

**OVER 70 YEARS
OF MARINE
INNOVATION**

**ONE FORMIDABLE
DIESEL
RANGE**



 **MERCURY**
Diesel



Mercury Diesel – A new era of technology

Mercury Marine is world renowned for creating innovations that provide boaters the best experiences on the water. From our pioneering sterndrive propulsion systems introduced at the Chicago boatshow more than half a century ago to today's joystick controls that give boaters the confidence and ability to pilot the boat of their dreams even under extreme conditions, Mercury is the undisputed leader in marine power and technology. In the world of diesel, Mercury is proud to provide boaters a complete model range of common rail engines to suit a wide variety of applications with both inline 4 and 6 cylinder QSD models and our new V6 and V8 TDI models.

TDI – Mercury Diesel TDI engines usher a new era of technology that delivers a diesel driving experience superior to any other. Mercury Diesel TDI engines are quiet and smooth with virtually no smoke or odour. Add that to the exceptional reliability and worldwide dealer network support of Mercury Marine and you have inboard or sterndrive diesel power that's simply unbeatable.

QSD – Solid, quiet and dependable are hallmark characteristics of this range. The lightweight, high output turbocharged Mercury Diesel QSD engines deliver petrol-like performance with remarkable fuel economy. The secret to Mercury Diesel's QSD smooth performance lies in its high pressure common rail injection system, coupled with the performance boosting turbocharger and you get the best of both worlds – diesel efficiency with power.

Whether you're offshore fishing, long distance cruising or simply zipping across the water, Mercury Diesel engines offer an enviable alternative.

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Unsurpassed Reliability & Efficiency

Today's recreational boaters demand a higher level of performance from all aspects of their vessels. Advances in boatbuilding materials and techniques, improvements in vessel design, comfort and safety, and significant developments in marine electronics have raised expectations across the board.

Mercury Diesel engines meet this challenge by delivering a level of performance and reliability that sets a completely new standard for marine diesel propulsion. The result of decades of research and cutting-edge innovations, Mercury Diesel engines feature specialised high-pressure common rail and electronic injection fuel systems that provide increased power-to-weight ratios, cleaner starts and less noise. The smoke and odour often associated with diesel engines are all but eliminated. With quiet, effortless start-ups and impressive acceleration, these engines contribute to a superior boating experience.

To ensure maximum performance, all Mercury Diesel engines are SmartCraft™ capable. Multiplexing digital control and communications systems constantly monitor not only engine performance but also fuel tank levels and water depth. With an optional colour helm display that provides instant diagnostics and is easy to read, you'll always be in command of your vessel.

Mercury Diesel is also a leader in meeting stringent industry emission standard certifications.

Diesel Advantages

- > **Outstanding fuel economy and range**
- > **Higher torque for greater power**

Mercury Diesel Advantages

- > **Instant start-up in cold weather**
- > **Virtually smoke & odour free**
- > **Lighter weight / increased power**
- > **Simplified engine information management**
- > **SmartCraft vessel integration**
- > **Unmatched performance**



QSD 2.0 Litre 115-170hp



Compact and Powerful

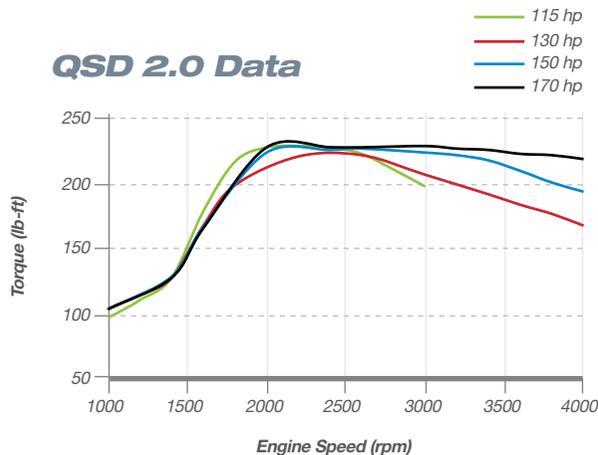
Mercury Diesel is proud to introduce the QSD line. Incorporating cutting-edge technologies such as a high-pressure common rail fuel system and SmartCraft capability, this series is a proven performer in the diesel marine industry.

Combining the quiet, smooth performance of a traditional petrol engine with the added fuel economy, torque and durability of a diesel, this 4-cylinder compact powerhouse features an advanced ECM with SmartCraft compatibility to monitor various engine parameters. The QSD 2.0L also features advanced components like the integrated heat exchanger and exhaust manifold, which also help reduce overall package size. Impressive acceleration and precise throttle response are the result of a proven common rail fuel system that includes a turbocharger and seawater aftercooler.

