



DEALER HOTSHEET

F350 Offshore

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OVERVIEW

Yamaha Releases New 350HP V6 4.3L Offshore with Progressive Features and Real Power

The redesigned 350 joins the Yamaha Offshore Outboard family, to deliver big horsepower, state-of-the-art features, industry-leading boat control integration, premium level performance and reliability - filling an important segment in Yamaha's high-horsepower line-up.

Incorporating an upgraded 4.3L engine block and extra-strong gear case, this outboard delivers 350 horsepower in an industry-leading lightweight package - making it more suitable to a wider range of offshore boating applications, than ever before.

The new 350 comes with many of the innovative features developed in Yamaha's XTO 450 horsepower models, including built-in digital electric steering for premium, feature-rich control, TotalTilt™ integrated tilt limiter for easier operation, thrust enhancing reverse exhaust for improved responsiveness, plus full compatibility with Yamaha's exclusive Helm Master EX boat control system, across single and multiple outboard applications.

Combining all these awesome features with the choice of Yamaha signature Grey or Pearlescent White colour options, this outboard will prove to be extremely popular for offshore boaties.



Key Highlights

- » 4.3L big block V6
- » Lightest in class (286kg) - Suitable to more boats
- » Built-in Digital Electric Steering (DES)
- » Premium cowling design and aesthetics
- » Full Helm Master Ex boat control compatibility
- » TotalTilt™ integrated tilt limiter
- » 2 colour options with premium raised graphics





From the cylinder heads to the crankcase, Yamaha's new 350 reaps the benefits of meticulous technical design and refinement, ensuring the perfect balance of optimised power, performance and reliability.

BIG BORE 4.3L V6

Yamaha's proven big block V-type 6-cylinder has an expanded piston stroke and a displacement of 4.3L, for more torque throughout all RPM ranges.

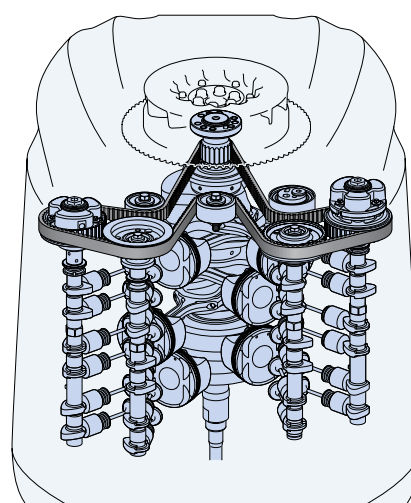
Furthermore, by increasing the diameter of the intake and exhaust valves, adopting a camshaft profile and a newly designed valve lifter, horsepower has been increased to 350 based on proven reliability.

By expertly managing air displacement to maximise the amount and timing of air rushing to the intake ports, this outboard achieves an impressive 11:1 compression ratio.

The use of iridium spark plugs combined with the premier of Yamaha's new fuel injection control mapping, produces a longer injector duration, for more power.

For durability, the new 350 incorporates the same water sensor for overheat control that is used on the XTO 450, helping to catch increasing engine temps sooner than traditional sensors.

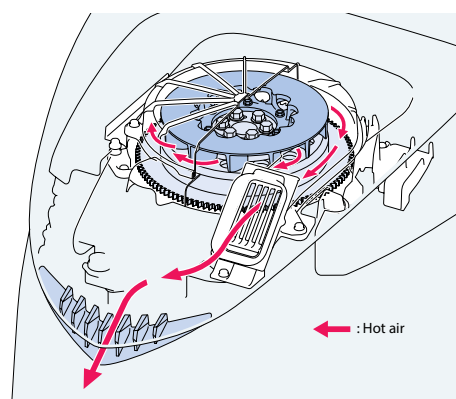
A large oil cooler capacity, along with Yamaha's distinguished, sleeveless, plasma-fused cylinder technology delivers exceptional strength, reduced friction, and precise heat distribution.



ENHANCED HEAT MANAGEMENT SYSTEM

A rotating fan has been incorporated into the flywheel to combat the potential build-up of residual heat inside the cowling and is removed through the new cowling vent.

