

# COMMERCIAL SOLUTIONS



  
**AUSTAL**

## ABOUT AUSTAL

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

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

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

## COMMERCIAL SOLUTIONS

Austal's commercial vessel platforms include high-speed passenger ferries and vehicle-passenger (ROPAX) ferries that deliver performance, comfort, economy and reliability for both operators and customers.

Austal's proven capability to design customised vessels is complemented by the company's powerful, global production capacity. Offering monohull, catamaran and trimaran hull forms ranging from 16 metres to 130 metres in length — and speeds from less than 10 to over 50 knots — Austal has a ferry solution for any commercial or public transport service requirement, operating anywhere in the world.

With valuable experience gained from delivering customised ferries to the world's leading operators, Austal understands — better than any other shipbuilder — the expectations of customers and the demands of successful operators for high quality, high performance vessels performing in diverse environments.





Austal offers customers:

- An extensive portfolio of proven commercial vessel designs, including monohull, catamaran and trimaran hull forms, that deliver performance, economy, safety and comfort
- Unrivalled expertise and experience in high speed aluminium vessel design, construction and sustainment
- Cutting edge technology and vessel management systems that enhance vessel performance and customer experience, including Austal Motion Control System (MCS) and MARINELINK-Smart
- Industry-leading, modular manufacturing facilities, processes and techniques that reduce production times and costs
- Safe, ISO quality-assured construction processes, systems and facilities
- Best practice project management that delivers vessels on-time and on-budget
- Vessel lifecycle support services, including integrated logistics support, in-service support and sustainment services
- The assurance of a global, financially strong and secure Prime contractor, listed on the Australian Stock Exchange (ASX;ASB)
- 100% customer (operator) satisfaction



TRIMARAN



CATAMARAN



MONOHULL



## PASSENGER FERRIES

As the world's largest builder of fully customised high-speed passenger ferries, Austal offers proven vessel designs ranging from 16m through to 130m LOA, suited to a range of applications - from high volume commuter services to tourism orientated operations, with layouts, speeds, seakeeping and interiors optimised to match the required service.



COTAL JET

## ADVANCED HULL DESIGN AND ENGINEERING

Austal's growing team of industry-leading naval architects have developed some of the world's most iconic commercial ships (such as the 127m Benchijigua Express) - and can customise a proven vessel design to suit your specific requirements - or develop an entirely new design - that delivers the optimal balance between passenger comfort, speed and efficiency over a range of operating conditions.

Supporting this product development are expert, in-house teams of marine and mechanical engineers, HVAC engineers, electrical designers, interior designer and drafts people. Utilising advanced design technology, including Computational Fluid Dynamics, Seakeeping Analysis, three dimensional modelling and detailed Global Finite Element Analysis, the Austal team can develop an effective, customised design based on a proven monohull, catamaran or trimaran hull.

## ALUMINIUM - DELIVERING STRENGTH, SPEED AND ECONOMY

As an acknowledged global leader in aluminium vessel construction, with an intrinsic understanding of the material's qualities and characteristics, Austal is at the cutting edge of aluminium structural design. The desire to optimise vessel strength for minimum weight - particularly important for the large high speed platforms - led to the development of Austal's own highly specialised in-house Finite Element Structural Analysis procedures. These procedures ensure every Austal vessel meets the highest quality standards for structural (hull) performance and integrity.





## VEHICLE PASSENGER FERRIES

Efficient vehicle handling and quality interior fit outs set the Austal's 'Auto Express' series of vehicle passenger ferries apart from the competition. As with Austal's passenger ferries, vessel specifications and powering options are customised to suit operator requirements, with both catamaran and trimaran ferry designs available to carry passengers, cars, trucks and cargo at a range of speeds - and in maximum comfort to suit the sea conditions. Hull forms are optimised to ensure maximum fuel efficiency by using advanced design, powerplant and propulsion technology.