QSD 2.0L Features

- > **Compatible with Alpha sterndrives and Bravo sterndrives for 170hp**
- > **Turbocharged and seawater aftercooled for quick response and superior performance**
- > **High-pressure common rail fuel system**
- > **EPA Tier 2, IMO and RCD, select ratings BSO/SAV certified**
- > **Counter-balancer shafts for low vibration**
- > **Sterndrive or Inboard**
- > **Drop-in replacement for many petrol engines**
- > **SmartCraft enabled**
- > **16-valve cylinder head for better acceleration**

QSD 2.0 Data



Specifications

Power Mhp (kW)
Full Throttle RPM
Displacement Litres (cu. In)
Engine Type
Fuel System
Volts/Amps/Isolated
Aspiration
Cooling System
Drive Options

QSD 2.0

115(84), 130(96), 150(110), 170(124)
 4000, 3000 on 115hp
 2.0 (122)
 Inline - 4
 Common Rail
 12V /110amp
 Turbocharged/ Aftercooled/ Wastegated
 Closed Cooled
 Alpha (130, 150), Bravo One X, Bravo Two X and
 Bravo Three X (170) or Inboard transmissions

QSD 2.8 Litre 220hp



Compact and Durable

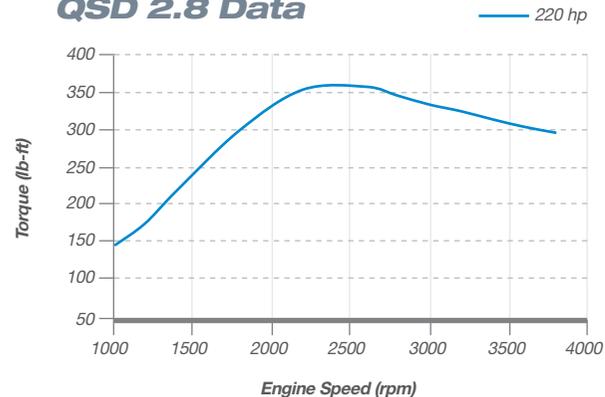
The QSD 2.8L at 220hp provides added power for mid-range vessels in either twin or single configurations. Featuring a high-pressure common rail fuel system and SmartCraft™ capability, this 4-cylinder powerhouse offers reduced noise, improved sociability and is a perfect fit for a wide variety of sterndrive and inboard applications.

Don't be fooled by its compact design. The QSD 2.8L is built to last. With a gear driven camshaft and patented tunnel design crankcase with wet liners, this diesel is extremely durable. Hydraulic lifters and counterbalancing shafts reduce noise and vibration; while a proven common rail fuel system significantly reduces emissions. Precise throttle response is aided by a turbocharger and a seawater aftercooler, while an advanced ECM with SmartCraft compatibility provides system monitoring and control never before seen in a diesel engine this size.

QSD 2.8L Features

- > **Compatible with Bravo sterndrives**
- > **Turbocharged and seawater aftercooled for quick response and superior performance**
- > **High-pressure common rail fuel system**
- > **EPA Tier 2, IMO and RCD, select ratings BSO/SAV certified**
- > **Counter-balancer shafts for low vibration**
- > **Sterndrive or Inboard**
- > **Drop-in replacement for many petrol engines**
- > **SmartCraft enabled**

QSD 2.8 Data



Specifications

Power Mhp (kW)
Full Throttle RPM
Displacement Litres (cu. In)
Engine Type
Fuel System
Volts/Amps/Isolated
Aspiration
Cooling System
Drive Options

QSD 2.8

220(160)
3800
2.8 (169)
Inline - 4
Common Rail
12V /110amp
Turbocharged/ Aftercooled/ Wastegated
Closed Cooled
Bravo One X, Bravo Two X and Bravo Three X
Sterndrives or Inboard transmissions

QSD 4.2 Litre 270-350hp



Durable and Powerful

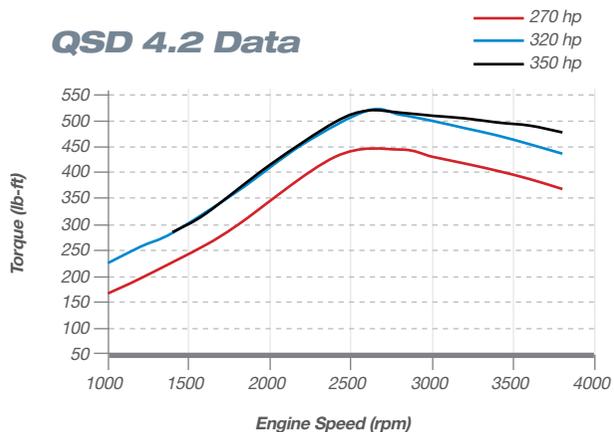
Where more power is needed, the 6-cylinder QSD 4.2L rounds out the QSD line. Designed for sterndrive and inboard applications and featuring a high-pressure common rail fuel system and SmartCraft capability, this compact diesel offers reduced noise and improved sociability up to 350hp.

