New F350 Joins Yamaha Outboards with Progressive Features and Real Power

The newly designed F350 joins the Yamaha Outboard family to meet customer demand for horsepower diversity combined with our premium-level performance and reliability. Engine block and gearcase upgrades provide a strong core for powering up and going the distance, while comfort and convenience options create a confident ride. Add its distinctive, new look in Pearlescent White, Traditional Gray, or new Classic White into the mix and it's clear the new Yamaha F350 is the perfect big power, light-weight option for a wide variety of boating applications.

**PERFORMANCE OPTIMIZATION**

The F350 4.3L V6 boasts larger intake and exhaust valves than the F300 and uses the same diameter electronic throttle valve as the 5.6L V8 XTO® 450 to maximize air movement. Better air flow equals more power as the F350’s precisely mapped fuel and ignition timing match operator throttle demand for responsive performance while a new, robust crankshaft offers a longer stroke, enabling more torque at lower speeds. Sync all this big-block power with Yamaha’s Digital Electric Steering (DES) and exclusive Thrust Enhancing Reverse Exhaust and the new F350 becomes the standard for an exciting boating experience.

The new F350 4.3L can operate with Siren 3 Pro to bring advanced monitoring and convenience capabilities as part of Yamaha’s Connected Boat® infrastructure. Siren Pro 3 integration with the NMEA 2000® backbone means visibility of F350 engine data, while Siren Pro 3 monitoring lets you keep an eye on your boat while you’re away.

Learn more about Siren Pro 3 at Sirenmarine.com
ENGINE ADVANCEMENTS

From the cylinder heads to the crankcase, Yamaha’s new F350 reaps the benefits of meticulous technical design. With an impressive 11:1 compression ratio, the new F350 expertly manages air displacement using tailored intake manifolds equipped with 40% larger surge tanks, as compared to the F300, to maximize the amount and timing of air rushing to the intake ports, while also ensuring even distribution of air into each cylinder. Identical port and starboard intake manifolds enable the ideal placement for the 81mm electronic throttle valve that is 8% larger than the F300 throttle valve and center-mounted for smooth air flow and responsive power.

Larger intake and exhaust valves and Variable Camshaft Timing (VCT) offer an appreciable air flow advantage for the new Yamaha F350. The improved camshaft profile establishes higher valve lift for longer opening duration for both intake and exhaust while the newly designed valve lifters—made from the same durable material used for XTO 450 lifters—create precise valve clearance to achieve boosted combustion. To capitalize on the increased airflow, a new, robustly designed crankshaft creates a longer stroke for more torque throughout all RPM ranges. The Yamaha F350 also incorporates the use of iridium spark plugs—appreciated for their hardiness and concentrated, efficient spark—combined with the premier of Yamaha’s new fuel injection control mapping, which produces a longer injector duration than that of the F300 4.2L for more power.
The best in smart tech and premium ride technology was considered down to the smallest detail. For durability, the new Yamaha F350 incorporates the same water sensor for overheat control that is used on the XTO 450, which helps catch increasing engine temps sooner than traditional sensors. Additionally, an intake silencer provides a sound buffer as the F350 directs immense amounts of air to the head. A size-up in oil cooler capacity over the F300, along with Yamaha’s distinguished, sleeveless, plasma-fused cylinder technology for exceptional strength, reduced friction, and precise heat distribution. These enhancements mean the new Yamaha F350 becomes the pinnacle of optimized power and performance.
GEARCASE DURABILITY

Power Transfer at its Best. The gearcase incorporates a freshly designed clutch dog machined with more teeth for strong torque transfer from powerhead to propeller and uses Yamaha’s extensive line of V6 propellers for maximum versatility. The vigorous foundational propulsion of the new gearcase is merged with Yamaha’s Thrust Enhancing Reverse Exhaust (TERE) technology, which keeps exhaust bubbles above the anti-ventilation plate and away from the propeller at 2500 RPM in reverse to produce high thrust when backing down on a fish and to add more precision when maneuvering around the docks. The F350 is offered in full model 25” or 30” shaft lengths and 25”, 30” and 35” for late-stage customized (LSC) lower unit models. LSC models are equipped with an intermediate drive shaft and shift rod.
**FRESH COWLING DESIGN WITH PERFORMANCE PERKS**

For convenience, an optional propeller light rear panel is available for Helm Master EX Full Maneuverability mode. The rear panel light flashes when Full Maneuverability Set Point features are engaged to create propeller awareness for boaters and swimmers.

The new F350 cowling incorporates the best in Yamaha offshore motor advancements with its water-draining air duct, while the new cowling exhaust port combined with the new stator fan keeps everything under the cowling nice and cool. The cooling effect is impactful enough to create more available current for the new F350 over the F300 at all RPMs, especially in the lower RPM ranges.

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**F300/F350 NET CHARGE COMPARISON**
**BOATING CONFIDENCE**

Intuitive controls and maneuvering precision transcend boating convention with the F350's Digital Electric Steering (DES). Used in concert with Helm Master® EX boat control system, it provides clean rigging and extra bilge real estate that offers smooth, responsive steering and easy maintenance. Helm Master EX also provides customer convenience features like Yamaha's ever-popular fishing and navigation modes with Autopilot and SetPoint®, joystick-integrated bow thruster control, lock-to-lock steering settings and boater-tailored helm friction settings.
ADVANCED BOATER CONVENIENCE

Mirroring smart functionality on the XTO, the F350 has a convenient, flush connection running through a specially designed rigging grommet inside the rigging tube that can be connected to an automatic flushing system. Manual flush is also possible with a separate flushing connection.

For boater convenience, the F350 incorporates the same TotalTilt technology used throughout Helm Master EX capable DEC outboards. A double tap of the UP or DOWN button will move the outboard through its tilt and trim range automatically stopping at the pre-set tilt limit in the UP position or upon trim ram contact in the DOWN position.
FEATURES

- ECM control system
- Variable trolling RPM
- Digital Electronic Control (DEC)
- 70-Amp high output alternator
- Water cooled rectifier regulator
- Closed fuel vapor system

- Built-in Digital Electric Steering (DES)
- TotalTilt™ function with integrated tilt limit
- Engine mounting system

- Durable lower unit
- Intermediate drive shaft and shift rod
- Saltwater series II™ HP and HP4
- Counter rotation system

Rigging Accessories

- Helm Master EX compatibility
- Propeller light (optional)

Warning & Protection

- Over-heat Warning
- Fail-safe system
- Over-rev limiter
- YDIS
- Low oil pressure Warning
- YAMAHA immobilizer
- Knock control

YAMAHA Ideal Anti-Corrosion System

- Self-sacrificing anodes
- Electrodeposited inside/outside paint process
- Anodized treatment
- Dual flush system
### AVAILABLE MODEL CODES

<table>
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<tr>
<th>Outboard Model</th>
<th>DEC</th>
<th>Shaft Length</th>
<th>Weight* (by Shaft Length)</th>
<th>Availability</th>
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*Weights are calculated dry, without propeller. Weights are subject to change.

**Late Stage Customization (LSC) model. Lower unit required to complete unit (sold separately). Please consult appropriate Yamaha Price List for ordering instructions and information. Weight represents dry weight of complete unit.