EXPRESS 4

## POWERFUL GLOBAL PRODUCTION CAPACITY

### MULTI-VESSEL ORDERS DELIVERED ON TIME AND ON BUDGET

With dedicated commercial vessel shipyards in Australia, the Philippines and Vietnam, operated by a highly skilled local workforce and supported by Austal Australia's design and construction resources, Austal has the global production capacity to offer fast, on-time delivery - even on multiple vessel orders. Austal's advanced, modular shipbuilding techniques provide unequalled levels of efficiency and productivity within its shipyards, which translates to reduced costs and faster construction times. Applying ISO9000 and ISO14000 quality assured and certified design and production standards, Austal produces vessels that consistently meet and exceed the highest international quality requirements.

### CUSTOMISED, QUALITY INTERIOR DESIGN AND FITOUT

Whether you're after a practical, utilitarian fitout - suited to the demands of short commuter journeys - or a sophisticated and comprehensive fitout required for more luxurious operations - Austal's interior design team and fitout departments can design and produce a wide range of fully customised vessel outfits to meet any operational requirement and budget.

Austal's interior design team liaise closely with you, or your preferred interior designers to create the desired atmosphere on-board the vessel to achieve the ideal passenger experience. From the design stage to installation, consideration is always given to the dynamics of space and weight - to ensure the vessel always achieves performance specifications.

## AUTO EXPRESS 102

This impressive trimaran was delivered to Condor Ferries of the UK in December 2014. The 102-metre Condor Liberation is an evolution of Austal's landmark 2005 trimaran ferry "Benchijigua Express" in every sense – optimising performance, seakeeping, fuel efficiency, passenger comfort and payload to deliver a truly next generation transportation solution.

Austal Philippines undertook a program of optimization works for the vessel prior to delivery, including a Bridge extension and interior fitout.

### PRINCIPAL PARTICULARS

LENGTH OVERALL	102.0 M
BEAM (MOULDED)	27.4 M
HULL DRAFT (MAX)	4.5 M
SPEED	37 KNOTS @ 90% MCR
RANGE	660 NM @ 90% MCR
PASSENGERS	880 IN 3 LOUNGES
VEHICLES	245 CARS
HEAVY VEHICLES	188 LANE METRES AND 137 CARS
MAXIMUM DEADWEIGHT	620 TONNES



CONDOR LIBERATION



## AUTO EXPRESS 127

The 127m high speed vehicle-passenger trimaran ferry was delivered to client Fred Olsen S.A. in 2005 for operation in the Canary Islands.

In that year, Benchijigua Express was quite simply the most significant vessel to arrive on the fast ferry stage. The trimaran vessel revolutionised fast sea transportation and opened new markets beyond the ability of existing fast ferry designs.

The vessel remains an icon and industry benchmark for service reliability and availability.

### PRINCIPAL PARTICULARS

LENGTH OVERALL	126.7 M
BEAM (MOULDED)	30.4 M
HULL DRAFT (MAX)	4.2 M
SPEED	40.5 KNOTS @ 100% MCR
PASSENGERS	1,291
VEHICLES	341 CARS
HEAVY VEHICLES	450 LANE METRES AND 123 CARS
MAXIMUM DEADWEIGHT	1,141 TONNES



