

The World's Most Powerful Diesel Outboards



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Diesel outboards made for marine performance

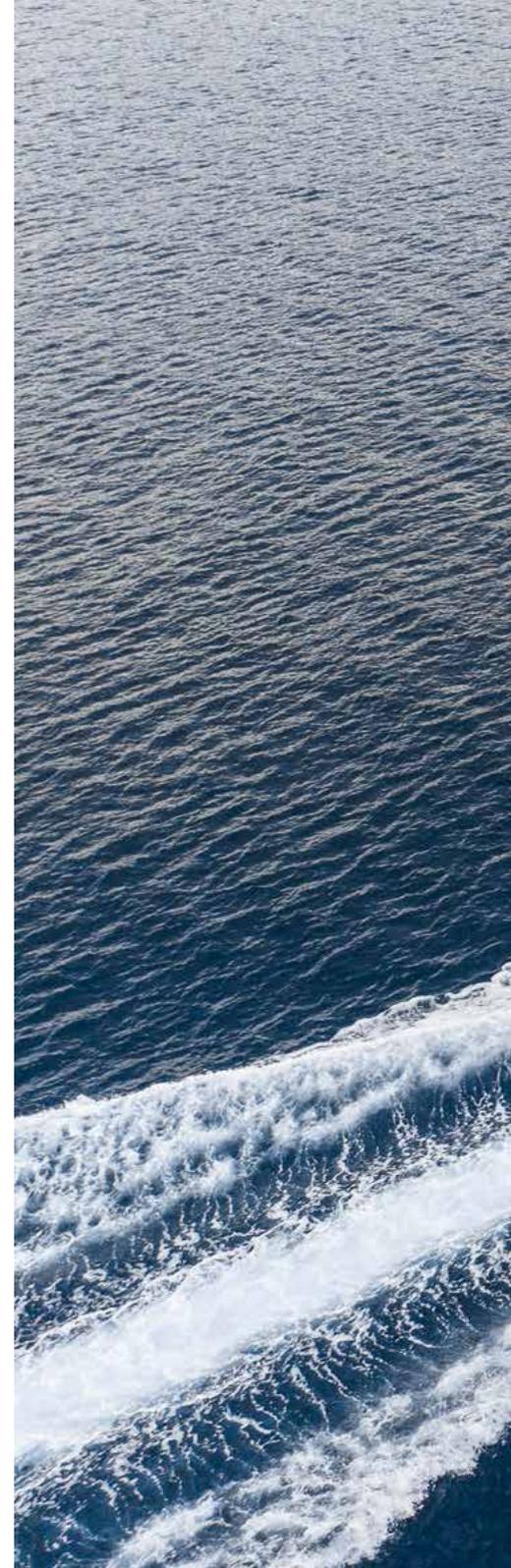
Experience the next generation of marine propulsion

There is a certain dedication that goes beyond simply manufacturing; it's about crafting solutions with a purpose.

Cox Marine embodies this dedication, driven by a clear mission to deliver world-class outboards for safer and cleaner seas.

The Cox Marine 300 hp and 350 hp V8 diesel outboards are the world's most powerful and the only high-powered diesel outboards designed and built specifically for marine applications.

The Cox Marine V8 represents the start of a new generation of marine outboard technology, offering an alternative propulsion solution that helps meet the increasing need for safer and cleaner seas.





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Taking the lead in high-powered diesel outboards

Who is Cox Marine?

Cox Marine is a British marine technology company dedicated to pioneering a safer, cleaner and more efficient approach to boat propulsion. Founded over a decade ago, we set out to challenge conventional thinking by designing and manufacturing high-powered diesel outboards from the ground up, creating purpose-built outboards that offer unrivalled performance and safety.

At our facility in Shoreham-by-Sea, our group of specialists collaborate across engineering, production and testing to deliver the Cox Marine V8: the world's most powerful diesel outboard.

By combining twin-turbo performance with high-pressure fuel injection, advanced cooling and robust corrosion protection, we achieve class-leading torque, fuel efficiency and emissions compliance – giving operators the confidence to tackle the most demanding marine environments.

Today, Cox Marine supports customers in commercial, governmental and recreational sectors around the world. Backed by a network of local distributors and service partners, we provide regional expertise, fast response and genuine technical support.