With a gear driven camshaft and patented tunnel design crankcase with wet liners, this diesel is extremely durable. Impressive acceleration and precise throttle response are the result of a proven common rail fuel system that includes a turbocharger and seawater aftercooler. An advanced ECM with SmartCraft compatibility provides system monitoring and control.

QSD 4.2L Features

- > *Compatible with all Bravo sterndrives*
- > *XR standard on 350hp*
- > *Turbocharged and seawater aftercooled for quick response and superior performance*
- > *High-pressure common rail fuel system*
- > *EPA Tier 2, IMO and RCD, BSO/SAV certified*
- > *Sterndrive or Inboard*
- > *Drop-in replacement for many petrol engines*
- > *SmartCraft enabled*

QSD 4.2 Data



Specifications

Power Mhp (kW)
Full Throttle RPM
Displacement Litres (cu. In)
Engine Type
Fuel System
Volts/Amps/Isolated
Aspiration
Cooling System
Drive Options

QSD 4.2

270(199), 320(235), 350(257)
 3800
 4.2(254)
 Inline - 6
 Common Rail
 12V /110amp
 Turbocharged/ Aftercooled/ Wastegated
 Closed Cooled
 Bravo One X, Bravo Two X and Bravo Three X
 (XR standard on 350) Sterndrives or
 Inboard transmissions



TDI 3.0 Litre 230-260hp



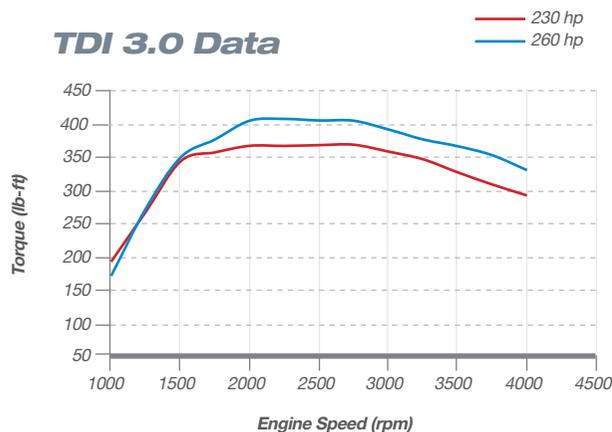
Compact & Efficient

The TDI 3.0L V6 provides high power density in a compact lightweight package, delivering a world-class propulsion system design specifically for marine applications. On this engine, the VGT turbo provides peak torque at 2000rpm, resulting in reduced time to plane and outstanding overall operating characteristics. This compact package is exceptionally versatile and suitable for many petrol engine repowers. Excellent acceleration and fuel savings (versus petrol) results in more time on the water.

TDI 3.0L V6 Features

- > Common rail fuel system providing precise fuel control, nearly eliminating the traditional noisy sound associated with diesels, producing exceptional fuel economy and no smoke or smell
- > Exceptionally lightweight
- > Closed cooled engine, providing the ultimate in engine corrosion resistance
- > RCD ready, IMO 2, EPA Tier 3, BSO 2
- > Compatible with Bravo One X, Bravo Two X and Bravo Three X Sterndrives and Inboard transmissions
- > Standard SmartCraft instrumentation

