

# **FW FROST (ENGINEERS) LTD**

[www.fwfrost-engineers.co.uk](http://www.fwfrost-engineers.co.uk)

## **MACHINE SHOP CAPACITY**

### **TURNING – CNC Lathes**

- 1 - Harrison Alpha 1550S (554 x 3000 long) 8 station turret
- 1 - Colchester Multiturn (400 x 1250 long)
- 1 - Haas SL-30T SE Turning Centre – (287 x 864 long) 12 station turret
- 1 - Haas ST30Y Turning Centre c/w Full C Axis, Y Axis, Live Tooling
- 1 - Haas ST 30Y Turning Centre c/w Full C Axis, Y Axis, Live Tooling, Servo 300 bar feed

### **TURNING – Manual Lathes**

- 1 - Binns & Berry Trident (860 x 3600 long) (1300 x 400 long in gap)
- 1 - Colchester Mastiff 1400 (280 x 3000 long)
- 2 - Colchester Mastiff 1800 (280 x 3000 long)
- 3 - Colchester Triumph 2500 (240 x 1270 long)
- 1 - Colchester Student (300 X 1000 long)

### **MILLING – CNC Machining Centres – With *Delcam CAD/CAM* offline programming**

- 1 - Haas VF 9 - 2134 x 1016 x 762 mm Travel - Haas Control 24 Station tool change - Thru' spindle coolant with high speed machining
- 1 - Haas VF 6 – 1626 x 813 x 762mm Travel - Haas Control 24 Station tool change - Thru' spindle coolant with 4<sup>th</sup> axis & high-speed machining
- 2 - Haas VF 3YT - 1016 x 660 x 635 mm Travel - Haas Control 20 Station tool change - Thru' spindle coolant with 4<sup>th</sup> axis
- 2 - Haas VF 3 - 1016 x 508 x 635 mm Travel - Haas Control 20 Station tool change - Thru' spindle coolant
- 1 - Haas VF 2 - 750 x 400 x 508 mm travel - Haas Control - 20 station tool change
- 1 - Haas TM 2 - 1000x380 travel - Haas control with 4<sup>th</sup> axis

- 1 - Haas EC1600 Horizontal – 1626 x 1016 x 813mm travel - 30 station tool change – 4<sup>th</sup> Axis Platter (5 deg) - Thru' spindle coolant
- 1 - Haas EC2000 Horizontal – 2134 x 1016 x 813mm travel - 30 station tool change – 4<sup>th</sup> Axis Platter - Thru' spindle coolant

### **MILLING – Horizontal Borers**

- 2 - Scharmann FB 500 - 1400 x 1200 wide Rotary Table - 1200 x 1200 x 1400 mm height travel - 6 tonne capacity

### **MILLING - Manual Mills**

- 1 - Hyundai HDM - 6B - 2200 x 550 wide table - 1700 x 750 x 750 mm travel
- 2 - Europa Variable Speed (1500 x 250 wide table)

### **DRILLING**

- 1 - Richmond Consul radial drill (900 x 600 table - No.4 Morse)
- 3 - 12mm Capacity pillar drills

### **KEYING**

- 1 - Marlow broaching machine (350 x 550)
- 1 - Berdett 250mm stroke slotter

### **PRESSES**

- 1 - Compac Hydraulic 15ton press

### **Grinding**

- 1 - Elliot surface Grinder (450 x 250)

### **SAWING**

Maximum 330mm capacity + automatic band saw

### **FITTING & ASSEMBLY AREA**

- 1- Faro Gauge Inspection Arm with Delcam 3D Inspection Software
- 25 m x 10 m & 12 m x 12 m

### **CRANAGE**

- 7 Tonne Fork Lift
- 1 Tonne Overhead Crane

**SALES - 01603 867301**

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Drayton, Norwich, NR8 6AP

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## **FABRICATION SHOP CAPACITY**

### **WELDERS**

6 - 400 Amp Water-cooled MIG/MAG  
4 - 350 Amp Water-cooled MIG/MAG synergic inverters with Pulse  
1 - 500 Amp Water-cooled MIG/MAG synergic inverter with Pulse  
5 - 300 Amp Air-cooled MIG/MAG  
1 - 350 Amp AC/DC Inverter TIG/MIG/MMA with Pulse  
2 - 400 Amp AC/DC TIG/MMA Sets  
2 - 320 Amp AC/DC TIG/MMA Sets  
3 - 200 Amp AC/DC TIG/MMA Sets  
3 - Stud welders (M10 thread maximum)  
1 - British Federal Spot Welder  
1 - Mosa TS 200 Amp Petrol Welder/Generator  
All MIG / TIG welding sets capable of welding Mild Steel, Aluminium, and Stainless Steel  
Coded Welding in Mild Steel to 30mm thick, Stainless Steel up to 50mm thick.

### **PUNCHING**

1 - Amada Aries 245 CNC punch (up to 4mm Stainless Steel, 6mm Mild Steel and 6mm Aluminium)  
With **Teksoft CAD/CAM** offline programming.  
1 - Pullmax Nibbler / Former  
1 - Kingsland Steelworker Multi 80  
1 - Euromac Corner Notcher 6mm capacity

### **FORMING**

1 - Amada HFE II - 4 metre x 220 Tonne - 8 axis CNC Pressbrake  
1 - Amada HFE II - 2.5 metre x 80 Tonne - 8 axis CNC Pressbrake  
1 - Keetona Hydroform (2.5 metre x 3mm)  
1 - Morgan Box and Pan Folder  
2 - Fly presses (No. 6)  
1 - Digibend 720 (72 tonne) for tube bending, flats etc.  
1 - Ercolina Tube Former SB 48T - 1 ½" & 1" O.D. Tube

### **CUTTING**

1 - Gade Guillotine (4 metre x 8mm mild steel - 4 metre x 6mm stainless steel) - NC Control  
1 - Kingsland Guillotine (3 metre x 13 mm) - NC Control  
1 - Lincoln PC100 Plasma Cutter (30 mm capacity)

### **SAWING**

Maximum Capacity - 320mm diameter, 500x250 rectangular

### **DRILLING**

1 - Richmond Consul radial drill (900 x 600 table - No.4 Morse)  
2 - Startrite Pedestal Drills  
2 - Magnetic Drill / Rotabroach

### **ROLLING**

1 - Kingsland Powered Rollers (1200 x 2mm)  
1 - Powered Multi Section Rollers

### **CRANAGE**

7 Tonne Fork lifts + Side loader and smaller electric forks  
2 no - 2 Tonne Overhead Cranes

### **FITTING & ASSEMBLY AREA**

18 m x 18 m

### **FINISHING**

Painting, Galvanising, Powder coating, Bead Blasting etc. by Subcontractors

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