

RFID



- Pirtek's secure software solution to maintain control of equipment life cycle
- Easily track, inspect & maintain
 - Simplifies compliance
 - Database can be securely accessed to allow support in 97 locations
 - Reduce operating risk
 - Assemblies can be fitted with a customisable and programmable RFID chip
 - Easily scanned in situ typically providing CAT#, SN, DOM, MWP, and TEST Data

OQE - OBJECTIVE QUALITY EVIDENCE



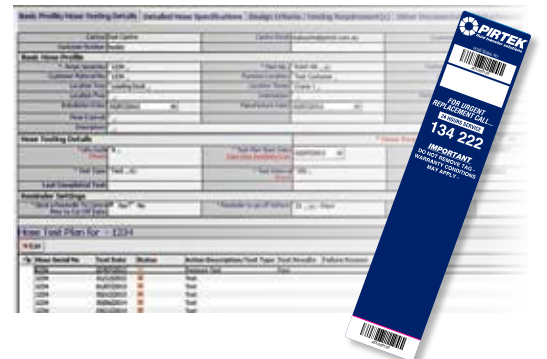
Pirtek is a long term recognised quality supplier to the defence industry. We take pride in providing high quality products and services. Pirtek is currently supplying from our selected defence ready service centres, the required documentation complying to the OQE requirements of our customers. This OQE ranges from the simplicity of PKG and COC to the complexity of complete OQE documentation, including raw material MTC's through to NDT, RFID and finished product full traceability.

pMOBILE



- Our new mobile platform allows Pirtek Technicians to have all your information at their fingertips 24 hours a day, 7 days a week.
- Improved quality of service
 - Greater productivity
 - Closer business relationships
 - Data on hose builds, date, pricing, machinery history, just to name a few
- All to help eliminate downtime.

