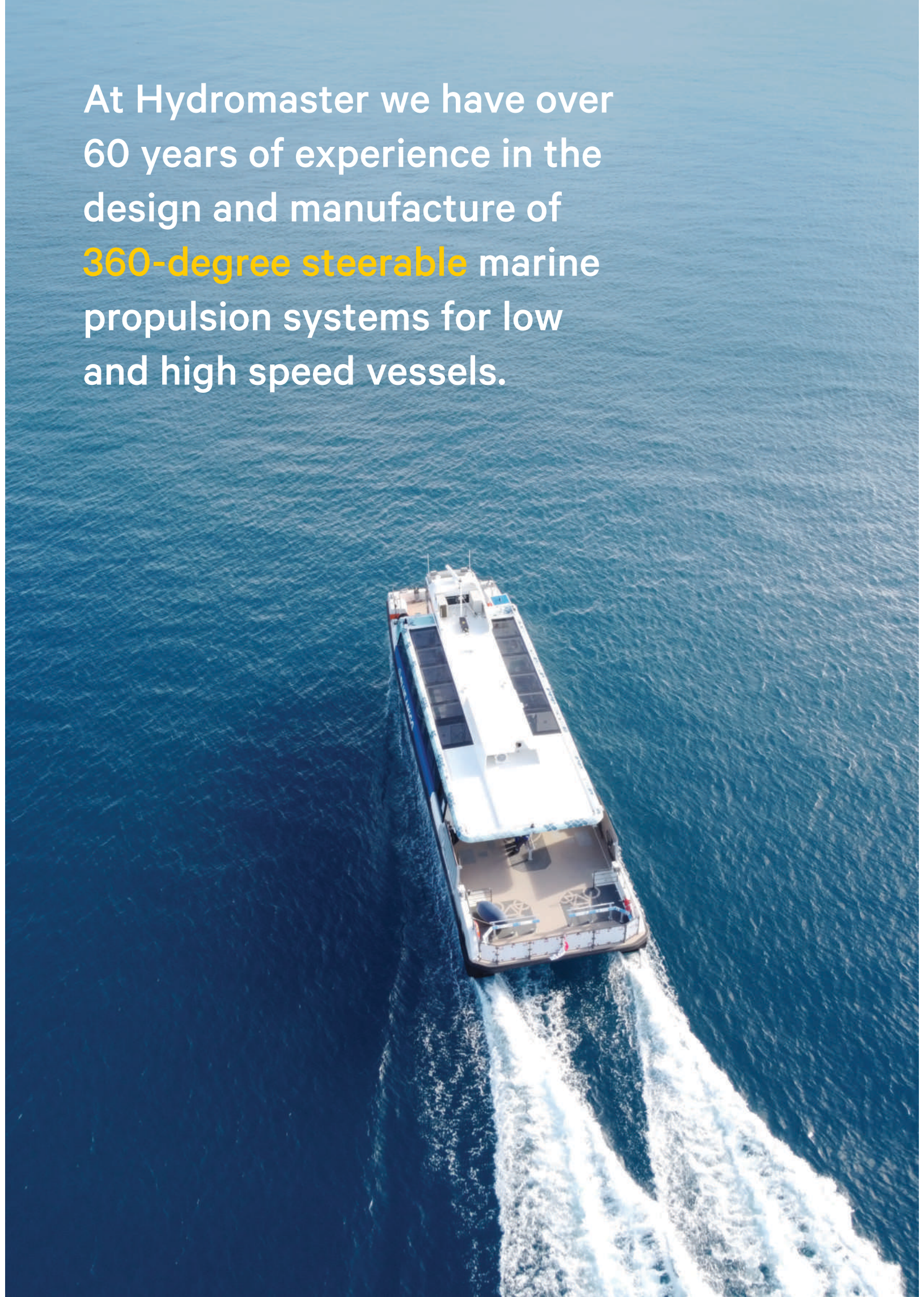
HYDROMASTER

pioneers of steerable propulsion

At Hydromaster we have over 60 years of experience in the design and manufacture of 360-degree steerable marine propulsion systems for low and high speed vessels.



