



We've been engineering solutions
for over 50 years.



■ Nga Awa Purua 135MW Geothermal Power Station Steam Separation

COMPANY PROFILE



overview

Established in Tauranga in 1955, Page Macrae Engineering has built up a reputation as one of New Zealand's premium engineering companies. Operating from Aerodrome Road in Mount Maunganui, Page Macrae Engineering is within one kilometre from Tauranga Airport and three kilometres from New Zealand's largest and busiest port.

Offering a wide range of engineering services and products from design through to fabrication, on-site installation and project management, we pride ourselves on the ability to solve problems through innovation and "thinking outside the square".

We have extensive knowledge and experience having completed a large range of complex engineering projects in industries such as power generation, petrochemical, pulp & paper, food processing and materials handling.

At Page Macrae Engineering we believe that it is our obligation to assist our industry in maintaining a sustainable level of skilled trades people for the future and to achieve this we run a comprehensive apprenticeship program. Our goal is to deliver quality trades people that exceed industry standards. With modern and well equipped facilities; our commitment to training and development and a rewarding work environment for our people, makes us one of the most sought after employers in the industry.

Industry in Growth with the "Mount" (Mauao) and the Tauranga Harbour entrance in the background.



Our 4 hectare facilities in close proximity to the Port of Tauranga.

135MW Turbine for the Nga Awa Purua Geothermal Power Station.

services

Page Macrae Engineering take great care in project management with a dedicated team of experts on the job with a wealth of experience.

We believe that communication is the key to an efficiently run project and strive towards working alongside our clients to build long-term “win-win” relationships creating the best solutions and best value.

Along with being ISO 9001 certified our services include the following:

- ❖ Project Management
- ❖ Turn-key Design/Build Projects
- ❖ Heavy Fabrication

- ❖ Pipe Spooling
- ❖ Stainless Steel Fabrication
- ❖ Manufacture of Cargo Handling Equipment
- ❖ Production Fabrication and Welding Facilities
- ❖ 3D Modelling & Design
- ❖ Specialised Coating Solutions
- ❖ Manufacture of Pressure Vessels (to ASME VIII)
- ❖ Manufacture of Bulk Storage Tanks (to API 650 & 653)

- ❖ On Site Manufacture, Installation, Repairs and Maintenance
- ❖ Mechanical Maintenance and Plant Shut Downs
- ❖ Boiler Surveys and Repairs

Page Macrae Engineering - Workshop



❖ Pipe Spooling.

Page Macrae Engineering - Design & Build



❖ Darwin, Australia. Bulk Grab & Hopper Installation.

Our Quality Assurance Mission Statement

To be the leading provider of quality engineering products and services in our markets.



❖ Auckland city's Sky Tower Walk and Jump.
Manufactured by Page Macrae Engineering.

capabilities

Page Macrae Engineering's facilities are situated on a 4 hectare site in Mount Maunganui's Industrial area. The location of our facilities is in close proximity to the Port of Tauranga which reduces export costs and together with large workshops and lay down areas, allows us to manufacture projects of all sizes to all destinations.

With over 8,500m² of covered workshops, all equipped with the most up to date plant and together with a team of over 160 employees, we have the facilities and resources to tackle any project.

❖ **Total Workshop Area: 8,500m²**

including general manufacturing workshop, production facility workshop, pipe spooling workshop, segregated stainless steel workshop, cargo handling equipment manufacturing workshop and a specialised coatings facility.

❖ **Lifting Equipment capacity**

including multiple gantry cranes ranging from 1 tonne to 25 tonne, multiple forklifts, rough terrain cranes, telehandlers and a pettibone crane.

❖ **Heavy Plate Rolling capabilities:**

including SMT and vertical plate rolls with a capacity up to 25mm.

❖ **Heavy Fabrication Equipment**

including press brakes, guillotine, bandsaw, lathes and milling machines, diesel mobile welders and generators, sub-arc welding machines and multi-position manipulators.

❖ **Specialised Coatings**

Cathode Arc PVD coating machine along with ultrasonic cleaning equipment.

Facilities



❖ One of Page Macrae Engineering's many workshops.

