



## Designed to win.

Every rider is different. When Yamaha built the latest generation YZ450F it was designed with you, the rider, as the main focus - and to be powerful, light and slim, while offering strong stability and agility. The linear power delivery and compact bodywork is giving you ultimate control, as the YZ450F has been designed to bring out your best performance onto the track.

The Power Tuner app enables you to make quick trackside adjustments to your bike's performance without you even opening your toolbox. The 'Simple Tuning' function makes it easy to adjust the engine and chassis performance – and a lap timer function means that you can see which settings achieve the best results. You can also adjust the behaviour of the traction control and launch control systems to match the different riding conditions.



- Light, slim and powerful engine
- High-capacity air intake
- Disc spring clutch
- Lightweight balancer mechanism
- Aluminium Bilateral Beam frame
- Seamless ergonomic bodywork
- Best-in-class KYB suspension
- Adjustable traction control system
- Launch Control System
- Easy-to-use Power Tuner app
- Rear duct airflow
- Ergonomic rider triangle

The best-in-class KYB forks feature a hand adjustable compression damping adjuster – and with its super-compact seamless bodywork, flat seat and factory-developed ergonomics, you have the ultimate rider mobility for maximum control when accelerating, braking and cornering. Yamaha YZ450F: Tune in to victory.

## Designed to win.

This is the lightest, slimmest, sharpest and fastest 450cc motocross bike ever built by Yamaha. Its winning potential in MXGP and SX show just how good this bike is. And whatever level you race, the YZ450F has the engine, chassis and electronics that are ready to bring out your best performance.

The unique reverse-head engine is a perfect example of how Yamaha technology can make you a better rider. Its strong and linear power gives you the absolute control required to achieve faster lap times. And the easy-to-use Power Tuner app enables you make quick trackside adjustments to the engine character and traction control settings to match the conditions.

Its lightweight aluminium frame and best-in-class KYB suspension systems deliver the cornering precision and straight-line stability you need stay ahead – and the compact seamless bodywork combined with idealized ergonomics give you ultimate rider mobility on the YZ450F, for maximum control when accelerating, braking and cornering.



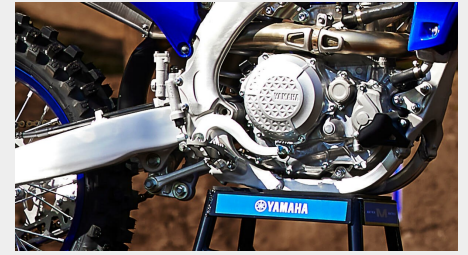
## Light, slim and powerful engine

This is the most powerful engine ever used in the YZ450F. Featuring a special piston, slanted cylinder and dry sump lubrication system, this lightweight and compact 450cc 4-stroke reverse-head engine delivers strong and linear power that gives you plenty of easy-to-control performance at all engine speeds.



## High-capacity air intake

A key feature on the YZ450F is its front facing intake that gives you a real competitive advantage. For winning performance the intake port is designed to give a straight path to the cylinder head. Together with large 39mm titanium inlet valves, this high-efficiency intake enables the engine to rev higher for increased performance.



## Steel disc spring clutch

To handle the high levels of power, the YZ450F is equipped with a durable and compact one-piece steel clutch that minimizes engine weight and keeps engine width to a minimum. Disc springs are used instead of conventional coil springs, giving accurate feel and a light pull at the lever.



## Lightweight balancer mechanism

For smooth power delivery and minimized vibration at all engine speeds the YZ450F benefits from a balancer mechanism. Featuring a single balancer weight and hollow shaft, this compact design helps to make the latest generation one of the lightest in its class.



## Aluminium bilateral beam frame

The YZ450F's aluminium bilateral beam is designed to handle the high performance of the latest generation 450cc reverse-head engine. The rigidity of the tank rails is optimized to give a controlled amount of flex for effective shock absorption – and the stiff down tube and cross tube ensure high levels of stability and precise cornering.



## Seamless ergonomic bodywork

The lightweight fenders, side panels and airbox cover blend seamlessly, and the narrow shrouds together with the bike's slim waist enable rapid body weight shifting for more effective handling performance. And for optimum controllability the YZ450F features a flat upper-surface running from the rear of the seat through to front of the airbox.

## Engine

|                     |  |
|---------------------|--|
| Engine type         | 4-stroke;Liquid-cooled;DOHC;4-valves;Single cylinder |
| Displacement        | 450cc  |
| Bore x stroke       | 97.0 × 60.8 mm                                       |
| Compression ratio   | 13.0 : 1   |
| Lubrication system  | Dry sump   |
| Clutch type         | Wet;Multiple Disc                                    |
| Ignition system     | TCI  |
| Starter system      | Electric   |
| Transmission system | Constant Mesh;5-speed                                |
| Final transmission  | Chain  |
| Fuel system         | Fuel Injection                                       |

## Chassis

|                         |                                |
|-------------------------|--------------------------------|
| Frame                   | Aluminium Bilateral Beam       |
| Front suspension system | Upside-down telescopic fork    |
| Front travel            | 310 mm                         |
| Rear suspension system  | link suspension;Swingarm       |
| Rear travel             | 315 mm                         |
| Front brake             | Hydraulic Single Disc, Ø270 mm |
| Rear brake              | Hydraulic Single Disc, Ø240 mm |
| Front tyre              | 80/100-21 51M Tube type        |
| Rear tyre               | 120/80-19 63M Tube type        |
| Caster angle            | 26°55                          |
| Trail                   | 120 mm                         |

## Dimensions

|   |          |
|---|----------|
| Overall length                                | 2,180 mm |
| Overall width                                 | 825 mm   |
| Overall height                                | 1,275 mm |
| Seat height                                   | 965 mm   |
| Wheel base                                    | 1,480 mm |
| Minimum ground clearance                      | 350 mm   |
| Wet weight (including full oil and fuel tank) | 109 kg   |
| Fuel tank capacity                            | 6.2 L    |
| Oil tank capacity                             | 1.2 L    |



# YZ450F

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