HOSE MANAGEMENT

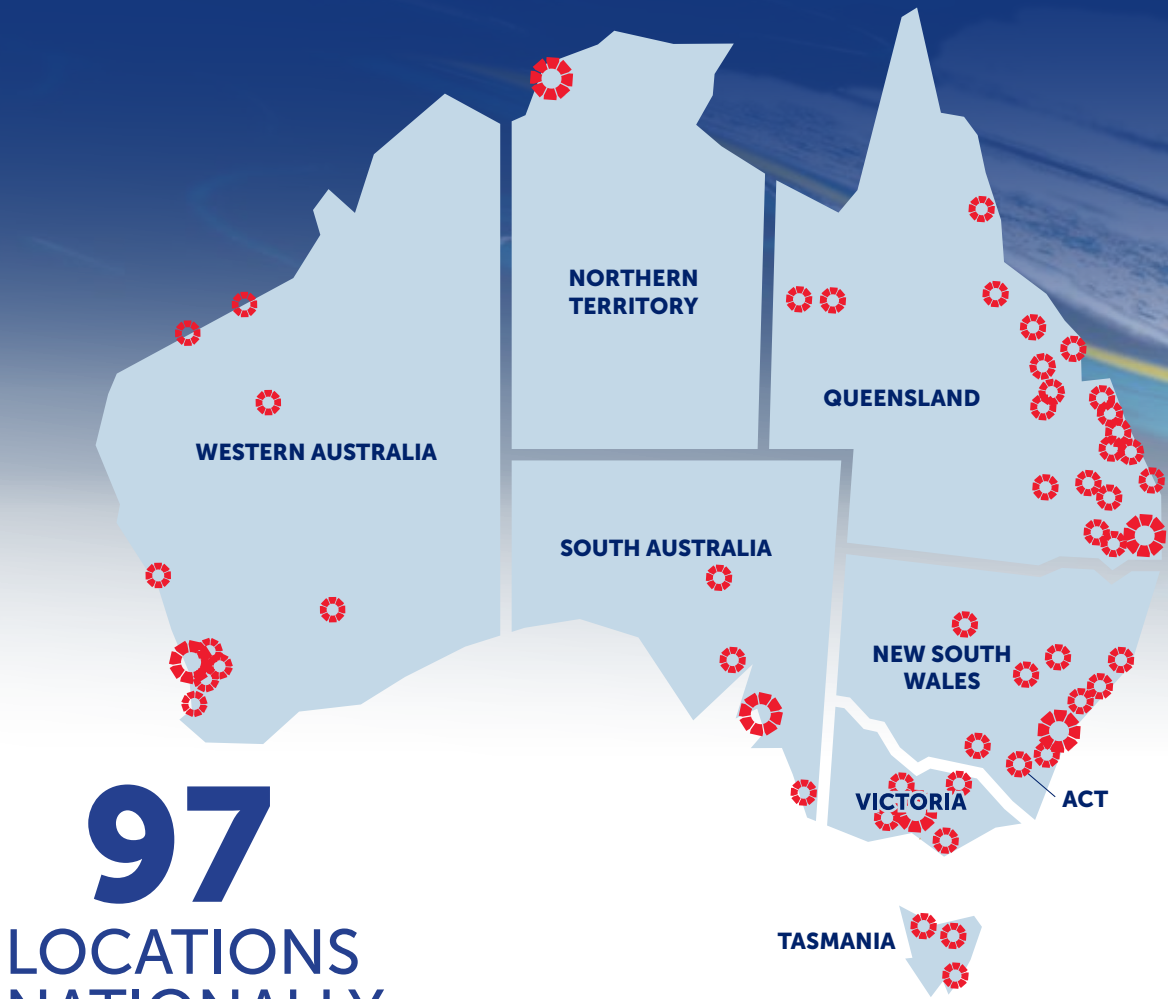


- Designed to document hose assembly data derived from plant & equipment surveys generating 'Best Practice' for personnel safety, equipment performance enhancement & machinery up-time.
- Integrated electronic hose management database
 - Proactive machine status
 - National ID systems
 - Suitable for large fleets, hydraulic systems, hose life audits & sales reports
 - Colour coded tags to record age, bill of materials, & contact details

BULK SUPPLY



- Our OEM workshops provide a team of fully trained staff along with the industry's highest quality machinery to ensure quality assurance is maintained.
- Our staff are available with technical advice to provide day to day assistance to all our customers.
- The capabilities range from:
- Large volume hose requirements
 - Specialised hose assembly
 - Highest certified technology available
 - Assembly of food grade hoses
 - Quality assurance
 - Team of highly skilled staff
 - Technical advice



97
LOCATIONS
NATIONALLY

AUSTRALIAN SERVICE & SUPPLY CENTRES

NEW SOUTH WALES

- | | | |
|------------------------|----------------|--------------------|
| Blacktown | Maitland | Shoalhaven |
| Botany | Milperra | Singleton |
| Campbelltown | Mudgee | Smithfield |
| Cobar | Muswellbrook | Southern Highlands |
| Coffs Harbour | Newcastle | Sydney Central |
| Dubbo | North Sydney | Tamworth |
| Gosford | Orange | Taree |
| Goulburn | Peakhurst | Ulladulla |
| Gunnedah | Penrith | Wagga Wagga |
| Illawarra (Wollongong) | Port Macquarie | Windsor |
| Lithgow | Prestons | |

VICTORIA

- | | | |
|----------------|-------------------|-------------|
| Albury/Wodonga | Geelong North | Springvale |
| Ballarat | Latrobe Valley | Thomastown |
| Bayswater | Laverton | Tullamarine |
| Bendigo | Melbourne Central | |
| Dandenong | Moorabbin | |

SOUTH AUSTRALIA

- | | |
|------------|----------------|
| Adelaide | Roxby Downs |
| Elizabeth | South Adelaide |
| Mt Gambier | Whyalla |

WESTERN AUSTRALIA

- | | | |
|-------------|------------|--------------|
| Bunbury | Kalgoorlie | Newman |
| Canningvale | Karratha | Port Hedland |
| Fremantle | Malaga | Welshpool |
| Geraldton | Midland | |

QUEENSLAND

- | | | |
|-----------------|----------------|------------------|
| Bayside | Emerald | Port of Brisbane |
| Beaudesert | Fraser Coast | Rockhampton |
| Biloela | Gladstone | Rocklea |
| Blackwater | Glenden | Springwood |
| Cairns | Gold Coast | Strathpine |
| Charters Towers | Ipswich | Sunshine Coast |
| Chinchilla | Mackay | Toowoomba |
| Cloncurry | Moranbah | Townsville |
| Collinsville | Mt Isa | Wacol |
| Dysart | North Brisbane | Yatala |

