

Capability Statement For Turner Precision Engineering



Why use Turner Precision Engineering (Aus) Pty Ltd?

- Turner Precision Engineering provides services to clients who require customised precision machined components, manufactured in a range of materials from plastic to titanium.
- We've been delivering Precision Engineering Services since 1975. Our ability to appreciate your needs comes from a lifetime of experience in this business.
- Unlike many other businesses Turner Precision Engineering has direct CNC machine programming available in house to ensure rapid and accurate interpretation of your drawings into finished parts at a reduced component cost - direct to you.
- We consistently provide high quality-parts which fit first time every time (tolerances +/- 0.01mm if required).
- We are a bar work specialist
- We work with clients to understand the mechanics of their projects, streamlining their processes and refining their components.
- We offer a high degree of client support, and expert technical input.
- All of our work is guaranteed by our Quality Control system, and comes with a signed Certificate of Conformity.
- In addition to customised parts manufacturing, we manufacture our own products in house including
 - The Professional Nibbler
 - And Hydraulic Cylinders, manifolds and components.
- With 12 CNC machines, we believe we offer the largest CNC capability on the Sunshine Coast.



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Products and Services

- **We Manufacture:** Bushes, Ferrules, Fittings, Flanges, Hydraulic Cylinders, Hydraulic Manifolds, Inserts, Pulleys, Rollers, Shafts and Valves to name a few components.
- **We Interpret:** Our expertise lies in helping clients to clearly identify the requirements of their component, and ensures we manufacture exactly to that. We liaise with clients before, during and after production as required to achieve this.





A selection of our customised Components

Products and Services

- CNC Turning : from 1mm to 300mm
- CNC Milling: from 800mm X 300mm
- CNC Drilling: from 1mm to 50mm
- Tapping
- Surface, Cylindrical and Centreless Grinding
- Direct CNC machine programming
- Chemical Blackening
- Rumbling
- Induction Hardening
- Small batch to large batch production
- Product assembly



Machinery

- Drill Sprint, high speed CNC drilling and tapping
- Star JNC 25, Swiss type sliding head CNC. 32mm Bar capacity.
- CNC Lathe, 65mm bar or 250mm chucking capacity & 12 tool turret.
- CNC Lathe, 215mm centre height, 432mm swing over bed, 267mm swing over cross slide, 710mm swing in the gap, 1000mm between centres, 90mm spindle bores.
- Three CNC lathes, with 2 axis, live tooling & spindle indexing. Bar feed 5-51mm diameter or 150mm chucking.
- CNC Lathe 32mm dia. turning machine with bar feed
- CNC 42mm lathe with 150mm chucking and 8 station turret
- Sequential control single spindle turret auto's with 3-26mm capacity, cross drilling & milling attachments.
- CNC Bridgeport 3 Axis drilling and milling machine. Work envelope 470mmX225mmX70mm and up to 16mm drilling.
- CNC vertical machining centre; table work area 800X300mm, 10 station auto tool changer
- Second operation lathes
- 10 ton press
- Horizontal and vertical production milling machines
- Centerless grinder
- Surface grinding
- Cylindrical grinding
- Chemical Blacking Plant
- Induction hardener
- Mitutoyo Profile Projector PV 5000
- Full complement of inspection equipment

Our Newest Machine has arrived: Our Colchester 4000 CNC Lathe is now fully commissioned and working hard.



Specialised Capabilities

- Customised Component manufacture
- CNC Machining
- Quick turnaround

Capacity and Supply:

Turner Precision Engineering (Aus) Pty Ltd (TPE) has extensive machining capacity. We always work closely with local businesses to create strong and responsive networks. We operate a full in-house training programme and can expand staff numbers rapidly to meet demand.

We can process orders of up to \$500,000, with the requirement of material costs up-front.

Currently we supply to:

- Perth WA
- Albury NSW
- Melbourne VIC
- Sunshine Coast
- Brisbane
- Europe

We travel as required, to support and service our client base.



Major Clients and Testimonials:

- Bourgault Australia
- Newstyle Direct
- KIMBERLEY Quarry Pty Ltd
- Brand Developers
- Baileys Bodybuilders
- Scarab studio wood

“Your wealth of experience and knowledge in machining, engineering and the keen interest you have shown in our products we have been able to; significantly improve our products in design, engineering, and manufacturing techniques, and provide us with highly accurate and quality machined parts” - **Steven Terpstra, Director of ANSA**

“Turner Precision Engineering has provided Routers Australia over the last 5 years, not only with precision components, but a services that excels all other companies in the same field. Routers Australia manufactures all types of machinery and scientific equipment, which needs not only fine tolerances but components that are very difficult to manufacture. TPE always finds a way around these difficulties with an uncompromising result” – **Graham Van Zuilecom, Director**



Innovation:

The Professional Nibbler is an attachment for any drill, transforming it into a sheet metal (and other material) cutter. Extensively used by tradespeople ie. Electricians, Plumbers and Panel beaters, as well as the DIY enthusiast. We have re-developed our old design to improve sheet metal cutting ease, and patents have been awarded for these innovative changes.

- Our patented product is exported to the Netherlands and New Zealand



The Professional Nibbler with Straight and Circle Cutting Attachment/spare punches

Patents Held:

- Australia (2006203562)
- USA (12/077,196)
- China (ZL200710142640.6)

Our R&D has developed a hydraulic one way bleed valve to create the time delayed recharge of our hydraulic cylinder. Used, for example on a seeder, this reduces the impacts caused by immediate recharge of the Hydraulic Cylinder after a ground



Agricultural Hydraulic Cylinder, designed and Manufactured by TPE

collision causing a discharge. It creates a time delay during which the cylinder is safely retracted until after the obstacle has been cleared. This reduces the incidence of disruption to the associated hydraulic fittings caused by impact and thus down time for repair. Happy farmer.



Quality, our constant companion:

We work to our Internal Quality Manual. Turner Precision Engineering is Compliant to ISO 9000:2000.

For full traceability and lean management of documentation we use PSL Datatrack



We are committed to staff training:

- Training records are held for staff development and training.
- Regular discussions with staff on performance and satisfaction.

Management Systems

- Health and Safety Policy Statement
- Documented Health and Safety Management System
- Environmental and Safety Policy Statement.
 - We recycle all left over machined material (swarf)
 - We Recycle paper, plastics and packing materials

Quality Management Systems:

- Internal management system compliant to ISO 9000:2000
- Separate Inspection area with final inspection



Insurances:

- Business insurance : (Property Damage: \$525k of Contents and Stock, Business Interruption, \$462k of Gross Profit, \$318k for Payroll, Theft: \$50k)
- Public & Products Liability: (\$10m limit of liability)
- Marine Cargo (\$30k Import/Export, \$10k Inland)
- Workers compensation

Responsiveness:

Recently, a neighbouring business needed an urgent turn around in quoting and manufacturing seven different parts. We were able to quote within the hour, and manufacture and deliver the complete order of seven different components within the tight time frame.

Networks

- TPE is a member of the Sunshine Coast Manufacturing Network
- The Australian Made Campaign and
- We subscribe to AMITL



Like Chess, engineering too occasionally presents its problems – this piece with all its complexities was designed and produced by us from a solid bar in one operation

