

YZ 450F-250F

 **YAMAHA**



4-T

>> *New generation YZ450F. The strong, silent type.*

>> The new generation YZ450F's super-light and ultra-compact 450 cc 5-valve engine delivers a massive band of torque combined with an instant hit of high-traction power like you've never experienced before.

>> And with its super high-tensile steel frame and mass-centralising fuel tank you just won't believe how agile this awesome 4-stroke feels whether you're attacking whoops or nailing it out of a bend.

>> New generation YZ450F. Anything is possible!

Professional rider depicted on a closed and controlled circuit.

YZ450





Increased engine displacement

Running a 95 mm bore and 63.4 mm stroke, the ultra-compact new 450 cc 5-valve 4-stroke engine delivers awesome power together with an extra-wide band of rider-friendly torque.

Lightweight crankshaft

For instantaneous throttle response and superb handling this new generation 4-stroke is equipped with a specially-designed lightweight crankshaft whose inertial mass is 20% lower.

Reduced engine oil capacity

The YZ450F's dry sump engine features a new high-efficiency oil circulation system that enhances performance and requires 20% less oil than previously.

Handlebar-mounted hot start lever

For quick and easy starting the new YZ450F is equipped with a new hot start lever mounted in a convenient position on the handlebars.

Titanium exhaust

An all-new titanium header pipe, flange and heat shield are 30% lighter, and titanium is also used on the tailpipe and cap of the new high-efficiency silencer.

Small-capacity fuel tank

The compact new 7-litre fuel tank helps centralise mass for sharper handling, and to enhance rider mobility its upper surface is 5 mm lower.



4-stroke torque. Instantaneous response.

Ultra-light 450 cc 4-stroke engine

The new generation 450 cc 4-stroke is the lightest, fastest and most powerful production motocross engine ever built by Yamaha.

New-design titanium valve train

For instant pick-up this high-revving 4-stroke runs with shorter super-light titanium valves and special lightweight valve springs.

Low inertial mass

A new short-skirt piston and redesigned crankshaft reduce inertial mass by 20% for instantaneous engine response and easier handling characteristics.

New 4-speed transmission

A new weight-saving 4-speed transmission optimises the engine's wide powerband and reduces the number of gearchanges per lap!

New lightweight frame

The 2003 YZ450F is the world's first production motorcycle to feature a super high-tensile steel frame that's stronger, lighter and well balanced.

Automatic decompression

The compact and lightweight automatic decompression system simplifies the starting procedure and allows you to kickstart the new 450 cc engine with less effort.

Lightweight braking systems

A new one-piece rear brake master cylinder/reservoir and modified front master cylinder reduce weight and improve brake feel.



YZ250F.

New fuel tank and seat

All-new for 2003 is a compact YZ450F-type 7-litre fuel tank and flatter profile seat that help centralise mass and make for excellent rider mobility.

Updated front and rear suspension

The YZ250F's front forks and rear shock are updated for the new season with lightweight internals and modified settings that deliver improved suspension action.

Lightweight braking systems

A new one-piece rear brake cylinder/reservoir together with an updated front master cylinder and aluminium front caliper pistons deliver excellent braking response with accurate feedback.

Lightweight frame

Light, strong and compact, the high-tensile steel semi-double cradle frame is one of the sharpest handling in the class, and features a new square-section aluminium subframe.

Automatic decompression

The addition of a new automatic decompression system for 2003 makes for easier and faster kickstarting.



YZ250



YZ450F
Racing Blue (DPBSE)



YZ250F
Racing Blue (DPBSE)

YZ450F TECHNICAL SPECIFICATION

ENGINE	
Type	4-stroke, liquid-cooled, DOHC, 5 titanium valves
Displacement	449 cc
Bore and stroke	95 x 63.4 mm
Compression ratio	12.5 : 1
Lubrication	Dry sump
Carburation	Keihin FCR39H
Clutch type	Wet, multiple-disc
Ignition	CDI
Starter system	Kick
Transmission	Constant mesh, 4-speed
Final transmission	Chain

CHASSIS	
Front suspension	Upside-down telescopic fork
Front wheel travel	300 mm
Rear suspension	Link-type suspension
Rear wheel travel	315 mm
Front brake	Single disc, Ø 250 mm
Rear brake	Single disc, Ø 245 mm
Front tyre	80/100-21
Rear tyre	110/90-19

DIMENSIONS	
Overall length	2,171 mm
Overall width	827 mm
Overall height	1,303 mm
Seat height	995 mm
Wheelbase	1,485 mm
Min. ground clearance	371 mm
Dry weight	100.5 kg
Fuel tank capacity	7 litres
Oil capacity	1.2 litre


YZ250F TECHNICAL SPECIFICATION

ENGINE	
Type	4-stroke, liquid-cooled, DOHC, 5 titanium valves
Displacement	249 cc
Bore and stroke	77 x 53.6 mm
Compression ratio	12.5 : 1
Lubrication	Dry sump
Carburation	Keihin FCR37H
Clutch type	Wet, multiple-disc
Ignition	CDI
Starter system	Kick
Transmission	Constant mesh, 5-speed
Final transmission	Chain

CHASSIS	
Front suspension	Upside-down telescopic fork
Front wheel travel	300 mm
Rear suspension	Link-type suspension
Rear wheel travel	315 mm
Front brake	Single disc, Ø 250 mm
Rear brake	Single disc, Ø 245 mm
Front tyre	80/100-21 51R
Rear tyre	100/90-19

DIMENSIONS	
Overall length	2,165 mm
Overall width	827 mm
Overall height	1,303 mm
Seat height	995 mm
Wheelbase	1,475 mm
Min. ground clearance	382 mm
Dry weight	94.5 kg
Fuel tank capacity	7 litres
Oil capacity	1.2 litre

Always wear a helmet, eye protection and protective clothing. Yamaha encourage you to ride safely and respect fellow riders and the environment. Specifications and appearance of Yamaha products shown here may vary according to requirements and conditions, and are subject to change without notice. For further details, please consult your Yamaha dealer.

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