



<b>Form</b>	<b>129</b>	<b>Sumac Precision Engineering Plant List</b>		
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**CNC MILLING 3, 4 & 5 AXIS INCLUDING AUTOMATION**

**YCM NFX400A** 5 Axis Heidenhain 640 Control with 60 tool capacity, spindle and tool probing integrated with Cellro Xcelerate X20 Robot work piece loading system.

**Erowa Leonardo Pallet Loading supporting 2 machines**

**YCM NFX380A** 5 Axis Heidenhain 640 Control with 60 tool capacity, spindle and tool probing  
Capacity – 18 x Pallets of 225 x 225mm x 200mm high

**YCM Fx350** 5 Axis Heidenhain 530 Control with 60 tool capacity, spindle and tool probing  
Capacity – 25 x Pallets of 148mm Ø x 200mm high

**Erowa Compact Pallet Loading**


**YCM Fx350AH x 2 off** 5 Axis Heidenhain 530 Control using individual Erowa Compact work piece loading systems

Capacity - 50 Pallets of 148mm Ø x 200mm high. 60 tool capacity, spindle and tool probing

**HEDELIUS Tiltenta 7** 5 axis CNC-control Heidenhain 530 control, moving column machining centre continuous tilting main spindle. Capacity 4200mm x 750mm x 695mm. BT40 with Spindle Probing

**YCM DCV2012B** 3-Axis Double Column Machine for Heidenhain 530 control. BT50 Spindle.  
Capacity 2000mm x 1200mm x 750mm

<b>4x</b>	<b>YCM Fx350AH</b> 5 Axis	Heidenhain 530	Capacity 350mm Ø Trunnion
	<b>YCM TV188B</b> 3 Axis	Heidenhain 530	Capacity 1800 x 860 mm
	<b>YCM TV158B</b> 3 Axis	Heidenhain 530	Capacity 1600 x 860 mm
<b>3x</b>	<b>YCM NXV102A</b> 3 Axis	Heidenhain 620	Capacity 1020 x 510mm
	<b>YCM MV106A</b> 3 Axis	Heidenhain 530	Capacity 1060 x 510 mm
	<b>YCM NSV66A</b> 3 Axis	Heidenhain 530	Capacity 660 x 510 mm
<b>5x</b>	<b>YCM XV560AH</b> 3 Axis	Heidenhain 530	Capacity 560 x 410 mm
	<b>Bridgeport VMC600/22</b> 3 Axis	Heidenhain 410	Capacity 600 x 510 mm
	<b>Bridgeport VMC800/22</b> 3 Axis	Heidenhain 410	Capacity 800 x 510 mm (with 4 <sup>th</sup> Axis)
<b>2x</b>	<b>Bridgeport VMC800/22</b> 3 Axis	Heidenhain 410	Capacity 800 x 510 mm
	<b>YCM FV125A</b> 3 & 4 Axis	MXP200i Fanuc	Capacity 1250 x 510 mm (with 4 <sup>th</sup> Axis)

		
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### CNC TURNING

**Goodway Sliding Head SW32** Fanuc CNC 32mm Bar Capacity. Twin Spindle 3 Metre Barfeed

**Goodway Sliding Head SW32II** Fanuc CNC 32mm Bar Capacity. Twin Spindle 3 Metre Barfeed

**Daewoo Puma MX2000SY** 6 Axis -Fanuc 18iTB Control System: 15kW Main Spindle + 7.5kW Sub Spindle, 5.5kW Driven Tools with Hydrafeed Multifeed Bar System. Work Envelope 330mm dia x 510mm, with 65mm Bar Capacity

**Miyano BND-42S** Fanuc CNC Control C Axis Driven Tooling & Sub Spindle Hydrafeed 3-80 Magazine Barfeed 42mm Main Spindle Capacity plus 34mm Sub Spindle.

**Ecoca SJ-20MC** Fanuc CNC Control C Axis Driven Tool Turret Hydrafeed 3-80 Magazine Barfeed


**Goodway GCL-2B** Fanuc CNC Control 200mm Ø Capacity, 51mm Bar Capacity. Hydrafeed 3-80 Magazine Barfeed

**Goodway GS-260** Fanuc CNC Control 400mm Ø Capacity, 51mm Bar Capacity. C-Axis Driven tool Turret.

All CNC Machining fully supported by Mastercam, EdgeCam & Solidworks (Computer Aided Engineering + Pro-E Capability).

### WELDING AND SHEET METAL (LASER CUTTING, FABRICATION AND WELDING)

<b>Overhead Crane</b>	Capacity 12.5T
<b>Bystronic Bystar 3015 laser cutting machine</b>	Capacity 3000mm x 1500mm x 15mm
<b>Amada press brake HFE 130-4</b>	Capacity 130 tonne x 4.0 metres down stroke
<b>RQH Pressbrake</b>	Capacity 30 tonne x 1.5 metres
<b>Edwards pearson press brake PR4 100/3100</b>	Capacity 100 tonne x 3.0 metres
<b>Edwards Guillotine</b>	Capacity Truecut 48" X 10g Mild Steel
<b>Edwards Guillotine</b>	Capacity 3 Metre x 6mm Mild Steel
<b>Hydranotch Femco Corner Notcher</b>	
<b>Press &amp; Shear Ltd 2 Meter Rollers Cap 6mm M.S</b>	
<b>Meritus Spot Welder Model 5002420</b>	
<b>Ineco Basic Tube Bender (Ciritmaster Tube Scalloper)</b>	
<b>15x Migatronic Tig welding Sets</b>	
<b>4x Migatronic Mig Welding Sets</b>	
<b>Miller Dynasty 800 Set</b>	
<b>Transarc Welder Metal Arc 200 Amp Set</b>	

		
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**CONVENTIONAL MACHINE SHOP WITH FULL ANCILLARY & SUPPORTING PLANT**

**MANUAL MILLING**

(5x) SMX2 3000 SLV Turret Milling Machine 3 Axis.

**MANUAL TURNING**

Cyclematic	Toolroom Lathe	CTL618e
Harrison	Centre Lathe	M450
Dalian	Centre Lathe	600 x 1500
XYZ Protturn	Centre Lathe	425 x 2000
XYZ Protturn	Centre Lathe	355 x 1000

**GRINDING & HONING**

Okamoto Grinder 105DX      1.05 x 0.5m Table  
 J & S Surface Grinder 1400      24" x 6" Table  
 J & S EIU 1074 Universal Grinder 10" swing x 18" long  
 GP Centreless Grinder  
 Delapena Auto Speedhone machine

**INSPECTION**

Fully Equipped Inspection Facilities and Quality Control  
 Keyence IM Instant Measurement System  
 VDMIS based CNC Co-Ordinate Measuring Machine.  
 Manual Co-Ordinate Measuring Machine  
 Faro Arm 1.2M Ø with Delcam software

**ASSEMBLY**

Fully Equipped Dedicated Assembly Areas  
 Electro-Mechanical

**ANCILLARY & SUPPORT PLANT**

uMeta Laser Engraving Machine  
 Pemsrter Series 4 53.4Kn Press Force x 457mm Depth  
 Glass Bead & Grit Blasting  
 Electro Arc Spark Eroder  
 Line Grinding  
 Fully equipped material cutting and preparation.  
 In-House toolmaking