TDI 3.0 Data

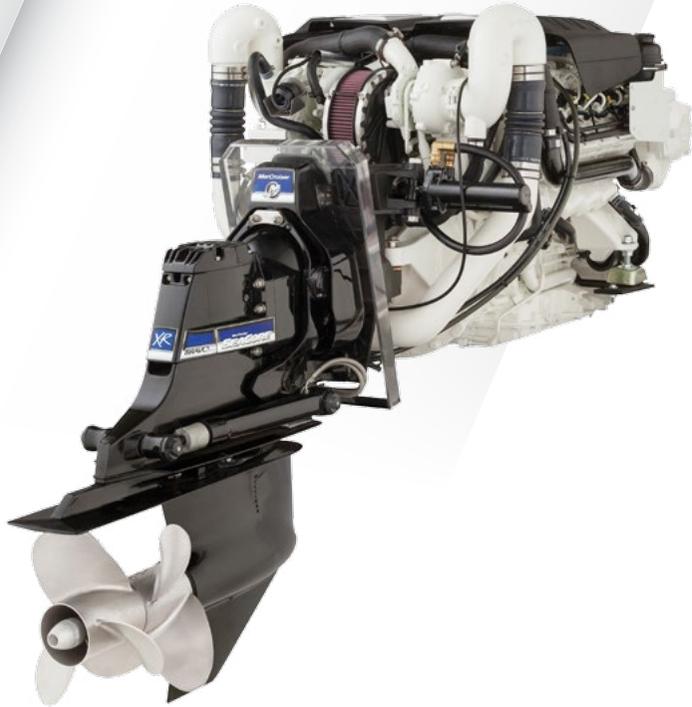


Specifications

TDI 3.0

Power Mhp (kW)	230(169), 260(191)
Full Throttle RPM	4000
Displacement Litres (cu. In)	3.0L
Engine Type	6-Cylinder V,
Fuel System	Common Rail
Volts/Amps/Isolated	12V/180amp
Aspiration	VGT (Variable Geometry Turbo)
Cooling System	Closed Cooled
Drive Options	Bravo One X, Bravo Two X and Bravo Three X Sterndrives and Inboard transmissions

TDI 4.2 Litre 335-370hp



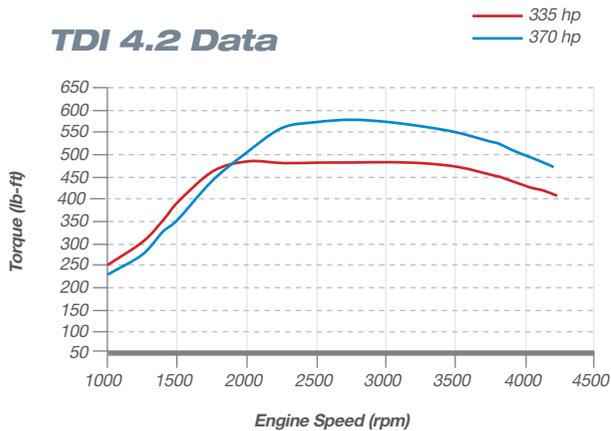
Smooth & Powerful

This Mercury Diesel engine sets a new benchmark for low noise and vibration, with industry leading, unmatched power to weight ratio that delivers outstanding acceleration. All possible through Twin VGT turbo chargers which provide peak torque at 2750rpm with virtually no turbo lag.

TDI 4.2L V8 Features

- > **Common rail fuel system providing precise fuel control, nearly eliminating the traditional noisy sound associated with diesels, producing exceptional fuel economy and no smoke or smell**
- > **Exceptionally lightweight**
- > **Closed cooled engine, providing the ultimate in engine corrosion resistance**
- > **Water-jacketed turbo chargers and exhaust system, reducing excessive engine compartment temperatures**
- > **RCD ready, IMO 2, EPA Tier 3, BSO 2**
- > **Compatible with Bravo One, Two and Three XR sterndrives or Inboard transmissions**
- > **Standard SmartCraft instrumentation**

TDI 4.2 Data



Specifications

Power Mhp (kW)
Full Throttle RPM
Displacement Litres (cu. In)
Engine Type
Fuel System
Volts/Amps/Isolated
Aspiration
Cooling System
Drive Options

TDI 4.2

335(246), 370(272)
 4200
 4.2L
 8-Cylinder V
 Common Rail
 12V/140amp
 Twin VGT (Variable Geometry Turbo)
 Closed Cooled
 Bravo One XR, Bravo Two XR, and Bravo Three XR
 Sterndrives or inboard transmissions

Sterndrives



Alpha

is ideal for single or twin applications in fishing boats, runabouts and small cruisers. Versatile and fast, it features a fish line cutter and anti-feedback steering.



Bravo One X

performs superbly under high stress requirements. Heavy-duty shafts and bearings coupled to near-net-forged spiral bevel gears withstand heavy torque and thrust loads.



Bravo Two X

is superior for larger cruisers and houseboats where extra thrust is needed to get up on and maintain plane at slower speeds.



Bravo Three X

has counter-rotating props providing improved acceleration and tracking. Large rudder area provides excellent handling for single engine boats.



Bravo XR

has stronger U joint to handle additional torque and net forged straight bevel gears for enhanced strength.

*Bravo 3 version pictured

Engineered specifically to enhance the performance and durability of our fuel efficient diesel engines, MerCruiser sterndrives are uniquely suited to maximise your engine's performance.

The Bravo X sterndrive series features an improved hydrodynamic profile, precision-forged gears for longer life and redesigned clutch assembly for effortless, quiet shifting. To maintain full control in case of an emergency, the exclusive Power Trim XD Memory System allows the drive to return to the original trim position even after striking an underwater object. For a wide array of applications – yacht tender, coastal fishing, runabouts or cruisers – Mercury Diesel offers a reliable and versatile drive and a wide range of props to make the most of your engine's power.