BENCHIJIGUA EXPRESS

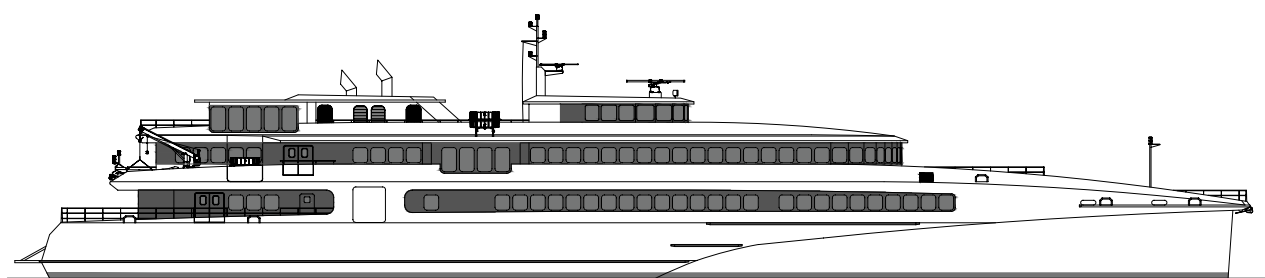
## PASSENGER EXPRESS 83

The 83 metre trimaran, with a capacity for 502 passengers and an operational speed of 37 knots, will service JR Kyushu Jet Ferry's key strategic route between Fukuoka, Japan and Busan, South Korea. The vessel will feature a customised interior, developed by respected Japanese design house, Don Design Associates, led by Mr Eiji Mitooka, famous for the luxuriously appointed interiors of JR Kyushu's high-end passenger trains.

With construction underway, the vessel will be delivered and in service prior to the Summer Olympic Games in Tokyo in 2020.

### PRINCIPAL PARTICULARS

LENGTH OVERALL	83.5 M
BEAM (MOULDED)	20.2 M
HULL DRAFT (MAX)	3.6 M
SPEED	36.9 KNOTS @ 85% MCR
PASSENGERS	502
MAXIMUM DEADWEIGHT	115 TONNES



PASSENGER EXPRESS 83





## TRIMARAN TECHNOLOGY

### GREATER PASSENGER APPEAL – A MORE COMFORTABLE RIDE, MORE OFTEN

The trimaran's capability in rough seas is renowned and both passengers and crew benefit from the greater comfort, achieved from the unique hull and Austal's proprietary Motion Control System (MCS) technology. Passengers consistently report a smoother journey whilst the crew benefits from safer, more productive schedules where seasickness is minimal and passengers, vehicles and cargo are more secure.

### BETTER SERVICE RELIABILITY – MORE OPERATING DAYS AND FEWER DELAYS

The Benchijigua Express' trusted seakeeping ability and exemplary performance record is highlighted by the fact that Fred Olsen SA has never cancelled a scheduled sailing due to bad weather or technical faults in 12 years of operation.

The high speed trimaran design provides operators with enhanced schedule performance and improved customer experience leading to greater satisfaction, brand loyalty and repeat business.

### A SOLUTION FOR TRANSPORTING LARGE NUMBERS OF PEOPLE, VEHICLES AND CARGO SAFELY, QUICKLY AND COST EFFECTIVELY

Delivering more 'bang for the buck' than traditional RO/PAX ferries, trimarans are more spacious and more efficient than equivalent monohulls and catamarans.

*Austal's latest contract for two 117 metre high speed vehicle passenger ferries, for Fred Olsen SA, not only sends a strong signal to the international market that fast ferries are back, but confirms Austal's proven trimaran hull design as the most cost effective and highly capable vessel platform to deliver superior seakeeping and schedule performance.*



TWO 117M HIGH SPEED VEHICLE  
PASSENGER FERRIES UNDER  
CONSTRUCTION FOR FRED OLSEN SA

## AUTO EXPRESS 109

The Austal Auto Express 109 represents the very latest in high-speed catamaran technology, delivering an optimum ferry solution for operators Molslinjen and Fjordline.

Austal's sleek hull form and superstructure design will enable over 1,000 passengers and 400 cars to be transported safely, at up to 40 knots and in class-leading comfort.

The 'Express 4' for Molslinjen of Denmark is due for delivery in early 2019, while the Fjordline vessel, currently in build, is on schedule for a late 2019 delivery.

### PRINCIPAL PARTICULARS

	<i>MOLSLINJEN</i>	<i>FJORDLINE</i>
LENGTH OVERALL	109 M	109 M
BEAM (MOULDED)	30.5 M	30.5 M
HULL DRAFT (MAX)	3.4 M	3.8 M
SPEED	37 KNOTS @ 85% MCR	37.5 KNOTS @ 90% MCR
PASSENGERS	1,006	1,200
VEHICLES	425 CARS	404 CARS
HEAVY VEHICLES	610 LANE METRES AND 232 CARS	530 LANE METERS AND 228 CARS
MAXIMUM DEADWEIGHT	1,000 TONNES	1,000 TONNES