This cooling system is very effective in drawing heat out of the flywheel area even at low engine speeds.

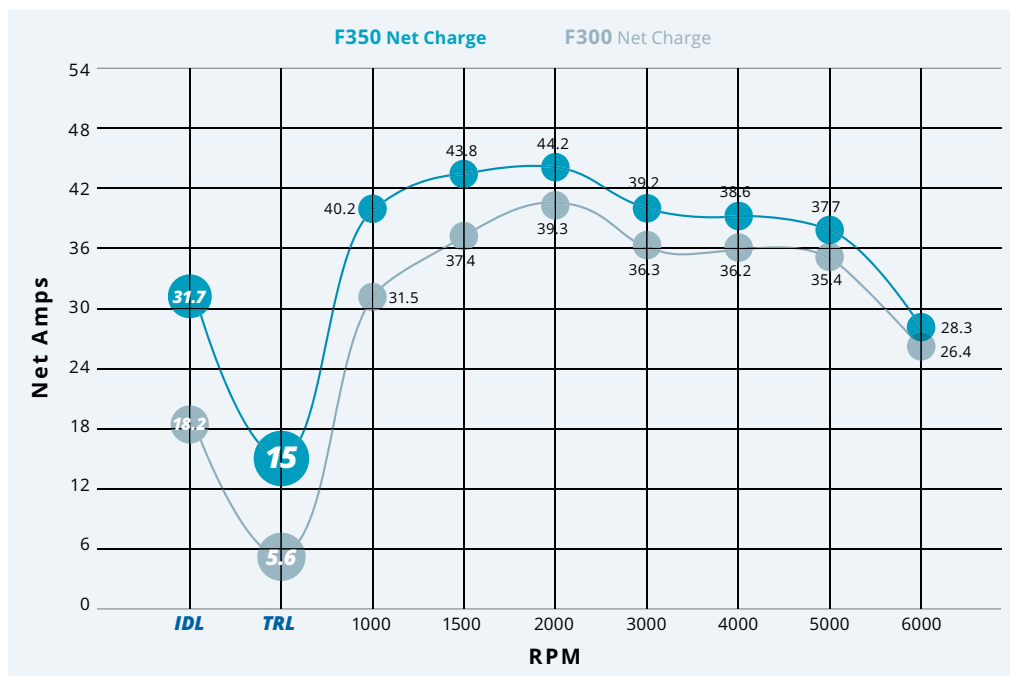




MORE AVAILABLE CURRENT

The enhanced heat management system keeps everything nice and cool under the cowling.

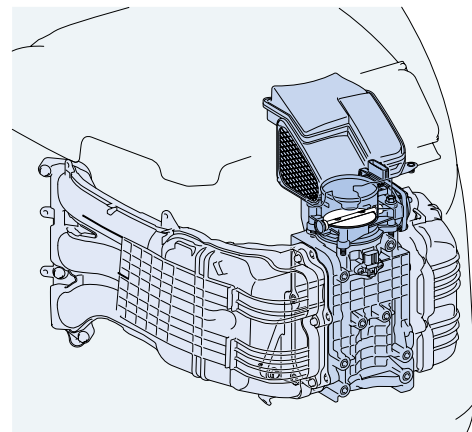
This not only improves engine durability and reliability but creates more available amps, when it is needed most, at idle – powering the increasing array of electrical devices used in today's modern boats.



LARGER ELECTRONIC THROTTLE VALVE AND INTAKE MANIFOLD

The new 350 has the same 81mm electronic throttle valve as the XTO 450, and is designed for smooth air flow and responsive power, while the larger intake and exhaust valves and Variable Camshaft Timing (VCT) deliver improved air flow advantage.

The newly designed valve lifters, made from the same durable material used for XTO 450 lifters, create precise valve clearance to achieve boosted combustion.

