



Maximum power with total control.

Conditions in motocross can change rapidly when the track cuts up or if the weather turns nasty. And it's at times like this that the Yamaha Power Tuner enables you to gain a real advantage by quickly adjusting your YZ450F's power delivery so that you have total control in varying conditions.

Whatever power setting you select, the YZ450F's lightweight aluminium beam chassis is designed to deliver agile handling that enables you to push harder – and the revised suspension settings and lower unsprung weight give you increased stability for reduced lap times.

Other smart technology at your fingertips includes an electronic Launch Control System that transmits power more effectively when the gate drops for holeshot-winning performance – and there's a handlebar-mounted mapping switch for on-the-fly adjustments. YZ450F: Maximum power with total control.



- Improved suspension settings
- New lightweight chassis components
- Ultra-compact high-tech 450cc engine
- Launch Control System
- Robust clutch and transmission
- Lightweight aluminium beam frame
- Mass-centralised wraparound exhaust
- New graphics and duo-tone body colours
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- Handlebar-mounted 2-mode mapping switch

Tune in to victory.

With its ultra-compact layout, outstanding power and agile cornering, the YZ450F delivers the technology and performance needed to take you to the victoryYZone. Making this bike the clear choice for every racer who wants to discover their true winning potential.

Its reverse head engine and rearward-slanted cylinder deliver optimum intake efficiency for phenomenal performance – and for 2022 the YZ450F comes with class-leading suspension featuring revised low speed damping settings for even better handling, as well as a lighter rear hub and new chain that reduce unsprung weight.

The ultra-compact layout of the reverse head engine keeps chassis dimensions to a minimum – and its mass centralised design makes this a sharp looking bike that turns, brakes and jumps like nothing else. While the Power Tuner app enables you to gain a real advantage by tuning your engine character for total control in varying conditions. Finished in Icon Blue duo-tone colours with new in-mould graphics, the YZ450F is ready to tune in to victory.



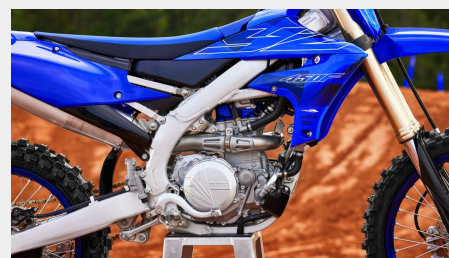
Improved suspension settings

Yamaha's suspension is one of the best standard set-ups fitted to a production bike, and for 2022 the best-in-class SSS (Speed Sensitive System) front forks and the tried and tested monocross rear suspension feature revised low speed damping settings – for better handling and excellent feedback.



New lightweight chassis components

Any reduction to unsprung weight makes a significant improvement in suspension performance, and the 2022 YZ450F is fitted with a new lightweight rear hub as well as a lighter chain that shave 0.2 kg off the weight.



Ultra-compact high-tech 450cc engine

The YZ450F's 450cc reverse head engine is a proven MXGP race winner that has the performance to take the top step of the podium against the world's best. The front facing inlet ensures optimum intake efficiency, and its compact dimensions help to centralise mass for sharper handling.



Launch Control System

The YZ450F's Launch Control System (LCS) optimises the engine's power output and running characteristics during the first few seconds of the race after the gate drops. By helping to transmit power more efficiently, the LCS gives you greater controllability off the starting line, increasing your holeshot-winning performance every time.



Robust clutch and transmission

The robust 5-speed transmission benefits from specially-developed gears with a large surface area – and together with a heavy-duty clutch this delivers high levels of durability. And for a positive feel when shifting gear, the shift drum and selectors are designed to give a short stroke.



Lightweight aluminium beam frame

In order to achieve the best balance of chassis strength and rigidity, the YZ450F's bilateral beam frame uses varying thicknesses of aluminium throughout its structure. The desired rigidity balance is also achieved by using a special combination of steel and aluminium engine mounts, for agile handling and precise cornering.

Engine

| | |
|---------------------|---|
| Engine type | 1-Cylinder; DOHC; 4-valves; 4-stroke; Liquid-cooled |
| Displacement | 450cc |
| Bore x stroke | 97.0 × 60.8 mm |
| Compression ratio | 13,0 : 1 |
| Lubrication system | Wet sump |
| Clutch type | Wet; Multiple Disc |
| Ignition system | TCI |
| Starter system | Electric |
| Transmission system | Constant Mesh; 5-speed |
| Final transmission | Chain |
| Fuel system | Electronic Fuel Injection |

Chassis

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|-------------------------|--------------------------------|
| Frame | Semi double cradle |
| Front suspension system | Upside-down telescopic fork |
| Front travel | 310 mm |
| Rear suspension system | link suspension; Swingarm |
| Rear travel | 317 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

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|---|---------|
| Overall length | 2185 mm |
| Overall width | 825 mm |
| Overall height | 1285 mm |
| Seat height | 965 mm |
| Wheel base | 1485 mm |
| Minimum ground clearance | 330 mm |
| Wet weight (including full oil and fuel tank) | 111 kg |
| Fuel tank capacity | 6.2 L |
| Oil tank capacity | 0.9 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.