TASMANIA

- Hobart
Launceston
North West

ACT

- Canberra

NT

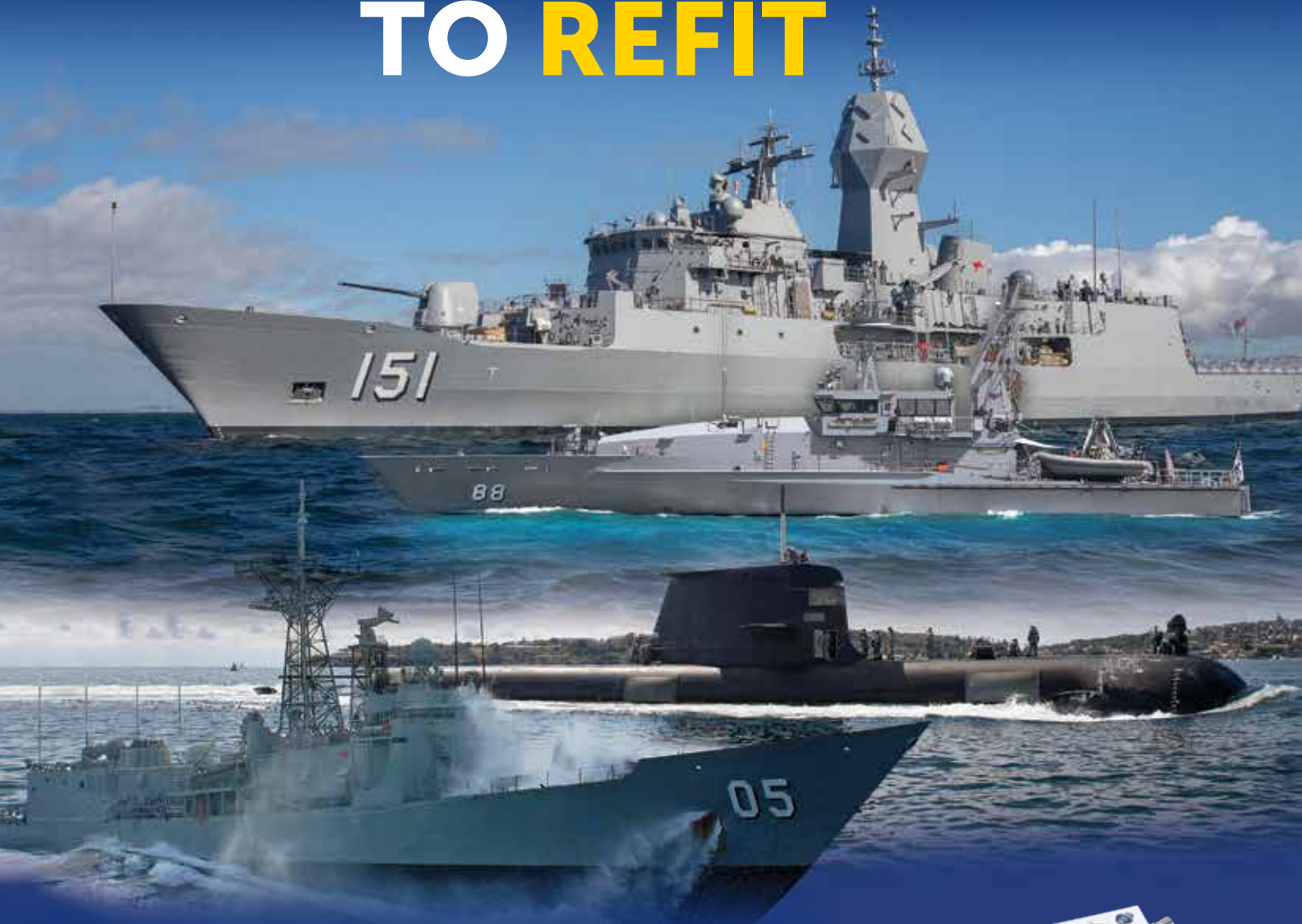
- Darwin



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PIRTEK VALUE PROPOSITION TO DEFENCE CUSTOMERS

PRODUCT

- Cutting edge quality
- Manufacture of hydraulic hose assemblies & supply of kits
- NATA certified testing and type test qualification
- Tube & pipe assemblies
- Instrumentation tube & fittings
- Fire Suppression AS5062 compliant supply, installation & service
- Centralised progressive lubrication system supply & installation
- Low pressure industrial hose (rubber, PVC & stainless) assemblies
- Adaptors, couplings & fittings, available in exotic materials
- Specialty hose construction/ultra high pressure hoses
- Self-extinguishing, unlimited shelf life hose assemblies
- Refuelling products including nozzle, couplers and receivers
- Hose protection and safety devices

