



INTRODUCTION

Woodroffe Equipment's Precision Metal Products division is involved in contract manufacturing of high-precision sheet metal enclosures, components and assemblies for the following industries:

- Electronics
- Communications
- White goods
- Medical
- Defence
- Heating and cooling
- Building
- General engineering



As a second-tier supplier, the division is successful in building long-term relationships with our customers and offers design and prototype support during research and development phases for new products.

Our customers include:

- Telstra
- Electrolux
- Siemens
- Ericsson
- Nokia
- British Aerospace



Woodroffe Equipment Australia

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www.woodroffe.com.au

PRODUCTS

Custom Made Enclosures

Woodroffe Equipment manufactures a range of specialised enclosures in steel, stainless steel and aluminium using both customer and in-house generated drawings. These enclosures include:

- Telephone cabinets
- Power distribution and control boards
- Specialised 19 " racks
- Chassis for medical instruments
- Telephone and data transmission cabinets

High Quality Stainless Steel Fabrications

Having a very strong skill base in stainless steel work, Woodroffe Equipment produce a wide variety of stainless steel sheet metal and heavy gauge products such as: medical instrument vessels, dishwasher front panels, heavy duty frames for water filtration, medical equipment trolleys and catering equipment.

General High Precision Sheet Metalwork

As universal machine tools are utilised, Woodroffe Equipment is able to offer economical batch production of basic bracket and panel work plus housings and channel sections to custom sizes.

Stainless Steel Cladding

Woodroffe Equipment offers a stainless steel cladding service for timber substrate components for the shopfitting, furnishing and joinery industries. Cladding can be manufactured in advance then adhered to customers' products in our factory. This option provides a low cost solution for joinery projects with the longevity, durability and appearance benefits of stainless steel.



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CAPABILITIES

CNC Punching and Laser Cutting

2 Amada CNC turret punch presses, with up to 54 tool stations, capable of cutting and punching parts in flat sheet up to 6mm thickness. 1 Centrum 3000 hybrid laser/punch press with 1500 watt laser and 40 tool stations capable of cutting and punching parts in flat sheet up to 6mm thickness in mild steel. Maximum sheet width is 1500mm.

All machines are pre-programmed using FabriWin CAM software, have a repeatable accuracy of $\pm 0.2\text{mm}$, and can accommodate steel, stainless steel, aluminium and brass.

NC Folding

6 Promecam NC brake presses capable of repeatable high-precision folding of parts up to 3m long. Capabilities range from 20-100 tonnes.

Welding

MIG, TIG and Oxy-Acetylene welding of steel, stainless steel and aluminium sheet metal parts and heavy gauge fabrications with tradespeople qualified to Certificate VII.

Spot-welding of sheet metal assemblies up to 3.0mm thick, using static and mobile machinery with automatic controllers.

Assembly

Installation of threaded fasteners using auto-feed air presses and weld-on studs plus general assembly work. Clean room available for ongoing assembly of sensitive items.

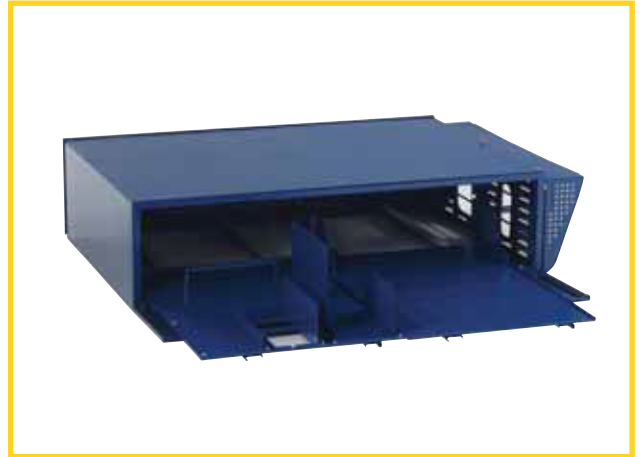
Finishing

Full range of in-house grinding and polishing capabilities including brush finishing, orbital sanding and mirror finishing of stainless steel.

Project management of machining, heat treatment, electroplating, galvanising, powder-coating, wet spray, screen printing, passivation and electropolishing operations.

Powdercoating

Woodroffe has an in-house powdercoating facility, suitable for long run single colour applications.



Injection Moulding

We have 21 injection Moulding machines ranging in size from 25 tons up to and including 550 tons with a maximum shot size of 1.9kg. Types of material currently moulded include Polypropylene, Polyethylene, Flexible PVC, nylon and PBT to mention a few.

Auto Press Shop

Woodroffe's Auto Press Shop has both 110 ton and 80 ton C frame presses which are fitted with NC controlled servo roll feeders and automatic decoilers. Steel coil up to 3mm thick by 350mm wide can be efficiently pressed into finished products at speeds up to 120 press strokes per minute. For parts that need extra pressing operations to be completed, we also have a range of "parts in, parts out" presses ranging in size from 17 ton to 60 ton capacity.

Tubemill

Woodroffe's tube mill facility can produce 25.4mm, 22.2mm and 19.05mm diameter steel tube in both raw and galvanised finishes with cut lengths from 300mm long up to 3.50metres in length with tube wall thickness varying from as thin as 0.7mm on the 19.05mm tube up to 1.60mm on the 25.4mm tube. The purpose built tube mill has a unique capability allowing tubing to be pierced, shaped and flattened during the manufacturing process, therefore eliminating expensive extra operations.



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LOGISTICS

Woodroffe Equipment offers a turnkey solution and one-stop shop approach to our customers including:

- In-house design
- Rapid prototyping
- Production of products in line with customer requirements
- Project management of all subcontract parts and finishing operations
- Delivery anywhere in Australia

In cases of high-volume, ongoing products, Woodroffe Equipment will set up production work cells within our factory dedicated to the particular project and including all machinery and resources necessary to economically manufacture the product.

A network-based ManuSoft computer system is employed to control all aspects of the company's operations including purchasing, stock control, quoting, scheduling, production and invoicing.

The system uses touch screens located within the factory to record every operation on every part produced. Being a true real-time system enables our production controllers to accurately monitor progress and enact schedule changes with immediate effect.

CAD/CAM

Using Solid Edge 3D modeling software, we are able to import both Unigraphics and Solid Edge part and parasolid files plus 3D files exported from other applications in step, EMS, ProE part, SAT and AutoCAD dwg and dxf formats.

Once imported, sheet metal parts can be unfolded into flat blanks within Solid Edge then seamlessly transferred into our FabriWin CNC programming system, which saves the time and risk associated with manually redrawing the part.

Machine tool programs are then generated in FabriWin and transferred via network to one of our 3 CNC turret punch presses ready for punching of the sheet metal blank. Woodroffe Equipment also uses AutoCAD2000 software for generation of in-house drawings and to import customers' 2D dwg and dxf files.



QUALITY ASSURANCE AND INSPECTION

Woodroffe Equipment are endorsed to ISO 9001/2000, which covers the company's design, order administration and manufacturing activities.

To ensure adherence to customer requirements, a detailed inspection is carried out on all first-off parts and recorded on a sample inspection report, which must be approved before batch production can take place.

Approved CNC programs and folding parameters, and spot checks are used to ensure conformity for repeat orders and where necessary, 100% inspection for critical features can be built into the manufacturing process.



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