



PACIFIC MARINE GROUP PTY LTD
AUSTRALIA

Capability Statement



is proud to be accredited under the
Australian Government Building and
Construction WHS Accreditation Scheme.

AS/NZS ISO 9001
AS/NZS 4801
OSHA 19001
AS/NZS ISO 14001
BUREAU VERITAS
Certification



www.pacificmarinegroup.com.au



Contents

- | | |
|------------------------------------|--------------------------------------|
| 04 Introduction | 18 Moorings |
| 06 Company Overview | 20 Equipment – Tugs / Supply Vessels |
| 08 Marine Construction | 22 Equipment – Barges |
| 10 Marine Support & Vessel Charter | 24 Equipment – Work Boats |
| 12 Project Logistics | 25 Equipment – Ancillary |
| 14 Commercial Diving | |



"To be recognised as the best provider of a range of marine contracting and commercial diving services in Queensland and the Pacific Rim."

Our Mission Statement



Introduction

Pacific Marine Group Pty Ltd was established in 1986 in Bowen, North Queensland and has been a leader in the Marine and Commercial Diving Industries in Queensland for over 25 years.

Now based in Townsville, North Queensland, Pacific Marine Group specialises in the following areas:

- Marine Construction
- Tug and barge services
- Marine Plant / Vessel Hire
- Commercial Diving
- Towage
- Salvage
- Fender / Brow Hire
- Fabrication
- Mooring Installation

Every job that Pacific Marine Group accepts is carried out in accordance with the relevant statutory regulations, including but not limited to:

- Queensland Work Health & Safety Act 2011, and Work Health & Safety Regulation 2011
- AS/NZS 2299.1:2015 for Occupational Diving
- Maritime Safety Queensland regulations

Divers employed by Pacific Marine Group all have Australian Diver Accreditation Scheme (ADAS) cards and are qualified to Part II or higher of the AS2815 training standard.

Pacific Marine Group has in place all relevant company insurances including Public Liability, Worker's Compensation and relevant marine policies. The Company also holds Public Liability Insurance in Papua New Guinea.

Company Overview

AS/NZS ISO 9001
AS/NZS 4801
OHSAS 18001
AS/NZS ISO 14001
BUREAU VERITAS
Certification



It is the objective of this company to be the preferred supplier of our range of services by providing the most attractive level of product, quality, service and price. In order to achieve this, Pacific Marine Group has an internationally accredited Quality System whereby all Company procedures, equipment and staff conform to the requirements established for a quality system by the AS/NZS ISO 9001: 2015 Standard.

Safety Statement

Pacific Marine Group has a goal to provide an injury and incident free workplace for all its employees. To achieve this we have a third party accredited Safety Management System certified to AS/NZS 4801:2001, as well as International Safety Standard OHSAS 18001:2007. We are also accredited under the Australian Government Building and Construction Workplace Health and Safety Accreditation Scheme.

Environmental Statement

In all projects we complete we aim to achieve and demonstrate sound environmental performance by controlling and monitoring

the impact of our activities, products and services on the environment. To achieve this we have a third party accredited Environmental Management System certified to AS/NZS ISO 14001: 2015.

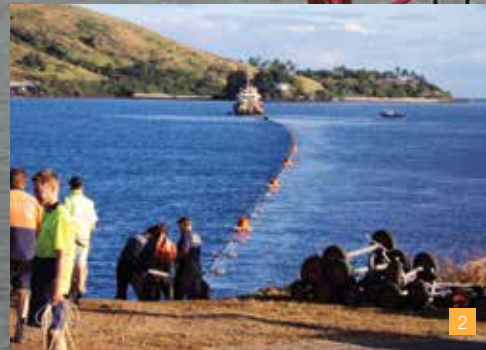
Physical, Financial & Human Resources

Pacific Marine Group operate out of a state-of-the-art marine complex located at the mouth of Ross River in Townsville. The facility includes 400m of water frontage – vessel and barge loading, mooring berths, over 20,000m² of hardstand, 3000m² of office and workshop, blast and paint facility, 200T crane capacity wharf and a barge ramp.

"Pacific Marine Group is on call 24 hours a day."

Services able to be delivered out of the new facility include project lay down, barge and vessel fit out and loading, repair and maintenance options for fabricators, fitters, blast and paint work, electricians and labourers, as well as tug and barge services and Commercial Diving services.





