

Engineering Services



When it's critical



Ferno Engineering - when it's critical

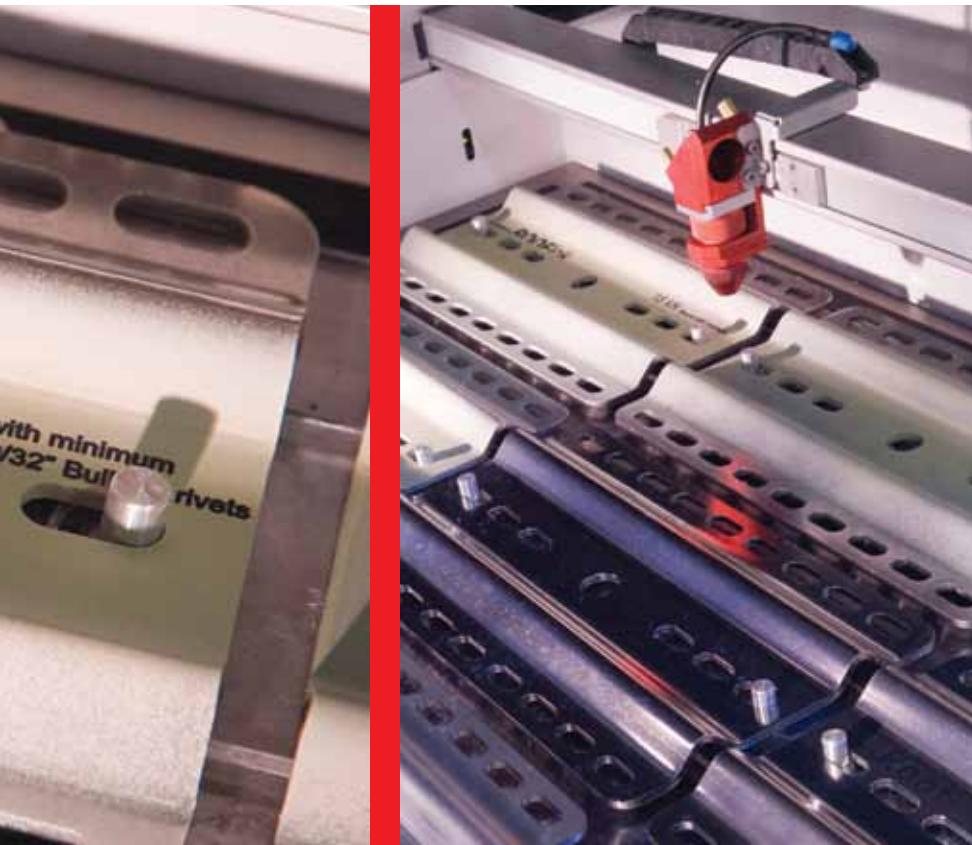
From small beginnings as a supplier of ambulance stretchers 36 years ago, Ferno Australia now develops, manufactures and distributes more than 10,000 products to the Emergency, Rescue and Safety markets. A proactive part of the global Ferno group of companies, Ferno Australia has grown to incorporate factories located in Perth, Melbourne and Brisbane and are considered market leaders - respected for manufacturing products which are recognised and trusted for their quality and dependability.

Using the strengths of the Ferno Group, Ferno Australia offers customers the best of both worlds. The benefits and expertise of a global company, combined with the proven ability to apply local knowledge and respond proactively at a local level. This professional 'can do' attitude is

especially true of the team at Ferno Engineering.

Ferno's Engineering division has played an integral role in the company's growth in size and reputation. Providing innovative solutions and high quality manufacturing and assembly services, Ferno's engineering and design teams have gained recognition within Ferno's global group and enjoy the stability of a solid base of satisfied clients – many of whom have been utilising Ferno's engineering skills for many years.

Ferno Engineering is fully compliant with ISO9001 Standards and in 2008 began the process of implementing 'Lean Manufacturing' practices. This entailed re-designing production systems with a more customer-centric focus. The results: improved value on products and services for customers,



“ Ferno Engineering is fully compliant with ISO9001 Standards and in 2008 began implementing ‘Lean Manufacturing’ practices. ”

and an increase in Ferno Engineering’s ability to respond to customers’ ever-changing needs and delivery deadlines.

The team at Ferno Engineering represent a broad range of skills to successfully deliver a range of projects from fabrication to multi-axis precision machining and everything in between. Key personnel and team leaders each have their areas of expertise and collectively represent over 100 years of engineering experience. Combine this experience with their eye for detail and ability to work with customers to achieve their desired outcomes, and you have the makings of a stress-free, quality assured project delivered on time and on budget.

Ferno Engineering can help you with all your fabrication, CNC machining, manufacturing and assembly needs.

Lean manufacturing is a production practice that considers the expenditure of resources for any goal other than the creation of value for the end customer to be wasteful. The end result is improved production processes and greater cost effectiveness leading to improvements in production times, on-time delivery, improved value and cost reductions to the end customer.

