



AUSTAL WIND EXPRESS SERIES

ABOUT AUSTAL



Austal is the world's leading designer and builder of customised, high performance aluminium vessels for both commercial and defence applications. With shipyards in Western Australia and the USA (Mobile, Alabama), Austal has delivered more than 220 vessels for customers around the world.

Austal's product range includes passenger and vehicle-passenger ferries, offshore supply vessels, patrol boats, theatre support vessels, combat ships, multi-role vessels and luxury private live-aboards. Austal is also an established provider of worldwide vessel maintenance and management services.



Mobile, Alabama, USA

As well as being the largest aluminium shipbuilder in the world, a unique capability to deliver customised solutions means Austal has experience with vessels ranging from 16 metres to 127 metres in length, featuring monohull, catamaran or trimaran hull forms.

Established in Western Australia in 1988, Austal is now proud to list amongst its customers many of the world's leading fast ferry and shipping operators as well as world leading navies and coast guards.



Henderson, Western Australia

AUSTAL WIND EXPRESS SERIES



INTRODUCING THE *AUSTAL WIND EXPRESS* SERIES: Combining fuel efficiency with advanced sea keeping characteristics, Austal's new series of *Wind Express* platforms are the premier transportation solution for the burgeoning offshore wind farm industry.

By utilising Austal's world-renowned advanced hull design and engineering capabilities, each vessel is specifically designed to provide offshore wind farm operators with a rugged, reliable and efficient multi-purpose work boat platform.

Characterised by their optimum personnel comfort and safety, each vessel in the *Wind Express* series can be further customised to suit specific sea conditions, routes, and payload requirements.

Austal's patented Ride Control System (RCS) - successfully proven in commercial operation for more than two decades - ensures a safer, more productive platform even when conditions get rough.

Like all Austal vessels, the *Wind Express* series offers the peace-of-mind that comes from dealing with an ISO 9001:2008 quality certified shipbuilder with an established network of vessel support and maintenance centres worldwide.

As the largest aluminium shipbuilder in the world, Austal also has the unrivalled production capacity to facilitate fast, cost-effective delivery of multi-vessel fleets.



WHY AUSTAL?

CUSTOMISED VESSELS

150-strong in-house design team

SHORT DELIVERY TIMES

Powerful and efficient productive capacity

INNOVATIVE DESIGNS

Dedicated R&D group

ON-GOING PRODUCT SUPPORT

Global warranty and service network

LOW RISK SUPPLIER

Financial strength and sound management

HIGH QUALITY

Technologically advanced and market proven vessels

CUSTOMER SATISFACTION

Focus on meeting agreed customer requirements

DELIVERY ON-TIME AND ON-BUDGET

EFFICIENT PERFORMANCE

Austal's refined catamaran hull form requires less power and fuel to meet the required performance, delivering greater range and lower operating costs.

SAFE AND STABLE

The vessel's tailored Ride Control System (RCS) dampens vessel motions in high sea states.

MAXIMUM PRODUCTIVITY

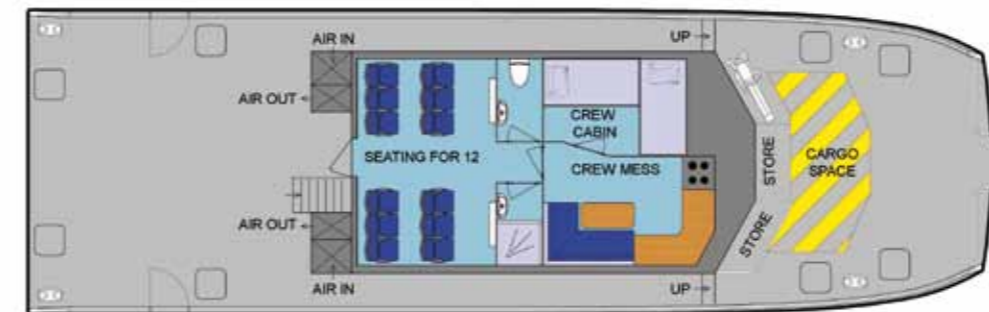
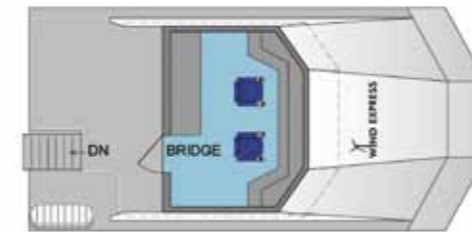
Reduced sea sickness, greater payload capacity and a wider operating envelope ensures maximum productivity.