KEY CUSTOMERS

- ASC • ASC AWD • Navantia • Babcock • McTaggart Scott
- Penske • Raytheon • Thales • BAE Systems • General Dynamics • Australian Navy Infrastructure • BHP Biliton
- Glencore • Rio Tinto • South 32 • Caltex • Woodside Energy



KEY SUPPLY PARTNERS

- Bridgestone • IVG Colbachini • Zec • Intertraco • MIP • Nitto
- SMC • Qtec • Fast-Fill Systems • Graco • Battlefield
- BAR Group-Australia • Convoluted Technologies
- Valvoline • Megafire



CAPABILITIES

- Hoses, tubes & pipe design, assembly, testing, supply & installation
- Testing & certification, static, dynamic, impulse & endurance
- Specialised 400Bar UHP Nitrogen testing for HP BA Air assemblies
- Hydraulic system design, Light Engineering & technical support
- OQE Traceability, RFID hose tagging, laser engraving
- COTS Hose, assemblies & fittings
- Production capacity of up to 1,000 hose assemblies per day

DISCRIMINATORS

- ITAR Compliance
- RFID & Laser etching product identification
- ITP assembly production and material traceability
- Mechanical Testing using NATA accredited methods
- Client specific item data catalogues for configuration control
- Replicate "standard work" across multiple service locations
- Combined Hose, Fire Suppression & Lubrication Capability
- Global supply network
- Track record with support to Defence industry
- Qualified assemblers & installers
- 24/7 National supply & service support
- 97 National service & OEM locations
- Registered Training Organisation

AUSTRALIAN

Proudly & uniquely Australian, Pirtek is the market leader in providing our diverse group of customers with a comprehensive portfolio of fluid transfer solution products & services. We build long-term relationships with our current & potential customers by consistently providing proven high-quality products & services, whenever they are needed.

QUALITY STANDARD & OTHER ACCREDITATIONS

- ISO 9001-2015
- Boeing approved supplier
- DNV-GL Type Approval
- Lloyds Type Approval
- ABS Type Approval
- Critical supplier to ASC AWD ship builder
- Bureau Veritas Type Approval
- Recognised defence supplier by SA Government
- Technical Support Agency & supplier to ASC (submarines)



PRODUCT

PIRTEK ENDURANCE HOSE



THE NEW PIRTEK ENDURANCE SERIES® HOSE

- Better bend radius & flexibility
- Hose tested to 1 million impulse cycles
- More compact
- Light weight
- Exceeds SAE 100R2AT, R16, SAE 100R 13/15, & EN 2SC standard

ADAPTORS



- Manufacturers identification/mark
- Exceeds minimum requirements to red rust salt spray test
- All common configurations & thread forms

INDUSTRIAL HOSE



- PVC & rubber hose
- Pressure & suction hose
- Air/water & multipurpose
- Wash down & steam
- Oil/Chemical hoses
- Material handling hoses
- Food & beverage
- Radiation/Marine exhaust hoses

STAINLESS STEEL FITTINGS & ADAPTORS



- Marine grade stainless steel
- Extensive range & size
- Material certifications & traceability

HOSE COUPLINGS



- Manufacturers identification/mark
- Exceed minimum requirements to red rust for excellent corrosion resistance
- CR6-free plating
- Batch numbering
- Hose assemblies - A matched system for component integrity

FLEXIBLE METALLIC HOSE



- 316 corrugated stainless steel
- Standard flex and super flex
- Withstands temperatures -270°C to + 816 °C
- Jacketed (Dupex) hoses
- Vibration eliminators
- Braided & non-braided
- AGA approved hoses

HAMLET INSTRUMENTATION FITTINGS & VALVES



- Let-lok twin ferrule tube compression fittings
- Stainless steel & brass
- Imperial & metric ends
- Instrument & process valves
- Ball, needle & toggle valves

SSKV



- Superior pressure & life cycle performance
- High and low pressure variants
- Stapleless and easy assembly - no tools required
- Exceeds MDG 41 requirements
- Slim outside diameter

HIGH & LOW PRESSURE BALL VALVES



- Designed for utmost performance & reliability
- Large range of port sizes & configurations including lockable
- Brass, forged steel, stainless steel
- Water, air, gas, chemical & petroleum applications

DIFFUSION ABRASIVE SLEEVE



- Pin hole oil retention capabilities
- Continuous nylon fibre, abrasion resistant to ISO 6945 standard & tested to over 50,000 cycles

