

Facilities Overview

Quality System to BS EN ISO9001:2000

DESIGN

Production Design	3 station Pro Engineer
Tooling Design	3 station AutoCAD 2000i; Mechanical Designer and Powerpack
CAM Design	3 station Pathtrace; SmartCAM 3D; Robocam CAD/CAM.

CNC Milling

- 1 off Mikron UCP 1350
5 axis Machining Centre
Capacity 1350 x 1000 x 750
- 1 off Mikron VCP 600
Machining Centre; 30stn ATC
Capacity 600 x 450 x 450
- 1 off Mikron VCE 600
Machining Centre; 24stn ATC
Capacity 600 x 500 x 540
- 1 off Mikron UME900
Machining Centre; 22 stn ATC
Capacity 900 x 630 x 500
- 1 off Mikron UMS 600
Machining centre; 22 stn ATC
Capacity 600 x 500 x 450
- 1 off Mazak Mazatech FH580/40
Twin Pallet Machining Centre; 90 stn ATC; 4 axis
Capacity 700 x 700 x 50
- 1 off Maho MH800T
Universal mill; 4 axis
Capacity 800 x 500 x 500
- 1 off Maho MH600E
Universal mill
Capacity 600 x 400 x 300
- 1 off Hitachi Seiki VK55
Machining Centre; 30 stn ATC; 4 axis
Capacity 1000 x 500 x 50
- 1 off Hurco 4020HT
Machining Centre; 25 stn ATC
Capacity 1020 x 510 x 610

CNC Turning

- 1 off Hitachi Seiki HT25S 10 stn Toolpost Powered Tailstock
Chuck dia 300; 1.1m Bar feed dia 63; Z axis 590
- 1 off Hitachi Seiki HT25G 12 stn Toolpost Powered Tailstock
Chuck dia 250; 1.2m Bar feed dia 63; Z axis 625
- 1 off Hitachi Seiki HiCell 23 10 stn Toolpost + 12 position magazine
Powered Tailstock
Chuck dia 250; 1.5m Bar feed dia 65; Z axis 530
- 1 off Hardinge Conquest T42 10 stn Toolpost; Driven Tooling with Sub Spindle
Max turn dia 200; 1.2m
Bar feed dia 42; Z axis 350
- 1 off Hardinge Conquest 42 10 stn Toolpost; Driven Tooling
Max turn dia 200; 3.0m
Bar feed dia 42; Z axis 350
- 1 off Hitachi Seiki HT23R 16 stn Toolpost Powered Tailstock
Chuck dia 250; Z axis 600

Surface Grinding Machines

- 1 off Jones & Shipman 1400X Programmable Surface Grinding Machine
- 1 off Jones & Shipman 540X Programmable Surface Grinding Machine
- 6 off Jones & Shipman 1400 Surface Grinding Machine
- 1 off Jones & Shipman 1400 Surface Grinding Machine fitted with
CNC DIAFORM
- 6 off Jones & Shipman 540 Surface Grinding Machine
- 2 off Jones & Shipman 1011 Surface Grinding Machine

(Unless otherwise stated all of the above are fitted with either Optidress
E or Machine Vision Systems)

- 1 off Wickman Optical Profile Grinder
- 1 off Chevalier Automatic Surface Grinding Machine
- 1 off Okomoto 63 Automatic Surface Grinding Machine

CNC / Cylindrical Grinding Machines

- 1 off STUDER S31 5 Axis CNC Cylindrical Grinding Machine.
C & B Axis, Marposs Gauging.
Max Dia 350mm x 1000mm
- 1 off STUDER S31 5 Axis CNC Cylindrical Grinding Machine.
C & B Axis, Marposs Gauging.
Max Dia 350mm x 650mm
- 1 off J & S Promat 10-450 CNC Cylindrical Grinding Machine.
Marposs Gauging
- 2 off Jones & Shipman 1300X CNC Cylindrical Grinding Machine with
CNC DIAFORM
- 1 off Jones & Shipman 1300CNC Cylindrical Grinding Machine with CNC DIAFORM
- 1 off Jones & Shipman 1300 Universal Grinding Machine with Projectordress
- 1 off Jones & Shipman 1076 Cylindrical Grinding Machine with Projectordress
- 2 off Jones & Shipman 1074 Cylindrical Grinding Machine with Projectordress
- 2 off Jones & Shipman 1311 Cylindrical Grinding Machine
- 1 off Jones & Shipman 1035 Cylindrical Grinding Machine;
Internal & External Facilities
- 1 off Jones & Shipman 1049 Cylindrical Grinding Machine with CNC DIAFORM
- 1 off Overbeck 2501 Internal Grinding machine

