

# H1TX SERIES



  
**HamiltonJet**

The Ultimate in  
Waterjet Sophistication

# WATERJETS WITHOUT COMPROMISE

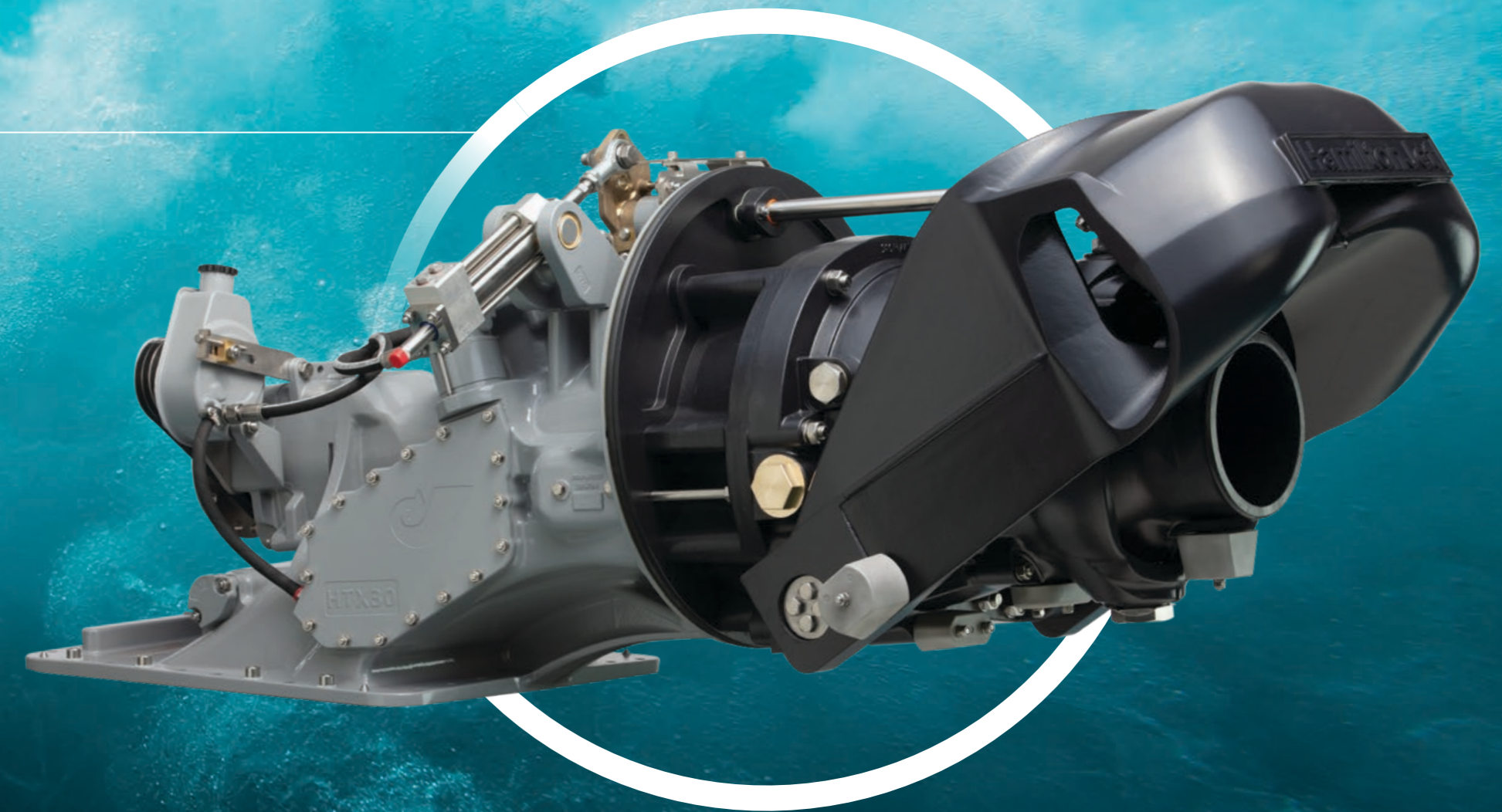
## HTX Series: the next generation of Hamilton waterjets.

This ground breaking series is the culmination of our vast experience fitting 60,000 waterjets into vessels around the globe over the last seven decades.

All our HTX jets feature new hydrodynamics and advanced materials for redefined performance, enhanced durability and even easier installation.

