

PRESSURE An engineering and maintenance in delivering electro-hydraulic and lifting solutions to the Defence industry. With facilities and resources across Western Australia and the Northern Territory, we are well positioned to support our Defence clients with highly skilled project managers, engineers and technicians along with necessary equipment and parts to complete simple and complex works.

PRODUCTS & SERVICES



SPECIALISATIONS

Fluid Power

Controls Systems and Equipment

Electromechanical Drive Systems and Equipment

Auxiliary Marine Systems and Equipment

Lubrication, Fluid Transfer and Chemical Injection

Cranes & Liftin

	Cranes	Pedestal	Overhead / Gantry	Jib
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Crane and Lifting Equipment Maintenance and Inspection

Routine and Preventative Maintenance

Optimisation

Structural Analysis and Life Extension Studies

Lift Planning and Engineering

Producte

Hydraulic Products and Components

Specialist, Hydraulic, Industrial, & Utility Hose Assemblies, Couplings, Fittings, and Adaptors

Hose Testing - NATA Certified

Hydraulic Equipment and Tool HIre

BENDER & MINI-ME MAN-RIDING WINCHES

Pressure Dynamics is the Original Equipment Manufacturer of the Bender and Mini-Me Man-Riding Winches utilised at the Harold E. Holt Naval Communication Station, which is operated and maintained by the Australian Department of Defence on behalf of Australia and the US.

The winches are used to lift personnel safely and reliably to the top of the radio towers for the very low frequency (VLF) radio transmission system, which range from 304m to 364m to 387m high.

Between 2014 & 2016 we refurbished the man-riding winches to an as-new condition, also executing PLC controls upgrades, and a digital operations display and alarms system.

Pressure Dynamics continues to inspect, maintain, and repair the man-riding winches for optimum condition and operations for Raytheon Australia



HMAS WESTRALIA

Pressure Dynamics executed significant works for HMAS Westralia, including manufacture of its RAS Winch, and modification of the BD Troughing and AT Winches.

Numerous Hydraulic Power Units (HPUs) were supplied for the vessel refurbishment.

Over numerous years we inspected, maintained, and repaired boat davit systems, winches and capstans, RAST (Recovery Assist, Securing and Traversing) systems, fin stabilising systems, ships steering systems and Controllable Pitch Propellers (CPPs).

Further works executed included maintenance and calibration of gauge panels, renewal of instrument and control air lines, and the flushing, filtration, and pressure testing of hydraulic circuits.

NT DEFENSE BASES

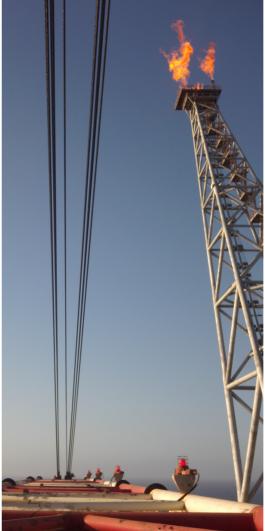
Pressure Dynamics inspect, maintain, and repair all Cranes and Lifting Devices for the NT Defence Bases; subcontracted by Defence Base nfrastructure manager Ventia.

We conduct Preventative Maintenance, Reactive Maintenance, and Asset Projects works on the cranes and lifting devices – predominantly Overhead and Gantry Cranes – extending to vehicle hoists, jib cranes, scissors lifts and EWPs, winches, and a ship lift.

Project works have included the supply and installation of an overhead crane, and the as-new refurbishment of a vehicle hoist.







DIFFERENTIATORS

Marine vessels and facilities expertise and experience in Oil & Gas, Mining, & Commercial sectors

Largest, independent Fluid Power, and Cranes & Lifting Engineering team in Australia

Largest, independent Fluid Power, and Cranes & Lifting Technicians resource team in Australia

Complete Asset Management life-cycle capability

Network of custom-purpose Fluid Power, and Cranes & Lifting workshops in Western Australia and Northern Territory Perth | Karratha Industrial Estate | Bunbury | Darwin

Exclusive or preferential specialist OEM materials and equipment Distributorships

Extensive hire equipment fleet and mobile workshop containers to execute Fluid Power, and Cranes & Lifting work scopes and projects offshore, nationally, and internationally

Network of Fluid Power, and Cranes & Lifting partners across Australia

Facility, workshop, and equipment access nation-wide, and especially - Sydney | Adelaide | Brisbane | Cairns | Derby (Broome)

3D Static and Mobile Scanning of Assets for Point Cloud Data - subsequent modelling toolsets

Multi-functional 'Digital Twin' Modelling, Simulation, Analysis & Troubleshooting technologies

Condition Monitoring (and Machine Learning)

PRESSURE DYNAMICS HAS ALSO

Manufactured 2 Torpedo Recovery Units, for Defence.

Manufactured and maintained various equipment for Submarine Rescue systems, for JFD Limited.

Supplied specialist componentry and hose assemblies and fittings to Defence Primes for >40 years.



KEY CLIENTS

Defence (& Marine)	Energy	Mining
Ventia NT Defence Bases Asset Management	Woodside Energy	Alcoa
Raytheon Man Riding Winches	Inpex Australia	Rio Tinto
JFD Limited Submarine Rescue	Chevron	FMG
Total Marine Technology SEA1354 Submarine Rescue	Shell Australia	Glencore
Thales	BHP Petroleum	ВНР
Wärtsilä Corporation	Jadestone Energy	South32
	Upstream Production Solutions	Newmont

KEY PARTNERS

Collaborators	Distributorships		
Safespear Indigenous Partner – Personnel, Lifting & Rigging Materials, Hazardous Area Enclosures	Altra Industrial Motion	Parker Premier Distributor	
National Energy Resources Australia (NERA) Machine Learning for Hydraulic Systems R&D project	Stauff	Manuli	
Subsea Innovation Cluster Australia	Parker Hannifin	Elaflex	
Hydrogen Technology Cluster Australia (H2TCA) elnnovations (Norway)	Hydac	Exatech	
Alliance Automation (NT / National)	Bosch Rexroth	Alfagomma	
	Danfoss	GH Cranes	
	Eaton	Hydroil	

ISO 17025:2017
Certified by NATA
IZ Accreditation # 19298
O Hose Assemblies | Pressure Fittin

400LL 17 ASSURANCE & AUCREDIATIONS
18O 9001-2015
Certified by DNV GL
Certificate # 278953-2018-AQ-AUS-JAS-ANZ

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