load bar feed
 - 65mm bar capacity through spindle
 - Larger parts can be machined by hand loading
 - 245mm max turning diameter.

Turn/Mill CNC Machines

- **NAKAMURA NTY3 TWIN SPINDLE MULTI-AXIS CNC TURNING CENTRE**
 - Opposed two-spindle, 3-turret construction
 - 72 tool stations
 - 36 driven tool stations
 - 62mm Y-axis on 3-turret
 - 6000 rpm spindle
- **NAKAMURA WT300 TWIN CHUCK TURN/MILL MACHINE**
 - 1500MM multi load bar feed
 - 80mm bar capacity through spindle
 - Larger parts can be machined by hand loading
 - 270mm max turning diameter
- **NAKAMURA WT150 TWIN CHUCK TURN/MILL MACHINE**
 - 1000MM multi load bar feed
 - 2" bar capacity through spindle
 - Larger parts can be machined by hand loading
 - 190mm max turning diameter
- **NAKAMURA WT100 TWIN CHUCK TURN/MILL MACHINE**
 - Full length multi load bar feed
 - 42mm bar capacity through spindle
 - Larger parts can be machined by hand loading
 - 190mm max turning diameter
- **DAEWOO PUMA 400**
 - Lathe with live tooling
 - 117mm diameter spindle bore capacity
 - 500mm diameter x 800mm long turning capacity
- **TORNOS SIGMA 20 SLIDING HEAD TURN/MILL MACHINE**
 - Full length multi load bar feed
 - 25mm bar capacity through spindle
- **STAR SR32J SLIDING HEAD TURN/MILL MACHINE**
 - Full length multi load bar feed
 - 32mm bar capacity through spindle
- **NAKAMURA AS-200 SINGLE CHUCK TURN/MILL MACHINE**
 - 1500MM multi load bar feed

- 65mm bar capacity through spindle
- Larger parts can be machined by hand loading
- 430mm max turning diameter

CNC Milling

- **HURCO VMX64t-24 ATC MACHINE CENTRE**
 - Swivel head and rotary table
 - Travel 1625 x 863 x 762)
 - 1200 rpm spindle
- **DOOSAN HP5100**
 - Twin Pallet Horizontal Machining Centre
 - Machining Capacity 850 x 700 x 750mm (X x Y x Z)
 - Maximum Work Piece Weight 500Kg
 - 60 Tool Change Carousel
- **2 x MITSUBISHI M-V5C**
 - High Speed Vertical Machining Centre
 - Fanuc 18i MA CNC Control
 - Machining Capacity 800 x 510 x 460mm (X x Y x Z)
 - Loading Capacity 500kg
- **HURCO VMX30**
 - High Speed Vertical Machining Centre
 - Ultimax Control
 - Machining Capacity 760 x 500 x 600mm (X x Y x Z)
 - 4th Axis
- **HURCO VM1**
 - High Speed Vertical Machining Centre
 - Ultimax Control
 - Machining Capacity 660 x 400 x 500mm (X x Y x Z)

CNC Turning

- **COLCHESTER 300 CNC LATHE**
 - 82mm Bar Capacity with Bar Feed
 - Collet Chuck Capacity
 - 3" Diameter and 10" Chucking Capacity
- **HARDINGE CNC LATHE**
 - 2" Bar Capacity
 - 8" Chuck

Manual Machines

Milling

- **3 X BRIDGEPORT TURRET MILLS**

Turning

- **BINNS & BERRY TRIDENT 1000 CENTRE LATHE**
 - 1500mm Swing Diameter
 - 2500mm Between Centres
 - Loading Capacity 1000kg
- **POREBA CENTRE LATHE**

- 940mm Swing Capacity
- 2200mm Between Centres
- Loading Capacity 1000kg
- **2 X COLCHESTER MAGNUM CENTRE LATHES**
 - 1060mm Swing Diameter
 - 1500mm Between Centres
 - Loading Capacity 500kg
- **COLCHESTER MASTIFF CENTRE LATHE**
 - 800mm Swing Diameter
 - 2000mm Between Centres
 - Loading Capacity 350kg
- **VARIOUS OTHER TOOL ROOM LATHES**

Other Machines and Equipment

Inspection Equipment

- **MITUTOYO CNC CMM**
 - Model Euro-Apex-7106
 - GEOPAK-GEOWIN software
 - Measuring range 700 x 1000 x 600mm (X x Y x Z)
 - Automatic styli change with PH9 motorised probe head
- **MITUTOYO CMM**
 - Model B231
 - GEOPAK 3 Version 3.2 software

Testing Facilities

- **2 X BOC HELIUM LEAK DETECTORS**
 - Sniffer Probe Linked to either Leak Detector / Pressure Testing / Thermal Cycling / Transfer Line Efficiency / Flow Testing (to Customer Specifications)
 - (Max Temperature 110 degrees Celsius)-(Vacuum < 1 x 10⁻⁷ Mbar)

Metal Finishing/Cleaning Facilities

- **ULTRASONIC TANK**
- **ALCOHOL DEGREASING TANK**
- **LINISHING MACHINE**
- **POLISHING MACHINE**

TIG Welding

- **1 X MILLER SYNCROWAVE 250AC/DC TIG**
- **1 X KEMPPI MASTER TIG MLS2500**
- **1 X KEMPPI MASTER TIG MLS2300**
- **2 X ROTATABLE CHUCK WITH A 2.5" BORE**
 - The tables are adjustable to operate vertically as well as horizontally.

All dimensions in millimetres unless otherwise stated