When it's critical



CNC Machining

Ferno Engineering's newly expanded machine shop has been set up to provide customers with the ability to source medium to large volume production of precision machined components.

Ferno's team of highly skilled engineers have many years' experience in multi-axis CNC, as well as conventional lathes and milling machines to meet any customer requirement.

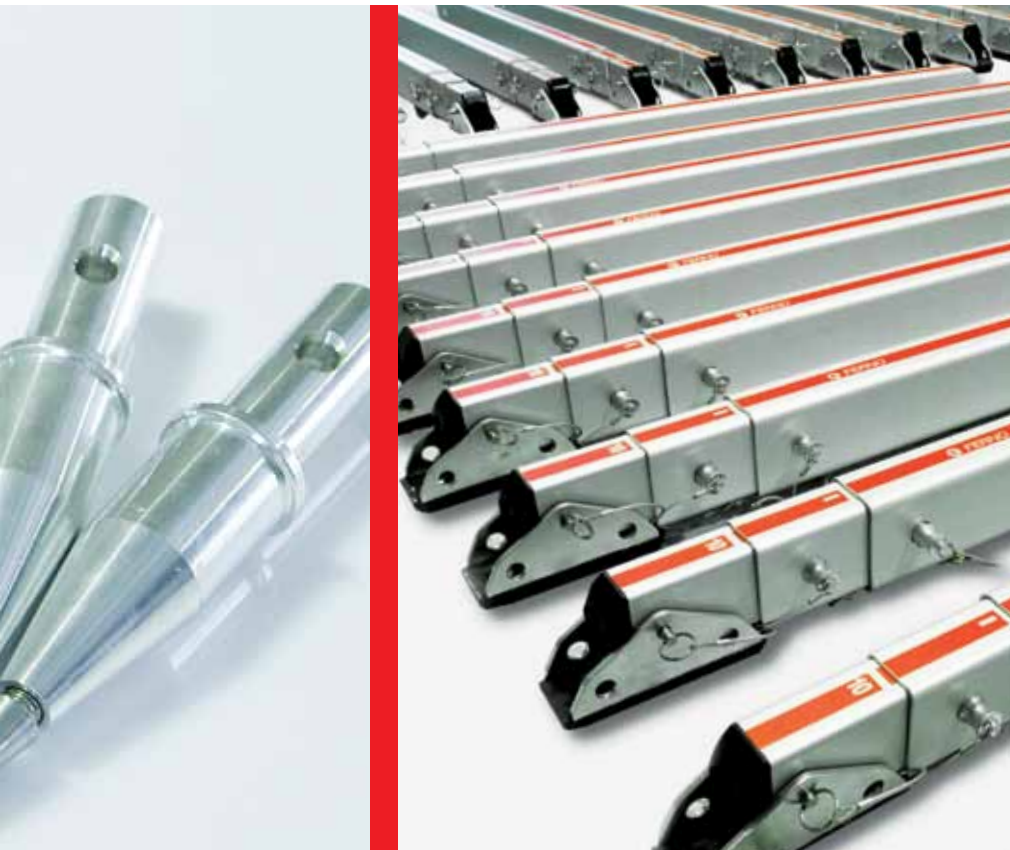
Our state of the art, multi-axis CNC machines provide us with the ability to produce a wide and varied range of precision components to a high standard of quality within the shortest possible timeframe.

Our CNC machines are driven by the latest generation CAM software. This, combined with the skill and

experience of our team ensures the exacting standard of Ferno Engineering's work and guarantees the lowest production times.

We have the ability to machine a wide range of materials, from plastics to specialty hard metals:

- Machining/Turning of round, square and hex bars
- Billet aluminium - grades ranging from 2000 to 7000 series
- Aluminium tube
- Brass and bronze
- Cast iron and cast aluminium
- Hollow bar
- Black mild steel bar and mild steel tube
- All grades of bright mild/Tool Steel/Precision ground bar
- Stainless steel
- Engineering plastics



“ We have the ability to machine a wide range of materials, from plastics to specialty hard metals ”

Manufacturing & Assembly

Ferno Engineering has many years of experience in the manufacture and assembly of our own range of high quality medical, emergency, rescue and height safety equipment and components.

The exacting standards and critical nature of this industry require that our production systems, along with our manufacturing and assembly technicians, have the highest regard for consistency and quality.

This is a mindset that Ferno Engineering applies to all work undertaken - whether for Ferno's own products or for customers.

From sub-assemblies to completed final assemblies and mechanisms, Ferno Engineering can provide mechanical assembly to your specifications.

Ferno's experienced team of Fitters and Turners are familiar with a broad range of highly critical assembly techniques for a variety of markets.

This experience, combined with our state of the art manufacturing equipment allows Ferno to provide the highest quality of service to customers who require expert manufacturing and assembly solutions.

