

Plant List

CAD/CAM PROGRAMMING

RADAN 2011 R2 with FIVE High Speed PC's operating the CAD/CAM facility using the latest software including RADPUNCH, RADRAFT, RADBEND and RADPROFILE. 2D and 3D visualising with DNC link to Turret Presses and Laser Machines. DXF & DWG software allows customer 2D drawings to be imported into the Radan software and the additional facilities of IGES, SAT & STEP 3D software allows for work to be imported from customer 3D images. All required information can be received via email.

COMPUTERISED SYSTEM

EXEL EFACS computer software is extensively used throughout to control all manufacturing processes from Sales Order Processing and Estimating, Purchase Order Processing, Shop Floor Data Capture and Job Costing, to Despatch and Accounts.

FULLY AUTOMATED CNC LASER CUTTING

Fully Automated AMADA LCG 3015 3500 Watt CO2 Laser Cutter with AMADA ASLUL Load\Unload Tower System, incorporating multiple raw material and finished parts pallets to allow continuous scheduled processing. Parts and material can be loaded\unloaded without interrupting the laser cutting cycle. Max sheet size 3000mm x 1500mm, up to 20mm Mild Steel, 10mm Stainless Steel and 8mm Aluminium. Cutting Accuracy +/-0.1mm. The machine can run lights out, 24 hours per day, 7 days a week unmanned.

FULLY AUTOMATED CNC PUNCHING

Fully Automated AMADA Vipros Z 3510 PDC King, High Speed, 30 Tonne Hydraulic Punch Press. Maximum hit rate of 1000 HPM, 224 Tool Carousel with automatic tool changer. Press is automatically fed from 30 Tonne storage tower and punched parts are automatically removed and stacked by PR System. The machine can run lights out, 24 hours per day, 7 days a week unmanned.

BENDING

4 x Amada Promecam CNC multiaxis Press Brakes, down stroking with enhanced daylight opening of 470mm allowing deeper components to be bent.

1xHFB 8025 - 8 axis. Bend length 2.5 metre x 80 tonne.

3xHFB 5020 - 8 axis. Bend length 2 metre x 50 tonne.

TOOL GRINDING

AMADA TOGU III Automatic Punch Press Tool Grinder.

BUSH AND STUD INSERTION

2 x HAEGER 6 Ton Semi Automatic Bush Insertion Machines.

2 x SERTABUSH 6 Ton Hydraulic Bush Insertion Machines.

WELDING

1 x Techna 25 kva Spot Welder.

1 x Techna 20 kva Spot Welder.

1 x Sureweld Pei 25 kva Spot Welder.

MIG and TIG Welding Sets and CD Stud Welding.

DEBURRING

GRINDMASTER Series 2000 (MSB) 1100mm Wide Belt Surface Finishing Machine. Lakeside Fettling Booths with Disc and Orbital Sanders.

GENERAL MACHINING

Ajax Evolution 200 CNC Lathe 1000X400 mm capacity.

Bridgeport Universal Milling Machine.

Archdale Radial Drills X 4.

IBP Chop Saw.

ASSEMBLY

Complete Mechanical Assembly Facilities.

FINISHING

NORDSON Electostatic Powder Coat Line with Twin Gun Booth and Off Line ICI Degreasing facility. Maximum component size: Height 1.0m, Width 0.75m, Length 2m. Silk Screen Printing. Other finishes such as electro plating and alocroming are offered as standard.

Alar Engineering also offer the following electroplating plating finishes to the produces that it makes.

Clear zinc plate and chromate passivate, colour zinc plate and chromate passivate, range of trivalent passivates, electro tin plate, anodizing in various colours, alocrom 1200, alocrom 1000, Iridite NCP, alodine 160/161, bright and dull nickel, zinc phosphating, nickel and chrome plate.