All MerCruiser Sterndrives Include:

- > **Power trim**
- > **Power steering**
- > **MerCathode protection to neutralise corrosive galvanic electrical currents that can destroy metal components (optional on Alpha)**

Vessel Integration & Information Management

The industry-leading vessel information technology just got better! The next generation of SmartCraft gauges will be standard across Mercury Diesel Inboard and Sterndrive engines and offer the maximum amount of vessel control and information management in the marketplace, resulting in the ultimate outcome of intuitive boating. Estimated range, fuel consumption, maintenance updates and engine temperature are all at your fingertips with the advanced SmartCraft system. By constantly monitoring and integrating the wealth of information your vessel can provide, SmartCraft allows you to fully maximise every aspect of your vessel's performance!

SmartCraft lets you:

- > **Invest in a system that is adaptable so you don't have to replace it when future enhancements are available**
- > **Feel confident that you have a system that is proven and reliable and won't leave you stranded**
- > **Have instant access to the information on the performance of your vessel**
- > **Know when something is going wrong and how to respond**
- > **Know how far you can cruise with the fuel you have on board**
- > **Have one simple integrated system so you don't have to learn and monitor multiple systems**



SmartCraft means integrated...

Features: Intuitive functions simplify operator interaction and increases operator's level of control with auto sync single lever, cruise control (DTS only), throttle only, and one lever control.

Control: SmartCraft control coordinates motion control with throttle and gear (DTS only).

Redundancy: SmartCraft systems provide redundancy to protect the operator against single point failures to get the vessel home including electrical isolation and backup of motion control commands.

Protection: SmartCraft instantly notifies the operator of problems as they arise and coordinates features and controls to anticipate the needs of the vessel's operation, reducing the workload on the operator.

Sensors: SmartCraft sensors provide continual and reliable knowledge of how the vessel is operating including tank levels, steering, speed, and others.

Information: Constant access to critical data such as engine and transmission information, fuel management and trip summaries allow the operator to make decisions easily and enjoy the ride.



Gauges

Standard Diesel Instruments Include:

- > Tachometer
- > Volt meter
- > Coolant temperature gauge
- > Oil pressure gauge
- > Trim gauge (sterndrive only)



SmartCraft SC1000 Tacho, Speedo & System Link Gauges

Optional Displays

VesselView is the premier engine information display for recreational boaters. It's your information portal to your boat, displaying over 30 live engine parameters including fuel level and range, oil temperature and pressure, battery volt and more. Complete with gateway functionality the VesselView system allows for SmartCraft data to be displayed on other NMEA devices.

VesselView 4 is equipped with a 4 inch glass screen allowing simultaneous display of up to two engines. VesselView 7 supports up to four engines on an easy to read 6.4 inch glass touchscreen.



VesselView® 7



VesselView® 4

Vessel Control



DTS Features & Benefits:

- > **Smoother, faster shifting and accelerating because the system does the shifting for you**
- > **Eliminates the more abrupt, imprecise shifting so common among purely mechanical systems**
- > **Resistance adjustable to operator's preference**
- > **Does not rely on bulky mechanics of traditional systems so there is no kinking of cables and no cable adjustments are needed**
- > **"SmartStart" feature eliminates risk of ruining the starter from accidentally turning key when engine is running**

At Mercury Diesel, our goal is to make your boating life simple, easy and enjoyable. We achieve this through developing highly reliable and innovative engines and then pairing them with superior electronic engine controls such as our optional **Digital Throttle and Shift (DTS)**.

Reducing the difficulty of boating through effortless Digital Throttle & Shift (DTS)

Single or Dual Engine Applications: The DTS system may be used in applications with either one or two engines. DTS does not require additional control boxes or vessel wiring.

Single Lever Control: Single lever control permits gear and throttle control using a single lever. The DTS system protects the engines and transmissions during shifting.

Two Button Station Transfer: A "TRANSFER" button is provided on the control head to allow the boat operator to take control at a different helm station. The DTS control system has a "two button" press process. One button press starts the transfer. If the handles at the station taking control are in an appropriate position, a second button press completes the station transfer process.

Multiple Station Capability: Multiple station capability available with QSD or TDI.

Gear Lockout: A dedicated "Throttle Only" button is provided on the control head to lock the gear in the neutral position so that the engine can be "warmed up" at the dock. An indicating light provides positive feedback to the boat operator that the engine may be safely throttled up in neutral while at the dock.

Automatic Engine Synchronisation: At key "ON", the system default is for auto sync to be on. As long as the levers' positions are close, the DTS system will control the port engine speed to match the starboard. If the operator desires to run engines out of sync, a button is provided to turn sync OFF.

Gear Position Indicating Lights: The control head includes an indicator light(s) to let the operator know when the transmission is in the neutral gear position.

Easy Installation: DTS control is integrated as part of the base SmartCraft system and has been engineered for easy installation. DTS architecture incorporates redundancy for peace of mind.

