

# Precision Machining



Custom made lightweight aluminium clutch assembly



Purpose built short stroke single cylinder motorcycle engine



Bronze and aluminium steering gear components

Service Engineers Limited boasts a modern and efficient machine shop capable of either production machining, one off jobbing as well as repair and maintenance facilities.

An extensive range of plant, tools, machinery, skills and experience enables the machine shop to quickly and accurately produce components and equipment to exacting standards. A rigorous in-house quality control program ensures that each job is inspected and catalogued prior to being dispatched.

Service Engineers machine shop machinery has the capacity to carry out both small and large scale turning, milling, drilling, grinding, broaching, pressing and shaping operations.

The machine shop is also well stocked with a range of specialist steels and materials, and is capable of providing a fast, accurate and cost effective turnaround on a wide range of projects requiring a variety of processes.

An added advantage of Service Engineers Limited is the ability to utilise the full range of in-house facilities, enabling breakdown and maintenance operations to be effected quickly and accurately.

50-52 Porana Road, Takapuna, Auckland  
Telephone (64 9) 441 7790  
Facsimile (64 9) 441 7799

[www.serviceeng.co.nz](http://www.serviceeng.co.nz)

# Resources and Project Management



Service Engineers' workshops are fully equipped to handle all fabrication, machining and fitting. Excluding specialist subcontractors we would handle all aspects of the project "in-house", including;

- Project control and planning using Microsoft project and job cost management systems
- Design and detailing of ancillary equipment, e.g. tanks, vessels, pipe-work, supports, etc
- Development of weld procedures if not already held and QA plans
- Fabrication, machining, assembly
- Site installation
- OSH plans documentation and implementation

## Company Equipment & Facilities

Workshop Floor Space		
Fabrication Workshop	(75x16)	1,200 sq.m
Machine Workshop	(30x16)	480 sq.m
Stainless Workshop	(30x7)	210 sq.m

## Other Facilities

Laydown Yard		2,000 sq.m
--------------	--	------------

## Workshop Equipment

### Material Handling

- 2 5T Crane Fabrication bay
- 1 10T Crane Fabrication bay
- 1 3T Crane Machine Shop bay
- 1 5T Stainless Steel Workshop

### Gas Cutting

Plasma processing – plasma and multiple flame heads 13m x 4m

### Welding Equipment

- Various - TIG welding units to 350 AMP
- MIG semi-automatic welders up to 650 AMP
- Manual arc welders to 450 AMP
- Mobile 400 AMP welders
- Mobile 200 AMP welders
- Sub arc

### Fabrication Equipment

Plate rolls 12mm x 3.0m wide with separate flat and angle roll attachment  
Plate rolls 6mm x 1.8m wide  
Punch and shear (150 x 150 x12 angle or 30mm holes x 25mm thick)  
Edge beveling  
Various magnetic, hand drills and rotabroach equipment  
Cut-off saw – high speed  
Cut-off saw – horizontal band to 900 diameter  
Various vessel rotators – 30T capacity  
150 tonne hydraulic press  
Portable press and jacking equipment  
Welding manipulator

### Machine Shop Equipment

4 x centre lathes up to 800 diameter x 3000 long x 2T  
1 x CNC lathe 600 diameter x 2m capacity  
1 x Machining Centre 440mm diameter job max capacity, with hydraulic clamping, Hydraulic copy facility and programmable.

- Mills - vertical
- horizontal
- universal
- 1 x Radial arm drill No.5MT x 1500
- Surface grinder 150 x 460
- Full range of key seating and broaching equipment
- Mechanical hacksaw

## Site Equipment

Full range of lifting and rigging gear and site storage, including portacomms, workshop equipped container, site storage containers.

Concrete core drilling

## Disciplines

Service Engineers Limited have a broad base of engineering staff including specialist toolmakers and machinists, coded welders and formally qualified project managers and design engineers. An after hours call-out system operates with skilled staff to meet emergency and breakdown needs.

## Subcontractors

Service Engineers Limited try to use the same group of subcontractors on their projects. We prefer to rely on known companies with whom we have a track record, however, from time to time this is not possible or practicable.

We have developed a good relationship with key subcontractors, the most important being electrical, and as our work is spread over New Zealand and the Pacific, we do have subcontractors outside Auckland with whom we have worked successfully.

## Management Skills

Service Engineers has a permanent staff of around 50 people including engineering/technical trades and administration. This gives us flexibility in providing people to meet the need for short-term increases in site numbers during special situations – changeovers etc. Service Engineers has a strong reputation as being a competent and professional project management & contracting company.

## Health and Safety

Service Engineers endeavors to take a pro-active role in health and safety, staff have completed Site Safe Training programs and are encouraged at all levels to raise health and safety issues. A copy of our Health and Safety Policy and Manual available on request.

## Quality Systems

Service Engineers Limited operate an internal Quality Assurance System in line with ISO9000 – copy available on request.

---

50-52 Porana Road, Takapuna, Auckland  
Telephone (64 9) 441 7790  
Facsimile (64 9) 441 7799

[www.serviceeng.co.nz](http://www.serviceeng.co.nz)