



AUSTRALIA



Testing Capabilities

PLP Australia operates an in-house NATA-accredited testing laboratory supporting product development and compliance testing.

The connection you can count on



Precision Engineering | Quality Products | Unparalleled Service

PLP has been designing and manufacturing high-quality solutions for the energy, communications, and data network industries, as well as specialised niche markets in Australia since 1961.

Our precision-engineered products help build, protect, and maintain critical infrastructure, creating stronger, more reliable networks for customers across Australia and the Asia Pacific region.

Inventiveness, integrity, and foresight are the foundations of PLP. These core values guide our commitment to continuously improve our product offering through innovative engineered design solutions, ensuring the highest quality products, and delivering unparalleled service.



PLP Australia's Testing Capabilities

PLP Australia's Quality Assurance Department and Engineering Department work together collaboratively and are responsible for product design, product development and ensure quality procedures comply with NATA and ISO accreditation standards.

Manufacturing processes are monitored, audited, tested, and improved, based upon statistical and quality control techniques.

PLP Australia's local NATA testing laboratory uses calibrated equipment to test tensile loads from 1N to 500kN. Tests include industrial hardness, galvanising, fatigue testing and heat cycle for overhead conductors.

“PLP's Engineering and Quality Assurance Departments are responsible for testing and implementing processes to ensure products are of the highest quality and all the customer's requirements are met.”

Mechanical Tests

* Indicates NATA Accredited Testing

Dimensional Tests

- Profile projector
- Vernier callipers*
- Micrometres*
- Digital and analogue height indicators
- MEL lasers*
- Go and No-Go gauges*

Tensile and Compression Test

- 0-500kN Vertical test facility*
- 10N Minimum tensile or compression
- 0-500kN Horizontal test facility to 20m test length*
- Twist, wrap, and torsion tests utilising Australian Standard methods: AS 1222, AS 1531 and AS 3607*
- 30kN Cantilever flex test*
- Clamp slip test*
- Tension tests on products without strain rate control, excluding proof stress tests in the range 0.2kN to 500kN utilising methods: AS 1154, AS 2947 and EGAT*

Mechanical Endurance Test

- Induction shaker force rating 980N
- Frequency range 1.5Hz to 3000Hz

Cyclic Thermal Test

- Heat cycle of conductors with data logger capability to 240° C

Ultrasonic Test

- Ultrasonic flaw detection

Material Structure Analysis

- Grippo grinder polisher
- Microscope



Vibration Analysis

- 2 x 30.5m test spans equipped to measure vibration damper performance
- Vibration analysis measuring:
 - Damper mechanical impedance
 - Damper fatigue
 - Damper efficiency

Hardness Test

- Brinell at 7.35kN, 4.9kN, 9.8kN and 29.4kN*
- Rockwell testing using B and C scales*
- Vickers*
- Shore*
- Barcol*