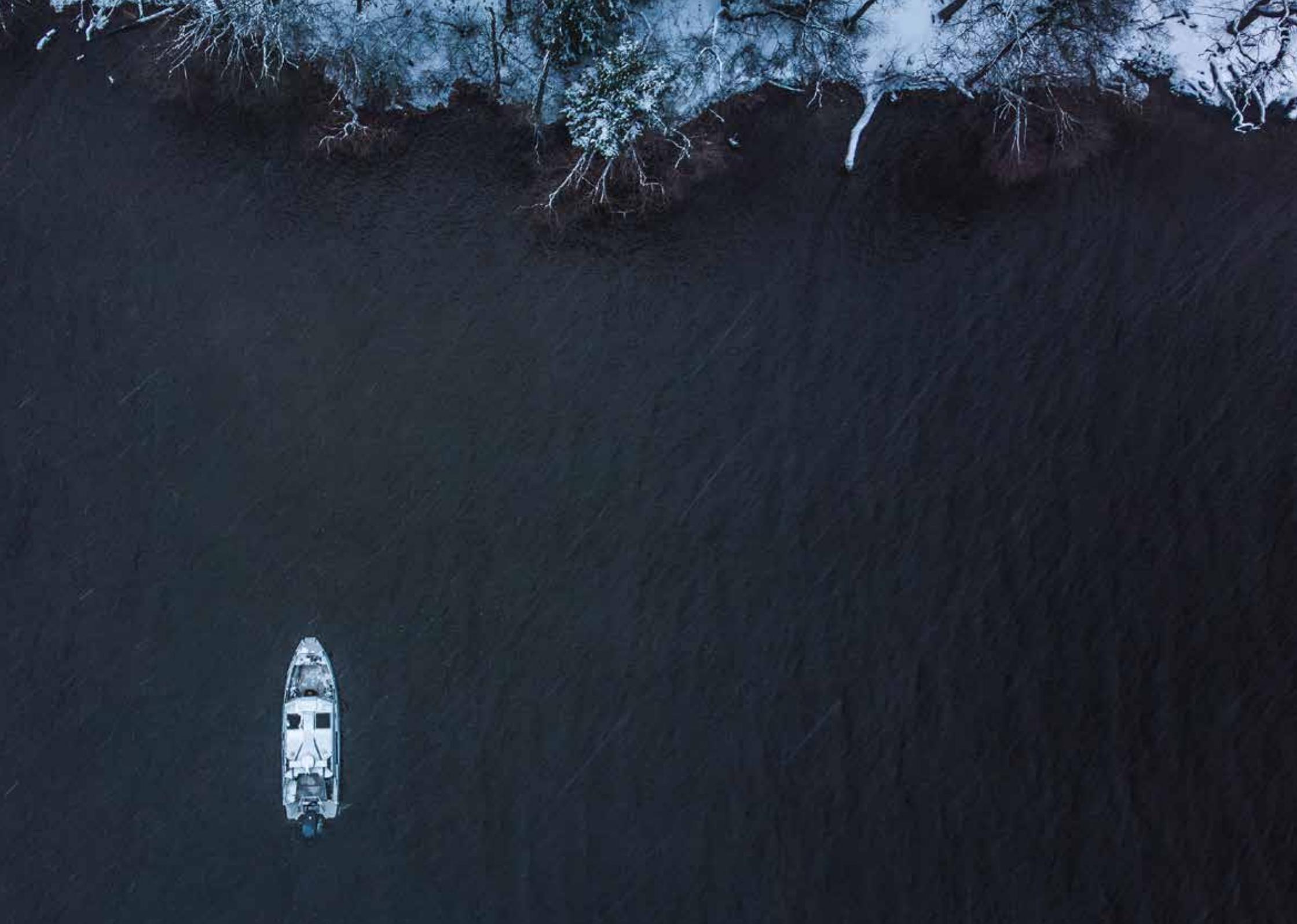
The driving force behind what we do

Our vision is to pioneer the future of safe, sustainable and dependable marine propulsion.

Our vision is the driving force behind every decision at Cox Marine.

Operating from our facility in Shoreham-by-Sea, in the UK, we are dedicated to developing advanced propulsion technologies that directly address the evolving needs of the global marine industry. This involves a steadfast commitment to improving environmental performance through reduced emissions and enhanced fuel efficiency.

We ensure the robust reliability and consistent power delivery that operators depend on for critical applications. Our focus is on providing solutions that not only meet today's rigorous operational demands but also contribute to a more responsible and efficient maritime future for generations to come.



“There has to be a better way”

The belief inspired the founding of Cox Marine and set us on a pioneering journey to develop a lightweight diesel outboard that would not force anyone to compromise on performance, safety or efficiency.

With the launch of our first product, the 300 V8 – a 4.4-litre, twin-turbo, 300-horsepower diesel engine – that vision became reality.

