

## Cranes

- Up to 10 tons electric pendant controlled overhead lifting facility

## Centre Lathe Turning

- Geminis 1400 roll turning lathe. 6m between centres x 1.4m swing
- XYZ 2200 x 4m between centres
- Colchester Mastiff 1400 x 2.5m between centres
- 2 x Colchester Mascot 1600 x 2m between centres
- TOS SN63 x 2m between centres
- Harrison M500 x 2m between centres
- Harrison M500 x 1.5m between centres
- Harrison M400 x 2m between centres
- XYZ 2000 x 2m between centres
- Colchester Triumph 2000 x 1.5m between centres

(All lathes are equipped with 2axis DRO, 3 and 4 jaw chucks, fixed roller, travelling steadies and faceplates)

## Sawing and cutting

- Forte band saw with cutting capability of 360mm diameter
- Portable cutting off saw

## Milling Machines

- TOS FC63V Vertical Milling Machine. 50 International taper spindle. Table size 2m x 1m. Will accept work piece of 500mm height under the cutter.
- XYZ KRV3000 Turret Milling Machine. 40 International taper spindle. Table size 1.4m x 0.7m
- Bridgeport Universal Milling Machine ISO50 taper spindle. Table size 1.4m x 0.35m
- 1 x XYZ KRV 2000 Turret Milling Machines. R8 spindle. Table size 1.7m x 0.8m

(All milling machines are fully tooled and equipped with 3axis DRO and electronic touch probe for PCD and edge finding capability. Power traverse to all table axis)

## Boring

- Kearns Richards SG 100 horizontal table type boring machine. Table size 1200 mm x 1200 mm. Long/cross travel 1500 mm/1500 mm. Rates of feed of table 1.27- 3800mm infinitely variable. Vertical traverse of head 1200 mm. Spindle diameter 100mm/50 ISO. Spindle speeds 2-1120 rpm infinitely variable. Facing head diameter & speeds 750-mm/capacity 1150 mm. 3 axis DRO.
- Webster Bennet 48IN EV vertical boring machine. Table diameter & No of jaws 48in 4 jaws. Max. swing 58in. Max. height under rail 48in (1219mm). Table speeds (12) 8.4- 187 rpm. Feeds 12. No & travel of tool slides 1 pentagon indexing head. 2 axis DRO.

## Drilling

- Asquith Radial Arm. 2m arm radius x no.5 Morse taper spindle. 2 box tables x 1m square
- Asquith bench drilling machines x 13mm chuck capacity

## Grinding

- Cylindrical: Ribon grinding machine. 250mm diameter x 1.5m between centres. Machine has internal grinding attachment.
- Surface: Jones and Shipman 500mm x 300mm magnetic table.

## Lapping equipment

- Mechanical seal lapping equipment

## Steel stock

- A stock of popular En series carbon steels and stainless steels are always available in stock up to 300mm diameter. A selection of non-ferrous metals is also kept on stock

## Horizontal Power Presses

- Three hydraulic presses up to 500 tons pressure equipped with strong backs and feet

## Metal Spraying

- Eutectic Castolin and Rototec cold spraying equipment

## Automated Welding

- Semi automatic internal and external Spiral 650amp MIG welding machine. Water cooled torch. Work piece up to 10m long x 2m diameter
- Semi automatic, internal and external Spiral 400amp MIG Welding machine. Water cooled torch, Work piece up to 2m long x 2m diameter
- Semi automatic, internal Spiral 300amp MIG welding machine. Work piece dimensions from 20mm up to 440mm diameter x 250mm through the bore

## Plating

- Metadalic Selective Plating facilities with range of carbon anodes and specialist plating fluids. 300amp power source

## **Fabrication facilities**

- Hydroform Power Bending Machine. 2m wide x 3mm steel plate
- Guillotine up to 2m wide x 6mm steel plate
- Power rollers up to 10mm plate
- Portable cutting off and sawing equipment
- Welding manipulator. 1m table diameter
- Eltec 300amp Mig welding plant
- Oxford 400amp MMA welding plant
- BOC 200amp TIG welding plant
- Eltec 300amp Mig welding plant with aluminium "pull wire gun" attachment
- Eutectic 400amp MMA welding plant
- 110v portable MMA and TIG welding plant
- 240v portable MMA welding plant
- Full range of welding consumable and steel plate always kept on stock

## **Mechanical assembly**

- Dedicated "clean area" for the assembly of machinery and component parts.
- SKF induction bearing heater with temperature sensing probes. Full range of hydraulic pulling and bench assembly equipment

## **Site Services**

- Mechanical fitting and welding
- Laser alignment of couplings and shafts.
- Pulley laser aligning equipment
- Geometric laser alignment equipment for parallelism, flatness, perpendicular and concentricity measurement

## **Inspection equipment**

- Magnflux Magnetic Particle Impregnation testing
- Ultrascan portable Ultrasonic testing facilities
- Full range of calibrated internal and external in house measuring equipment

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