

# SUSTAINMENT



# ABOUT AUSTAL

Austal is Australia's global shipbuilder, defence prime contractor and maritime technology partner of choice; designing, constructing and sustaining revolutionary defence and commercial vessels for the world's leading operators.

For over 30 years, Austal has designed and constructed over 300 vessels for over 100 operators in 54 countries, gaining an enviable reputation for innovative shipbuilding using advanced technologies and modern techniques.

From shipyards located in Australia, the USA, the Philippines, Vietnam and China – and service centres located around the world – Austal offers naval, government and commercial operators the highest quality ships, systems and support.

# SUSTAINMENT MANAGEMENT

Austal recognises the need to maximise the operational availability and capability of every vessel we deliver. Our global support teams work closely with every customer to understand their individual ship and fleet operations so that effective, sustainment and service support can be provided to them.

## SUSTAINMENT

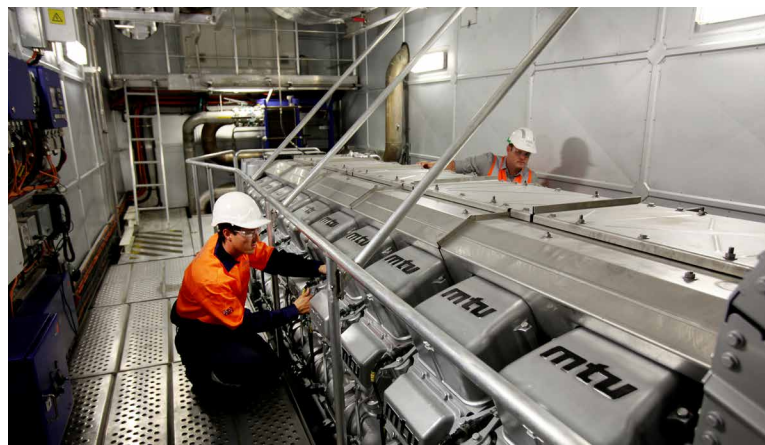
Austal offers an extensive portfolio of support services that ensure customers' vessels are available for operation in accordance with their planned operational profile. Austal's support services take into account vessel usage requirements and can include guarantees to ensure operational targets are met.

Austal's commitment to meeting our customers operational objectives begins in the pre-delivery phase, where our professional team can assist with the development and preparation of vessel service and preventative maintenance schedules, recommendations for spare parts inventories, identifying local support requirements and/or authorised service agencies, crew familiarisation training and re-commissioning upon arrival into the port of operation.

Once in operation, Austal ensures any warranty claims are promptly serviced and scheduled servicing programs are implemented cost effectively - to ensure customers' capabilities are maintained at all times. This may include scheduled visits from Austal's Global Sustainment team to help solve any operational problems that may arise.

Long-term support is delivered through ongoing assistance with vessel operating requirements, the supply of spare parts, consumables and equipment, systems maintenance and upgrades, vessel repairs and maintenance programs.

For major vessel programs, or where necessary or preferred by the customer, Austal may establish local support centres, or enter into strategic partnerships with reputable local companies to develop and provide value adding through-life service and logistical support.



# ADVISORY AND PROGRAM MANAGEMENT SERVICES

Austal recognises the need to maximise the operational availability and capability of every vessel we deliver. Our global support teams work closely with every customer to understand their individual ship and fleet operations so that effective, sustainment and service support can be provided to them.



## TRAINING

To meet the increasing complexity of modern platforms, Austal provides tailored training packages for maintenance crews, operating crews and specialised technical training relevant to on-board monitoring programs and information systems. Training can be delivered on location or at Austal's headquarters in Western Australia:

» **Vessel Familiarisation and Operations Training**

On-board (or simulation) vessel familiarisation and operations training is available and may be tailored for any vessel type or crew.

» **Maintenance Training**

Ranging from fabrication and electrical training to a fully developed and interactive computer maintenance training program, Austal provides customised maintenance training packages that match operator requirements and anticipate future needs.

» **Enterprise Asset Management**

Austal can train operating and maintenance crews on the use of an Enterprise Asset Management System (EAM) that helps to operate and maintain maritime assets effectively and efficiently.

» **MARINELINK, MARINELINK-Smart and MARINELINK-Fleet**

A suite of advanced on-board monitoring and control systems available on all new Austal-built vessels, plus non-Austal built vessels (MARINELINK-Fleet).