Dock Mode: The DTS system in dock mode increases throttle resolution for docking. It makes the lever input less sensitive, allowing the operator to have better engine rpm control in close quarter maneuvers.



Axius

Total boat control at your fingertips

Joystick Piloting

Axius® drive system has elevated boat control to a new level of ease and simplicity. Perhaps no boating environment is more challenging and nerve-wracking than piloting and docking a large boat in a crowded marina. Throw in crosswinds, currents and other distractions and the feeling of chaos can loom. Relax – Axius joystick piloting eliminates docking anxiety forever.

At the heart of Mercury® Axius is the ergonomically designed joystick that provides single-handed, intuitive, easy and natural control of your boat.

- > **Push the joystick to the right and your boat moves sideways to the right**
- > **Push the joystick left and your boat moves to the left**
- > **Twist the joystick to the left or right and your boat will rotate in that direction**
- > **Push toward the bow to move forward, toward the stern to move backward**
- > **You control the speed by the amount of pressure you apply**

This unprecedented level of control and ease is made possible by a joystick system that directs two independently steered sterndrives to turn driver input into easy and accurate complex maneuvers.

*Must be a DTS Bravo base engine – Consult your dealer for Axius specific model





AXIUS[®] PREMIER Changes everything on open water

While Axius delivers incredible joystick docking, Axius Premier provides benefits in open water that elevate boating to a new level of enjoyment and satisfaction.

Skyhook[®] Digital Anchor

Now you can maintain your place in line at the fuel dock, stay locked onto your favourite fishing spot or hold a fixed position while waiting for a bridge or lock to open without constantly adjusting your controls. With the touch of a button, Skyhook technology uses GPS satellites to pinpoint your boat's position, then controls your engines and drives to maintain your position and alignment even in wind and current.

Auto Heading

Auto Heading uses a built-in digital compass to maintain course and make precise corrections with the touch of your finger. When Auto Heading is engaged, you can correct course by one degree with a single tap on the joystick control, or adjust by 10 degrees with a single tap on the control pad.



Waypoint Sequencing

We've taken chart plotting to a new level of ease and accuracy with Waypoint Sequencing. Using your VesselView[®] screen, you can plot your course along multiple points on the way to your final destination. Waypoint Sequencing follows your inputs and precisely navigates the route, which makes getting there easier than ever.



SeaCore System™

The World's Premier Saltwater System

Core Protection with a Three Year Limited Corrosion Warranty. Unmatched Corrosion Protection. Unequaled Performance.

Saltwater can take its toll on marine propulsion systems. This is why the **SeaCore System** offers more than just improved corrosion resistance. It's as close as a marine propulsion system can come to being corrosion-proof.

In developing the revolutionary **SeaCore System**, we've moved the entire industry forward in a way that makes other saltwater engines and drives seem instantly inferior. Rather than just enclosing the drive components in a plastic shell, we protect them all the way to the core with industrial hardcoat anodising and a closed-cooling system. All of which makes for the ultimate in corrosion protection.



- > **Industrial hardcoat anodised XK360 aluminium alloy for Bravo running gear**
- > **MerCathode active corrosion protection**
- > **Closed-cooling system seals engine from saltwater**

SeaCore Availability

Diesel Power Options:

- QSD 2.0L - 170hp (Bravo)
- QSD 2.8L - 220hp
- QSD 4.2L - 270hp
- QSD 4.2L - 320/350hp
- TDI 3.0L - 230hp
- TDI 3.0L - 260hp
- TDI 4.2L - 335hp
- TDI 4.2L - 370hp

Sterndrive Options:

- Bravo One Diesel X
- Bravo Two Diesel X
- Bravo Three Diesel X
- Bravo One Diesel XR
- Bravo Two Diesel XR
- Bravo Three Diesel XR



Rated Power Output

RPM	QSD 2.0L 115		QSD 2.0L 130		QSD 2.0L 150		QSD 2.0L 170		QSD 2.8L 220		QSD 4.2L 270		QSD 4.2L 320		QSD 4.2L 350		TDI 3.0L 230		TDI 3.0L 260		TDI 4.2L 335		TDI 4.2L 370	
	kw	bhp																						
4200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	244	327	281	377	
4000	-	-	95	128	110	148	124	167	-	-	-	-	-	-	-	-	168	225	189	253	243	326	282	378
3800	-	-	96	128	109	146	120	161	160	214	199	266	235	315	257	345	-	-	-	-	-	-	-	-
3000	84	113	88	118	96	128	98	131	143	191	183	246	213	285	217	291	154	206	168	225	207	277	244	327
2200	72	96	69	92	-	-	-	-	110	148	-	-	142	190	-	-	-	-	-	-	-	-	-	-
2000	65	87	-	-	64	85	65	87	-	-	-	-	-	-	118	158	105	141	115	154	138	185	141	189
1000	14	19	15	20	15	20	15	20	20	27	24	32	32	43	32	43	28	37	24	33	36	48	33	44