Main Image Piling Amrun project, Weipa **Thumbnails** 1. Remote area navigational aid refurbishment, Hydrographers Passage 2. HDPE pipeline install Hamilton to Dent Island, Whitsundays 3. Epoxy pile splinting at Weipa for Rio Tinto 4. Dredging, Port of Townsville 5. Abbot Point materials off loading facility (MOF) design & construction 6. Rock wall construction, Hammond Island 7. Sugar export jetty refurbishment, Lucinda 8. Fresh water pumping pontoon system design, fabrication and installation, Mt Isa 9. 5km long 550mm diameter HDPE buried water pipeline, Townsville to Magnetic Island 10. Piling Amrun project, Weipa

Marine Construction

Pacific Marine Group has a long history of completing complex, one-off remote marine projects. Our extensive vessel fleet and experienced project team, coupled with our modern marine facility and in-house design and fabrication, fitters, blasters and painters and electricians, means we can configure barges and tugs to exact project requirements, in a very timely fashion, with minimal reliance on outside contractors.

Our Construction Team and Project Managers are experienced in most forms of marine construction, and all projects are completed in accordance with our accredited ISO 9001:2015 Quality System.

Projects typically undertaken include:

- Navigation Aid
Fabrication / Installation / Maintenance
- Piling works
- Wharf / jetty construction
- Marine Structure Demolition
- Site blasting / painting / pile wrapping
- Dredging
- Subsea pipeline construction





Main Image Berth 6/7 demolition, Townsville Port **Thumbnails** 1. South Molle Island jetty demolition (Shute Harbour)
2. Loves Jetty demolition, Mackay Port 3. Berthing Dolphin demolition, Weipa 4. Lucinda Jetty partial demolition

Marine Structure Demolition

The demolition of Marine Structures has evolved to core business for Pacific Marine Group in recent years.

We have developed innovative equipment and procedures to enable all manner of Marine Structures to be demolished safely, efficiently, cost effectively, and in an environmentally responsible manner.

All marine demolition projects are different, and Pacific Marine Group have the ability to reconfigure barges and other floating plant, to suit the exact job.

All demolition jobs are completed in accordance with our accredited ISO 9001: 2015 Quality System, AS/NZS 4801:2001 Safety Management System, and AS/NZSISO14001:2015 Environmental Management System.

Demolition capabilities include:

- Concrete deck removal by saw cutting / diamond wire cutting
- Concrete deck removal by hydraulic shears - reduction to rubble, full capture of rubble
- Pile extraction – various methods including vibrohammer, jetting, driving oversleeve etc.
- Pile cutoff above / below water
- Seabed cleanup by diving / dredging
- Timber structure removal





We have a large fleet of vessels and barges available for charter

Marine Support & Vessel Charter Services

Core business for Pacific Marine Group is, the supply of marine plant – typically flat top barges, tugs, work boats, dive support vessels, and crew transfer vessels, both crewed and non-crewed, for projects including but not limited to:

- General tug and barge charters
- Construction
- Towage
- Dredging
- Dive support
- Buoy Deployment
- Accommodation and project support
- Ship resupply/repairs
- Navigation Aid repair/deployment
- Salvage
- Geotechnical drilling/sampling
- Marine Research



Main Image Wreck Hydrocarbon removal, Micronesia (PMG Pride) **Top Left** Helicopter Resupply for PMG Pride, Coral Sea. **Above** 1. Buoy deployment / servicing (PMG Pride) 2. General barge towage / tandem barge towage (PMG Pride) 3. Salvage / wreck removal, Whitsundays (Sheerlegs & PMG1) 4. Barge beach landing, Willis Island (PMG121) 5. Salvage - Gloucester Island, Whitsundays 6. Plane salvage, Norfolk Island

Project Logistics

PMG specialises in project logistics – getting project cargo to where it needs to be. We offer:

- Heavy roll on/roll off (RORO) barge services
- Use of our marine facility – hardstand for project laydown / crane pad / barge ramp
- Craning and loading of barges
- Cargo seafastening installation
- Lashing design and tow surveys
- Barge reconfiguration to suit project needs – sidewalls / doors / winches etc.
- On site steel module repairs / paint repair prior to shipping



Main Image Stacker reclaimer loading, Port of Townsville **Thumbnails** 1. Roll off, Half Tide tug harbour 2. Stacker reclaimer slew deck/C-frame 3. Ship to barge loading, Mackay Port 4. Willis Island barge delivery 5. Heavy Roll on, Port of Townsville 6. Hay Point HP 3 deck unit loading at PMG Townsville marine facility 7. Project cargo delivery by tug & barge to PNG





Our commercial diving division is able to support complex, remote, large scale diving programs.