## PASSENGER EXPRESS 56

The new “Halunder Jet” is FRS Helgoline’s flagship vessel, offering more space and comfort for passengers. The vessel is outfitted to maximise the passenger experience, with energy efficient LED lighting to create mood, ambience and decorative effect. Large windows in the cabin create superior visibility and two open deck areas offer passengers unparalleled viewing opportunities, travelling the popular River Elbe route between Helgoland and the Port of Hamburg,

### PRINCIPAL PARTICULARS

LENGTH OVERALL	56.4 M
BEAM (MOULDED)	14 M
HULL DRAFT (MAX)	1.7 M
SPEED	34.6 KNOTS @ 85% MCR
PASSENGERS	680
MAXIMUM DEADWEIGHT	96 TONNES



HALUNDER JET



## AUTO EXPRESS 80

Austal secured the order for a highly efficient medium speed ferry with leading French Polynesian operator and existing customer, SNC Aremiti Ferry, in 2012. The 80 metre vehicle-passenger catamaran was delivered in October 2013.

The Auto Express 80 was the fourth vessel Austal has sold to Aremiti and its associated companies. In December 2017 a fifth vessel was ordered – 49 metre high-speed passenger catamaran ferry – due for delivery in mid 2019.

### PRINCIPAL PARTICULARS

LENGTH OVERALL	79.8 M
BEAM (MOULDED)	17 M
HULL DRAFT (MAX)	2.8 M
SPEED	20 KNOTS
PASSENGERS	967
VEHICLES	146 CARS
HEAVY VEHICLES	228 LANE METRES
MAXIMUM DEADWEIGHT	480 TONNES





## PASSENGER EXPRESS 50

Austal was awarded a contract to design and build 2 x 50 meter high speed catamarans for Taiwan's Brave Line in September 2017.

### PRINCIPAL PARTICULARS

LENGTH OVERALL	49.9 M
BEAM (MOULDED)	13.3 M
HULL DRAFT (MAX)	4.3 M
SPEED	39.2 KNOTS @ 90% MCR
PASSENGERS	550
MAXIMUM DEADWEIGHT	67.5 TONNES



## PASSENGER EXPRESS 50

Delivery of the Incat Crowther designed Seastar 11 to Seaspovill of South Korea in July 2017.

### PRINCIPAL PARTICULARS

LENGTH OVERALL	49.9 M
BEAM (MOULDED)	11.5 M
HULL DRAFT (MAX)	1.3 M
SPEED	40 KNOTS
PASSENGERS	450
MAXIMUM DEADWEIGHT	52.8 TONNES



## PASSENGER EXPRESS 30

Three vessels have been delivered to ferry operators in the Philippines. Two of these Incat Crowther designed vessels were delivered to 2GO in mid 2017, and a third delivered to VS Grand Ferries in September 2018.

### PRINCIPAL PARTICULARS

LENGTH OVERALL	30.5 M
BEAM (MOULDED)	8.5 M
HULL DRAFT (MAX)	1.2 M
SPEED	25 KNOTS @ 90% MCR
PASSENGERS	300
MAXIMUM DEADWEIGHT	32.7 TONNES



## AUSTAL 35

### PRINCIPAL PARTICULARS

LENGTH OVERALL	35.2 M
BEAM (MOULDED)	7.0 M
HULL DRAFT (MAX)	1.2 M
DEPTH (MOULDED)	2.7 M
SPEED (100% MCR)	36 KNOTS
PASSENGERS	138
MAXIMUM DEADWEIGHT	26 TONNES

## MARY D ENTERPRISES, NEW CALEDONIA



## AUSTAL 37

### PRINCIPAL PARTICULARS

LENGTH OVERALL	37.2 M
BEAM (MOULDED)	10.7 M
HULL DRAFT (MAX)	1.3 M
DEPTH (MOULDED)	2.6 M
SPEED (90% MCR)	29.3 KNOTS
PASSENGERS	292
MAXIMUM DEADWEIGHT	33 TONNES