STAINLESS STEEL BRAIDED PTFE HOSE



- Inert to most chemicals, acids, solvents & petroleum fluids
- Withstands continuous flexing, vibration & impulsing
- Impervious to weather & will not age during service
- Temperature range -54°C to +230°C

THERMOPLASTIC



- Working pressures up to 10,000 psi
- Broad range of hoses for hydraulic, pneumatic & specialty applications
- Outstanding kink resistance
- Longer service life
- Flame resistant, self-extinguishing range

HOSE REELS



- Plastic, steel & stainless
- Air, water, fuel, grease, oil
- Pneumatic, electric or hydraulic drive options
- Various reel capacities

PNEUMATIC PRODUCTS



- Genuine Nitto Cupla products
- Quick connect pneumatic couplers
- Unique tolerance for precision connections
- Safety lock connections
- Includes - coiled hose, manifolds & accessories
- Stainless steel & brass high pressure couplings

ENVIRONMENTAL PRODUCTS



- Range of spill response kits & products to cater for most spills
- General purpose for petroleum hydrocarbon spills
- Hydrocarbon for spills on water
- Hazchem for hazardous & aggressive chemicals
- Variety of pads, pillows, socks & booms
- High absorbent, environmentally friendly floor sweeps

SERVICE & TESTING

HYDROSTATIC, DESTRUCTION (FAILURE) & LEAKAGE PRESSURE TESTING



- Hose/pipe assembly, fittings and valve pressure testing up to 65,000 PSI/450,000 Kpa
- Various test mediums available: Emulsion, Potable Water, Pneumatic and Nitrogen
- Multiple testing stations including large volume capability
- Results recorded in real-time to permit analysis of values and graphs

PRESSURE GAUGE CALIBRATION



- Pressure Gauge calibration up to 72,500 PSI/500,000 KPa
- Accuracy: 0.02% of reading
- DKD/NATA – Calibration certified for traceability of measuring results required by DIN, EN, ISO 9001 and ISO/IEC 17 025
- Also able to calibrate: Transmitters, Monometers and Transducers

METAL ALLOY ANALYSIS



- Positive Material Identification
- Mobile Spectrometer for mobile, fast and accurate analysis of Metal Alloys (including Light Elements)
- Non-destructive (X-ray) test that doesn't alter or deface sample
- Ability to test wire strands as fine as 1mm, rods, finished welds, bolts/rivets/fasteners and completed fabricated assemblies
- Onsite use in industries such as; manufacturing, marine, mining, scrap metal
- Results recorded in real-time to permit analysis of values and graphs
- Photographs taken with in-built CCD – Charge Coupled Device camera analysis
- Licensed and trained operators

HARDNESS TESTING



- Universal Hardness Tester & Durometer to test the hardness of specimens including rubber
- Universal Conversion capabilities – Vickers, Brinell and Ultimate Tensile Strength (UTS)
- Fully automatic test cycle eliminating operator influence on test results
- Capable of testing large quantities and calculating statistics, average, range and batch sizes

CLEANING



- All hoses internally cleaned with projectile
- All assemblies capped for protection after cleaning
- Other cleaning methods available



IMPULSE TESTING



- State of the art PLC Impulse test rig to run automatic test cycles with software capable of adjusting the tests to client custom specifications
- Impulse tests on hose assemblies and adaptors with or without linear flexing according to the following norms:
- Test up to 6 hose assemblies (in unison) up to 10,000 PSI/70,000 Kpa and 150°C
- Results recorded in real-time to permit analysis of values and graphs

FIRE RESISTANT & ANTI STATIC (FRAS) TESTING



- Flame Resistance and Electrical Conductivity tests are environmentally controlled for accurate results
- Hose testing to Australian Standards AS 1180.10B & AS 1180.13A

SALT SPRAY TESTING



- An accelerated corrosion environment simulator used to simulate a Salt and Dry corrosion affected environment
- Possible Tests:
 - Dry Corrosion Test (UNICHIM)
 - Continuous Spray-type (ASTM B117)
 - Alternate Spray-type (adjustable timer) according to DIN standards
 - Prohesion test
- Fully automatic and programmable features such as; temperature and humidity to suit client custom specifications

ABRASION TESTING



- Measuring abrasion resistance of outer cover rubber & PVC hoses, pipes, plates and manifolds
- Complies with following standards; GB/T12721 and ISO 6945
- Adjustable weight (force) and number of cycles to suit client custom specifications
- Multiple specimens can be tested simultaneously
- Specimens can be flat or curved