WIND EXPRESS 19

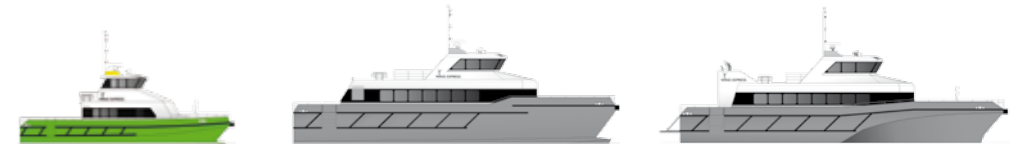


WIND EXPRESS 19: A rugged and versatile platform that delivers stability and fuel efficiency through its refined catamaran hull form. It is specifically designed for operation in conditions up to Sea State 4.



PRINCIPAL PARTICULARS

Length overall	19.3m	Propulsion.....	2 x Fixed Pitch Propellers
Beam	6.0m	Ride control (optional) ...	Interceptors and T-Foils
Hull draft (with T-foil).....	1.5m	Speed	26 knots (90% MCR @ 7 tonnes dwt)
Max deadweight.....	10 tonnes	Fuel consumption (incl. genset).....	0.21 t/hour
Personnel.....	12	Range	300nm @ 90%MCR + 20% reserve
Crew.....	4	Class/Flag	Lloyds Register / MCA
Main engines	2 x Volvo D16 (2 x 550kW)		



GREATER HABITABILITY

The vessel's larger length and beam, along with its tailored Ride Control System (RCS), delivers improved habitability in higher sea states.

MAXIMUM WORK SPACE

The aft-mounted accommodation and superstructure allow for a large working deck located forward.

UPGRADED PAYLOAD

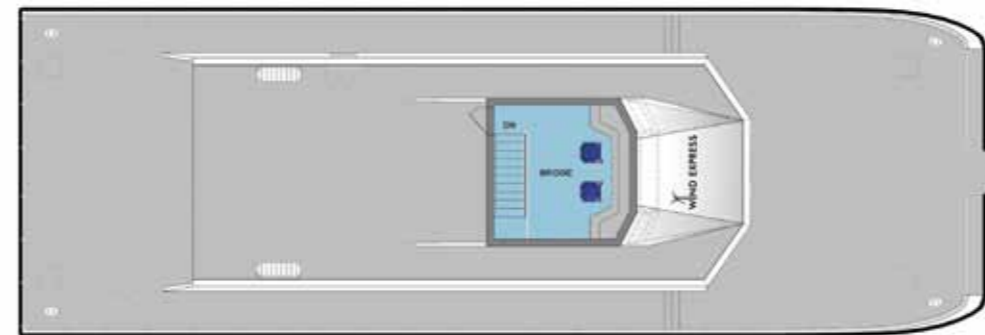
A larger platform means greater space for cargo and equipment as well as crew and technicians.



WIND EXPRESS 28



WIND EXPRESS 28: As well as advanced sea keeping suited to deep sea operations, the *Wind Express 28* also provides a substantial upgrade to work deck space, crew accommodation and payload capability.



PRINCIPAL PARTICULARS

Length overall	28.5m	Propulsion.....	2 x Fixed Pitch Propellers
Beam	9.0m	Ride control (optional) ...	Interceptors and T-Foils
Hull draft (with T-foil).....	1.9m	Speed ...	26 knots (90% MCR @ 10 tonnes dwt)
Max deadweight.....	20 tonnes	Fuel consumption (incl. genset).....	0.36 t/hour
Personnel.....	52	Range	300nm @ 90%MCR + 20% reserve
Crew.....	4	Class/Flag.....	Lloyds Register / MCA
Main engines ...	2 x MTU 10V2000M72 (2 x 900kW)		



ADVANCED SEAKEEPING

Combines the benefits of a SWATH hull form with Austal's proven trimaran technology to deliver an optimal ride in conditions up to Sea State 6.