Today, our V8 family also includes the 350 V8, offering 350 horsepower and increased turbo capacity for higher-displacement vessels. Building on the proven architecture of the original, the 350 V8 delivers even greater range, torque and safety – continuing our mission to redefine marine propulsion.





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Dependable diesel outboards for government operations

Safer, cleaner and more efficient diesel outboards for mission-critical government applications.

Engineered to power critical government applications

From coastal patrols and search and rescue operations to maritime surveillance and emergency response, Cox Marine diesel outboards power vital activities worldwide. Built to exceed stringent safety standards and designed for the harshest environments, our V8 delivers the reliability, protection and efficiency that government fleets require.

The Cox Marine V8 diesel outboard replaces petrol engines without the ignition risks or inefficiencies associated with them. Whether supporting navy patrols in the North Sea, coastguard missions in the Gulf of Mexico or border surveillance along the Strait of Hormuz, Cox Marine provides the power and dependability you need.



Military & Defence



First Responders



Unmanned Surface Vessels

The benefits of diesel for professionals

Enhanced safety

In offshore energy zones and other hazardous areas, petrol outboards present an ignition hazard. Our diesel engines use compression ignition, significantly reducing this risk and making them a safer choice for regulated environments.

Extended range

With better fuel efficiency than gasoline engines, Cox Marine outboards allow vessels to travel longer distances and operate for extended periods without refuelling. Ideal for coastal ferries, survey vessels and commercial fishing trips.

Built for uptime

Robust engineering and extended service intervals, with simplified maintenance, help to minimise downtime and reduce the total cost of ownership – an essential factor for busy government fleets and their operators worldwide.

Designed for the real world

Built for commercial use

The V8 diesel outboard is the most powerful of its kind, producing up to 1,052 Nm (776 lb-ft) of torque and 350 hp, meeting international environmental standards.

Supports your local market

With increasing demand for diesel outboards globally, Cox Marine offers products tailored to regional regulations and operator needs, backed by market-specific expertise.

Backed by a global network

Our service and support network spans over 175 territories worldwide, ensuring that Cox Marine customers worldwide benefit from reliable, localised technical assistance.

Supporting defence operations where performance is necessary

Military and defence agencies demand propulsion that performs under pressure—reliably, safely, and without compromise. Whether powering patrol craft, fast-attack boats or specialist mission vessels, Cox Marine diesel outboards are engineered to meet these exacting requirements.

Defence forces select our V8 diesel outboards for their unmatched durability, spark-free operations and extended range. In environments where safety is paramount and maintenance windows are limited, Cox Marine provides a dependable solution supported by a comprehensive network of expertise.





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Powering urgent emergency response operations

In emergencies, response vessels must perform without hesitation. From coastguard patrols to fire and police marine units, Cox Marine diesel outboards deliver the reliability and performance needed to safeguard lives and property at sea.

Trusted by maritime rescue services and enforcement agencies worldwide, Cox Marine outboards are engineered to start instantly, operate longer, and perform safely under extreme pressure. With superior fuel efficiency, spark-free safety and minimal maintenance, they give first responders the edge when every moment matters.





Powering uncrewed marine operation

Uncrewed surface vessels (USVs) are remotely operated or autonomous craft that carry out maritime defence, surveillance and research tasks without a crew onboard. Demanding propulsion systems that offer power, range and minimal maintenance, Cox Marine diesel outboards are increasingly selected for USV platforms operating in challenging, high-risk environments worldwide.

Our V8 diesel outboards deliver the extended endurance, spark-free safety and rugged engineering required for long-duration autonomous missions. From polar monitoring to ecological surveys, Cox Marine is powering the future of uncrewed maritime capability.





Why power USVs with Cox Marine diesel outboards

Hot-swap Capability

Diesel outboards with “hot-swap” capability eliminate the need for time-consuming inboard repairs – rapid replacement gets vessels back on mission fast, delivering vital tactical and logistical advantages for decisive naval operations.