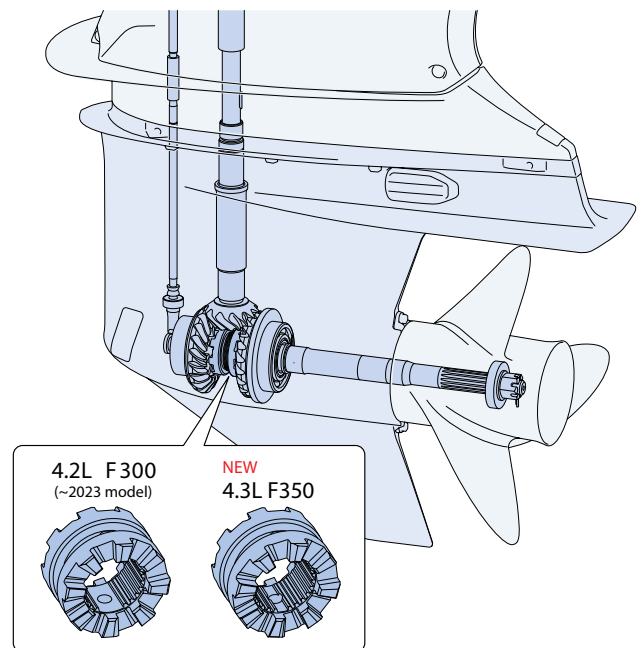




DURABLE GEAR CASE

To handle the enormous power generated by this outboard, Yamaha's engineers have enhanced the gear case with a freshly designed dog clutch, with more teeth, to enhance torque transfer from the power head to the propeller.

The gear case is complimented with Yamaha's exclusively designed and manufactured range of V6 props, ensuring maximum versatility and prop options for all boating applications.

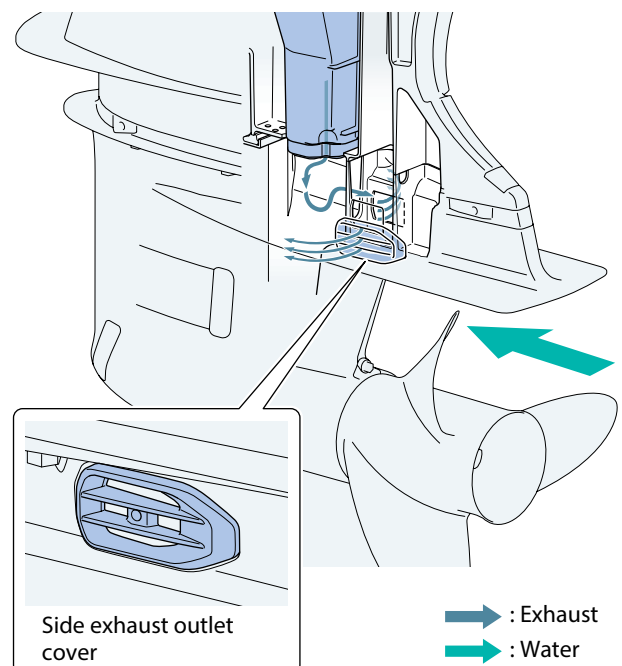


THRUST ENHANCING REVERSE EXHAUST

The enhanced gear case also features Yamaha's Thrust Enhancing Reverse Exhaust (TERE) technology, which redirects exhaust bubbles away from the prop when operating in reverse and under 2500RPM, resulting in cleaner water for greater prop grip and significantly improved thrust.

This is handy for navigating around marinas and docks and reversing onto your catch. This feature also provides an enhanced level of control when combined with Yamaha's exclusive Helm Master EX joystick boat control system.

The new 350 comes in 25, 30 and 35 inch shaft lengths, in both right and left rotating model options.





FRESH COWLING DESIGN

The new 350 takes its styling cues from Yamaha's V6 and XTO lineup, portraying a sleek, elegant and powerful design look.

Available in Yamaha's Signature Grey or Pearlescent White, these engines are immaculately finished, with raised chrome graphics as standard, to compliment even the most premium boats.

The new cowling not only looks good but incorporates the best in Yamaha's offshore motor advancements with its water-draining air duct and new cowling exhaust outlet which releases the residual heat from inside the cowling.