Commercial Diving

Pacific Marine Group was started in 1986 as a small commercial diving company based in Bowen, Qld. Now, over 25 years later, our commercial diving division has evolved into a leader in the commercial diving field in Australia, able to support complex, remote, large scale diving programs. Commercial diving in the modern workplace is a highly regulated and therefore highly controlled activity. We operate under well documented Safety, Quality, and

Project Management Systems as required by most Government and Private Industry clients. Pacific Marine Group was one of the first diving companies in Australia to gain ISO9001 Quality accreditation, and carries **full WorkCover insurance** for all employees (a useful comparison to make with smaller scale dive companies), as well as \$50M Public Liability Insurance, and all necessary Contract Works and Equipment insurances.

Compliance

Pacific Marine Group performs all dive work in accordance with AS/NZS 2299.1:2015 Standard for Occupational Diving, and all dive personnel are trained to ADAS Part 2 or higher levels, in accordance with AS 2815.

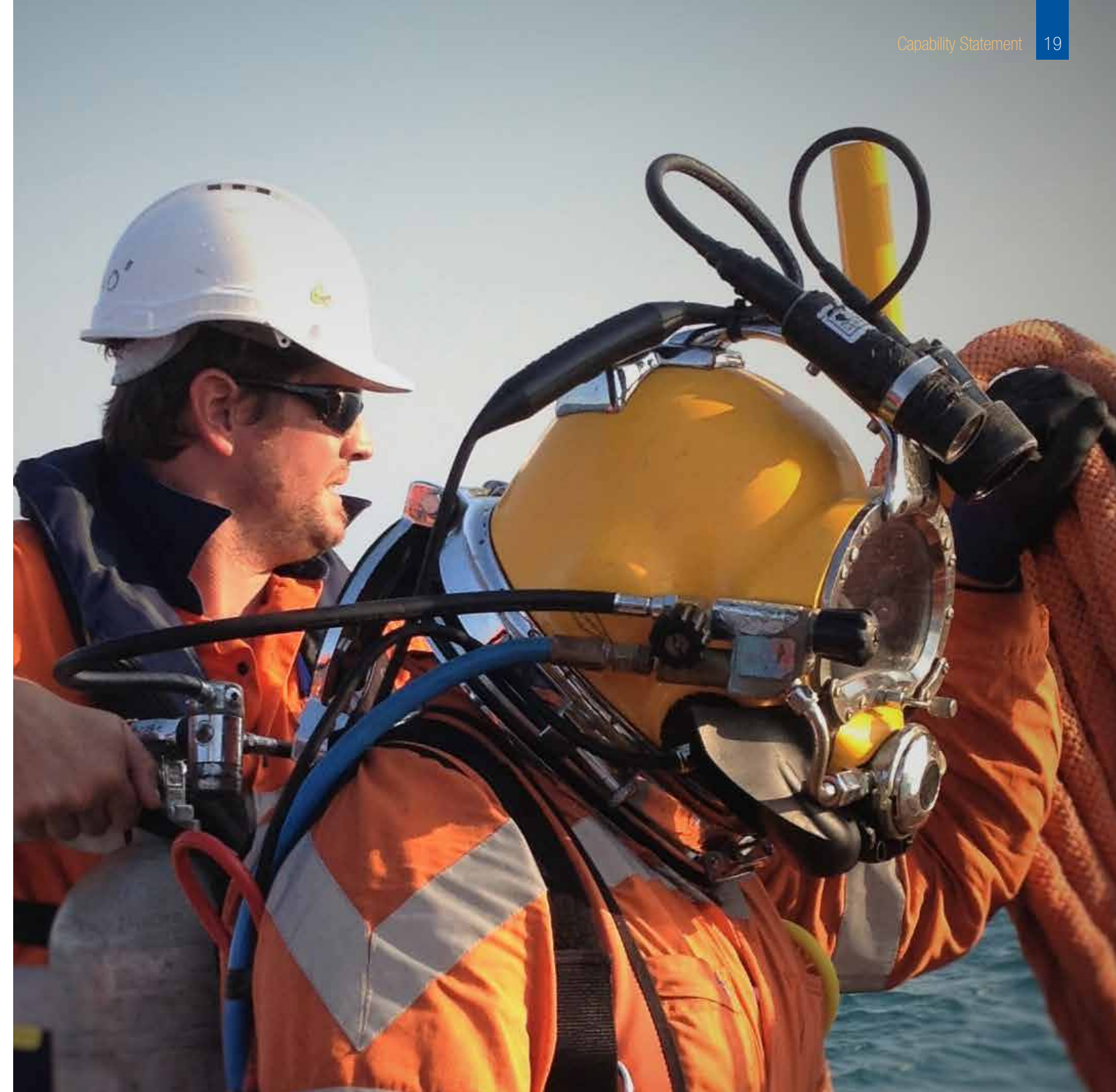
Water Inspection Certifications

We carry in water inspection certifications from all major shipping class societies including Det Norske Veritas, Nippon Kaiji Kyokai, Lloyds Register, Germanischer Lloyd, American Bureau of Shipping, and Bureau Veritas. We also carry GBRMPA permits to allow propeller polishing off Hay Point / Dalrymple Bay.

All dive projects are supported by Pacific Marine Group's experienced team of Project Managers, Marine Crew, Fabricators, Fitters and Technicians.

Typical works carried out include:

- Underwater construction
- Class society In Water Inspections
- Underwater cutting and welding
- Large scale underwater inspection campaigns for offshore and onshore facilities – wharves / jetties / export facilities / offshore platforms
- Non-Destructive Testing
- Contaminated water diving
- Seabed surveys
- Propeller polishing