❖ Apprentice at work.

project history

POWER GENERATION

- ❖ **Mighty River Power**
 - ❖ Kawerau Geothermal Power Station - 95MW turbine and generator installation, 650 tonne piping, pressure vessel fabrication to ASME VIII (6 vessels).
 - ❖ Nga Awa Purua Geothermal Power Station - 135MW turbine and generator installation, 1,100 tonne piping, pressure vessel fabrication to ASME VIII (12 vessels).
 - ❖ Ngatamariki Geothermal Power Station - pressure pipe fabrication and installation for 88MW Binary Plant.
- ❖ **Contact Energy Ltd**
 - ❖ Otahuhu Power Station 400MW Combined Cycle Power Plant - head mechanical contractor, turbine and generator installation, pipe fabrication and installation totalling 300 tonne, air intake ducting fabrication and installation.
 - ❖ Te Mihi Steamfield - mechanical installation including piping and pressure vessel fabrication to ASME VIII.
 - ❖ Te Mihi Geothermal Power Station - 2x85MW steam turbine and generator installation including 1,500 tonne of pressure piping.
- ❖ **Genesis Energy Ltd**
 Huntly Power Station - 400MW combined cycle power plant, installation of HRSG stack and structural steel work.
- ❖ **Pan Pac**
 Installation of a 13MW combined cycle power plant, associated pipe work and pipe bridges.
- ❖ **BOP Fertiliser Co-op Ltd**
 6MW Co-generation - steam turbine, mechanical installation.
- ❖ **Delta Hudson E.P.C.M.**
 Southdown Co-generation Plant - 120MW combined cycle power plant turbine and generator installation, pipe fabrication and installation totalling 400 tonne.
- ❖ **Tauranga Joint Generation**
 Hydro: mechanical installation - Upper and Lower Maungapapa, Ruahihi.
- ❖ **Tenon Mt Maunganui**
 Design/build 3MW gasifier and steam plant for timber drying.
- ❖ **Transfield**
 NZ Steel Co-generation Plant - coal fired gas backup, dampers fabrication, piping fabrication, structural fabrication.
- ❖ **Waipa Sawmill**
 3.2MW Co-generation - steam turbine, mechanical installation.
- ❖ **ECNZ**
 Manufacture and installation of specialised equipment - turbine maintenance, overhaul and rebuild, stop log and radial gate construction, diving and inspection.
- ❖ **Dominion Salt (NZ) Ltd**
 Installation of new vacuum salt plant using duplex and other exotic pipe work and mechanical works. Installation of 300KW turbine and generator plant.
- ❖ **Downer Engineering / Works Infrastructure**
 Port of Tauranga's coal handling facility, Mt Maunganui - 3 x 500 tonne load out silos, mechanical and piping installation.

Power Generation - Sumitomo Fuji



- ❖ Kawerau Geothermal Power Station 95MW Turbine.

Power Generation - Port of Tauranga



- ❖ Coal Handling Facility.

- ❖ Steam separation pipe work at Nga Awa Purua 135MW Geothermal Power Station.

project history

OIL & GAS

- ❖ **BP Oil New Zealand Ltd**
 - ❖ Mount Maunganui and Napier - product piping and fire protection systems, tank repairs to API 653.
 - ❖ JUHI Additional Fuel Storage - 2 x 2500m³ API tanks, fire protection and product piping fabrication and installation.
- ❖ **Bulk Storage Terminals**
 Tank farm installation - mechanical, civil and storage tank construction to API 650.
- ❖ **Caltex Oil NZ Ltd**
 Environmental upgrades, Auckland, Mount Maunganui, Gisborne, Napier, Wellington, Nelson and Dunedin tank construction to API 650, product piping and fire protection systems, tank lifting and relocation.
- ❖ **Terminals NZ Ltd (Gull Petroleum)**
 Piping and mechanical installation, Mount Maunganui - Fire protection systems upgrade, Tank Farm design/build, civils/mechanical 10,000m³ litre API tank. x 2.
- ❖ **Jordon Technologies Ltd**
 Wiri Oil Terminal - vapour recovery units, pressure vessels and piping.
- ❖ **Mobil Oil NZ Ltd**
 Environmental upgrades, Mount Maunganui and Auckland terminals - product piping and tank repairs to API 653, plant maintenance.
- ❖ **ICI/Orica**
 Manufacture of catalytic converter, stainless steel reactors, API storage tanks, pressure vessels, heat exchangers and scrubbers.
- ❖ **Shell Oil NZ Ltd/Z Energy**
 - ❖ Environmental upgrade, fire protection systems and product pipe work, tank demolition and construction of a 5,000m³ tank to API 650.
 - ❖ SLOPS System upgrade, 100m³ API Tank construction and installation.
- ❖ **Fulton Hogan**
 Bitumen Plant upgrade - 11,000m³ bitumen tank construction to API 650, mechanical installation and pipe bridges.
- ❖ **Downers**
 Bitumen Plant rebuild - mechanical, piping and storage tank construction (7 off) to API 650 and tank repairs to API 653.