Single Fuel

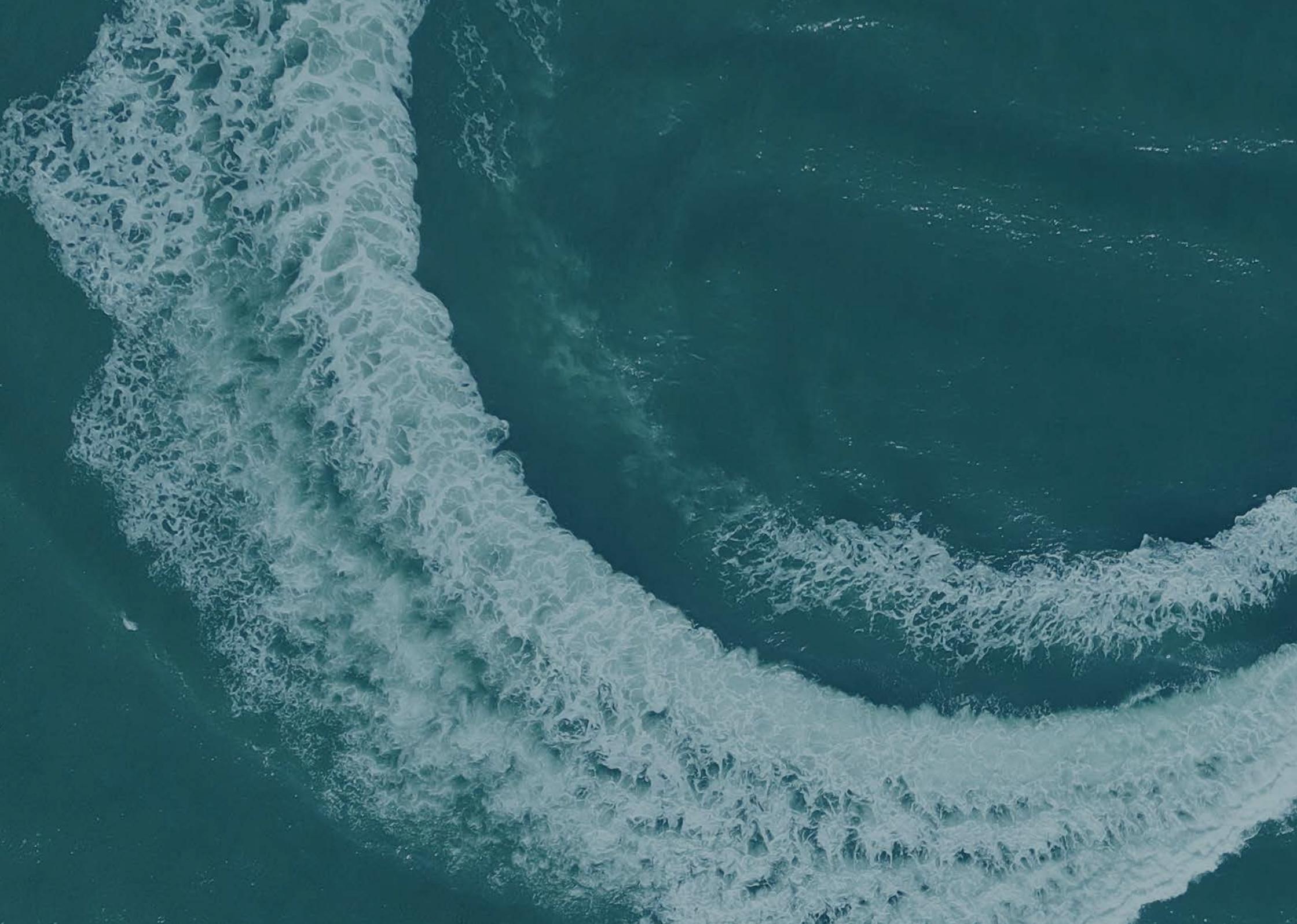
In single-fuel operations, diesel outboards align with naval logistics, utilising the same fuel as larger vessels to boost interoperability, extend range, and enhance endurance, all while offering greater safety and lower volatility compared to gasoline.

Open controls architecture

Cox Marine’s open control architecture gives USV developers the freedom to customise – broadcasting data via standard ISO CANbus for seamless integration, and offering full access to control protocols and error-handling software for tailored autonomy and system compatibility.







Dependable diesel outboard solutions for commercial maritime operations

Safer, cleaner and more efficient diesel outboards for professional operations.

Engineered for professional performance

From North Sea offshore platforms to Caribbean ferry routes and aquaculture in Southeast Asia, Cox Marine diesel outboards are powering essential operations throughout the world. Built to withstand harsh marine environments, our engines provide the durability, safety, and fuel efficiency that professional operators depend on.

The Cox Marine V8 diesel outboard is designed to directly replace petrol outboards—without the associated volatility, emissions, or inefficiencies. Whether you're managing a passenger transfer service in the Aegean, supporting port operations in the Baltic, or operating fisheries off the west coast of Ireland, Cox Marine delivers the power and confidence you need.



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Supporting energy operations where it matters most

From North Sea platforms to Middle Eastern gas fields, offshore oil and gas operations demand equipment that meets the highest standards of safety, reliability and environmental performance. Cox Marine diesel outboards are engineered to excel in these critical environments, providing a dependable and spark-free alternative to petrol engines.