- Oilfield / Offshore Inspection / Maintenance
- SPM maintenance, floating hose change-outs
- Ship repairs
- Pipeline inspections and repairs
- Salvage
- Geotechnical drilling/sampling
- Marine Research



Commercial Diving

Main Image Anode installation for BMA, Hay Point. Close Visual and General Visual Inspections, Video Survey, Cathodic Protection Measurements, Ultrasonic Thickness Measurements

Left 1 & 3. Underwater inspection and repair program in Weipa on the Mission River Bridge for Rio Tinto. Up to 20 divers per campaign over a 15 year period. **2.** Denso installation **4.** Pile inspection repair from remote vessel (Lisa Lee) crocodile protection cage **5.** ROV (Remote Operated Vehicle) top-side setup **6.** Moorings installation, Whitsundays **7.** Underwater welding **8.** Underwater Broco cutting SPM (Single Point Mooring), Kumul Platform PNG **Right Image** Hay Point HPx3 project diving



1



2



3

Main Image Grouted Screw Mooring (GSM) installation on the Great Barrier Reef **Thumbnails** 1. GSM being installed 2. GSM ready for Riser to be installed 3. GSM core steel with concrete yet to be added 4 & 5. Cyclone Moorings being installed at Hay Point and Abbot Point **Illustration** GSM layout sketch

Moorings

Cyclone Moorings

Pacific Marine Group is experienced in cyclone mooring installation, maintenance, and removal where required. We have completed a number of large scale cyclone mooring projects, typically for large scale dredging and construction projects, using anchors in the 2T – 8T range, and chains in the 40mm – 80mm size.

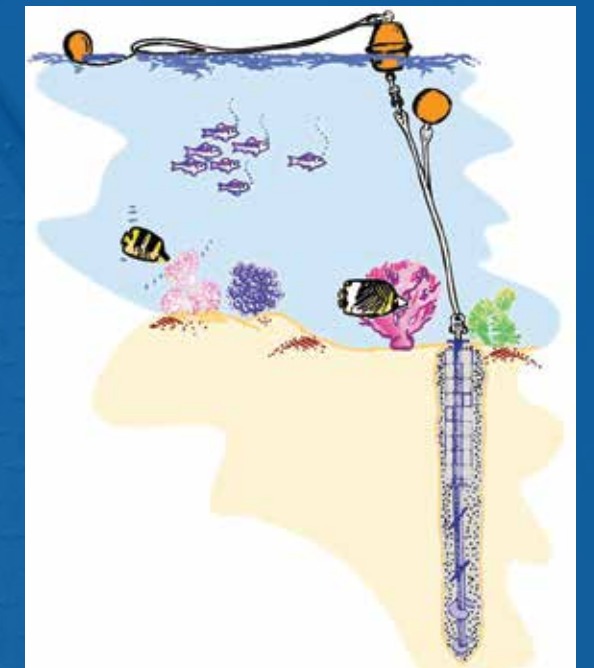
Grouted Screw Moorings

In addition to cyclone moorings, Pacific Marine Group has developed an eco-friendly Grouted Screw Mooring (GSM) system. The system has been developed in conjunction with James Cook University and an international patent is held by Pacific Marine Group for this system. Over 300 GSM's have been installed along the Great Barrier Reef, Whitsunday Islands, Rowley Shoals (WA), Ashmore Reef (WA) and as far as Hawaii.