STABILITY & PASSENGER COMFORT

Austal's tri-SWATH hull form delivers a reduction in accelerations (seasickness), providing safe and comfortable personnel transfer in higher sea states.

PROVEN TECHNOLOGY

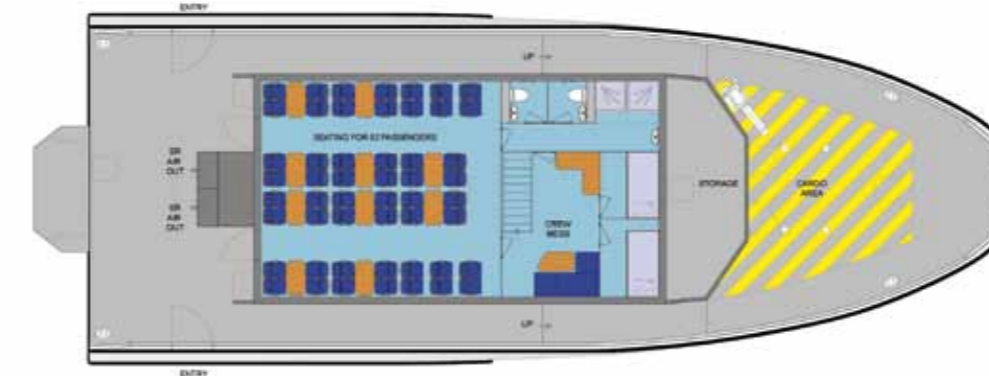
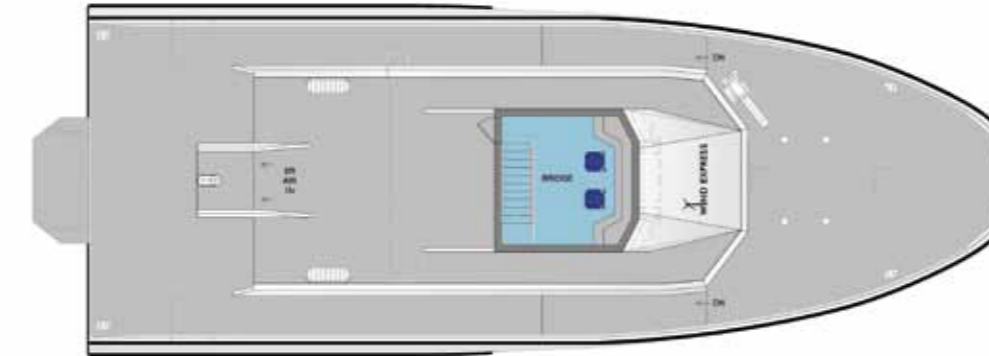
Austal's state-of-the-art trimaran technology has been proven in both commercial and defence operation since 2004.



WIND EXPRESS TRI SWATH 28



WIND EXPRESS TRI SWATH 28: The vessel utilises a unique Austal-developed trimaran-SWATH hull form to deliver the highest possible levels of sea keeping, passenger comfort and fuel efficiency in rough sea conditions. This is achieved while maintaining maximum work space and payload capacity.

