



As the leading sub-sector of Australia's mining industry, drilling is an essential contributor to Australia's most valuable export market*. However, while considered part of the mining sector, drilling comes with its own unique set of challenges.

Breakdowns are costly for drilling companies, with emergency repairs adversely impacted by the remote areas in which drill rigs operate. Competition between companies is also fierce, with the larger jobs secured by way of tender, again making cost control essential for a sustainable future within the industry.

ABOUT PACIFIC HYDRAULICS



Since 1990, Pacific Hydraulics has been providing the highest quality fluid power products, service and repairs to all major Australian industries.

Australian owned and operated, Pacific Hydraulics confidently provide hydraulic services and can supply components from industry-leading brands such as Danfoss, Bosch Rexroth, Hydac, Ryco, SPX and many more.

With long-standing experience in Australia's fluid power industry, Pacific Hydraulics are able to repair and service all hydraulic components, as well as supply everything from spare parts to brand new hydraulic systems.

When time and quality matter, you can trust the experience of Pacific Hydraulics to keep you moving.

HOW WE CAN HELP

- National branch network including Danfoss accredited workshops in Brisbane, Sydney and Perth
- No.1 distributor of Danfoss quality products in Australia
- We maintain considerable stock holdings so that critical parts and spares can be shipped immediately
- Where possible, we come to you. Otherwise, you can send parts to one of our 5 fully-equipped service centres for fast and professional repairs
- You have access to Pacific Hydraulics technical staff, for help when on a remote site outside of our mobile service area
- We provide detailed documentation for repairs, critical spare parts and servicing schedules to allow for proper tender costings
- We offer competitive pricing across all major brands including Danfoss, Char-Lynn, Eaton Vickers, Hydraforce, Bosch Rexroth, Hydac Filtration, Power Team, Reggiana Riduttori geared products, and THW
- Our staff! They are experts in their field and can assist with all major products, even those not sold by us

ESSENTIAL PRODUCTS & SERVICES LIST

- Danfoss D1 high power, and 45 series open circuit pumps
- Danfoss 90 series closed loop pumps and motors
- Danfoss PVG hydraulic, load sensing proportional valves
- Danfoss LSHT motors
- Reggiana Riduttori planetary reduction gears and brakes
- Fully equipped workshops with clean room, housing pump test rigs with data logging capabilities
- Mobile service technicians with fully equipped onsite service vehicles

* Source: <https://dfat.gov.au>



IN-HOUSE REPAIRS

- Factory authorised service centres for Danfoss products
- Fully equipped engineering and hydraulic workshops with full testing facilities at each branch
- Machine shop capabilities, cylinder barrel honing and hydraulically operated cylinder stripping benches, including the unique ratchet rotary head technology
- State of the art open and closed loop test rigs with power capabilities of up to 225kW
- Fully computer generated, printed reports available on request
- Testing facilities for high pressure jacks up to 690bar



DESIGN AND ASSEMBLY OF INTEGRATED HYDRAULIC SYSTEMS AND CONTROLS

- Design and assembly of fully integrated, hydraulic systems and controls
- Experienced staff that are highly skilled in the design, calculation, product selection and commissioning of complex hydraulic systems and controls
- Certified professional engineers
- Design optimum solutions to each application





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Unless otherwise agreed with Pacific Hydraulics in writing, goods and services purchased from Pacific Hydraulics are purchased subject to Pacific Hydraulics' Terms and Conditions. The Terms and Conditions can be found on Pacific Hydraulics' website at www.pacifichydraulics.com.au or can be requested by contacting Pacific Hydraulics.

Formulas

$$\text{Force (N)} = \frac{\text{Pressure (Bar)} \times \text{Area (mm}^2\text{)}}{10}$$

$$\text{Torque (Nm)} = \frac{\text{Pressure (Bar)} \times \text{Displacement (cc/rev)}}{20\pi}$$

$$\text{Flow (LPM)} = \frac{\text{Fluid Velocity (m/sec)} \times \text{Area (mm}^2\text{)} \times 60}{1,000}$$

$$\text{Power (kW)} = \frac{\text{Flow (LPM)} \times \text{Pressure (Bar)}}{600}$$

$$\text{Power (kW)} = \frac{2\pi \times \text{Torque (Nm)} \times \text{Speed (RPM)}}{60,000}$$

Conversions

1 PSI = 51.7mm Hg (Mercury)

1 ATM = 1 Bar = 14.7 PSI

10 Bar = 1 MPa

Product information is subject to change without notice.

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