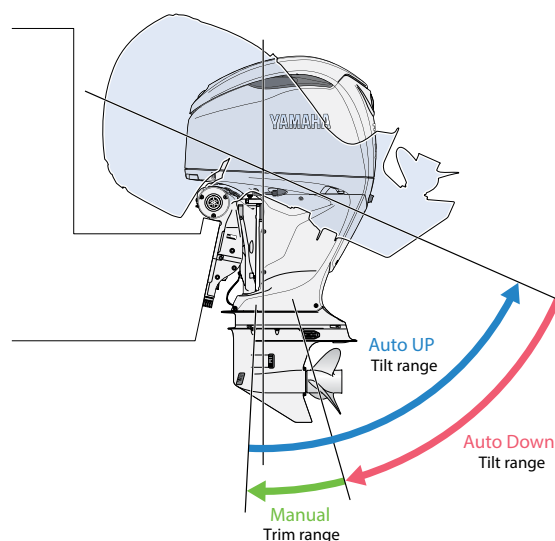


TOTALTILT™ INTEGRATED TILT LIMITER

The new 350 comes with Yamaha's TotalTilt™ feature for faster and easier engine tilting.

TotalTilt™ allows complete tilt up from any position with a simple double-push of the "UP" trim/tilt button, or full tilt down (to bottom of tilt range) by the same double push of the "DOWN" trim/tilt button.

For safety, a warning horn will sound just before and during TotalTilt™ operations. The operator can stop the movement and the horn at anytime by pressing the tilt button again.



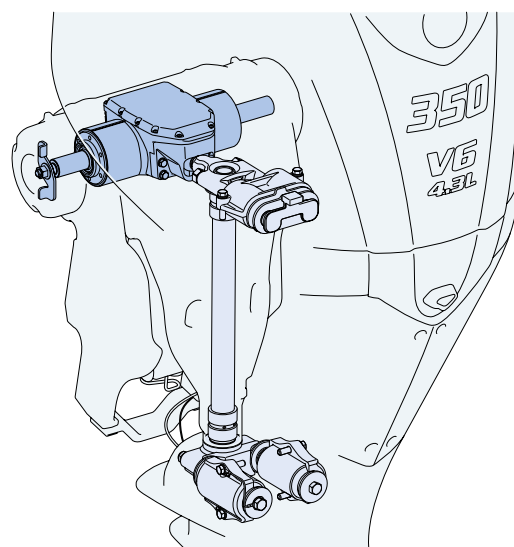
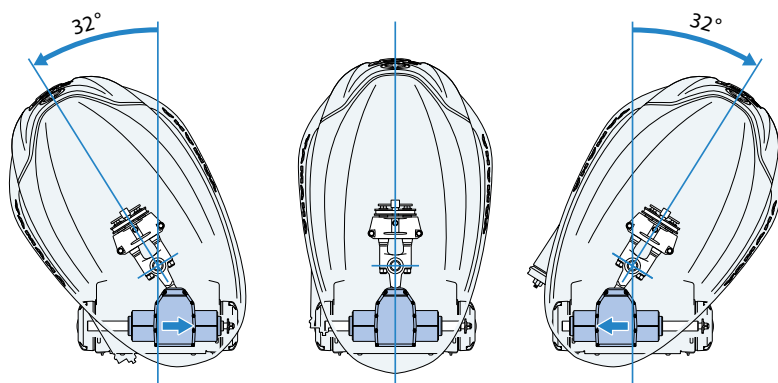


BUILT-IN DIGITAL ELECTRIC STEERING

The F350's Built-In Digital Electric Steering (DES) is neat and compact, and delivers extremely smooth, responsive and more precise steering - with additional technical smarts to give you even more control over your boat.

The DES system removes the need for steering pumps, hoses, hydraulic lines and bleeding procedures - for less clutter and more free space in the bilge area. This system makes the new 350 arguably the easiest outboard to install in the industry.

Full Steering Angle



NEXT LEVEL BOAT CONTROL

The 350's Built-In Digital Electric Steering (DES) used in conjunction with Yamaha's exclusive Helm Master® EX boat control system (sold separately), takes this outboard to a whole new level when it comes to technology, convenience and precise boating control.