Our V8 diesel outboards already support oil and gas activity across international offshore regions, from spill response vessels to standby support craft. In many jurisdictions, petrol outboards are banned due to the risk of explosion. With its compression-ignition design, the Cox Marine V8 eliminates that hazard, making it the clear choice for high-risk zones and offshore platforms.





Diesel outboards for fishing and aquaculture

From coastal shellfish vessels to inshore fishing boats, commercial craft worldwide rely on their ships for their livelihoods. Designed for long hours in remote or challenging waters, our V8 delivers high torque at low RPM, allowing crews to deploy gear, tend cages, or reach distant fishing grounds with confidence.

As demand grows for clean-burning, durable propulsion, Cox Marine outboards are the preferred choice for operators seeking an efficient, longer-lasting alternative to petrol outboards.





Designed for non-stop maritime operations

From busy container terminals to inland waterway support vessels, maritime operations rely on dependable propulsion that performs consistently day after day. Cox Marine diesel outboards are built to meet the rigours of port work and coastal patrols, offering a safer, cleaner and more efficient alternative to petrol engines.

Although activities differ from port to port, all maritime operators demand consistent performance with minimal downtime. Whether powering pilot boats in South China Sea harbours or supporting harbour security on the Baltic coast, Cox Marine diesel outboards keep your fleet moving.





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Getting people places with sustainable performance

Offering a safer, more economical, and lower-emission alternative to petrol outboards for everything from island-hopping ferries to river taxis. Engineered for demanding conditions and continuous operation, these outboards reduce total ownership costs while providing the safety, endurance, and efficiency ferry operators need for transporting tourists or commuters.

For tourism operators, our diesel outboards provide a cleaner, quieter, and more economical propulsion method, thereby enhancing guest comfort and minimising environmental impact.





Creating memorable marine experiences

Our V8 diesel outboard offers boating enthusiasts refined power through its exceptional combination of smooth operation and excellent fuel economy, establishing a new standard for recreational propulsion. Engineered to perform reliably across diverse marine environments, from the Mediterranean to the Atlantic and Baltic seas, these outboards provide easier access for simplified maintenance and repairs compared to inboard engines.

Trusted globally by those who demand performance, reliability, and peace of mind at sea, from the South of France to Sydney and Hong Kong to Hawaii, this technology delivers proven trust for an unparalleled boating experience.





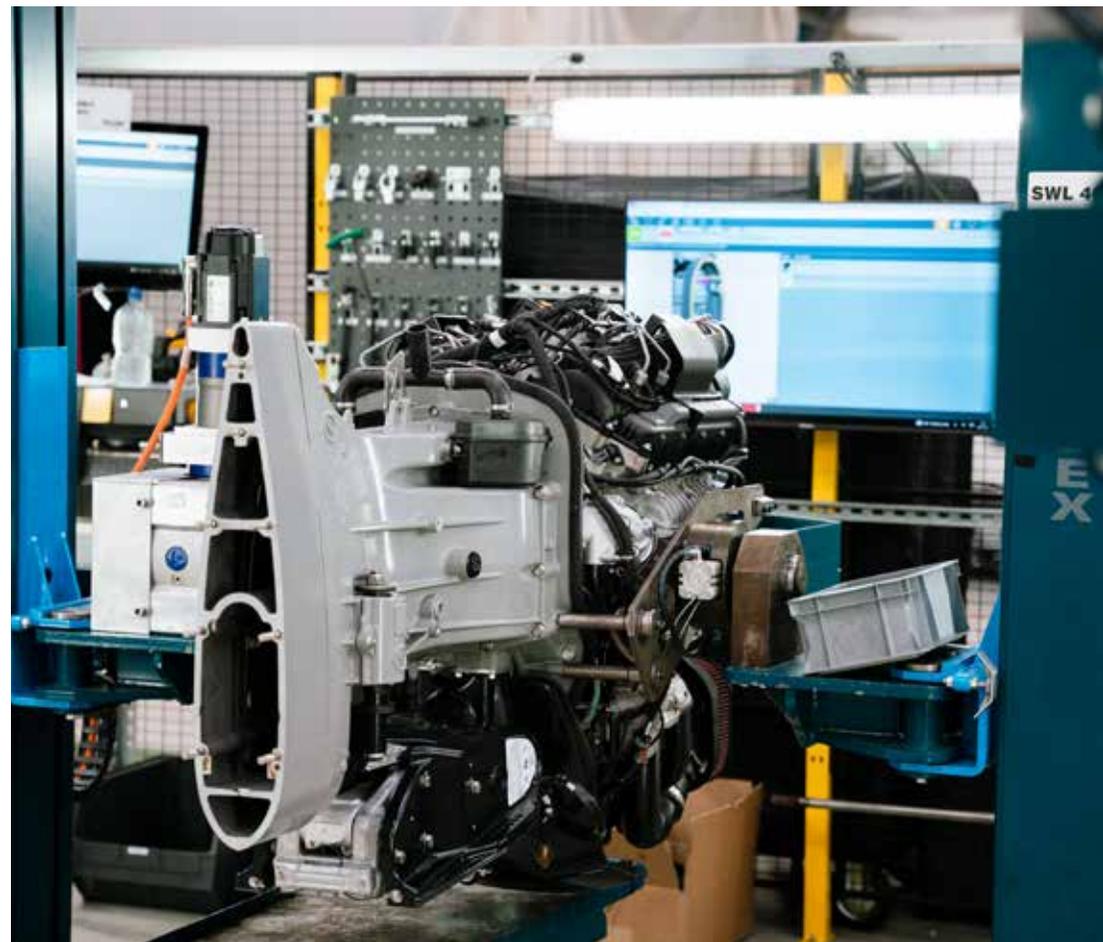
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British engineering and our UK state-of-the-art facility

