

# PAL Packaged Pump Systems

*PAL*

**PEERLESS AUSTRALIA**

LEADERS IN PACKAGED PUMP SYSTEMS



## What do we do?

- **Consulting**
- **Engineering**
- **Assembly**
- **Testing**
- **Supply**
- **Commissioning**
- **Maintenance**

## Overview

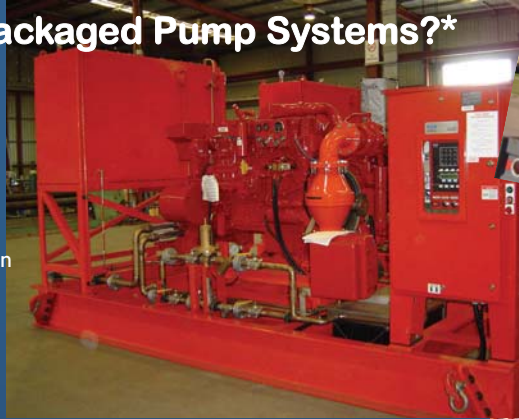
- Leaders in specialised and sophisticated fire pump packages complying with FM/UL NFPA-20, all Hazardous Area Classification and EEMUA requirements.
- Package designers of all types of pumps centrifugal and reciprocating types for oil and gas industry , specializing in pumps complying with API, ANSI, ISO and other standards.
- Suppliers of vertical, horizontal and reciprocating pumps to mining, oil and gas, building and general industries.
- Repairers, installers and support service providers for all pumping equipment.
- Consultants for pump specification, system design, installation and trouble shooting

## Major Industries Served

- Oil & Gas
- Mining
- Petrochemical
- Process Engineering
- Energy
- Construction & Building
- Manufacturing
- Agriculture

## Why Opt for the PAL Packaged Pump Systems?\*

- ISO certified facility
- Third party certification
- Certified welders
- Certified fire sprinkler installation
- Certified electricians
- NFPA 70 - NEC
- AutoCad design systems
- Testing facility



## Features

- ISO 9000 Certified Fabrication Facility
- ISO 9000 certified Manufacturing Facility
- Listing by Underwriters Laboratories (UL) / Factory Mutual (FM)
- State of the Art Engineering Designs
- NFPA-70 and NEC ABS Certification
- Worldwide Technical Support
- Third party certification by International surveyors including BV, DNV, Lloyds, SGS etc.

## Third party Certification for Offshore Fire Pump Systems

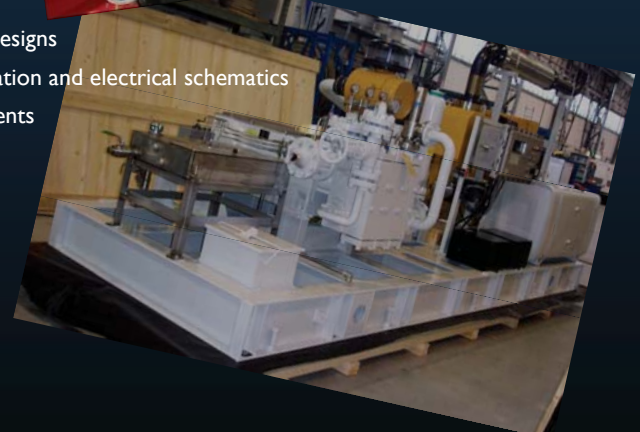
- PAL can design an offshore fire pump system with any certification for floating offshore facilities
- These systems can also be built to Underwriters Laboratories standard for non-hazardous & hazardous area classifications

## Unit responsibility

- Complete unit responsibility
- Complete engineering design services
- All available components are either UL or FM
- All components are supplied by the pump manufacturer
- Sub suppliers data coordination by the pump manufacturer
- No "finger pointing" over warranty issues

## State-of-the-art engineering designs

- Dedicated engineering specialists in fire pump packages and enclosure designs
- Provides full range of general arrangement drawings, piping, instrumentation and electrical schematics
- Ability to provide customized designs to meet the customers requirements
- All plans and specifications are reviewed by the pump packaging group



## Major Vendor Lines

- Peerless Pumps, USA
- Peroni Pumps, Italy
- Caterpillar Engines, USA
- Cummins Engines, USA
- Detroit Engines, USA
- Cutler Hammar Controls, USA
- Firetrol, USA
- Amot, USA
- Autocator, USA
- Test Pneumatic Control Systems, USA
- Pyroban, UK

## Reduced unit installation costs

- Reduces the overall installation time
- Minimizes field labor
- Minimizes the site mechanical and electrical wiring costs
- Eliminates the need for trained personnel for mechanical and electrical work
- Eliminates cost overrides due to incorrect installation