Our Manufacturing capabilities include:

- High quality MIG and TIG welding
- High precision milling and turning
 - Surface grinding
 - Metal bending, forming, stamping and pressing
- Small diameter tube bending
 - Tumble polishing of engineered components

When it's critical



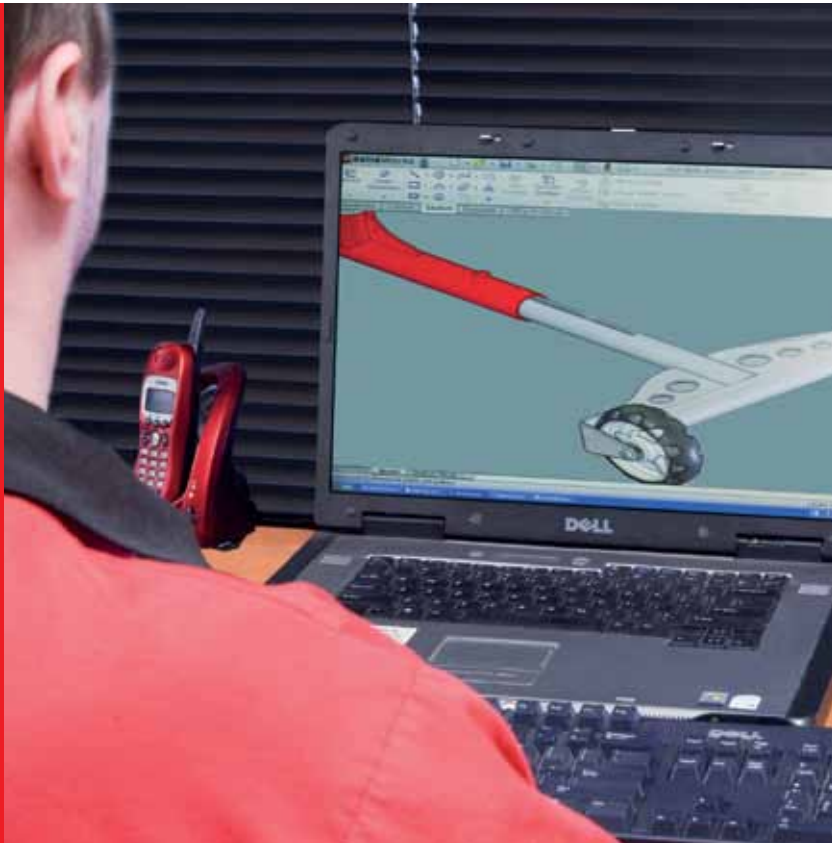
Fabrication

Ferno Engineering has extensive knowledge & experience within the fabrication & metalworking industry. Our aim & policy is to provide quality products at competitive prices. Ferno Engineering takes pride in the products produced in our workshops and quality continues to be one of our major marketing advantages, allowing customers to receive maximum return on investment.

Ferno Engineering are experts in the design and detailing of metal components and can provide advice on this aspect of your job if required. We can prepare shop drawings or work from yours to produce steel and stainless steel components to the most exacting standards. Our workshop is set up to handle production runs of any size.

Our quality control systems are accredited to ISO 9001, which is also a benchmark for Ferno Engineering to be able to continually be in a position to provide quality, cost effective products.

Ferno Engineering supply companies such as Terex Lifting Australia with products for their assembly line for the AT15, AT20 & Mac25 all terrain cranes.



“

Ferno have been a Tier 1 supplier to Terex Cranes Australia for over 10 years now. Over that time we have formed a very close relationship & understanding of our requirements in building the uniquely Australian Franna Crane. Ferno has always maintained a high level of quality whilst keeping costs under control. They have exceeded our expectations to meet our crucial Kanban targets.

- Trevor Harvey ”

Design & Solutions

Ferno's Research and Development Team has a proven track record in developing innovative design solutions.

With numerous Australian and international patents held for products developed by Ferno Engineering, the R & D Team were awarded a Design Mark In 2008 and a Design Award in 2004 from the Australian International Design Awards.

As our background is in developing products that we make, sell and service, we have a strong emphasis on developing practical solutions that will last.

Ferno has the tools for any Research and Development job. Designs are quickly transformed from rough ideas on paper to 3D models that enable the Team to quickly try out multiple ideas,

check assemblies for fit and function, run finite element analysis and hone in on a solution.

Ferno's in-house 3D printer uses FDM technology to create solid ABS plastic models that enable the Design Team to quickly test ideas.

To complement this technology, Ferno Engineering also enjoy the benefits of in-house tooling and fabrication equipment thus enabling the Team to build production-quality prototypes.

Enquiries

info@fernoengineering.com.au

T +61 7 3881 4999

F +61 7 3881 1125

www.fernoengineering.com.au

FERNO
Engineering

Emergency
Rescue
Height Safety
Engineering
Rock Climbing
Home Care
Mortuary

Ferno Australia
11 Johnstone Road
Brendale Qld 4500
Australia

p +61 7 3881 4999
f +61 7 3881 1125

www.fernoengineering.com.au