Innovation starts at our state-of-the-art facility, where cutting-edge engineering meets world-class manufacturing. Our purpose-built production site is a testament to our commitment to quality, sustainability, and continuous investment in the future of marine propulsion.

Designed for precision and efficiency, our facility integrates advanced manufacturing processes with rigorous quality control, ensuring every Cox Marine outboard meets the highest standards of performance and reliability. With a team of expert engineers, skilled technicians, and industry specialists, we are driving the next generation of sustainable marine technology forward.





Cox Marine Diesel Outboard Warranty

We stand behind the quality of our outboards. That's why all engines are backed by our comprehensive warranty, which is tailored for both commercial and recreational users.

Commercial warranty

12-months / 1000-hours

Commercial-plus warranty*

18-months / 1500-hours

Recreational warranty

5-years / 1500-hours

*Commercial+ Warranty is only applicable if the outboard(s) were commissioned in North America, Europe, Australia, New Zealand, South Korea, Singapore & Japan.





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Global support. Local service.

Cox Marine's authorised distributors and dealers form the backbone of our global service and support. Wherever you operate, our partners deliver local expertise, genuine parts and technical assistance to keep your outboards performing at their best.

Our network spans more than 175 territories, ensuring that an authorised dealer is always within reach. From remote island ports to major commercial hubs, you benefit from fast access to parts, repairs and troubleshooting services tailored to regional requirements.





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Supporting our network from the factory

Behind every Cox Marine outboard stands a team of expert engineers committed to our partners' success. From initial integration through to in-service upgrades, our support engineers provide hands-on guidance and system-level troubleshooting to ensure seamless operation.

Whether you need assistance with installations, CANbus integration or performance tuning, our OEM support team works closely with our dealers and distributors to ensure seamless operation. Count on Cox Marine's engineering expertise to deliver robust, turnkey propulsion solutions tailored to your vessel platform.





Genuine spare parts and logistics support

Cox Marine's global distributor network ensures that genuine spare parts are always readily available. Our authorised dealers maintain regional stock holdings of critical components - from filters and seals to complete powerheads - so you can source the exact parts your outboard requires without delay.

Whether you operate in busy ports or remote offshore locations, our logistics capabilities ensure that parts are dispatched swiftly via air or sea freight. We coordinate shipments from strategically located partners to minimise transit times and keep your vessels running.

All spare parts are accompanied by complete technical documentation and guidance, ensuring correct installation and maintaining the engine warranty. Should you need specialised components or bespoke kits, our network can arrange expedited production and delivery.

Partner with Cox Marine's service and support team to benefit from a truly global parts supply chain. Wherever you are based, you can rely on timely access to the components that keep your outboards performing at their peak.





The Cox Marine V8

Technical Specification

The Cox Marine V8 diesel outboard redefines marine propulsion, blending formidable power with sustainability. This meticulously engineered V8 isn't just about raw strength; it's designed for remarkable fuel efficiency and exceptional performance, significantly reducing your environmental impact. It meets and exceeds global emissions standards, holding EPA Tier 3, RCD II, IMO II, and BSO-II certifications, ensuring compliance wherever your mission takes you.

As the most powerful diesel outboard on the market, the V8 is specifically built from the ground up for marine environments. It boasts combined emissions as low as 4.6 g/kWh and delivers an impressive improvement in fuel efficiency compared to equivalent gasoline outboards.