DAIRY AND PROCESSING INDUSTRIES

- ❖ **Affco**
 Horotiu - Low temperature rendering plant, extensive machinery manufacture and installation.
 Morewa - Complete relocation and refurbishment of rendering plant.
- ❖ **Fonterra**
 Te Rapa - Relocation of feta cheese plant; Relocation of butter plant; Services pipe bridges and piping;
 Clandeboye - Powder 3 and lactose services pipe bridges, piping and mechanical installation;
 Westland Dairy - Powder 3 services pipe bridges, piping and mechanical installation.
- ❖ **Flodry Engineering Ltd**
 Manufacture and installation of complete meat and bonemeal rendering plants at various sites including Australia and Europe.
- ❖ **Kiwi Co-op Dairies Ltd**
 Powder III & IV projects - milk treatment process hall upgrade, mechanical installation.

Oil & Gas - Jordan Technologies Ltd



❖ Wiri Oil Terminal.

Oil & Gas - Fulton Hogan



❖ 11,000 m³ Bitumen Storage Tank.






❖ Fulton Hogan Bitumen Plant pipe bridge.


project history

WATER & WASTE WATER TREATMENT

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Downer Engineering / Works Infrastructure
 Ardmore and Huia Water Treatment Plants upgrade - mechanical installation and pipe work.
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Manukau Waste Water
 Mechanical work and piping installation for the 2000 plant upgrade.
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Memtec / US Filters
 37Mega Litre Micro Filtration Water Treatment Plants, Tauranga - fabrication and mechanical installation.
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Waikato Water Joint Venture
 Fabrication and installation of raw water and treated water plant pipe work and mechanical plant installation.
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Vivendi
 45Mega Litre Micro Filtration Water Treatment Plants, Tauranga - fabrication and mechanical installation.
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Works Infrastructure
 Pauanui Waste Water Treatment Plants - stainless steel piping, mechanical equipment installation.
 Whitianga Waste Water Treatment Plants - stainless steel piping, mechanical equipment installation.
 Whangamata Waste Water Treatment Plants - stainless steel piping, mechanical equipment installation.
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Tauranga City Council
 Te Maunga Waste Water Treatment Plant blower and aeration pipe work installation.

GENERAL PROJECTS

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Alström (Finland)
 Manufacture stainless steel and associated pipe spooling steam stripping column.
 Other projects throughout New Zealand and Australia including pressure vessels and piping.
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Defiance Flour
 Manufacture and installation of 200 tonne multi wheat silos.
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Carter Holt Harvey
 Construction of 2 x White Liquor Clarifying Tanks - 2,000m³ to API 650 from Duplex 2304 Kinleith modernisation project - stainless steel and carbon steel pipe work; Tasman Pulp and Paper - fibre line expansion project - three pipe work modules, stainless steel spooling and site installation.
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Eka Nobel / Pine Chemicals
 Plant installation and process piping, reactor manufacture, manufacture and installation of Stainless Steel Myrcene Plant, replacement of 8MW oil heaters (2 off), 35 metre distillation tower fabrication and installation.
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NuCon Engineering
 Manufacture and installation of two stainless steel dust collectors - 17 metres high and 6 metres in diameter.

 Dominion Salt Vacuum Plant.

Water & Waste Water Treatment - Downer Engineering



 Ardmore Water Treatment Plant Upgrade.

General Projects - Carter Holt Harvey



 Kinleith White Liquor Clarifying Tank.

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