HTX waterjets perform better across the board. With HTX there is no need to compromise.

Redefined Performance.   Enhanced Durability.   Easier Installation.





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# PERFORMANCE

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It has always been our vision to design waterjets that deliver the best possible high speed efficiency while still performing outstandingly at low speeds. The HTX range delivers exactly that, with major improvements at both ends of the speed range:

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## High Speed performance

The HTX series delivers between 5% and 7% more thrust at higher speeds. HTX jets are also capable of achieving speeds in excess of 55 knots when matched with suitable engines and hull design. All our waterjets utilise low-loss steering systems which save fuel when course keeping and minimise speed loss during tighter turns.

## Low Speed capability

HTX jets feature brand new cavitation resistant intake and pump designs. These deliver up to 40% more bollard pull and greater sway thrust than any other waterjets on the market. This improves manoeuvring response, position holding capability and vessel acceleration.

# DURABILITY

**Our products work as hard as the vessels they power.**

## Corrosion Resistant

Through careful material selection, refined anode layout and optimised coating systems, we have achieved up to 10x greater corrosion resistance in challenging brackish waters.

To improve service levels, we've extended the internal anode life to two years, which means work can be easily aligned with other scheduled maintenance.



## Optimised Steering

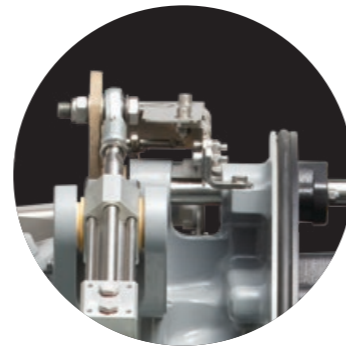
Across the range, HTX waterjets all feature new and improved steering systems. They deliver high precision, minimise performance loss in turns and deliver lower loads at the helm.

Our innovative gimballed steering system, available on smaller HTX models, increases robustness, delivering less wear and tear.



## Improved Hydraulic Sealing

Optimised seal pack design prevents contamination, damage from the marine environment and has been proven to last millions of cycles. The fully integrated hydraulic system and its components have been designed to be inboard for maximum protection.



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# INSTALLATION

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**HTX features a compact inboard footprint, narrow jet-spacing and low-profile design.**

## **Waterjet Installation**

The compact size of the entire HTX series means all models are capable of being installed through the transom late in the build reducing overall vessel installation costs.

The fully integrated hydraulics and controls use space efficiently and ease incorporation into any platform.