Outboard	300 V8	350 V8
Power at the propeller, kW (hp)	224 (300)	261 (350)
Power at the crank, kW (hp)	230 (308)	267 (358)
Outboard propping speed, rpm	3700 - 4000	
Peak torque at the prop, Nm (lb-ft)	998 (736)	1052 (776)
Outboard weight (25" leg), kg (lb)	393 (866)	
Emissions compliance	EPA 3, IMO II, RCD II, RCR, BSO-II	EPA 3, IMO II, RCD II, RCR
Trim range	-4° to +16°	
Tilt range	71°	
Transom spacing, mm (in.)	762 (30)	
Initial service interval	50 hours	
Recurring service interval	250 hours	150 hours

The V8 delivers its peak torque at a mere 2600 RPM, providing exceptional control, smooth acceleration, and a tranquil ride, enhancing your overall boating experience.

The Cox Marine V8 is backed by a robust 5-year recreational warranty and an 18-month or 1500-hour commercial warranty, reflecting our absolute confidence in its durable construction and lasting performance. This commercially rated engine offers industry assurance, while its recreational warranty provides peace of mind for leisure users.

Experience the future of marine power with the Cox Marine V8 – where cutting-edge technology and responsible engineering reliability converge to deliver an unparalleled boating experience.

Powerhead

Architecture	V8
V angle	60°
Displacement, litre (cu. in.)	4.4 (269)
Bore/Stroke, mm (in.)	84/98.5 (3.3/3.9)
Compression ratio	16:1
Fuel system	Common rail fuel injection
Crankshaft orientation	Vertical
Powerhead oil specification	Fully synthetic API CI-4/SAE 10W40 or 5W40
Powerhead cooling system	Raw-water, open loop
Aspiration	Twin-turbo, with electronic boost control
Strokes / cycle	4

Transmission

Shaft Lengths, mm (in.)	635 (25), 762 (30) & 889 (35)
Clutch type	Dog clutch
Gear ratio	1.46:1
Propeller spline specification, mm (in)	31.75 (1.25) / 19 tooth
Gear drive	90° spiral bevel
Max propeller specifications	16 inch diameter
Standard gear oil specification	API GL-5, 80W-90
Cold climate gear oil specification	API GL-5, 75W-90

Electronics & Controls

System voltage	12 volt
Alternator	Up to 100 Amp flywheel-integrated (default 42A configuration)
Throttle control	Dometic (electronic)
Ignition control	Electric, with key-loss fob and wireless man-overboard technology
NMEA compatibility	NMEA200
Engine displays	Murphy Powerview
Steering system	Dometic Seastar EPS

Warranty

Duty Rating	Light-duty commercial	
Recreational warranty	Five (5) years / 1500 hours	Max. 1 hr. in 12 at full load
	Typical load factor of 30% at up to 400 hours per year	
Commercial warranty	Twelve (12) months / 1000 hours	Max. 2 hrs. in 12 at full load
	Typical load factor of 50% at up to 1500 hours per year	
Commercial+ warranty	Eighteen (18) months / 1500 hours	Max. 2 hrs. in 12 at full load
	Typical load factor of 50% at up to 1500 hours per year	

Commercial+ Warranty is only applicable if the outboard(s) were commissioned in North America, Europe, Australia, New Zealand, South Korea, Singapore & Japan.

Approved fuels

Europe	EN590, European Ultra Low Sulphur Diesel
	BS2869-2017, Class A2, UK Non-Road Diesel
	EN 15940, Paraffinic diesel from synthesis (including HVO)
North America	ASTM D975, Grade 1, US DF1 (military equivalent) - unsuitable for cold climates
	ASTM D975, Grade 2, US DF2 (military equivalent), North American Diesel Fuel
	CAN/CGSB-3.517, Types: A-LS, B-LS, A-ULS, B-ULS, Canadian Low-Sulphur Diesel Fuel
	CAN/CGSB-3.520, Types: A-LS Bx, B-LS Bx, Canadian Low-Sulphur Diesel <5%v/v FAME
Asia	JIS K2204:2007, Grades 1, 2 & 3 & Special Grade 3, Japanese Diesel Fuel
	Ministry of Commerce, Energy and Industry - Notifications No. 2016-20, Korean Diesel
	IS1460: 2017 Bharat IV, Indian diesel fuel (50ppm sulphur)
	IS1460: 2017 Bharat VI, Indian diesel fuel (10 ppm sulphur)
	GB19147-2016 Stage VI: China national on-road standard (<1%v/v FAME)
Oceania	DB11/239-2016, China: Beijing fuel and other Chinese metropolitan fuel standards which have quality equivalent to GB19147-2016
	Australia Fuel Standard (Automotive Diesel) Determination 2001
Africa	SR 2011/352, Schedule 2, New Zealand Diesel
Africa	SANS 342:202014, CF1 & CF2, South Africa Diesel Fuel
Military	NATO F54 (Diesel Fuel Military),
	NATO F75 (Fuel Naval Distillate - Low Pour Point)
	NATO F76 (Fuel Naval Distillate)
Other	Standards equivalent to EN 590 that allow up to 7%v/v FAME meeting EN 14214.
	Standards equivalent to ASTM D975 Grade 2 up to 5%v/v FAME meeting ASTM D6751.
	Marine Distillate ISO 8217 2017 DMX, DMA and DFA

