

# **F.W. FROST (ENGINEERS) LTD.**

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

## **MACHINE SHOP CAPACITY**

### **TURNING - CNC Lathes – With ONECNC CAD/CAM offline programming**

- 1 - Harrison Alpha 1550S (554 x 3000 long) 8 station turret
- 1 - Harrison Alpha 1400XS (400 x 1200 long) 8 station turret
- 1 - Colchester Multiturn (400 x 1250 long) 8 station turret
- 3 - Haas ST30Y Turning Centre c/w Full C Axis, Y Axis, Live Tooling

### **TURNING - Manual Lathes**

- 1 - Colchester Mastiff 1800 (550 x 3000 long)
- 1 - Colchester Triumph 2500 (400 x 1250 long)
- 1 - Colchester Student (300 X 1000 long)

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

- 1 - Haas VF 9 - 2134 x 1016 x 762 mm Travel - Haas Control 24 Station tool change - Through spindle coolant with high speed machining
- 1 - Haas VF 6 - 1626 x 813 x 762mm Travel - Haas Control 24 Station tool change - Through spindle coolant with 4<sup>th</sup> axis & high speed machining
- 2 - Haas VF 4SS - 1270 x 508 x 635 mm Travel - Haas Control 24 Station tool change - Through spindle coolant with 4<sup>th</sup> axis
- 2 - Haas VF 3YT - 1016 x 660 x 635 mm Travel - Haas Control 20 Station tool change - Through spindle coolant with 4<sup>th</sup> axis
- 1 - Haas VM 3 - 1016 x 660 x 635 mm Travel - Haas Control 20 Station tool change - Through spindle coolant
- 1 - Haas VF 2 - 750 x 400 x 508 mm travel - Haas Control - 20 station tool change
- 1 - Haas TM 2 - 1016 x 406 x 406mm travel - Haas Control with 4<sup>th</sup> axis

### **MILLING - Horizontal Borers**

- 1 - Haas EC1600 Horizontal - 1626 x 1016 x 813mm travel - 30 station tool change – 4<sup>th</sup> Axis Platter (5 deg) - Through spindle coolant
- 1 - Haas EC2000 Horizontal - 2134 x 1016 x 813mm travel - 30 station tool change – 4<sup>th</sup> Axis Platter - Through spindle coolant
- 1 - Scharmann FB 500 - 1400 x 1200 wide Rotary Table – (x)1200 x (y)1400 x (z)1400 mm travel - 6 tonne capacity
- 1 - Scharmann FB 125 - 1400 x 1000 wide Rotary Table – (x)1600 x (y)1400 x (z)2000 mm travel - 6 tonne capacity

### **MILLING - Manual Mills**

- 1 - Europa Variable Speed (1500 x 250 wide table)

### **HONING**

- 1 – Delapena Powerhone

### **DRILLING**

- 2 - 12mm Capacity pillar drills

### **KEYING**

- 1 - Marlow broaching machine (350 x 550)

### **PRESSES**

- 1 - Compac Hydraulic 15 ton press

### **GRINDING**

- 1 - Elliot surface Grinder (450 x 250)

### **SAWING**

Maximum 400mm capacity + automatic band saw

### **FITTING & ASSEMBLY AREA**

25 m x 10 m & 12 m

### **INSPECTION**

- 1- Faro Gauge Inspection Arm with Aberlink Inspection Software
- 1- Axiom Too CNC CMM with Aberlink Inspection Software

### **CRANAGE**

- 7 Tonne Fork Lift
- 1 Tonne Overhead Crane

Sales - 01603 867301

Email – [sales@fwfrost-engineers.co.uk](mailto:sales@fwfrost-engineers.co.uk)

Frost Industrial Estate  
Drayton High Road  
Drayton, Norwich, NR8 6AP

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## **FABRICATION SHOP CAPACITY**

### **WELDERS**

- 4 – Lorch Micor Mig 400
- 6 – ESAB 4001I Mig / MAG
- 2 - ESAB Aristo 500ix Mig / MAG
- 1- Murex Transmig 406SW
- 1- Murex Transmig 253
- 4 - Rehm Invertig Pro 280
- 1 - Rehm Invertig Pro 350
  
- 1 - Stud welder (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 & stainless steel to 30mm 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 – Kingsland Steelworker Multi 80
- 1- Euromac Corner Notcher 6mm capacity

### **FORMING**

- 1 - Amada HFE II - 4 metre x 220 Tonne - 8 axis CNC Press-brake
- 1 - Amada HFE II – 2.5 metre x 80 Tonne - 8 axis CNC Press-brake
- 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" OD 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**

- 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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