Hydromaster

Originating during the 1930s, steerable thrusters were first operated on a grand scale to propel assault barges deployed in the Pacific, during D-Day installed on ferries to reach Normandy and later on pontoons to cross rivers in mainland Europe. In the early 1950s a license was issued to the UK, from which Hydromaster was born. The original Hydromaster, valued for its robust fully mechanical design, simplicity and durability, still works every day on hundreds of ferries, barges and pontoons worldwide. As well as maintaining the original design, we continue to build on this revolutionary technology by investing in innovative solutions and applying the latest insights and technologies. Our ultimate goal is to provide our clients with the best possible propulsion solutions.

Markets & Applications

Hydromaster propulsion units are in operation worldwide propelling a wide variety of applications such as tugs, ferries, floating cranes, coastal vessels, inland river barges and specialised military craft.

Our customer base includes governments, armed forces, port, dock and harbour authorities, construction and industrial companies, shipyards and vessel builders. We strive to work closely together with our clients to work out the best solution for their specific application and environment.

From remote locations with no support facilities to the demanding environments of marine contractors and armed forces, Hydromaster systems work continuously transporting people and vehicles across rivers and lakes, effortlessly serving our clients to propel their business.

Products

Hydromaster 360-degree steerable thrusters are available as well mounted, deck mounted and through hull versions. In Z and L drive configurations with electric or hydraulic steering. The units can be driven by different power sources and supplied as a full propulsion package complete with diesel engine, electric or hydraulic drive systems. Hydromaster propulsion units are available in a power range of 50 to 1000 kW and meet the requirements of all major classification societies.

Well Mounted

Azimuth thrusters available in L or Z drive configurations, electric, diesel or hydraulic driven, with open or ducted propeller.

Deck Mounted

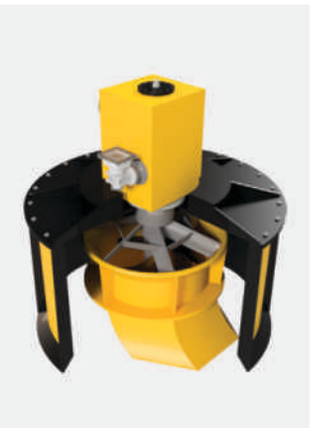
Fully self-contained outboard propulsion units fitted with prime mover at choice. Propeller is depth adjustable and can be tilted upward for easy maintenance.

High Speed

Combining a pulling type propeller with an optimised and highly streamlined underwater body shape, propelling fast craft up tot 28 knots. In L or Z drive.

Retractable

Used for auxiliary propulsion or for station keeping purposes on DP vessels, L or Z drive, available with all drive systems.



Steerable Jet

Flush mounted with vessel baseline, the steerable jet offers 360 degree maneuverability in shallow draught condition.

Transom Mounted

Combines an inboard engine room with an outboard thruster, with automatic clamping steady bracket allowing the thruster to be tilted for easy maintenance.