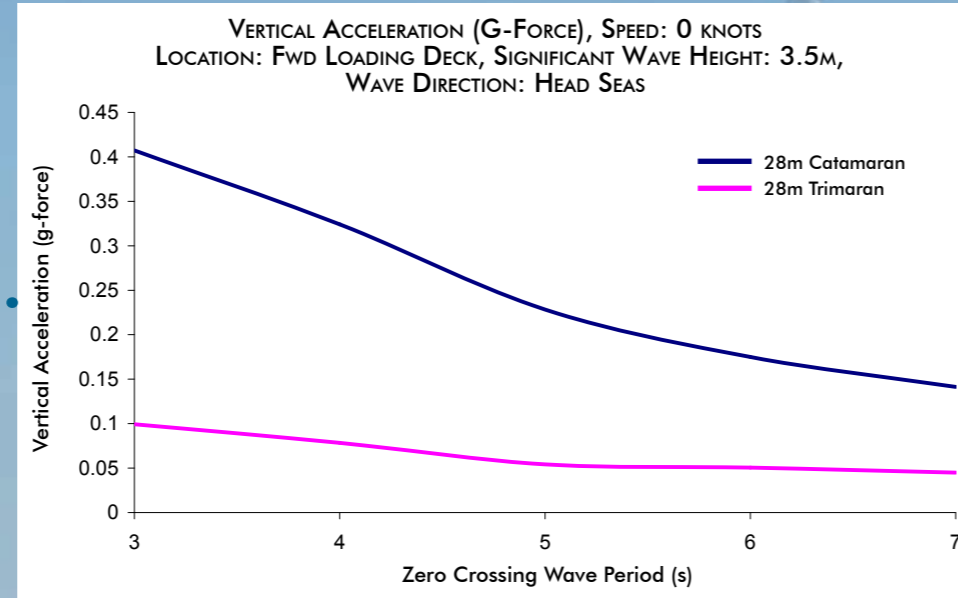
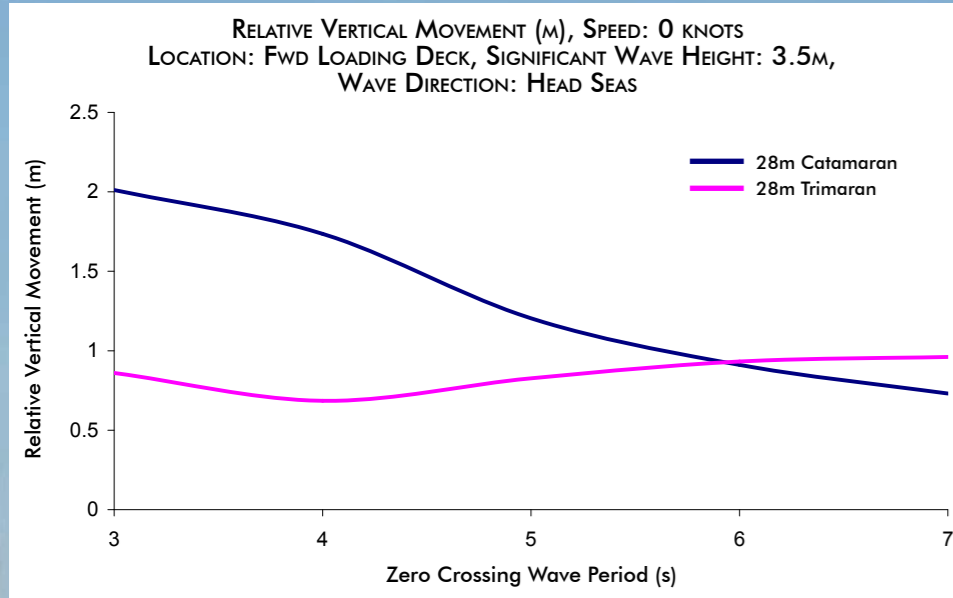


PRINCIPAL PARTICULARS

Length overall	28.5m	Propulsion	2 x water jets (FPP optional)
Beam	10.0m	Ride control (optional)	Interceptors & T-Foil
Hull draft (with T-foil).....	2.3m	Speed	26 knots (90% MCR @ 10 tonnes dwt)
Max deadweight.....	20 tonnes	Fuel consumption (incl. genset).....	0.54 t/hour
Personnel.....	52	Range	300nm @ 90%MCR + 20% reserve
Crew.....	4	Class/Flag.....	Lloyds Register / MCA
Main engines	2 x MTU 16V2000M72 (2 x 1440kW)		

