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CNC Milling: 3, 4 & 5 Axis, Including Automation

- **YCM NFX400A 5 Axis:**
Heidenhain 640, 60-tool magazine, spindle and tool probing, integrated with Cellro Xcelerate X20 Robot loading.
- **Erowa Leonardo Pallet Loading System:**
 - YCM NFX380A 5 Axis, Heidenhain 640, 60-tool magazine, spindle and tool probing.
Capacity: 18 pallets (225 × 225 × 200mm)
 - YCM FX350 5 Axis, Heidenhain 530, 60-tool magazine, spindle and tool probing.
Capacity: 25 pallets (148mm Ø × 200mm)
- **Erowa Compact Pallet Loading:**
2 × YCM FX350AH 5 Axis, Heidenhain 530, individual compact systems.
Capacity: 50 pallets (148mm Ø × 200mm)
- **HEDELIUS Tiltenta 7 5 Axis:**
Heidenhain 530, moving column, 4200 × 750 × 695mm, BT40, spindle probing.
- **YCM DCV2012B 3 Axis Double Column:**
Heidenhain 530, BT50 spindle, 2000 × 1200 × 750mm.
- **Additional CNC Milling Machines:**
 - 3 × YCM FX350AH 5 Axis, Heidenhain 530 (350mm Ø trunnion)
 - YCM TV188B 3 Axis, Heidenhain 530 (1800 × 860mm)
 - YCM TV158B 3 Axis, Heidenhain 530 (1600 × 860mm)
 - 3 × YCM NXV102A 3 Axis, Heidenhain 620 (1020 × 510mm)
 - YCM MV106A 3 Axis, Heidenhain 530 (1060 × 510mm)
 - YCM NSV66A 3 Axis, Heidenhain 530 (660 × 510mm)
 - 5 × YCM XV560AH 3 Axis, Heidenhain 530 (560 × 410mm)
 - Bridgeport VMC600/22 3 Axis, Heidenhain 410 (600 × 510mm)
 - 3 × Bridgeport VMC800/22 3 Axis, Heidenhain 410 (800 × 510mm, with 4th axis on one machine)
 - YCM FV125A 3/4 Axis, Fanuc MXP200i (1250 × 510mm, with 4th axis)

CNC Turning: Sliding Head, Multi-Axis, Barfed

- 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 and sub spindle, 65mm bar, 330mm Ø × 510mm, driven tooling
 - Miyano BND-42S, Fanuc CNC, C-axis, driven tooling, sub spindle, 42mm main / 34mm sub
 - Ecoca SJ-20MC, Fanuc CNC, C-axis, driven tooling
 - Goodway GCL-2B, Fanuc CNC, 200mm Ø, 51mm bar
 - Goodway GS-260, Fanuc CNC, 400mm Ø, 51mm bar, C-axis, driven tooling
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CAD/CAM & Digital Manufacturing

- Mastercam, EdgeCam, SolidWorks, Pro–E, and CAE for comprehensive digital manufacturing workflow
- Vericut for NC simulation and verification

Welding & Sheet Metalwork

- **Laser Cutting:**
Bodor P3 30kW Fibre Laser, 3000 × 1500mm, up to 50mm thick
- **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 Rollers (2m, 6mm),
- Ineco Basic Tube Bender
- Gritmaster Tube Scalloper
- **Welding Sets:**
 - **MIG Welding Sets: 8**
 - ESAB MIG 5000i: 2
 - KEMPPI X5 FASTMIG PULSE: 4
 - MIGATRONIC AUTOMIG 273: 1
 - MIGATRONIC KDX 250: 1
 - **TIG Welding Sets: 11**
 - MIGATRONIC PI 320: 3
 - MIGATRONIC PI 350: 3
 - MIGATRONIC PILOT 2000: 1
 - MILLER DYNASTY 350: 3
 - MILLER DYNASTY 800: 1
 - **Spot Welding Sets: 1**
 - British Federal Spot Welder:1
- **Workshop Access:**
 - 3.8m (W) × 4.7m (H) doors,
 - Overhead Crane (12.5T capacity)

			
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Conventional Machine Shop

- **Manual Milling:**
 - 4 × SMX2 3000 SLV Turret Mills (3 Axis)
- **Manual Turning:**
 - Cyclematic CTL618e Toolroom Lathe
 - Harrison M500
 - WinHo L560 (600 x 2500mm)
 - XYZ Protturn SLX425 (425 x 2000mm)
 - XYZ Protturn SLX355 (355 x 1000mm)
 - XYZ Protturn RLX780 (780 x 1500mm)
- **Grinding & Honing:**
 - Okamoto 105DX Surface Grinder (1.05 × 0.5m table),
 - J&S 1400 (24" × 6")
 - J&S EIU 1074 Universal Grinder (10" × 18")
 - GP Centreless Grinder
 - Delapena Auto Speedhone

Inspection & Quality Control

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

Assembly & Ancillary Facilities

- **Assembly:**
 - Dedicated electro-mechanical assembly areas
 - **Support Plant:**
 - uMeta Laser Engraving
 - Pemserter Series 4 (53.4kN, 457mm)
 - Glass bead and grit blasting
 - Electro Arc Spark Eroder
 - Line grinding
 - In-house toolmaking
 - Full material preparation
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