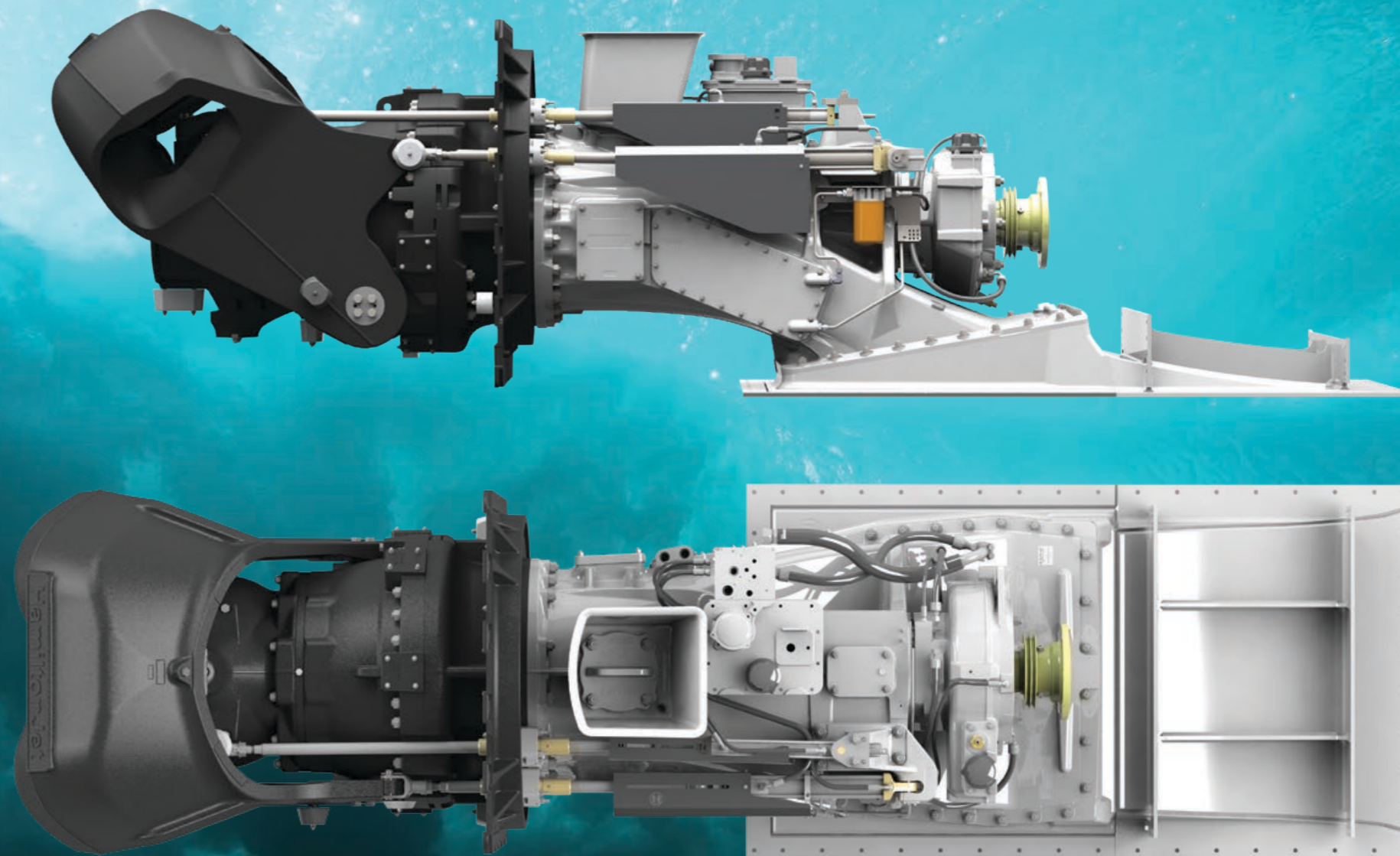
## **Powertrain Compatibility**

HTX is compatible with a diverse range of engines from global manufacturers. Our wide range of impeller ratings allow optimal engine and gearbox selection, and in some cases direct-drive, to reduce drivetrain cost and complexity.

## **Electronic Controls**

HTX has been designed to pair with AVX, our latest control system.

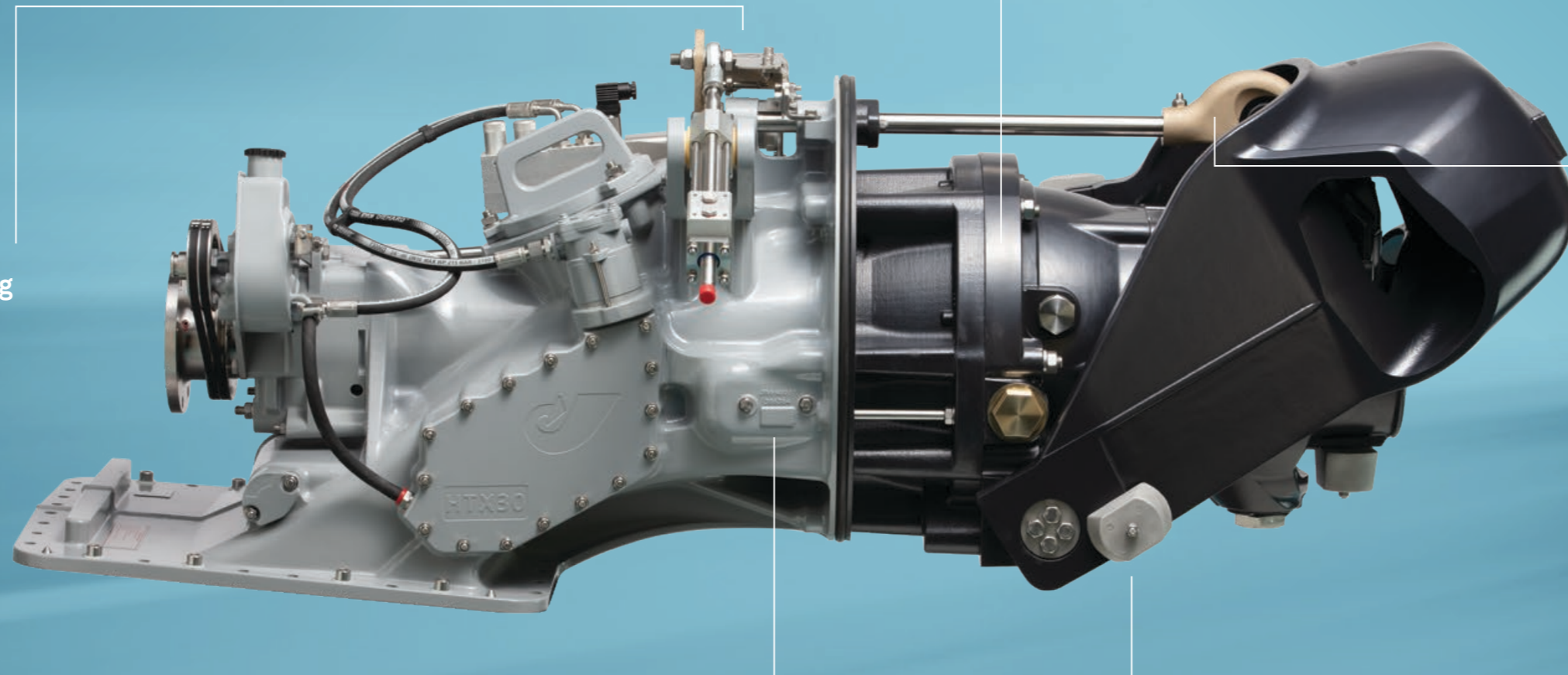
The HTX range comes with integrated hydraulic controls. They are delivered to you tried, tested and ready to work the way you want them to.