Full Load Torque

RPM	QSD 2.0L 115		QSD 2.0L 130		QSD 2.0L 150		QSD 2.0L 170		QSD 2.8L 220		QSD 4.2L 270		QSD 4.2L 320		QSD 4.2L 350		TDI 3.0L 230		TDI 3.0L 260		TDI 4.2L 335		TDI 4.2L 370	
	N-m	ft-lb																						
4200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	551	406	638	471	
4000	-	-	228	168	263	194	297	219	-	-	-	-	-	-	-	-	399	294	451	332	577	426	673	497
3800	-	-	240	177	273	201	301	222	401	296	499	368	591	436	647	477	-	-	-	-	-	-	-	-
3000	268	198	281	207	304	224	310	229	453	334	583	430	676	499	690	509	488	360	534	394	653	482	775	572
2200	310	229	299	221	-	-	-	-	479	354	-	-	615	454	-	-	-	-	-	-	-	-	-	-
2000	309	228	-	-	304	224	309	228	-	-	-	-	-	-	563	415	500	369	551	407	655	483	676	500
1000	132	97	141	104	141	104	141	104	195	144	226	167	305	225	305	225	264	195	234	173	340	251	311	230

Fuel Consumption - Prop Curve

RPM	QSD 2.0L 115		QSD 2.0L 130		QSD 2.0L 150		QSD 2.0L 170		QSD 2.8L 220		QSD 4.2L 270		QSD 4.2L 320		QSD 4.2L 350		TDI 3.0L 230		TDI 3.0L 260		TDI 4.2L 335		TDI 4.2L 370	
	l/hr	gal/hr																						
4200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	69.4	18.3	79.9	21.1
4000	-	-	29.5	7.8	34.1	9.0	37.3	9.9	-	-	-	-	-	-	-	-	47.7	12.6	53.7	14.2	68.2	18	78.8	20.8
3800	-	-	23.8	6.3	26.6	7.0	30.4	8.0	50.0	13.2	60.6	16.0	71.9	19.0	81.4	21.5	40.5	10.7	45.4	12	66.6	17.6	78.5	20.7
3000	21.8	5.8	12.7	3.3	13.6	3.6	15.1	4.0	24.2	6.4	28	7.4	32.3	8.5	34.7	9.2	21.9	5.8	24.1	6.4	53.1	14	65	17.2
2200	9.5	2.5	5.8	1.5	-	-	-	-	10.5	2.8	-	-	14.1	3.7	-	-	-	-	-	-	39.1	10.3	47.9	12.7
2000	7.6	2.0	-	-	5.1	1.3	5.7	1.5	-	-	-	-	-	-	12.2	3.2	7.9	2.1	8.5	2.3	35.4	9.4	40.6	10.7
1000	1.5	0.4	1.2	0.3	1.2	0.3	1.2	0.3	1.7	0.4	2.1	0.5	1.8	0.5	2.7	0.7	1.8	0.5	2	0.5	11.1	2.93	37.6	9.9

Rated Conditions: Ratings are based upon ISO 15550 reference conditions; air pressure of 100 kPa [29.612 in Hg], air temperature 25°C [77 deg F] and 30% relative humidity. Power is in accordance with IMCI procedure. Member NMMA.

Rated Curves (upper): Represents rated power at the crankshaft for mature gross engine performance capabilities obtained and corrected in accordance with ISO 15550. Propeller Curve (lower) is based on a typical fixed propeller demand curve using a 2.7 exponent.

Propeller Shaft Power is approximately 3% less than rated crankshaft power after typical reverse/reduction gear losses and may vary depending on the type of gear or propulsion system used.

Fuel Consumption: Based on fuel of 35°C API gravity at 16°C [60°F] having LHV of 42,780 kJ/kg [18390 Btu/lb] and weighing 838.9 g/liter (7,001 lb/U.S. gal).

*Test data not yet available.

