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CNC MACHINING CAPABILITIES

3, 4 & 5 Axis Milling – Including Automation

- **YCM NFX400A** 5 Axis, Heidenhain 640 Control, 60 tool magazine, spindle & tool probing
– *With Cellro Xcelerate X20 Robot loading*
- **Erowa Leonardo Pallet Loading System**
– YCM NFX380A 5 Axis, Heidenhain 640, 60 tool magazine, spindle & tool probing
Capacity: 18 pallets (225 × 225 × 200mm)
– YCM FX350 5 Axis, Heidenhain 530, 60 tool magazine, spindle & tool probing
Capacity: 25 pallets (148mm Ø × 200mm)
- **Erowa Compact Pallet Loading**
– 2x YCM FX350AH 5 Axis, Heidenhain 530, individual Compact systems
Capacity: 50 pallets (148mm Ø × 200mm)
- **HEDELIUS Tiltenta 7** 5 Axis, Heidenhain 530, moving column machining centre
– *Capacity: 4200 × 750 × 695mm, BT40 spindle, spindle probing*
- **YCM DCV2012B** 3 Axis Double Column, Heidenhain 530, BT50 spindle
– *Capacity: 2000 × 1200 × 750mm*

Additional CNC Milling Machines:

- 4x YCM FX350AH 5 Axis, Heidenhain 530 (350mm Ø trunnion capacity)
- YCM TV188B 3 Axis, Heidenhain 530 (1800 × 860mm)
- YCM TV158B 3 Axis, Heidenhain 530 (1600 × 860mm)
- 3x YCM NXV102A 3 Axis, Heidenhain 620 (1020 × 510mm)
- YCM MV106A 3 Axis, Heidenhain 530 (1060 × 510mm)
- YCM NSV66A 3 Axis, Heidenhain 530 (660 × 510mm)
- 5x YCM XV560AH 3 Axis, Heidenhain 530 (560 × 410mm)
- Bridgeport VMC600/22 3 Axis, Heidenhain 410 (600 × 510mm)
- Bridgeport VMC800/22 3 Axis, Heidenhain 410 (800 × 510mm + 4th Axis on one machine)
- YCM FV125A 3/4 Axis, Fanuc MXP200i (1250 × 510mm + 4th Axis)

CNC TURNING CAPABILITIES

- **Goodway SW32** Sliding Head, Fanuc CNC, 32mm bar, Twin Spindle, 3m Barfeed
- **Goodway SW32II** Sliding Head, Fanuc CNC, 32mm bar, Twin Spindle, 3m Barfeed
- **Daewoo Puma MX2000SY** 6 Axis, Fanuc 18iTB, Main + Sub Spindle, 65mm bar capacity
- **Miyano BND-42S** Fanuc CNC, C-Axis, Driven Tooling, Sub Spindle, 42mm main / 34mm sub spindle
- **Ecoca SJ-20MC** Fanuc CNC, C-Axis, Driven Tooling
- **Goodway GCL-2B** Fanuc CNC, 200mm Ø, 51mm bar capacity
- **Goodway GS-260** Fanuc CNC, 400mm Ø, 51mm bar capacity, C-Axis Driven Tooling

CAD/CAM Integration

Mastercam, EdgeCam, SolidWorks, CAE + Pro-E Capabilities

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WELDING & SHEET METAL

- **Laser Cutting:** Bodor 30kW, 3000 × 1500mm, up to 40mm thickness
- **Press Brakes:**
 - Amada HFE 130-4 (130T × 4.0m)
 - RQH (30T × 1.5m)
 - Edwards Pearson PR4 100/3100 (100T × 3.0m)
- **Guillotines:**
 - Edwards Truecut (48" × 10g mild steel)
 - Edwards (3m × 6mm mild steel)
- Hydranotch Femco Corner Notcher
- Press & Shear 2m Rollers (6mm mild steel)
- Meritus Spot Welder
- Ineco Basic Tube Bender (Ciritmaster Scalloper)
- **Welding Sets:**
 - 10x Migatronic TIG
 - 6x Migatronic MIG
 - Transarc 200A Metal Arc Welder
- **Workshop Access:**
 - 3.8m (W) × 4.7m (H) doors
 - Overhead Crane (12.5T capacity)

CONVENTIONAL MACHINE SHOP

Manual Milling

- 5x SMX2 3000 SLV Turret Mills (3 Axis)

Manual Turning

- Cyclematic CTL618e Toolroom Lathe
- Harrison M450 Centre Lathe
- Dalian 600 × 1500 Centre Lathe
- 2x XYZ Protturn Centre Lathes (425 × 2000mm and 355 × 1000mm)

Grinding & Honing

- Okamoto 105DX Surface Grinder (1.05 × 0.5m)
- J&S 1400 Surface Grinder (24" × 6")
- J&S EIU 1074 Universal Grinder
- GP Centreless Grinder
- Delapena Auto Speedhone

INSPECTION & QUALITY CONTROL

- Keyence IM Instant Measurement System
 - VDMIS-based CNC CMM
 - Manual CMM
 - Faro Arm (1.2m Ø) with Delcam software
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ASSEMBLY CAPABILITIES

- Fully Equipped Electro-Mechanical Assembly Areas

ANCILLARY & SUPPORTING PLANT

- uMeta Laser Engraving Machine
- Pemserter Series 4 Press (53.4kN x 457mm depth)
- Glass Bead & Grit Blasting
- Electro Arc Spark Eroder
- Line Grinding
- In-House Toolmaking and Material Preparation Facilities