Helm Master EX provides user friendly features like Yamaha's ever-popular fishing SetPoint® and Autopilot navigation modes and more recently, joystick-integrated bow thruster control.

The variable speed bow thruster is now available for single to quad outboard applications, taking boat control to a premium level, that was only previously seen on larger, non outboard powered vessels.





SIZE COMPARISON TO PREVIOUS MODEL

The new 350 comes with Digital Electric Steering (DES) compactly built into the swivel bracket section.

Combined with its compact size and light weight, this outboard is suitable for a wider range of boat applications than ever before.

The modern sleek design has reduced the level of interference with the boat motor well section, when the outboard is tilted-up. This is achieved by offsetting the outboard motor body further to the rear.

Compared with the Previous V8 350



Compared with Current V6 F300

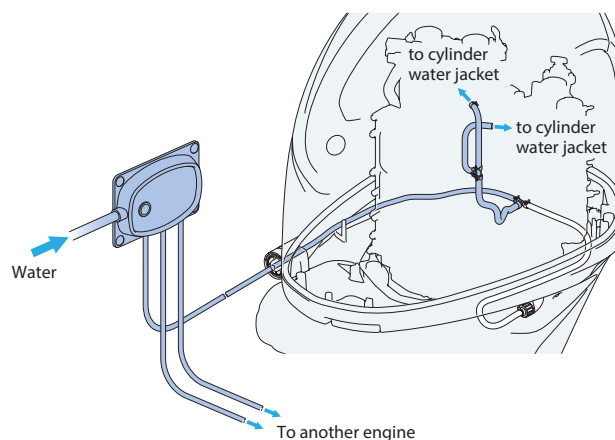


DUAL FLUSHING SYSTEM (OPTIONAL)

Another handy feature is the optional dual flush system, allowing the boater to flush the engine from within the boat, or with multiple engine set-ups, flush all engines at once.

This optional flushing hose is installed through the rigging tube for a clean and neat finish.

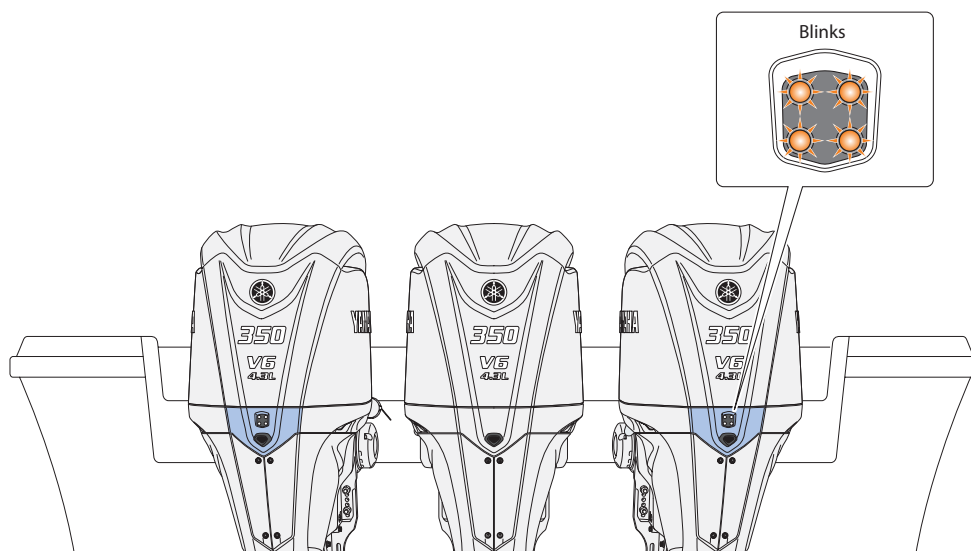
The standard flush connection on the side of the outboard is also available.





HELM MASTER™ EX PROPELLER LIGHT (OPTIONAL)

This feature is optional with Helm Master™ EX Full Maneuverability (Autopilot and Joystick). The light mounts directly in the rear apron of the outboard motor, rather than requiring independent installation on the transom. The light clearly indicates the boat is actively in Helm Master™ EX SetPoint mode to anyone approaching the stern (rear-end) of the vessel.





