



## A lightweight heavyweight.

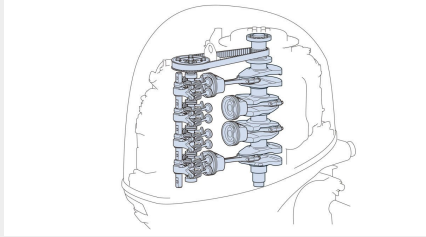
Sophisticated, state-of-the-art engineering can be packaged to look great, a fact proved by our impressive new V MAX SHO line-up. These advanced technology, 4-cylinder, 16-valve EFI engines conceal awesome out-of-the-hole performance, acceleration and speed within their sleek, streamlined designs.

The powerful V MAX SHO engines have been specially designed to deliver the exhilarating, wind-in-the-hair performance sought after by owners of today's fastest sports, fishing and adventure boats. The option of a 25-inch shaft available across this dynamic new range adds a further competitive edge.

Despite its sleek looks and aggressive performance, a V MAX SHO still delivers everything the world has come to expect from a Yamaha 4-stroke engine – smooth, whisper-quiet operation, impressive fuel economy, high-Amp electrical charging capacity - and reliability that is

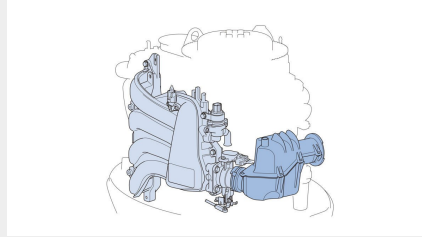


- Incredible acceleration – perfect for lightweight boats
- Class-leading torque and high-speed performance
- Compact design – more power delivered for less weight
- Distinctive & well-known 'V MAX SHO' cowling design
- High output 35A alternator – power from low RPM
- Smooth and quiet - for relaxed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



## SOHC design with 4 valves per cylinder

To keep weight down and efficiency up, the V MAX SHO 90 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.



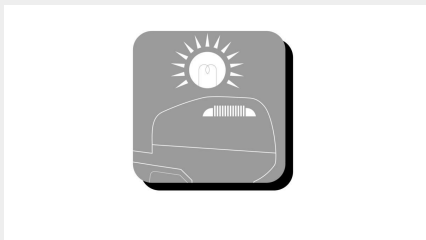
## Tuned long-track induction system

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.



## Unique Yamaha 'V MAX SHO' cowling design

Featuring Yamaha's already famous 'V MAX SHO' metallic black and red cowling, the new range shows off its heritage strongly, but the latest cowl design features a dynamic, aggressive and sporty new graphics scheme that makes a real statement. On the transom of your boat it clearly says "This is no ordinary outboard" – and it isn't!



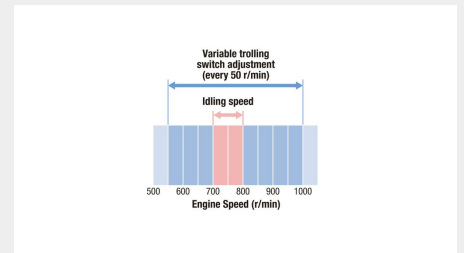
## High-power 35 Amp alternator

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 90 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.



## Multi-function tiller handle option

Yamaha's multi-function tiller handle incorporates engine start/stop, emergency stop, gear shift, power trim and tilt operation, variable trolling switch, warning system and key controls. All in one convenient, solid-feeling, easy-to-use control system.



## 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.

## Engine

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

## Dimensions

Transom height	L: 516mm / X: 643 mm"
Weight with propeller	VF90X: 162 kg / VF90L: 166 kg"
Oil pan capacity	3.2L / 3.0L

## Additional Features

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



# V MAX SHO 90