PACIFIC MARINE GROUP PTY LTD

AUSTRALIA

Capability Statement

AS/NZS ISO 9001
AS/NZS 4801
OHSAS 18001
AS/NZS ISO 14001

BUREAU VERITAS
Certification

www.pacificmarinegroup.com.au

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"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 2299.1:2007 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

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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: 2008 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.

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: 2004.

Physical, Financial & Human Resources

Pacific Marine Group has just completed construction 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 20,000m^2 of hardstand, 3000m^2 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.

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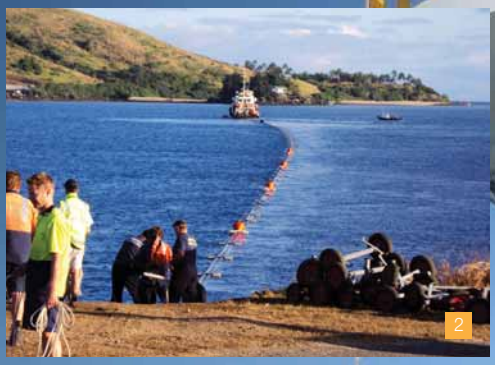
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Main Image Piled beacons installation 1200mm diameter, Weipa Thumbnails 1. Remote area navigational aid refurbishment, Hydrographers Passage 2. HDPE pipeline install Hamilton to Dent Island, Whitsundays 3. Epoxy pile splinting at Weipa for Rio Tinto 4. S/Steel tower installation, Creal Reef 5. Twin 1200mm gas pipeline rock protection installation, Narrows Crossing Gladstone 6. Sugar export jetty refurbishment, Lucinda 7. Fresh water pumping pontoon system design, fabrication and installation, Mt Isa 8. 5km long 550mm diameter HDPE buried water pipeline, Townsville to Magnetic Island

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 9001:2008 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

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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)

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Main Image Loading concrete deck beams for Hay Point HPX3 Thumbnails 1. Loading conveyor galleries 2. Deck beams transport 3. Loading conveyor galleries 4. Project cargo 5. Bulk material transport onboard flat top barge set up with bow door & sidewalls 6. Sea-fastenings installed 7. Project cargo delivery by tug & barge to PNG

Project Logistics

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

- Use of our marine facility – hardstand for project laydown / crane pad / barge ramp
- Cranage 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

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SCUBAPRO

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 $20M Public Liability Insurance, and all necessary Contract Works and Equipment insurances.

Compliance

Pacific Marine Group performs all dive work in accordance with AS/NZS 2299.1:2007 Standard for Occupational Diving, and all dive personnel are trained to ADAS Part 2 or higher levels, in accordance with AS 2815. All offshore diving operations are completed in accordance with our IMCA (International Marine Contractors Association) accreditation.

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

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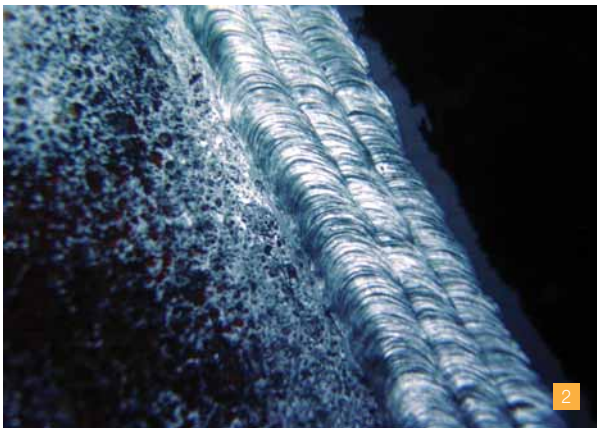
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Commercial **Diving**

Main Image Underwater inspection campaign for BMA, Hay Point. Close Visual and General Visual Inspections, Video Survey, Cathodic Protection Measurements, Ultrasonic Thickness Measurements Left 1. Ship bulbous bow repair, utilised underwater welding repair plates, Solomon Islands 2. Quality of underwater weld produced during bulbous repair 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. 4. Pile inspection repair from remote vessel (Lisa Lee) crocodile protection cage 5. ROV survey, Weipa 6. Underwater NDT (ACFM technique) 7. Kumul Platform inspection and maintenance for Oil Search PNG 8. Underwater Broco cutting SPM (Single Point Mooring), Kumul Platform PNG

Main Image Grouted Screw Mooring installation on the Great Barrier Reef Thumbnails 1. Completed GSM installation 2. GSM prior to rigging being attached 3. GSM removed from the ground during product testing

We have completed a number of large scale cyclone mooring projects, typically for large scale dredging and construction.