SPECIFICATIONS

Horsepower	350
Steering	Built-in Digital Electric Steering (DES)
Operation Method	Digital Electronic Control (DEC)
Helm Master EX Compatible [#]	✓
Trim & Tilt Method	TotalTilt™ with Limiter
Counter Rotating	✓
Signature Grey	✓
Pearlescent White	✓
Engine Type	V6 - 4 Stroke
Configuration	24-Valve DOHC 60-deg.
Bore x Stroke (mm)	96 x 98
Displacement (cm3)	4256 cm3
Recommended Max RPM	5000-6000
Model Codes & Dry Weight (Kg)	<div>F350XSA:286 F350USA:291 F350ESA:296</div> <div>LF350XSA: 286 LF350USA: 291 LF350ESA: 296</div> <div>F350XSA2: 286 F350USA2: 291 F350ESA2: 296</div> <div>LF350XSA2: 286 LF350USA2: 291 LF350ESA2: 296</div>
Transom Height (mm inch)	<div>X: 640 [25.2]</div> <div>U: 767 [30.2]</div> <div>E: 894 [35.2]</div>
Fuel Induction System	Electronic Fuel Injection
Alternator Output	74A
Gear Ratio	1.75 : 1
Digital Gauges	Optional

. # Optional Propeller Light.

RIGGING UPDATE

INTEGRATED BOW THRUSTER - SINGLE TO QUAD APPLICATIONS

Yamaha's industry-leading Helm Master EX boat control system continues to go from strength-to-strength, with further expansion of the integrated bow thruster integration across engine platforms.

Helm Master EX, with integrated bow thruster control, helps boaters more quickly gain more confidence in the control of their Yamaha powered vessel - greatly improving the user experience.

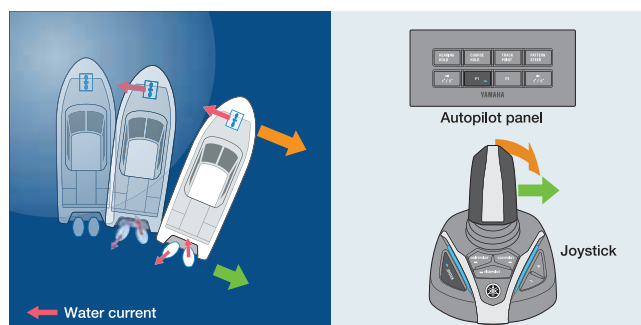
The joystick-integrated variable speed bow thruster system is now available for single and quad outboard applications, after initially being rolled out for twin and triple applications only.

Yamaha's Helm Master EX integration of Sleipner® and VETUS bow thruster systems is an on-demand, self activating feature. When the bow thruster is engaged, it works congruently with the Helm Master EX joystick to enhance lateral movement and pivoting by automatically engaging the bow thruster to match operator input.

The bow thruster also supports Helm Master EX Setpoint® functions (Staypoint®, Fishpoint®, DriftPoint® and DriftPoint track) and Autopilot navigation functions.

Operators can activate the integrated bow thruster with the touch of a button through the Helm Master EX joystick. Alternatively, the independent bow thruster control can be controlled through the conventional bow thruster controls - at any time.

Yamaha's integrated variable speed bow thruster is only available through boat builder installation on new boats.



INTEGRATED BOW THRUSTER RIGGING EQUIPMENT

Yamaha's Bow thruster rigging parts start with the Helm Master Ex Full Maneuverability components as the system foundation. From there, the bow thruster components are selected based on motor configuration and number of control stations.



RIGGING UPDATE

NEW BLACK SIDE MOUNT CONTROL

Yamaha's compactly designed side mount DEC control box now incorporates the elegance of the Helm Master EX control box family through an optional all-black style upgrade.

The new side mount DEC combines the precision and convenience of Helm Master EX features with a modern, black look becoming a favored control for single engine applications.