## AUSTAL 40

### PRINCIPAL PARTICULARS

LENGTH OVERALL	40.0 M
BEAM (MOULDED)	10.0 M
HULL DRAFT (MAX)	1.4 M
DEPTH (MOULDED)	2.8 M
SPEED (90% MCR)	34 KNOTS
PASSENGERS	318/338



## NAN HAI PING GANG PASSENGER TRANSPORT CO, HONG KONG

## AUSTAL 41

### PRINCIPAL PARTICULARS

LENGTH OVERALL	41.2 M
BEAM (MOULDED)	10.9 M
HULL DRAFT (MAX)	2.0 M
DEPTH (MOULDED)	4.3 M
SPEED (90% MCR)	37.5 KNOTS
PASSENGERS	405
MAXIMUM DEADWEIGHT	40 TONNES



## NIDCO, TRINIDAD AND TOBAGO



## AUSTAL 45

### PRINCIPAL PARTICULARS

LENGTH OVERALL	45.2 M
BEAM (MOULDED)	12.3 M
HULL DRAFT (MAX)	1.8 M
DEPTH (MOULDED)	4.0 M
SPEED (100% MCR)	38 KNOTS
PASSENGERS	360
MAXIMUM DEADWEIGHT	67 TONNES

## L'EXPRESS DES ILES, SA, GUADELOUPE



## AUSTAL 47

### PRINCIPAL PARTICULARS

LENGTH OVERALL	47 M
BEAM (MOULDED)	11 M
HULL DRAFT (MAX)	1.4 M
DEPTH (MOULDED)	4.0 M
SPEED (100% MCR)	34 KNOTS
PASSENGERS	437
MAXIMUM DEADWEIGHT	60 TONNES

## SAS JEANS, GUADELOUPE



## AUSTAL 48

### PRINCIPAL PARTICULARS

LENGTH OVERALL	47.5 M
BEAM (MOULDED)	11.8 M
HULL DRAFT (MAX)	1.6 M
DEPTH (MOULDED)	3.8 M
SPEED (100% MCR)	42 KNOTS
PASSENGERS	413
MAXIMUM DEADWEIGHT	70 TONNES

## COTAIJET LIMITED, HONG KONG



## AUSTAL 52

### PRINCIPAL PARTICULARS

LENGTH OVERALL	52.4 M
BEAM (MOULDED)	13 M
HULL DRAFT (MAX)	1.5 M
DEPTH (MOULDED)	4.5 M
SPEED (100% MCR)	40 KNOTS
PASSENGERS	432
MAXIMUM DEADWEIGHT	58 TONNES

## A.G. REEDEREI NORDEN-FRISIA, GERMANY



## MOTION CONTROL

Austal's proprietary Motion Control System (MCS) utilising unique T-Foil stabilisers, reduces vessel motion and improves seakeeping to provide a more comfortable journey, every time. The advanced, computer-controlled motion reduction system is available on every Austal vessel and is proven to reduce seasickness and improve customer satisfaction.