E-Transom Mounted

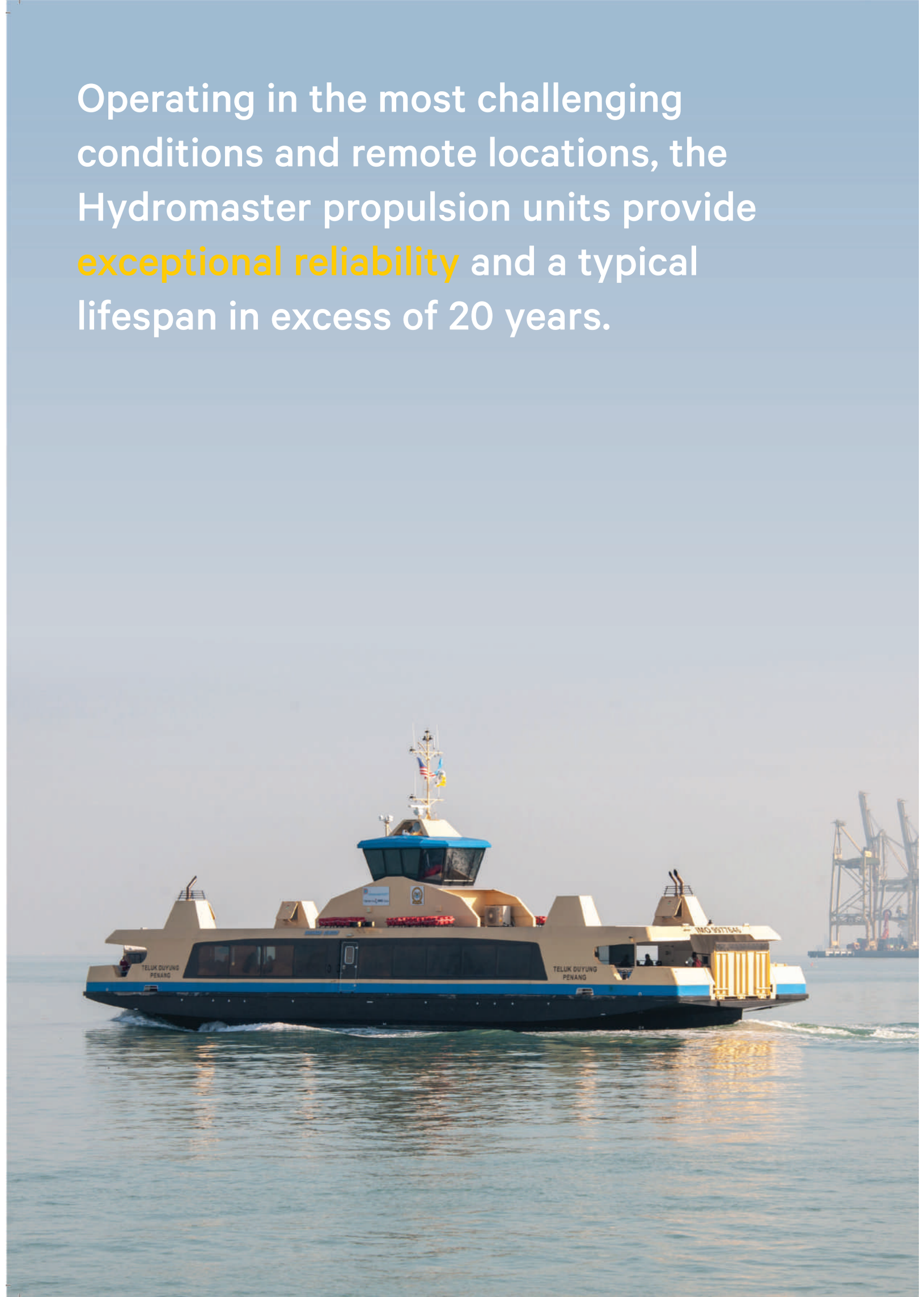
Outboard thrusters mounted on the transon, for hybrid or full electric vessels with vertical mounted electric motor on top.

Tunnel

Transverse stern and bow tunnel thrusters with steel or aluminium tunnel.

Our depth of knowledge and wealth of experience in this specialised area of marine engineering has propelled Hydromaster to become the preferred supplier of steerable propulsion units for electric and hybrid applications.

Operating in the most challenging conditions and remote locations, the Hydromaster propulsion units provide exceptional reliability and a typical lifespan in excess of 20 years.



High Speed Thruster

A 360° steerable thruster designed for full continuous duty, second to none for applications in a speed range up to 30 knots. An optimised pulling propeller and perfectly streamlined low-drag underwater body, offers optimal efficiency. With the benefits of 360° steering, these thrusters enable quick berthing and dynamic positioning. The use of a joy-stick system brings actions as side-stepping, astern and other fancy moves down to a simple one-hand control.

Fitted with a light and compact PM vertical mounted electric motor for electric or hybrid vessels, keeping the mechanical losses to a minimum. For direct diesel engine driven right-angle upper gearbox versions are available.

Control Systems

A modular, processor controlled, classification type-approved control system with LCD touch screen for monitoring & alarms. Drop-in panels are tailor made to your needs or loose components can be supplied to suit your wheelhouse console. The full follow-up steering control system can be repeated at multiple stations and can interface with external navigational systems like autopilot and dynamic positioning systems, integrated propulsion management systems and/or data recording systems.

If the application does not require such a level of sophistication, Hydromaster can still offer a locally mounted steering wheel, hydraulically power assisted with an automatic mechanical backup. This again emphasises our policy to provide the customer with what they need, using smart, cost effective designs and builds.

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QUALITY SYSTEM CERTIFICATION
DNV
ISO 9001