Engine Specifications

	QSD 2.0L 115	QSD 2.0L 130	QSD 2.0L 150	QSD 2.0L 170	QSD 2.8L 220	QSD 4.2L 270	QSD 4.2L 320	QSD 4.2L 350	TDI 3.0L 230	TDI 3.0L 260	TDI 4.2L 335	TDI 4.2L 370
Power hp -Kw	115 - 84kW	130 - 96kW	150 - 110kW	170 - 124kW	220- 160kW	270 - 199kW	320 - 235kW	350 - 257kW	230 - 169kW	260 - 191kW	335 - 246kW	370 - 272kW
Max rpm	3000	4000	4000	4000	3800	3800	3800	3800	4000	4000	4200	4200
Max torque	310 [Nm] @ 2400 rpm	301 [Nm] @ 2600 rpm	308 [Nm] @ 2600 rpm	310 [Nm] @ 2600 rpm	485 [Nm] @ 2600 rpm	603 [Nm] @ 2600 rpm	703 [Nm] @ 2600 rpm	704 [Nm] @ 2600 rpm	500.1 [Nm] @ 2000 rpm	555 [Nm] @ 2000 rpm	655 [Nm] @ 2000 rpm	782 [Nm] @ 2750 rpm
Displacement	2.0 [L]	2.0 [L]	2.0 [L]	2.0 [L]	2.8 [L]	4.2 [L]	4.2 [L]	4.2 [L]	3.0 [L]	3.0 [L]	4.2 [L]	4.2 [L]
Cylinders layout	4 in Line	4 in Line	4 in Line	4 in Line	4 in Line	6 in Line	6 in Line	6 in Line	V-6	V-6	V-8	V-8
Bore & Stroke	83x92mm	83x92mm	83x92mm	83x92mm	94x100mm	94x100mm	94x100mm	94x100mm	83X91mm	83X91mm	83x95mm	83x95mm
Fuel Consumption LPH @ rated RPM	21.86@3000	29.55@4000	34.16@4000	37.36 @ 4000	50.6 @ 3800	60.66 @ 3800	71.96 @ 3800	81.46 @ 3800	47.7 @ 4000	53.7 @ 4000	TBA*	TBA*
Overall dim. (L x W x H)	802x710x727mm	802x710x727mm	802x710x727mm	802x710x727mm	861x772x793mm	1077x773x790mm	1077x773x790mm	1077x773x790mm	927x813x853mm	927x813x853mm	1206x835x836mm	1206x835x836mm
Fuel injection	Common Rail	Common Rail	Common Rail	Common Rail	Common Rail	Common Rail	Common Rail	Common Rail	Common Rail	Common Rail	Common Rail	Common Rail
Turbo	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Variable Geometry Turbo (VGT)	Variable Geometry Turbo (VGT)	Twin Variable Geometry Turbo (VGT)	Twin Variable Geometry Turbo (VGT)
Cooling	Closed Cooling	Closed Cooling	Closed Cooling	Closed Cooling	Closed Cooling	Closed Cooling	Closed Cooling	Closed Cooling	Closed Cooling	Closed Cooling	Closed Cooling	Closed Cooling
Fuel type	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Emission	RCD/IMO 2/EPA Tier 2/BSO 2	RCD/IMO 2/EPA Tier 2	RCD/IMO 2/EPA Tier 2/BSO 2	RCD/IMO 2/EPA Tier 2/BSO 2	RCD/IMO 2/EPA Tier 2	RCD/IMO 2/EPA Tier 3/BSO 2*	RCD/IMO 2/EPA Tier 3/BSO 2	RCD/IMO 2/EPA Tier 3/BSO 2	RCD/IMO 2/EPA Tier 3/BSO 2			
SmartCraft	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Digital Throttle & Shift (DTS)	N/A	N/A	N/A	(Bravo)	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Axius	N/A	N/A	N/A	N/A	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Eng. Weight (kg)	250kg	250kg	250kg	250kg	360kg	460kg	460kg	460kg	306kg	306kg	379kg	379kg
Eng Weight (incl. drive & transom) Alpha 1	N/A	322kg	322kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Eng Weight (incl. drive & transom) Bravo 1 X	N/A	N/A	N/A	355kg	465kg	565kg	565kg	N/A	411kg	411kg	484kg [^]	484kg [^]
Eng Weight (incl. drive & transom) Bravo 2 X	N/A	N/A	N/A	362kg	472kg	572kg	572kg	N/A	418kg	418kg	491kg [^]	491kg [^]
Eng Weight (incl. drive & transom) Bravo 3 X	N/A	N/A	N/A	367kg	477kg	577kg	577kg	577kg [^]	423kg	423kg	496kg [^]	496kg [^]
Eng Weight (Incl. Transmission)	275kg (TM345)	275kg (TM345)	275kg (TM345)	286kg (TM485)	396kg (TM485)	504kg (ZF63A)	504kg (ZF63A)	504kg (ZF63A)	350kg (ZF63A)	350kg (ZF63A)	423kg (ZF63A)	423kg (ZF63A)

*Test data not yet available.

[^]XR Drive

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High Output (HO) duty rating

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High Output (HO) duty rating

* Not applicable to commercial.

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High Output (HO): Intended for use in variable load applications where full power is limited to one (1) hour out of every eight (8) hours of operation. Also, reduced power must be at or below 400rpm of the maximum rated rpm. This power rating is for pleasure/non-revenue generating applications that operate 500 hours per year or less.

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