# HTX NEXT GENERATION FEATURES

**Improved hydraulic sealing**  
Prevents contamination damage  
and extends seal pack life.

**New intake & screen design**  
The new aerofoil shaped screen bars  
improve overall waterjet efficiency.



**Smoothed flow passage**  
Thoughtfully designed internal fairings  
cover anodes to help improve efficiency.

**New hydrodynamic design**  
Our newly optimised mixed flow  
design increases high speed efficiency  
for speeds of up to 55 knots (vessel  
dependent). This delivers greater  
bollard pull for better position holding  
capability, manoeuvrability  
and acceleration.

**Improved steering systems**  
More precise manoeuvring, minimised  
performance loss in turns and lower  
loads at the helm.

**Refined anode layout**  
Extends product life and better  
aligns maintenance schedules.



#### CASE STUDY

## Workboat Kystverket 1000

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Kystverket is a fast, rigid, specially developed workboat. Built by Maritime Partners it was designed in cooperation with the Norwegian Coastal Authority (NCA).

This versatile, offshore workboat carries three crew members and is powered by a single HamiltonJet HTX30.

A conservative speed prediction for this vessel with HTX30 was 30 knots at 600hp, but it actually achieved 36 knots at this power. The top speed at 650hp was 38 knots, well exceeding the customer's expectations.

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#### VESSEL SPECIFICATIONS

**Service:** Workboat  
**Location:** Norway  
**Length:** 10.3 metres  
**Builder:** Maritime Partners/  
Norwegian Coastal Authority  
**Owner:** Kystverket  
**HamiltonJet:** HTX30 waterjet

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# WORLD-CLASS PRODUCT SUPPORT

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**We are backed by more than 70 years in business as the pioneer and market leader in waterjets and controls.**

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**Our product support and parts availability is truly class-leading. With a global network of regional offices and over 50 appointed distributors, help is always on hand. No matter where you are, in the unlikely event of a problem, downtime is minimised.**

**Our products all come with a commitment to at least 20 years' support after the end of series production\*.**

\*This applies to all HamiltonJet products which reach series production and can be extended longer if a particular project requires it. Beyond this point, we still endeavour to keep you moving where possible.







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# WORK WITH US

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Over the decades we've become trusted partners to boat builders, naval architects and marine operators around the globe. They tell our story better than we do, so if you'd like some references, please get in touch.

Our network is global. Wherever you are, you'll find experienced distributors supported by our own regional office staff to assist you with your project. We'll walk you through the process and can deliver simple or complex projects.

Our market experience is extensive. It covers offshore, pilot, rescue, fire, military, patrol, windfarm, fast ferry, fishing, aquaculture and recreational applications.

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