



# XTO 450hp V8



## Technology the world trusts

Turn up the torque and enhance thrust throughout the rev range with this large capacity 5.6 litre naturally aspirated engine. When you want an exciting experience on the water, this flagship powerhouse won't let you down.

Life onboard can be draining, so from ice cold drinks to warm lunches with your favourite tunes playing in the background, whatever makes your perfect day on the water you will have it all at hand and fully charged thanks to the XTO 450hp V8's high output phase angle control charging system.

Digital Electric Steering is built-in to the XTO 450hp V8 engine. Enjoy a smoother and more intuitive experience when at the helm and a cleaner appearance at the stern with no hydraulic pumps or hoses. What's more, the system links seamlessly to Yamaha's Helm Master EX.



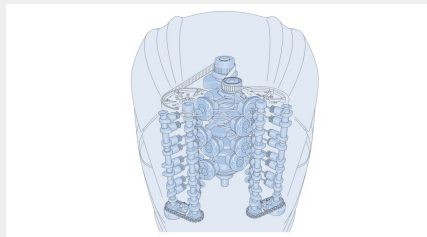
- Extreme Power - 5.6 L • 32-v • 60° V8 • DOHC • VCT
- Premium 3D graphics
- TotalTilt™ function with integrated tilt limit for effortless trailering and convenience when tilting.
- Engine mount propellor light (optional)
- Efficient, direct injection four-stroke
- Precision with Integrated Digital Electric Steering
- 300% more reverse thrust from new exhaust system
- Reliability - tough custom-engineered crankshaft
- Dependability with the heavy duty gear system
- Sleek lower unit design with massive gearcase
- Dual chamber oil pump to handle extreme demands

## Turn up the torque

When torque and cutting-edge technology are the priority, look no further than the XTO 450hp V8, our flagship Premium outboard that provides more power, performance and precision.

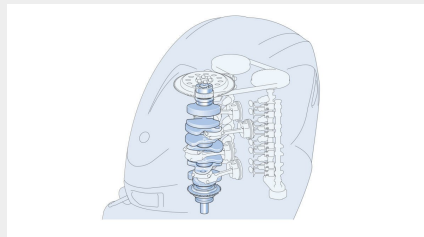
Exciting and dynamic styling will give a distinctive Yamaha look to your boat, with industry leading concepts and technologies bursting at the seams.

The groundbreaking Direct Fuel Injection improves efficiency from two aspects, boosting the engines performance on the water and reducing fuel consumption. Integrated Digital Electronic Steering delivers smooth, more precise handling on the wheel yet maintains the sense of connection with the water, it also links with Yamaha's Helm Master EX® compatibility for greater control and supreme confidence. Reverse thrust enhances manoeuvrability in confined spaces, keeping you cool under pressure.



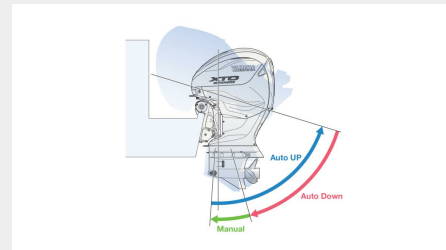
## Exceptional power, torque and control

Ready for Xtreme Thrust Output? This flagship V8 unit delivers power, performance and precision control. Working hand in glove with our unique Helm Master EX® control system, now with bow thruster compatibility, you will experience a seamlessly integrated total power and control solution for larger offshore boats.



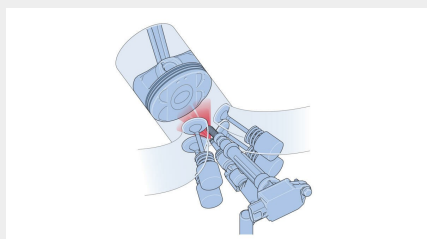
## 5.6 litres of naturally aspirated V8 power

At the heart of this flagship powerhouse is Yamaha's very latest technology, taken to new levels. With features like five-pump Direct Fuel Injection, Variable Camshaft Timing (VCT), Double Overhead Camshafts (DOHC), dual chamber oil pump, two-stage water pump, quadruple thermostats, our unique in-bank exhaust system.



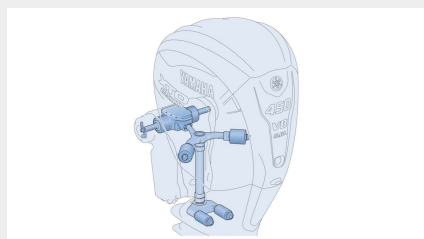
## TotalTilt™ function with integrated tilt limit

Yamaha's exclusive TotalTilt™ function allows complete tilt up or down (until trim ram contacts) from any position with a simple double-push of the respective tilt button. During the process, a buzzer sounds to alert crew to keep clear of the outboard, and the integrated tilt limiter can be customised to suit any boat.



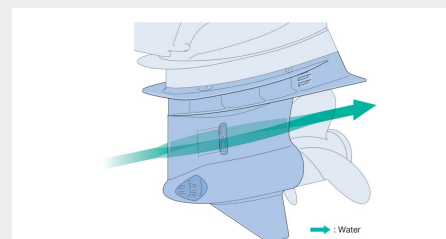
## Ultimate efficiency from Direct Injection

Yamaha is dedicated to delivering ever-greater efficiency and economy and the fuel system on the XTO is a perfect example of this in action. From the first-ever Direct Injection four-stroke engine in its class to the thrust-enhancing exhaust system.



## Integrated Digital Electric Steering

This highly efficient built-in steering system delivers a smoother and more intuitive experience when at the helm, it is lighter and less complex than a separate hydraulic system plus is cleaner to fit and operate, and far quicker and simpler to rig.



## Thrust-enhancing exhaust system.

This system expels the exhaust via a combination of three different routes, depending on the rpm level. The result is around 300% more reverse thrust, better balance between forward and reverse thrust when manoeuvring with Helm Master EX®, and greater efficiency at full power.

## Engine

Engine type	4-stroke; DOHC; V8
Bore x stroke	96.0 x 96.0
Displacement	5,559 cc
Prop shaft output at mid range	450 hp @ 6,000 rpm
Full throttle operating range	5,000 - 6,000 rpm
Lubrication system	Wet sump
Ignition / advance system	Electronic ignition (TCI)
Gear ratio	25/14 1.79
Starter system	Electronic ignition (TCI)
No. of cylinders/configuration	V8
Fuel Induction System	Direct Injection

## Dimensions

Oil pan capacity	7.8 l
Weight without propeller	437 kg - 458 kg