» **MOTION CONTROL**

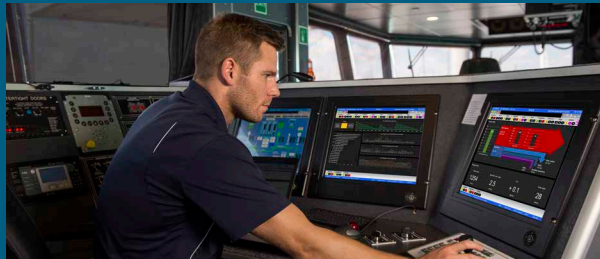
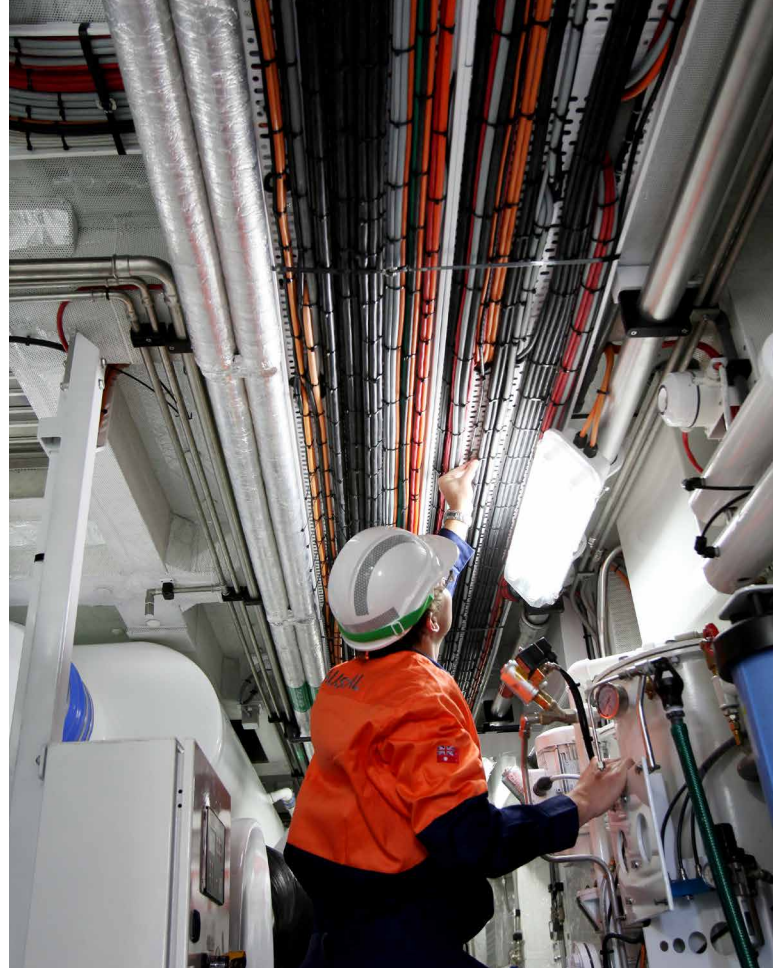
Austal's renowned vessel stabilising system that reduces vessel motion at sea and improves passenger and crew comfort.



# OPERATIONAL SUPPORT, REPAIRS AND MAINTENANCE

Austal offers affordable, short or long term vessel support and maintenance services to the commercial and defence markets. Through our growing, global network of shipbuilding and support facilities, Austal delivers a complete sustainment support service that maximise the ongoing availability and capability of our customers' vessels.

Scheduled maintenance programs can be tailored to suit individual fleet requirements and delivered locally (onsite, or through the nearest Austal support facility) via a trained team of Austal engineers and technicians - or by an authorised, quality assured Austal partner. Unscheduled maintenance and advice on insurance spares can also be factored in to any contract for a complete solution.



## » Lifecycle Upkeep Sustainment Intelligence (LUSI) - Coming Soon

A new, Austal-led and developed integrated digital information management platform that captures all relevant data from assets, asset management systems and engineering management systems that generates timely information - to enable quality decision making and optimise maritime asset performance over the entire asset lifecycle.

## » Repairs, Refit and Maintenance

Austal offers practical expertise and professional advice in all aspects of ongoing vessel repairs, refit, maintenance, and project management. These services can be delivered on-site or at Austal's service centres in Australia, the USA, the Philippines, Vietnam, Singapore and the Middle East.