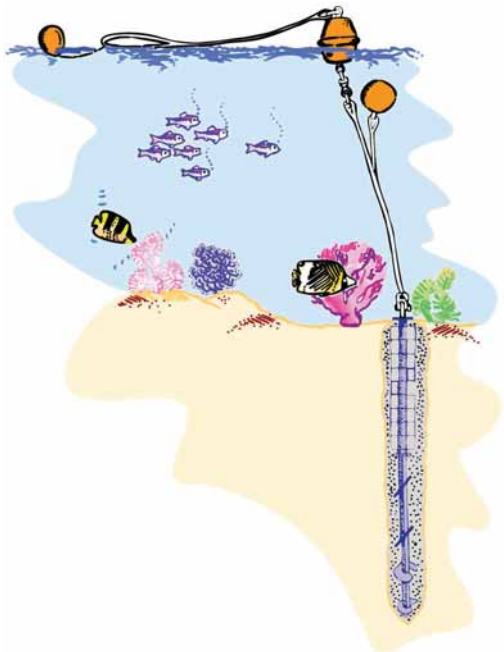
Moorings

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.

Illustration Cyclone moorings installation program for Van Oord, Hay Point
Below GSM about to commence being screwed into seabed

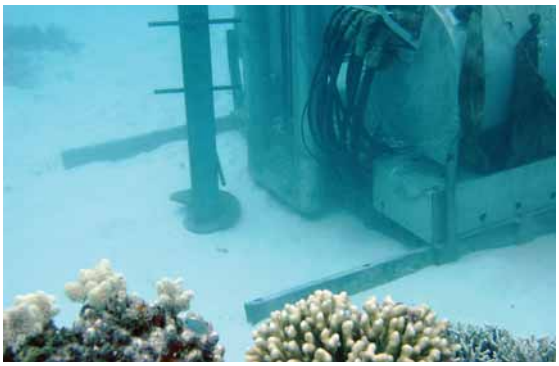
Grouted Screw Moorings

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.



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.



Equipment

Tugs / Supply Vessels

'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

'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

'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

'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

'Acheron'

Tug for various coastal support operations
24m length, 7.3m beam, 2 x 600 HP, 9 knots
Bollard pull 16T, 25T towing hook, 10 beds

Tugs / Supply Vessels

'AR Ford'

Utility vessel for offshore support operations
31.5m length, 8.1m beam, 1 x 750 HP, 11 knots
Bollard pull 10T, 5.5T swivel deck crane, 12 beds

'Terlak'

Deep sea tug for offshore support operations
32m length, 9.8m beam, 2 x 1600 HP, 9 knots,
5T/day, Bollard pull 42T, 12 beds, sister to 'Tukang'

'Tukang'

Deep sea tug for offshore support operations
32m length, 9.8m beam, 2 x 1600 HP, 9 knots,
5T/day, Bollard pull 42T, 12 beds, sister to 'Terlak'

'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

Equipment

Barges

Road Transportable Barges 12m

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

Road Transportable Barges 14m

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

‘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

‘PMG120’

Flat top deck cargo barge for offshore operations
36m x 12m, 7T/m² deck rating, towing bracket
6 x twin bitt bollards, bow door & side walls available

‘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

‘PMG122’

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

Barges

‘PMG123’

Steel deck cargo barge, offshore support operations 36m x 12m, 10T/m² deck rating, sister ship to PMG122, 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

‘PMG180’