## Factory testing

- The fire pump diesel engine and controllers are tested by their respective factories
- The packaged systems are hydrostatically tested to ensure piping integrity
- An electrical test is performed to verify the function of each component.
- By taking the system approach to a pump package design, important safety features are integrated into the system
- Performance Testing
- Functional Testing of the package
- Hydrostatic Testing
- String Testing
- ND Testing - Magnetic particle, Ultrasonic, Dye penetration & X-Ray

## Value-added services

- Single source procurement for the complete fire pump system - one purchase order
- Single point of contact
- One schedule for the complete fire pump system
- Worldwide technical and field installation support

## More savings

- Reduces overall installation time
- Minimizes site electrical wiring costs
- Minimizes expensive field labor costs
- Eliminates costs due to incorrect installation
- Eliminates the need for trained electrical and mechanical installation experts

\* Based on requirements outlined features may vary; please check if in doubt

For more details & to download our presentation: [www.PeerlessAustralia.com.au](http://www.PeerlessAustralia.com.au)



## Clientele (Partial List)

Our products and services have been used by the following companies:

- **ONGC**, India 4WPP Platform Complex - one unit of vertical fire pump in duplex SS with Cat 3406 diesel engine, air start with hydraulic backup and pneumatic controller complying with EEMUA (2006).
- **Korean National Oil Company (KNOC)** - two units of vertical fire pumps in duplex SS with Cat 3412 diesel engines and electric controllers (2006).
- **Shell Fiji** - one unit vertical engine drive firewater pump (2006).
- **CACT China** - one unit of vertical fire pump in Nickel Aluminium Bronze with Cat 3406 DIT and electric controllers complying with class 1, div 2 (2005).
- **International Power Company, Hazelwood Power Station** - Large 48" cooling water pumps (2005).
- **Nikko Resources/Hazira Platforms offshore India** - two units of vertical fire pumps in NI-AL-BRZ (2003).
- **MNW Platform** - fire pump with diesel engine, complying with EEMUA specification in Duplex SS and utility submersible pump in duplex SS (2003).
- **JVPC, Worley** - single unit vertical fire pump with Caterpillar Engine and NI-AL-BRZ Pump complying with class 1, div 2 (2002).
- **New Zealand Refining Company**, New Zealand - one unit vertical fire pump in Nickel Aluminium Bronze (2002).
- **BHP Australia** - two units of horizontal API Smelter Cooling Water Pumps (2002).
- **Samsung/CTOC/Cakerwala Process Complex** - is an offshore platform in South China Sea and is the largest process platform built in the region. Two vertical fire pumps in Ni-AL-Brz/K-monel, 1150HP CAT 3508 DITA Engine, Amarillo Gear, Autocator Pneumatic Controller complying with EEMUA (2001).
- **Unocal Thailand** - two fire pumps and one Spray Water pump with CAT 3412 DITA with NI-AL-BRZ bowl, phenolic coated column and head (2001).
- **Melbourne Port** - vertical fire pump in NI-AL-BRZ, with K-Monel shaft and bolting (2001).
- **Clough/Cairn Energy, Lakshmi Project India** - four units of fire pumps and two units of jockey pumps in 316 L with Cummins Engine (2001).
- **Worsley Alumina / GEC Alsthom Australia** in Australia - three boiler re-circulation pumps for co-generation plant (2001)
- **ONGC, India** - one unit of Float fire pump 20HXB-3 stages in Ni-Resist-D2 (1998).
- **ONGC, India** - one unit of Float fire pump 16MC-4 stages in Ni-Resist-D2 (1999).
- **ONGC India Offshore Platforms** - 13 units of Submersible utility water pumps in Duplex SS.
- **Apache Energy Stag Platform Western Australia** - 12 units of vertical and submersible pumps in Ni-AL-Brz.
- **Renison Mines Tasmania** - 10 units of Horizontal multi-stage Mine Dewatering pumps.
- **Thames water, Australia** - 32 ANSI process pumps in 316 SS/Cast Iron construction.
- **Western Mining Corporation Rocksby Down Uranium Mine** - special ANSI process pump in patented R-55 material.
- **CSBP Western Australia** - ANSI Process pumps for Cyanide Plant.
- **Chevron (WAPET)** - two ANSI process pumps.
- **Central Coal Fields India Ltd** , Ranchi, India - Mine dewatering pumps, mining cables.
- **Paradeep Chemicals India** - ANSI Process pumps.
- **Mountain Power Station Libya/Gunnebo Steelage** - large engine driven and 6.6 kv motor driven FM/ UL listed large fire pumps and jockey pumps with controllers and accessories.
- **Building industry in Australia, New Zealand and neighbouring countries** - large number of NFPA 20, FM/UL horizontal fire pumps.
- **Edgell Tasmania, Australia** - seven units of large 316 SS mixed-flow pumps for food processing.
- **Western Mining/Contractor** - two large horizontal API end suction pumps for dewatering.

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