With Yamaha's new black side mount control, boaters reap the benefits of a multi-faceted control box and a sleek design from a DEC that creates more boating confidence and takes up less dash real estate.

Available in (Single/Main Station) and (Second Station). Expected availability in Autumn, 2024.



704 MECHANICAL CONTROL WITH NEW NEUTRAL LOCK

Yamaha's 704 binnacle control box is now available with a Neutral Locking feature, allowing the outboard to be placed in a neutral position while the engine is running.

This functionality is perfect for idling out on the water or while waiting to dock.

This new control box is available in single-engine configurations*.

This popular top-mount mechanical control box enables easy, one-hand operation of throttle and shifting with effortlessly managed trim settings using the thumb operated toggle switch embedded in the handle.

The 704 with neutral lock can be purchased in a single/main station and second station). Expected availability is Autumn, 2024.

*704 single controls only can be ordered with or without the neutral lock feature.
Expected availability is Spring, 2024.



RIGGING UPDATE

SALTWATER SERIES II SDS PROP - NEW PITCH OPTIONS

Yamaha is introducing new pitch options for the the reliable Saltwater Series II propeller.

Known for their awesome performance and fuel economy, this prop series will now be available in 1-inch increments from 13-inch to 25-inch, in both left-hand and right-hand rotation.

These additional pitch options with be available in Autumn 2024.



	Diameter	Pitch	# of Blades	Rotation	Material	Hub Type	Part Number
	15 3/4"	13	3	RH	SS	SDS	6CE-45930-20-00
	15 3/4"	13	3	LH	SS	SDS	6CF-45930-20-00
NEW!	15 3/4"	14	3	RH	SS	SDS	6CE-45D70-20-00
NEW!	15 3/4"	14	3	LH	SS	SDS	6CF-45D70-20-00
	15 3/4"	15	3	RH	SS	SDS	6CE-45976-20-00
	15 3/4"	15	3	LH	SS	SDS	6CF-45976-20-00
	15 1/2"	16	3	RH	SS	SDS	6CE-45938-20-00
NEW!	15 1/2"	16	3	LH	SS	SDS	6CF-45938-20-00
	15 1/2"	17	3	RH	SS	SDS	6CE-45978-20-00
	15 1/2"	17	3	LH	SS	SDS	6CF-45978-20-00
	15 1/4"	18	3	RH	SS	SDS	6CE-45934-20-00
	15 1/4"	18	3	LH	SS	SDS	6CF-45934-20-00
	15 1/4"	19	3	RH	SS	SDS	6CE-45970-20-00
	15 1/4"	19	3	LH	SS	SDS	6CF-45970-20-00
	15"	20	3	RH	SS	SDS	6CE-45932-20-00
	15"	20	3	LH	SS	SDS	6CF-45932-20-00
	15"	21	3	RH	SS	SDS	6CE-45972-20-00
	15"	21	3	LH	SS	SDS	6CF-45972-20-00
	14 3/4"	22	3	RH	SS	SDS	6CE-45936-20-00
	14 3/4"	22	3	LH	SS	SDS	6CF-45936-20-00
	14 3/4"	23	3	RH	SS	SDS	6CE-45974-20-00
	14 3/4"	23	3	LH	SS	SDS	6CF-45974-20-00
NEW!	14 3/4"	24	3	RH	SS	SDS	6CE-45D72-20-00
NEW!	14 3/4"	24	3	LH	SS	SDS	6CF-45D72-20-00
NEW!	14 3/4"	25	3	RH	SS	SDS	6CE-45D74-20-00
NEW!	14 3/4"	25	3	LH	SS	SDS	6CF-45D74-20-00

RIGGING UPDATE

NEW SALTWATER HP4 PROP

Yamaha is excited to be adding a new 4 bladed Saltwater HP4 propeller to our extensive high-performance prop range.

This prop has been developed for high speed stepped hulls and is recommended for us on 4.2L and the new 350 4.3L V6 engines.

This prop will be available in 1-inch increments from 18 inches to 26 inches, in both left-hand and right-hand rotation.

This prop will be available in Autumn 2024.