Porosity Test

- Integrity testing of porcelain insulators*

Application Oriented Endurance Test

- Fatigue testing of transmission line in-span conductor spacers

Galvanising Thickness Measurement

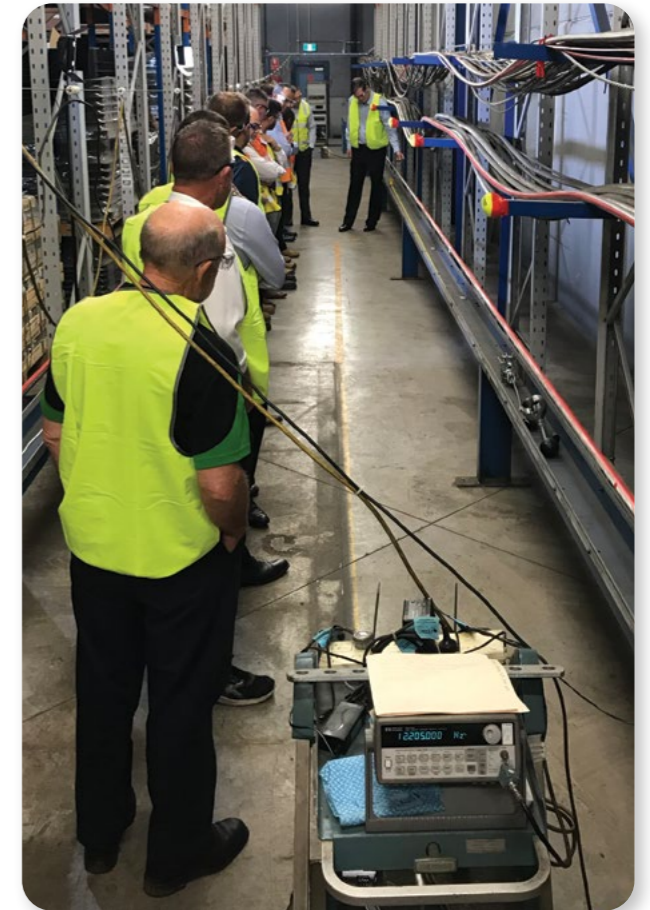
- Magnetic method*

Thermal Shock

- Extreme temperature change test on porcelain insulators

Thermal Endurance

- Prolonged elevated temperature test on spiral vibration dampers



Electrical Testing

Electrical testing is available from Australian partnership companies and PLP New Zealand.

- 60 channel data acquisition unit
- Capable of 4 cyclic heat cycles max. 2.5kA
- Static tensions up to 150kN
- Constant tension up to 30kN
- Micro measurement of material conductivity



PLP Accreditation

Global-Mark Accreditation 100660

The ISO 9001 certification demonstrates commitment to quality, systems and processes that consistently deliver safe products and services to meet their customer’s requirements.

PLP’s customers have confidence in our ability to deliver quality goods. The accreditation eliminates the need for time consuming and expensive second party audits.

The competency of our trained personnel, our production procedures and quality testing facilities ensure PLP complies with the requirements of the ISO 9001 Certification.

NATA Accreditation No. 922

NATA accreditation identifies the competence of the laboratory to perform specific types of testing, inspection, calibration, and other related activities.

The NATA accreditation is based on a peer-review process made possible by 3000 volunteer experts who assist with the assessment of facilities and sit on NATA’s technical committees.

To maintain accreditation, facilities must be assessed regularly, and facilities accredited by NATA become members of the association.

The criteria to determine a facility’s competence are based on compliance with the relevant international standards including ISO/IEC 17025, ISO/IEC 15189 and ISO/IEC 17020.

Experienced staff with qualifications and training; correct equipment that is properly calibrated and maintained; adequate quality assurance procedures and appropriate sampling practices are also part of the criteria.



PLP Manufacturing Capabilities

Aluminium and Steel Welding

PLP manufactures everything from simple steel eye-nuts to complex aluminium busbars required for substations utilising both MIG and TIG welding.

All PLP welders are trained and certified in the welding of busbar and compression terminals.

As part of the PLP training program, certification includes confirmation by X-Ray and weld testing.



Tool Design and Manufacturing

The fully programmable CNC machining centre enables automatic production of precision turned parts, without the need for operator intervention.

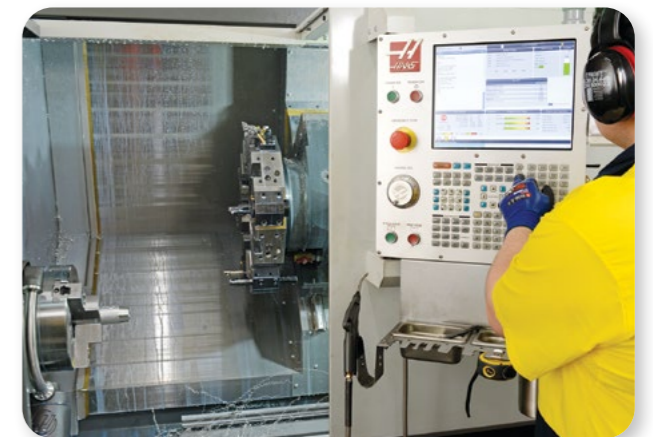
Speed and uniform manufactured products are the major benefits of the equipment.



Sheet Metal Fabrication

PLP has a range of CNC-turret presses, brake presses and spot welders. These machines combined with our experienced engineering team enable us to offer our customers a complete solution for their sheet metal requirements.

Materials utilised include stainless steel, aluminium, various zinc, steel and galvanised metals.



General Assembly

Preassembled ready-to-install components helps the customer with reduced installation time and the reassurance that all the required parts are supplied and delivered in the kitted assembly.

PLP can assemble and kit any parts required for a project to reduce customer inventory counts.



PLP's precision-engineered products and technical services support critical infrastructure networks across the energy and communications sectors.

Trusted by utility providers, our solutions deliver proven performance and long-term reliability.

Operating as a united global organisation, PLP delivers high-quality products and unparalleled service.



PLP Australia

ABN 27 004 533 877

190 Power Street, Glendenning,
NSW 2761 Australia
PO Box. 626 St. Marys,
NSW 1790 Australia

Phone: 1300 550 322

Email: sales@plp.com

Website: www.plp.com/au

