



## Motocross thrills. Enduro versatility.

The enduro world is evolving. And to make it to the podium you need a special kind of dirt bike that combines the hard-hitting performance of a motocross machine with all-day useability and precise control. Developed from the high-tech YZ450F, the latest WR450F is built to deliver, and ready to win.

Fire up the mass-centralized 450cc engine and you'll experience remarkable levels of power and torque from the second you get moving – while the aluminium chassis and class-leading suspension give you lightweight agility with confident stability and easy cornering.

With its enduro-specific rigidity balance, the aluminium beam frame is finely tuned to give a high level of feedback and strong traction on various types of terrain – while the best-in-class suspension means that you can maximize the winning potential of the powerful engine. Yamaha WR450F: Go fast. Turn easy. Stop quick.



- Compact, light and powerful 450cc engine
- High efficiency cylinder head and lightweight piston
- Lightweight aluminium beam frame
- Industry leading suspension systems
- Yamaha Power Tuner for easy smartphone tuning
- Handlebar-mounted adjustable mapping switch
- Strong stopping power
- Compact, multi-function LCD display
- High efficiency angled radiators
- Tough wide ratio 5-speed transmission
- Dynamic Icon Blue colour
- Compact electric starter

## **Motocross thrills. Enduro versatility.**

The WR450F is the fastest and most agile large capacity enduro bike ever produced by Yamaha. Using the highly-advanced engine and chassis technology from the latest YZ450F motocross bike – and equipped with specially-developed enduro settings – this proven winner is born to ride.

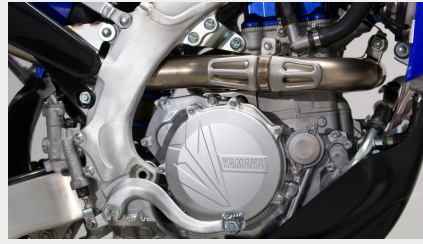
Yamaha's engineers have taken the compact and lightweight engine from the YZ450F and developed an enduro-specific powerplant for the latest WR450F. Its 'made-to-measure' ECU as well as a high-compression cylinder head and a specially designed heavy-duty transmission are ready to deliver winning performance. And the best-in-class suspension and the lightweight aluminium beam frame with a finely-tuned rigidity balance give you easy manoeuvrability and accurate surface feedback.

Yamaha's digital Power Tuner and handlebar-mounted engine mode switch put you in total control when track conditions change – and the compact multi-function display gives you all the information you need to keep ahead. Finished in a dynamic Icon Blue with in-mould graphics, the mighty WR450F is ready for any battle.



## Compact, light and powerful 450cc engine

The WR450F is equipped with Yamaha's most sophisticated Off Road Competition engine from the latest generation YZ450F motocross model. Delivering outstanding levels of power at all engine speeds, this lightweight and compact powerplant runs with an enduro-specific ECU for a wide spread of winning performance.



## High efficiency cylinder head and lightweight piston

Equipped with lightweight magnesium covers, the WR450F's cylinder head gives excellent combustion efficiency and its front facing inlet contributes towards the bike's idealized mass centralization. The lightweight piston gives instantaneous throttle response at all revs – and the intake and exhaust camshafts are positioned to minimize the dimensions of this compact high-tech engine.



## Lightweight aluminium beam frame

The WR450F is equipped with the latest generation YZ450F-type aluminium bilateral beam frame that has been retuned for enduro. Manufactured with thin main spars and thick bottom tubes – as well as specially developed engine plates – this enduro-specific frame gives accurate feedback over bumps together with a strong feeling of connectivity with the track surface.



## Industry-leading suspension systems

The industry-leading speed sensitive KYB front forks are the same design as used on the YZ450F and feature special enduro-specific settings and full adjustability – enabling you to fully exploit the increased engine performance. The lightweight link-type rear end also uses special enduro settings to give excellent traction with outstanding bump absorption.



## Yamaha Power Tuner for easy smartphone tuning

The WR450F pioneered the use of advanced digital technology by being the first enduro bike to enable remote wireless engine tuning. Simply download the free Power Tuner app to your smartphone and you can upload two engine mappings that enable you to make instant changes to the fuel/air mix and ignition timing to suit the track conditions and weather – without even opening your toolbox!



## Handlebar-mounted adjustable mapping switch

Whether you're racing or having fun on the trail, surface conditions and weather can change at any time. Pre-loaded with an aggressive map and also a high traction map, the handlebar-mounted adjustable mapping switch means that you can instantly select a different engine running mode while on the move.

## Engine

|                     |  |
|---------------------|--|
| Engine type         | 4-valves;4-stroke;Liquid-cooled;DOHC;Single cylinder |
| Displacement        | 450cc  |
| Bore x stroke       | 97,0 x 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 | 5-speed;Constant Mesh                                |
| Final transmission  | Chain  |
| Carburettor         | Fuel Injection                                       |

## Chassis

|                         |   |
|-------------------------|---|
| Frame                   | Aluminium Bilateral Beam  |
| Front suspension system | KYB® fork, fully adjustable inverted twin chamber with speed sensitive travel |
| Front travel            | 310 mm  |
| Rear suspension system  | (Link type suspension);Swingarm   |
| Rear Travel             | 317 mm  |
| Front brake             | Hydraulic single disc, Ø270 mm  |
| Rear brake              | Hydraulic single disc, Ø245 mm  |
| Front tyre              | 90/90-21 54R Tube type  |
| Rear tyre               | 140/80-18 70R Tube type   |
| Caster Angle            | 27°10   |
| Trail                   | 116 mm  |

## Dimensions

|   |          |
|---|----------|
| Overall length                                | 2.175 mm |
| Overall width                                 | 825 mm   |
| Overall height                                | 1.270 mm |
| Seat height                                   | 955 mm   |
| Wheel base                                    | 1.480 mm |
| Minimum ground clearance                      | 320 mm   |
| Wet weight (including full oil and fuel tank) | 119 kg   |
| Fuel tank capacity                            | 7,9 L    |
| Oil tank capacity                             | 0,9 L    |



# WR450F

The 2022 WR450F and WR250F will be only be available in race specification, for usage on closed circuits, private areas and specific events where participation with non-registered vehicles is allowed. Always wear a helmet, eye protection and protective clothing. Yamaha encourages you to ride safely and respect fellow riders and the environment. Images displayed may depict a professional rider performing under controlled conditions or on closed circuit. The unit displayed on the images may be equipped with genuine Yamaha accessories and/or non-Yamaha branded accessories which may be for closed-circuit use only. All information is given for general guidance. Specifications and appearance of Yamaha products, Yamaha accessories and non-Yamaha branded accessories are subject to change without prior notice. Non Yamaha branded accessories are fully developed and produced by respected third parties. Yamaha does not guarantee the availability of the displayed products and accessories in local markets. The product and accessories range may be limited in some countries. Yamaha has the right to discontinue products and accessories without prior notice. Where applicable, prices of Yamaha products and accessories may vary according to local requirements and conditions. No rights can be obtained from this information. For further details and availability, please contact your local Yamaha dealer.