AUSTAL T-FOIL STABILISER

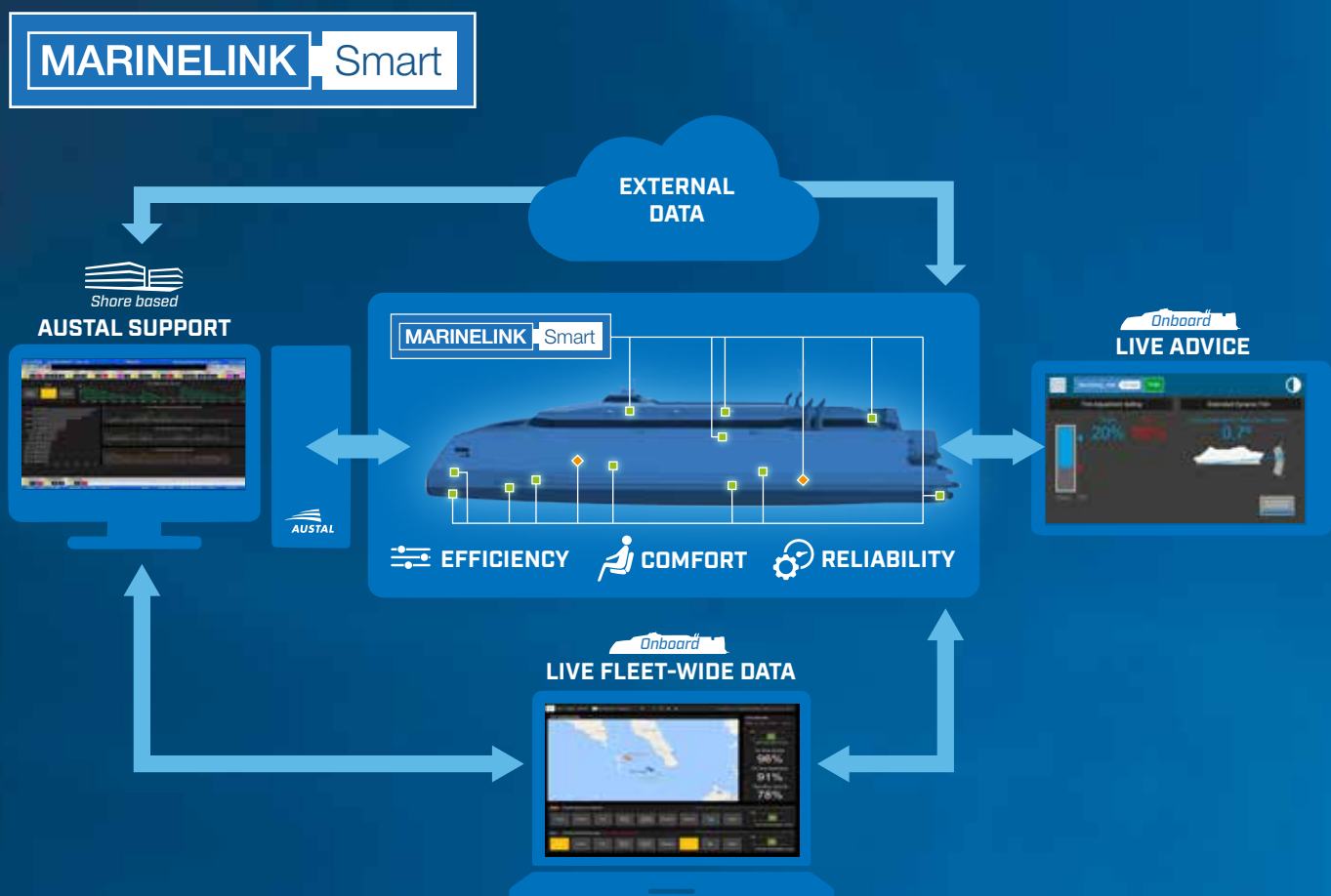




## MARINELINK-SMART

Fitted as standard on all new Austal ships, MARINELINK-Smart allows the real time monitoring of hundreds of vessel machinery and operating systems on-board and remotely – with the key benefits being improved fuel efficiency, prediction of equipment failures and live tracking of fleet performance and asset health.

MARINELINK-Smart is also tailored to the individual operator's vessel and service/route needs, overcoming the limitations inherent in proprietary third party systems.



## GLOBAL SERVICE AND SUPPORT

Austal recognises the need to maximise the operational availability and capability of every vessel we design and construct. Our global service and support teams work closely with every customer – from the design phase, through construction and delivery and into operation – to understand their individual ship and fleet requirements so that effective, through-life product and service support can be provided throughout the life of the vessel.

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

### AUSTAL SUPPORT SERVICES

- » Integrated Logistics Support (ILS)
- » Contract Maintenance
- » Technical Management and Systems Support
- » Through Life Capability Management:
  - Maintenance Management and Scheduling
  - Preventative and Corrective Maintenance
  - Dockings, Refits and Refurbishment
  - Ship Management Support Services
  - Training Services
  - Spare Parts Management and Supply
  - Consultancy Services









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