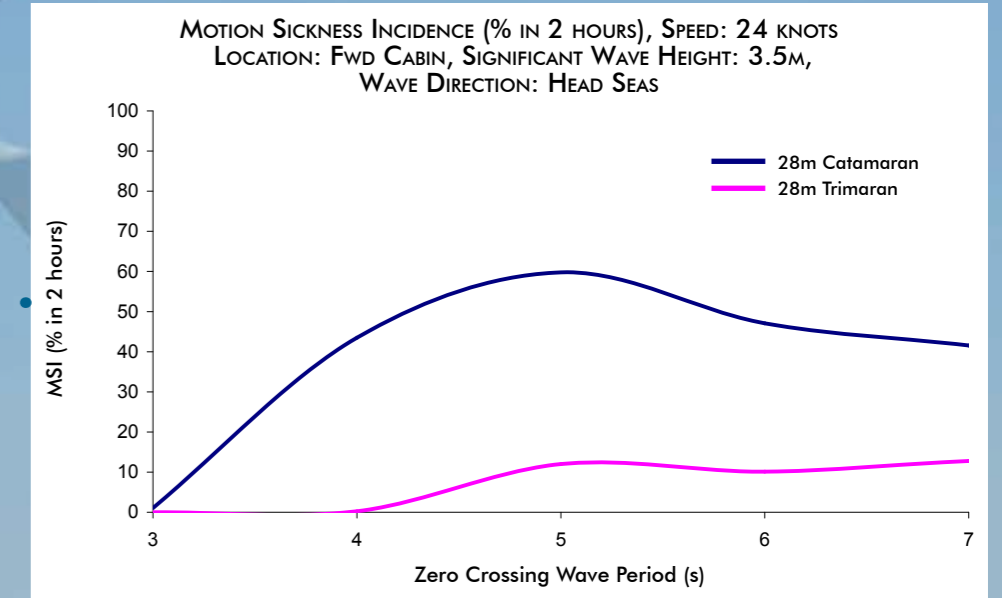


PERFORMANCE GRAPHS

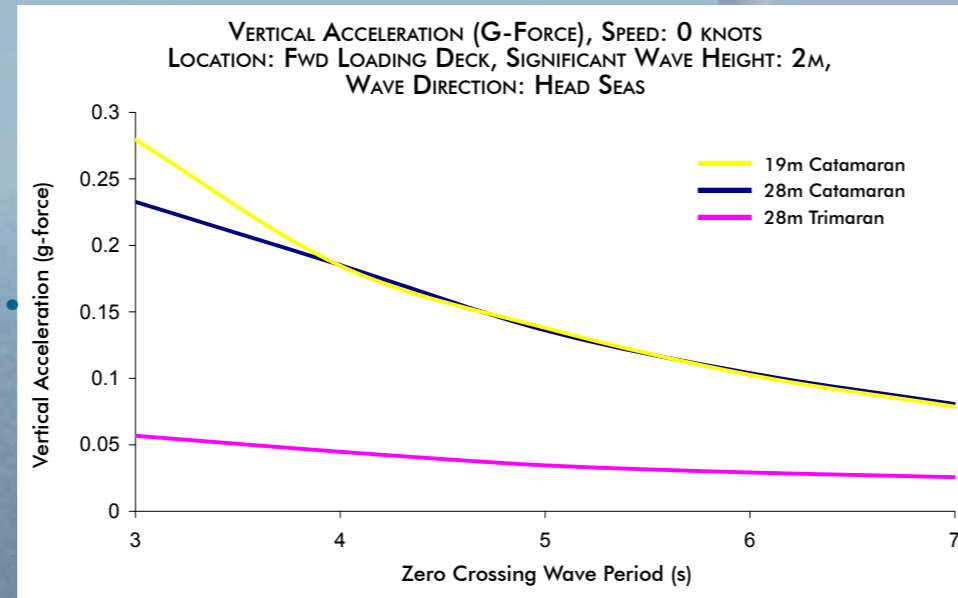
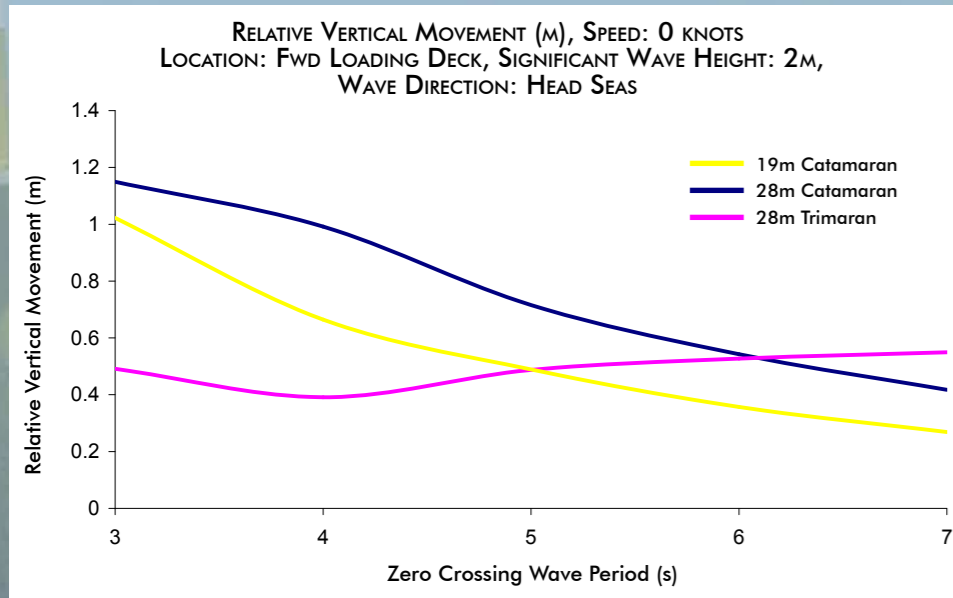