Grouted Screw Moorings Installation Process

Divers use an underwater drill rig to screw a 4m long screw shaft into the seabed. As drilling occurs, grout is pumped out through the lead

helix (tip), resulting in a 4m deep, 600mm concrete column. Once the concrete is set, a pad eye is bolted on and the rigging attached. The system is typically used for vessels up to 35m / 300T, but larger vessels can be accommodated with the use of "Tri" moorings. Essentially three GSM's linked together with a common pad eye.



4



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Mackay Shipyard

Pacific Marine Group own and operate Mackay Shipyard. This slipway has been servicing the Mackay and Whitsunday region for over 20 years. The slipway can accommodate vessels up to 600T, 50m long and typically up to 18m beam.

Services include:

- High pressure water wash-down
- Abrasive blasting with garnet
- Ultra high pressure water blasting
- Airless spray painting including removal and application of antifouling
- Hull repairs in steel, aluminium and timber
- Fitting and machining work on shafts, stern gear, engine room machinery, deck equipment, etc.
- General steel and pipe-work
- Tradesmen and labour for afloat repairs
- Full range of underwater services including repairs, class and insurance surveys, etc.



Equipment

Tugs / Supply Vessels



'PMG Emerald'

Utility vessel for offshore support operations
41.8m length, 10m beam, 2 x 1400 HP, 10 knots,
Bollard pull 36.5T, 90T brake capacity towing
winch/36T line pull, 20 beds



'PMG Pride'

Utility vessel for offshore support operations
34m length, 8.5m beam, 2 x 550 HP, 10 knots,
Bollard pull 15T, 15T tow winch, 10T A-frame, 20 beds

Tugs / Supply Vessels



'PMG Sailfish'

Harbour tug for various coastal support operations
16m length, 6m beam, 2 x 499 HP, 8 knots,
Bollard pull 13T, 15T towing hook, 6 beds



'PMG Odyssey'

Expedition style aluminium catamaran
24m length, 2 x 420 HP, 3T crane, 2x 5.5m tenders
high quality fitout, 26 beds



'PMG Tarka'

Damen 2609 Tug for coastal support operations
26m length, 9m beam, 2 x 1100 HP, 10 knots,
Bollard pull 30T, 50T towing winch. Removable
Damen dredging ploughing system 25T Aframe



'PMG Harmony'

Tug for various harbour & coastal support
23m length, 8m beam, 2 x 848 HP, 10 knots,
Bollard pull 25T, fire pump 600m³/hr, 8 beds

Project Vessels



Project Vessels

Vessels not currently in our fleet are able to be sourced on a project basis



'Black Panther'

Utility vessel for offshore support operations
24m length, 7.8m beam, 2 x 600 HP, 10 knots,
Bollard pull 15T, 20T towing hook, 10 beds



'PMG Swordfish'

Harbour tug for various coastal support operations
16m length, 6m beam, 2 x 499 HP, 8 knots,
Bollard pull 13T, 15T towing hook, 6 beds

Barges



Project Barges

Barges not currently in our fleet are able to be sourced on a project basis

Equipment

Barges



‘PMG183W’

Flat top deck cargo barge for offshore operations
54m x 21m, 15T/m² deck rating, bow door & side walls available



‘PMG182’

Flat top deck cargo barge for offshore operations
55m x 18m, 15T/m² deck rating, winches available to 15T line pull, bow door & side walls available



‘PMG123’

Steel deck cargo barge, offshore support operations
36m x 12m, 10T/m² deck rating, sister ship to PMG 122, bow door & side walls available



‘PMG122’

Steel deck cargo barge, offshore support operations
36m x 12m, 10T/m² deck rating, bow door & side walls available



‘PMG181’

Flat top deck cargo barge for offshore operations
55m x 18m, 15T/m² deck rating, winches available to 15T line pull, bow door & side walls available



‘PMG151’

Flat top deck cargo barge, offshore operations, 45m x 15m, 15T/m² deck rating



‘PMG121’

Heavy duty construction barge, offshore operations
36m x 12m, 20T/m² deck rating, towing brackets
6 x mooring bollards, bow door & side walls available



