

Comprehensive Mechanical Services

Mechanical services are critical to ensuring the efficiency, safety, and reliability of your site. DIALOG Fitzroy provides full-spectrum mechanical support, managing repairs and machining both onsite and in our machine shop. Whether addressing unplanned breakdowns or routine wear and tear, our expert team applies advanced tools and techniques to restore machinery and equipment functionality quickly and safely, minimising downtime.

We deliver comprehensive mechanical services across:

- ▶ Piping systems including pumps and valves
- ▶ Tanks, pressure vessels and heat exchangers
- ▶ Structural steel components
- ▶ Rotating plant machinery



Design and Construction

Fabrication

Maintenance Services

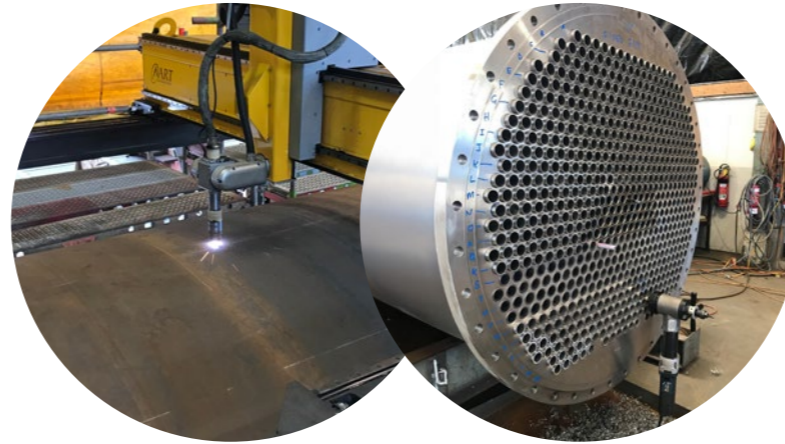
- Engineering
- Project Management
- Construction
- Pressure Vessels
- Pipe Spooling
- Tanks
- Heat Exchangers
- Structural Steel
- Mechanical Services
- Tanks and Terminals
- Plant Turnarounds
- Industrial Coatings
- Scaffolding and Access
- Rigging and Cranage
- Precision Machining

Comprehensive Mechanical Services



Shutdown Support & Tooling

- ▶ End-to-end shutdown management, planning, and trades coordination
- ▶ Bundle pulling, repairs, and column refit services
- ▶ Welding inspectors and QA/QC oversight
- ▶ Specialist tooling for shutdown efficiency and safety
- ▶ Full workshop machining and CNC capability



Specialist Welding & Fabrication

- ▶ Pressure vessel, heat exchanger, and heavy fabrication services
- ▶ Range of welding procedures:
 - Carbon steels
 - Chrome moly steels
 - Austenitic stainless steels
 - Duplex and Super Duplex
 - Nickel alloy
 - Aluminium
 - Dissimilar materials
- ▶ Welding processes
 - GTAW
 - SMAW
 - GMAW
 - FCAW(g)
 - STT
 - TipTig
 - Orbital GTAW
 - K Tig
 - SAW

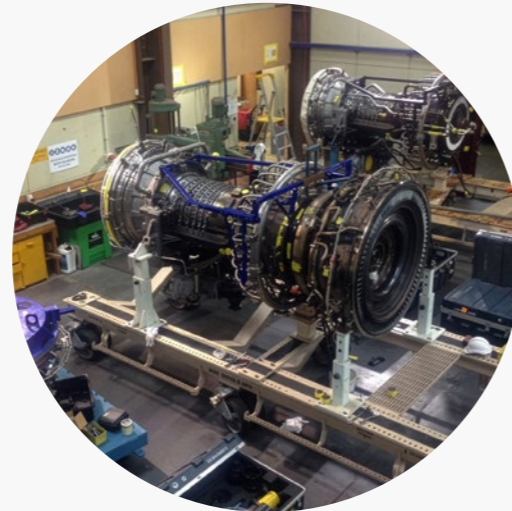




Heat Exchangers

Full life cycle solutions for heat exchangers, including:

- ▶ Retubing, plugging, expansion, and testing
- ▶ On-site and off-site tooling capability
- ▶ Precision machining for long-term reliability



Rotating Plant

- ▶ Fans and turbines: inspection, repair, and alignment
- ▶ Advanced alignment techniques to maximize equipment life and efficiency
- ▶ Pumps and Valves: repairs through to full rebuilds



Controlled Bolting & Joint Integrity

- ▶ Hydraulic tensioning and torquing
- ▶ Hydro testing and flange management
- ▶ Comprehensive joint integrity solutions



On-Site Machining & Cutting

- ▶ Machining for seal grooves, back facing, weld prep, counter boring, and heat exchanger repair
- ▶ Latest tooling technology for diameters from 0–2000mm+
- ▶ Portable **5-axis robotic plasma cutter** for heavy plate and pressure vessel precision cutting
- ▶ In-situ pipe cutting equipment for cold cutting across small to large bore piping

Why Choose DIALOG Fitzroy?

- ▶ Integrated workshop and field services for seamless delivery
- ▶ Proven expertise across shutdowns, fabrication, and rotating equipment
- ▶ Advanced tooling and technology for precision and efficiency
- ▶ Commitment to safety, quality, and minimizing downtime
- ▶ Certified welding inspectors ensuring compliance and quality

Past Projects



Reboring and tube replacement of a heat exchanger for a gas processing plant completed in workshop under tight shut done time frame.



Onsite cold cut removal of a manway flange from an LPG bullet to replace the corroded flange and minimise site hot works.



Intermediate and high-pressure water and steam drums from a geothermal plant. Welding repairs done in workshop utilising 24-hour shifts for expediated timeframe.



On site pump removal and transport to mechanical shop to disassemble and clean the pump, line bore seal faces, reassemble the pump with new bearings and seals, hydrotest, return to site and reinstall.

Design
Build
Maintain



▶ www.dialogfitzroy.com/contact-us/

Contact Us

Head Office

691 Devon Road Waiwhakaiho
New Plymouth, Taranaki 4312

Australia

1284 Lytton Road, Hemmant
Brisbane, QLD 4174

tenders@dialogfitzroy.com

DIALOG
Fitzroy

dialogfitzroy.com