IN HEAD SEAS OF 3.5M SIGNIFICANT WITH A TYPICAL WAVE PERIOD:

- At zero speed the trimaran will experience approximately 800mm relative vertical motion and the catamaran 1400mm relative motion
- In a 2 hour voyage 60% of the technicians on the catamaran will experience motion sickness compared to less than 11% on the trimaran.

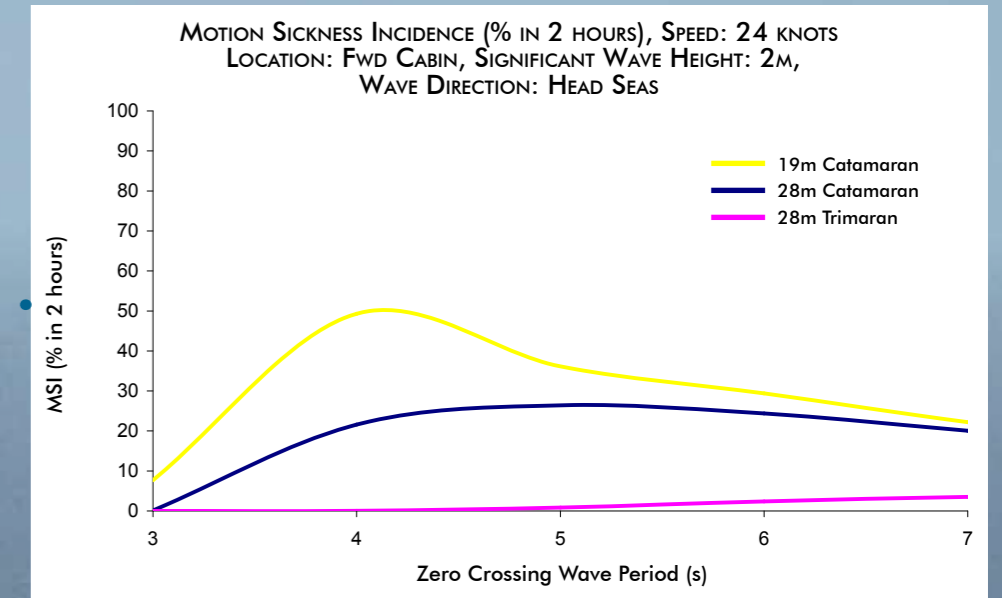


STABILITY AND PASSENGER COMFORT: Austal's refined catamaran hull form, tailored Ride Control System and unique trimaran SWATH hull form dampens vessel motions in high sea states to reduce sea sickness and offer a wider operating envelope.



IN HEAD SEAS OF 2M SIGNIFICANT WITH A TYPICAL WAVE PERIOD:

- At zero speed the trimaran will experience approximately 500mm relative vertical motion and the catamaran 700mm relative motion.
- At zero speed the trimaran will experience much slower accelerations at the bow than a catamaran allowing for a safer and easier transfer to the turbine.
- In a 2 hour voyage 30% of the technicians on the catamaran will experience motion sickness compared to less than 2% on the trimaran.





Shipyards: Australia and USA Email: sales@austal.com

Fax: +61 8 9410 2564 Tel: +61 8 9410 1111

WWW.AUSTAL.COM

WIND EXPRESS TRI SWATH 54

Length Overall 54m
Beam 14.7m
Personnel Accommodation 60
Speed 24-26 knots
Range 3500nm @ 12 knots



 WIND EXPRESS TRI SWATH 54