Please note that this Technical Specification is subject to change, and is not to be re-produced in any form without permission.

Record-breaking marine propulsion with sustainable design

At Cox Marine, sustainability is engineered into every outboard we build. From emissions compliance to alternative fuel compatibility and future-focused innovation, we are committed to reducing environmental impact without compromising performance.

Certified clean

The Cox Marine V8 diesel outboard is certified to the world's leading emissions standards, including EPA Tier 3, IMO II, and RCD II. These certifications confirm our engines meet strict limits for NO_x, hydrocarbons and particulate matter, supporting cleaner operations in regulated waterways and emissions-controlled zones around the globe.

Ready for renewable fuels

Cox outboards are fully compatible with HVO (Hydrotreated Vegetable Oil) – a sustainable diesel alternative derived from renewable feedstock. When used with HVO, operators can significantly reduce life-cycle CO₂ emissions compared to conventional diesel, without requiring any engine modification.

Recent trials – including the 350 V8 launch demonstrations and the Pegasus speed record programmes – have proven the outboard's robust performance on HVO, showcasing our commitment to cleaner fuel integration. This compatibility allows fleet operators, governments and private users to make an immediate switch to a more sustainable propulsion solution.



Powering future fuels

Cox Marine is actively investing in next-generation propulsion technologies, including hydrogen-diesel hybrid prototypes. These projects are already in development, supporting the marine industry's long-term transition to zero-emission alternatives. By combining hydrogen energy systems with our proven diesel platform, we aim to deliver scalable and flexible propulsion that meets future emissions targets and operational requirements.

Whether you're adopting HVO today or planning for hydrogen tomorrow, Cox Marine is the partner you can trust to lead the charge in sustainable marine propulsion.



Twin-turbo Engine

The Cox Marine V8 features twin turbos that generate significantly more torque at lower RPM and maintain this power across the entire engine speed range.

Vertical crankshaft

The vertical design enables efficient packaging and direct drive of the transmission, allowing for closer transom spacing in multiple installations.

Power distribution module

Equipped with self-resetting fuses, this module allows for active power management of the outboard power systems.

Controls & steering

The Optimus Steering enhances control of your vessel. Compatibility with NMEA2000 makes it easy to install on a wide range of boats.

Power Tilt-Trim

Designed in-house, the Cox Marine V8's PTT bracket is built to withstand the most demanding sea conditions and has undergone extensive durability testing.

Universal transom bolting pattern

The universal design of this bolting pattern ensures easy installation across a wide variety of vessels, significantly simplifying the re-powering process.





Transmission

Engineered to withstand significant torque, the transmission ensures dependable power delivery, even in demanding sea conditions.

Standard propeller spline

The 1.25" 19-tooth spline output shaft ensures durability and compatibility with a range of industry-standard hub kits and propellers.

Optimus steering

Lock-to-lock turns and wheel effort are programmable to change with engine RPM. The Cox Marine V8 is validated with all Optimus Steering solutions.

NMEA 2000 compatible

The Cox Marine V8 controls have been developed to be compatible with industry standards, including NMEA 2000 and J1939.

Full-colour LCD screen

All helm displays provide engine performance data in high-quality graphics, and you can upgrade to touch-screen displays.

Wireless ignition

CoastKey's remote start system provides freedom of movement around the vessel and a man-overboard detection safety system.

An aerial photograph of a small motorboat on a dark river. The riverbank in the upper left is covered in snow and has bare trees. The water is dark blue with some ripples. The text 'Are you ready to take the next step?' is overlaid in large white font on the left side of the image.

Are you ready to take the next step?

Cox Marine

Unit 8, Cecil Pashley Way, Brighton City Airport
Shoreham-by-Sea, West Sussex
BN43 5FF, United Kingdom

contact@coxpowertrain.com

www.coxmarine.com