‘Sheerlegs’

Crane barge for various offshore support operations
24m x 13m, 75T American pedestal crane, 100T A-frame, 8m³ bucket, bow door & side walls available



‘PMG150’

Flat top deck cargo barge, offshore operations, 45m x 15m, 10T/m² deck rating, 180T crane pad strengthening bow door, side walls & 15T line pull winches available



‘PMG124’

Flat top deck cargo barge for offshore operations
36m x 12m, 15T/m² deck rating, winches available to 15T line pull, bow door & side walls available



Road Transportable Barges 14m

14m x 3.5m barges (two available)
Able to be bolted together



Road Transportable Barges 12m

12m x 3m x 1.2m barges (four available)
Able to be pinned together

Equipment



Construction Punts / Dinghies

Numerous shapes, sizes and specifications



'Samsson 2'

Work Punt
7.5m, 1 x 80 HP Yamaha outboard



Vibro Hammers

ICE44B | ICE416 | ICE23RF
Vibro Hammers



Junttan Hammers

HHK 10/12/14S | HHK 7/9A
or hired as required



Hydraulic Impact Hammer

Dawson HPH4500 double-acting



'Titan'

Work Boat
7.5m, 2 x 140 HP Suzuki outboards



'PMG Coastal'

8.7m Stabcraft, 2x 200 HP Honda outboards,
coastal services, crew transfer, marine support,
barge handling, dive support



Piling Drop Hammers

3T & 7T / 1.2m stroke



3 Gate Piling Frame

Up to 1200mm diameter



2 Gate Hydraulic Piling Frame

450mm – 1200mm pile diameter



'Lisa Lee'

Work boat for various coastal support operations
11.3m, 1 x 250 HP, coastal services, dive support
and small mooring, accommodation for 3 in 1 cabin



'PMG Pusher'

Work boat for various coastal support operations
5.5m, 1 x 150 HP Honda outboard, barge handling
and marine support



2 Gate Hydraulic Piling Frame

450mm – 1000mm pile diameter



80T, 100T & 150T Crawler Cranes

80T 100T 150T Sany Crawler Cranes



180T Crawler Crane

180T Kobelco Crawler Crane

Equipment

Ancillary



Yokohama Fenders

Typically 6m long x 3m diameter



Cyclone Moorings

Complete moorings for hire or sale



Complete Anchor Winch sets

15 / 20T line pull, fairleads, control panels, silenced hydraulic packs to suit requirements



20T Excavators

Komatsu 20T excavators



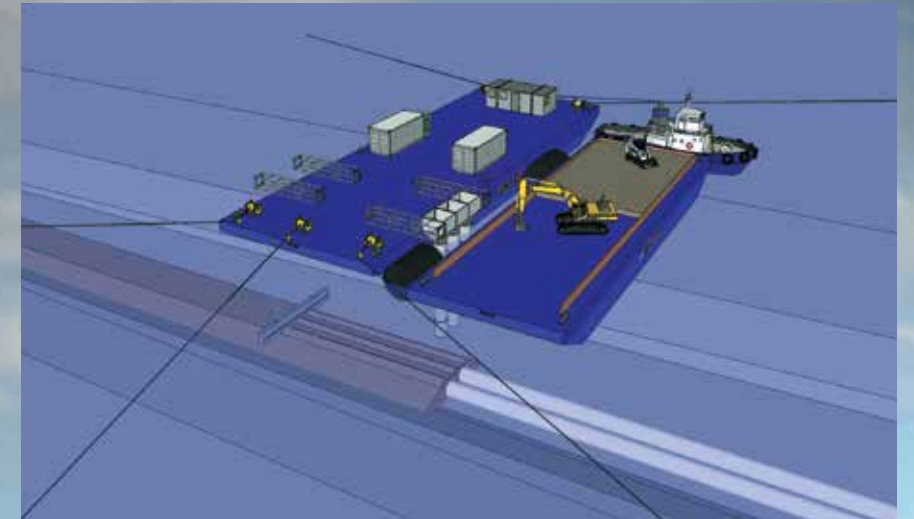
Anchors 2T – 6T

Flipper Delta and other configurations



14T & 25T Cranes

14T & 25T Franna Cranes



Main Image Twin 1200mm gas pipeline rock protection installation, Narrows Crossing Gladstone
Top 3D mockup illustrating installation process and pipeline cross section



Pacific Marine Group

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Towage & Barges | Commercial Diving | Marine Construction | Vessel Hire