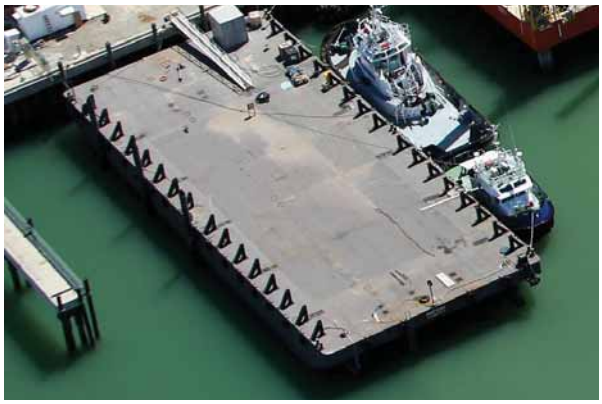
Flat top deck cargo barge for offshore operations 55m x 18m, 15T/m² deck rating, winches available to 15T line pull, bow door & side walls available

‘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

‘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



‘PMG183W’

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

Equipment

Work Boats

Construction Punts / Dinghies

Numerous shapes, sizes and specifications

‘Samsson 2’

Work Punt
7.5m, 1 x 90 HP

‘Titan’

Work Boat
7.5m, 2 x 115 HP

‘Comet’

Steel Workboat
8m, 1 x 120 HP

‘Investigator’

Work boat for various coastal support operations
11.85m, 2 x 330 HP, coastal services, standby, mooring, diving and various marine support

‘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

‘Malkarra’

Work boat for various coastal support operations
14.7m, 1 x 450 HP, towing, standby, mooring and marine support

Ancillary

Vibro Hammer

ICE44B Vibro Hammer

Hydraulic Impact Hammer

Dawson HPH4500 double-acting

Piling Hammer

3.5T / 1.2m stroke

Piling Hammer

7T / 1.2m stroke

Hydraulic Piling Frame

450mm – 1200mm pile diameter

Juutan Hammers

Hired as required

70T Crawler Crane

70T Zoomlion Crawler Crane

150T Crawler Crane

150T Sany Crawler Crane

100T+ Crawler cranes

Hired as required

Equipment

Ancillary

Yokohama Fenders

Typically 6m long x 3m diameter

Complete Anchor Winch sets

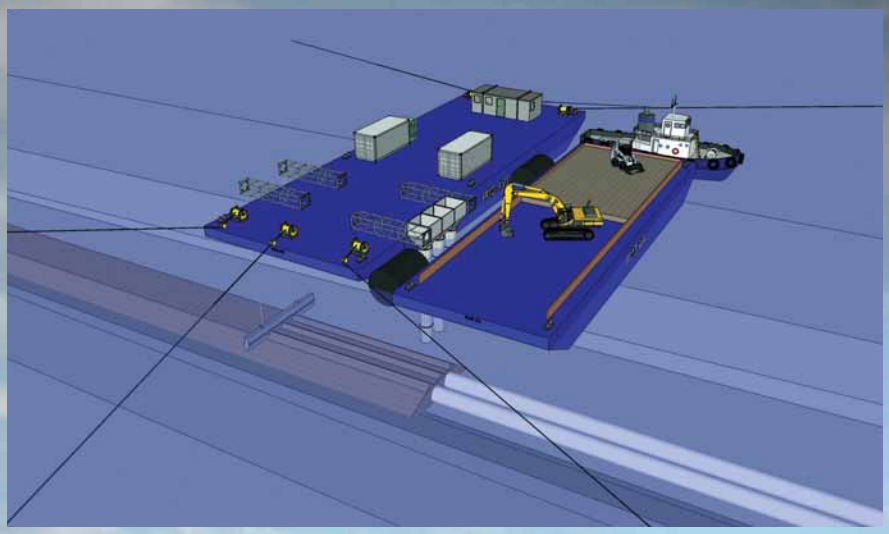
15 / 20T line pull, fairleads, control panels, silenced hydraulic packs to suit requirements

Anchors 2T – 6T

Flipper Delta and other configurations

20T excavators

Komatsu 20T excavators



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