



# V MAX SHO 90hp



## A lightweight heavyweight.

The V MAX SHO collection is where cutting-edge engineering meets visual appeal. With their advanced, 4-cylinder, 16-valve EFI technology, these engines offer not just superior performance, speed, and acceleration, but do so in a package that's as pleasing to the eyes as it is thrilling to experience on the water.

The V MAX SHO engines are the perfect combination of power and performance, specially designed for those who demand the thrill of speed on the water. With a 25-inch shaft option now available, this series is poised to elevate the competitive spirit of today's most ambitious boaters.

The V MAX SHO 90hp, with its impressive power and sleek lines, delivers more than just eye-catching performance. It brings to the table all the typically valued attributes of a Yamaha 4-stroke engine—unrivalled quietness, fuel efficiency, and an impressive electrical charging system, backed by a legacy of reliability.



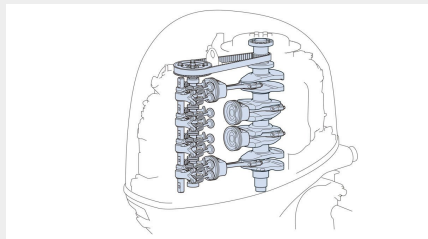
- Incredible acceleration – perfect for lightweight boats
- Class-leading torque and high-speed performance
- Compact design – more power delivered for less weight
- Distinctive & well-known 'V MAX SHO' cowling design
- High output 35A alternator – power from low RPM
- Smooth and quiet - for relaxed boating and fishing
- Unmatched Yamaha reliability

## A lightweight heavyweight.

V MAX SHO 90hp is the lightest model in the internationally renowned VMAX range. Specifically tuned to deliver unexpected out-of-the-hole performance and acceleration with blistering top speed, with a sophisticated enhanced cowling design, it's the stylish way to satisfy your sporting desires on the water.

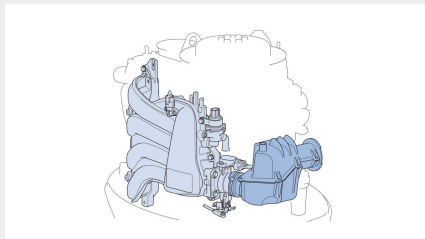
In technical terms, the V MAX SHO is a masterpiece of engineering craftsmanship. In order to achieve low weight with high performance - our engineers came up with a single overhead camshaft format, with 4 large valves per cylinder and a special long-track intake manifold.

The V MAX SHO 90hp is ideally suited for the light, fast, exciting boats that people use to get out and have fun with their friends. In fact, despite its compact size and modest weight, it still delivers best-in-class torque and high speeds – without compromising our signature quality. And with the streamlined, sophisticated cowling design, with stylish 3D graphics and pared back decals, it's looks keep up with its performance.



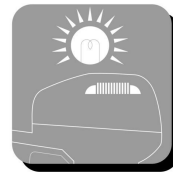
## SOHC design with 4 valves per cylinder

To keep weight down and efficiency up, the V MAX SHO 90hp features an unusual internal design - a single overhead camshaft with 4 valves per cylinder. This set-up means less mass in the cylinder head and reduced overall engine weight. The 4 valves per cylinder format also helps deliver highly efficient combustion which, in turn, increases power, torque and economy.



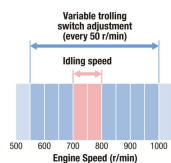
## Tuned long-track induction system

The long-track intake manifold is another special feature of the V MAX SHO - specially designed to boost out-of-the-hole performance as well as torque, acceleration and top speed.



## High-power 35 Amp alternator

We want to make sure you never lack power for starting, battery charging or running accessories when you're out on the water, which is why we equip the V MAX SHO 90hp with a three-phase alternator. With its 35 Amp capacity, it even has the power to charge your batteries at trolling speed. That's called peace of mind - and you can expect it when you own a Yamaha.



## Variable Trolling RPM (option)

Trolling speed adjustment from 550-1000 RPM in 50 RPM increments. Ideal for fishing or when navigating waterways, marinas or speed limit areas. Trolling speed can be set to 200 RPM below idle speed.



## Variable Trolling RPM (option)

This dedicated range of propellers has been developed to complement the wide-ranging Yamaha outboards family and to help you fine-tune the engine/boat performance to fit your personal preferences. Many propellers within the range feature Yamaha's exclusive Shift Dampener System (SDS®) which considerably reduces the normal noise and brings smoother, quieter shifting.



## Compatibility with a wide range of gauges

The very latest technology is incorporated in our models, so the V MAX SHO 90hp is compatible with a very wide range of Yamaha's exclusive digital control systems and gauges, from 6Y8 up to the newest CL5 gauges and displays. So when it comes to having clear, accurate engine data and performance information to help you run the boat, Yamaha systems are unmatched.

## Engine

Engine type	4-stroke
Bore x stroke	81,0 x 88,9 mm
Displacement	1.832cc
Prop shaft output at mid range	66.2 kW / 90 HP
Full Throttle Operating Range	5000 - 6000 r/min
Lubrication system	Wet sump
Ignition / advance system	TCI
Gear ratio	2.33 (28/12)
Starter system	Electric with Prime Start™
No. of cylinders/Configuration	4/in-line, 16-valve, SOHC
Fuel Induction System	EFI

## Dimensions

Oil pan capacity	3.2L / 3.0L
Transom height	L: 516mm / X: 643 mm
Weight without propeller	162kg - 166kg

## Additional Features

Light coil / Alternator Output	12V - 35A w. rectifier / regulator
Trim & Tilt method	Power Trim & Tilt
Propeller	Optional
Variable Trolling Speed	With DN Gauges
Shift Dampener System (SDS)	Optional
Control	Remote Control
Engine immobilizer	YCOP optional
Shallow Water Drive	Standard
Digital Network Gauge (6Y8/6YC)	Standard
Tilt limiter	Optional