CNC Wire / Sink Erosion

- 2 off Charmilles 2030 SI Twin Wire Automatic Wire Thread; Fully Submerged;
320 x 220 x 115; 30deg tape
- 1 off Charmilles 440 CC Automatic Wire Thread; Fully Submerged;
550 x 350 x 400; 30deg tape
- 1 off Charmilles 240 CC Automatic Wire Thread; Fully Submerged;
350 x 220 x 220; 30deg tape
- 1 off Charmilles 510P Automatic Wire Thread; 700 x 400 x 400;
30deg tape
- 1 off Charmilles 510 Automatic Wire Thread; 700 x 400 x 400;
30deg tape
- 1 off Charmilles 310 Automatic Wire Thread; 400 x 250 x 400;
30deg tape
- 1 off Charmilles 290 Automatic Wire Thread; 400 x 250 x 200;
30deg tape
- 1 off Charmilles Roboform 30PCNC Spark erosion machine; 6 stn ATC;
Integrated C Axis; Full system 3R toolin
- 1 off Charmilles 2LC Spark erosion machine fitted with DRO and
full System 3R tooling
- 1 off Charmilles SD1CNC Fast Hole Drilling Machine;
300 x 200 x 300; Dia 0.5 –Dia 3.0 mm

Jig Boring / Grinding

- 2 off SIP Hauser MP42DLR
 - 2 off Moore No 2
 - 1 off SIP Hydroptic No 6
 - 1 off Hauser
 - 2 off Charmilles 2030 SI
 - 1 off Charmilles 440 CC
 - 1 off Charmilles 240 CC
 - 1 off Charmilles 510P
 - 1 off Charmilles 510
 - 1 off Charmilles 310
 - 1 off Charmilles 290
 - 1 off Charmilles Roboform 30P
 - 1 off Charmilles 2LC
 - 1 off Charmilles SD1CNC
- Jig Boring Machine Capacity 650 x 450 x 50
 Jig Grinding Machine Capacity 400 x 250 x 25
 Jig Boring Machine with 900mm dia Rotary Table Capacity 1300 x 200
 Jig Boring Machine; Inclinable Rotary Table Capacity 1000 x 700
 CNC Wire/Sink Erosion
 Twin Wire Automatic Wire Thread;
 Fully Submerged; 320 x 220 x 115; 30deg tape
 Automatic Wire Thread;
 Fully Submerged; 550 x 350 x 400; 30deg tape
 Automatic Wire Thread;
 Fully Submerged; 350 x 220 x 220;
 30 deg tape
 Automatic Wire Thread; 700 x 400 x 400;
 30deg tape
 Automatic Wire Thread; 700 x 400 x 400;
 30deg tape
 Automatic Wire Thread; 400 x 250 x 400;
 30 deg tape
 Automatic Wire Thread; 400 x 250 x 200;
 30deg tape
 CNC Spark erosion machine; 6 stn ATC;
 Integrated C Axis; Full system 3R tooling
 Spark erosion machine fitted with DRO
 and full System 3R toolin
 Fast Hole Drilling Machine; 300x200x 300;
 Dia 0.5 –Dia 3.0 mm

Inspection

Full Temperature Controlled Environment

- Co-Ordinate Measuring Machine
 - 4 off Shadowgraph inspection unit
 - Esterling Federal Formscan 6100 roundness checking machine
 - 2 off Mitutoyo Laser Scan Micrometers
 - Digital Height Gauge
 - Rockwell & Vickers hardness testing
 - Taylor Hobson Surface Testing
 - Mercer Air gauges
- QCT 2000 Enabling Solid Model Import

In addition to the above we have over 50 high precision manual machine tools