## » Integrated Logistic Support (ILS)

Multi-discipline ILS packages, including reliability analysis, full documentation management and parts supply management are available.

## » Technical and Systems Management Support

From arranging the supervision of dry dockings and appointing surveyors and technical consultants to providing trained personnel for miscellaneous maintenance tasks, Austal has the skilled and experienced teams available to manage and deliver all aspects of vessel maintenance, including;

- Program Management of Maintenance and Repair Activities
- Preventative, corrective and predictive maintenance systems and activities
- Diagnosis, analysis and repair of systems and components
- Ship Management Services (ISM / ISPS / CMMS / EAM)
- Vessel Sustainment (Class and Flag requirements)
- Auditing and accreditation of Safety Management Systems
- Berthing/Husbandry, slipping and refit/repair of structures and systems
- Marine, mechanical, electrical and systems engineering
- Fabrication and welding of aluminium, copper/nickel and stainless steel

# SPARE PARTS AND EQUIPMENT

With an extensive global supplier network and the buying power of the world's largest aluminium shipbuilder, Austal provides vessel operators with the ultimate source for all vessel parts, equipment, consumables and tooling; from the smallest parts right through to pre-fabricated vessel components. Orders can be placed 24 hours a day and the teams' thorough product knowledge ensures top quality support for all enquiries and purchases. Austal's extensive knowledge of vessel operations, maintenance, spare parts and consumables requirements ensures clients are well informed on recommended operating stock levels and have access to 'urgent' or emergency stock supplies whenever needed. As the manufacturer, itemising and supplying the required, scheduled maintenance spare parts for all on-board equipment, Austal can assist with (or effectively manage) customers' vessel parts and consumables replacement programs.



# CAPE CLASS PATROL BOAT

**Clients:** Australian Border Force (ABF) and Royal Australian Navy (RAN)

**Programs:** Acquisition (build) and ongoing sustainment programs for ABF (awarded 2011) and RAN (awarded 2017)

As part two separate contracts to design, construct and support eight CCPBs for the Australian Border Force, and two CCPBs for the Royal Australian Navy, Austal is providing sustainment services to these vessels, operating around Australia's coastline. Services are provided at Austal's support centres located in Cairns in Queensland, Darwin in the Northern Territory and Henderson in Western Australia.



# GUARDIAN CLASS PATROL BOAT

**Client:** Commonwealth of Australia

**Program:** Pacific Patrol Boat Replacement and Sustainment (Awarded 2016 - Present)

As part of the contract to design, construct and support a total of twenty one Guardian Class Patrol Boats with the Australian Government, Austal is providing sustainment services to the Pacific Maritime Security Program fleet of Guardian Class Patrol Boats, operating around the Indo-Pacific. Services will primarily be provided at Austal's support centre located in Cairns in Queensland along with Darwin in the Northern Territory, Henderson in Western Australia, and in-country when required.



# LITTORAL COMBAT SHIP

**Client:** U.S Navy

**Program:** Post delivery support (Awarded 2005 - Present)

The US Navy's Naval Sea Systems Command has awarded multiple post-delivery support contracts to Austal USA for the provision of a variety of support services, including Post Delivery Test and Trial (PDT&T), Post Shakedown Availability (PSA) planning, emergent work, Final Contract Trials, Industrial Post Delivery Availability (IPDA), and Test and Evaluation (T&E) events - to be performed on Littoral Combat

Ships (LCS) 6, 8, 10, 12, 14, 16, 18, and 20. The contracts include the provision of technical analysis, planning, configuration management, software maintenance and development, production assessment, engineering, execution of work items, dry docking, prefabrication, and materials procurement services.



# FERRIES AND COAST GUARD RESCUE BOATS FOR OMAN

**Client:** National Ferries Company (NFC)

**Program:** Post delivery support (awarded 2010)

Austal delivered vessel maintenance services for National Ferries Company's (NFC) five high speed ferries and two Oman Coast Guard rescue boats, co-managed by NFC, for a period of five years. Work was performed by Austal at various regional ports within the Sultanate of Oman, including the capital city, Muscat.





100 CLARENCE BEACH ROAD, HENDERSON WA 6166

E SALES@AUSTAL.COM P +61 8 9410 1111

**AUSTAL.COM**