

# 2022

## WR450F



### Team Yamaha Blue

\$9,899 MSRP\* \$430 Destination Charge\*

## TOP FEATURES

### 1. Compact Cylinder Head

The WR450F features aggressive cam profiles, a high compression piston with low friction rings, long connection rod, large exhaust head pipe connector, a high-flow air filter, efficient breather system and a compact, lightweight magnesium valve cover.

### 2. Bilateral Beam Frame

The WR450F aluminum frame features flex characteristics that give riders the ultimate combination of precise cornering performance, traction and bump stability. The rigidity balance of the chassis, as well as engine mounts, top triple clamp and front axle increases rider confidence.

### 3. Suspension Tuning

The 2022 WR450F features industry leading KYB™ suspension tuned in concert with the chassis to produce excellent cornering performance, traction and bump absorption. With smooth chassis movement, the rider is able to make the most of the engine's exceptional power with confidence.

### 4. Braking System

A rigid front caliper with large pad surface area aids feel and controllability. The front brake rotor dissipates heat efficiently for consistent performance under racing conditions.

### 5. Multi-Function Enduro Meter

The compact meter has a high-contrast liquid crystal display with a fuel consumption indicator. The meter features two modes: Standard and Race. Standard mode displays the speedometer, two trips meters and clock functions while Race mode features average speed, timer and trip functionality along with low fuel and engine warning lights.

### 6. Next-Gen Enduro Racer Based on Flagship YZ450F™

The WR450F™ builds on Yamaha's exceptional motocross race platform with added features and unique settings designed to optimize the WR for enduro riding.



\*Manufacturer's Suggested Retail Price (MSRP) shown. Does not include tax, title, prep or destination charges. Actual prices set by dealer.

## FEATURES & BENEFITS

### TOP FEATURES - CONT.

#### 7. Potent Electric Start Engine

A combustion chamber geometry with steep valve angles, aggressive cam profiles, a high compression piston with low friction rings, long connection rod, large exhaust head pipe connector, high-flow air filter and efficient breather system work together to give WR450F riders a broad spread of useable thrust with expanded high-rpm power. All available with the convenient push-button starting that features a compact starter motor.

#### 8. Advanced Frame

Yamaha's aluminum frame features flex characteristics giving riders the ultimate combination of precise cornering performance, traction and bump stability. The frame is derived from the YZ450F to centralize mass and provide an ideal balance between cornering feel and straight-line confidence. The rigidity balance of the chassis is specifically tuned for enduro riding.

#### 9. Class-Leading Suspension

The Yamaha WR450F uses KYB® spring-type forks with industry-leading functionality and easy tuneability for a wide range of conditions.

#### 10. EPA-Compliant Emissions

Thanks to carefully balanced ECU tuning and the Forestry Service-complaint spark arrestor-type muffler, the WR450F is ready to go where you want, when you want.

## ENGINE

### Cylinder Design

The WR450F's rear exhaust and forward-mounted intake system features a cylinder head design that works with the frame geometry for optimized weight distribution. The engine features a straight intake tract, aggressive cam profiles, high-compression "box bridge" piston design with DLC-coated piston pin and more.

### Enduro Engine Tuning

WR450F-specific ignition and fuel injection maps are optimized for enduro riding and racing for exceptionally smooth, controllable midrange and extended pulling power in the top-end.

### Unique Intake and Exhaust Systems

The WR450F features an air filter that works in conjunction with the tuned intake tract length and a WR-specific muffler to boost the linear feeling of traction and drive. Not only is the WR450F muffler completely mechanical—eliminating the need to repack—it integrates a U.S. Forestry Service-compliant spark arrestor too.

### High-Capacity Radiator and Fan

The WR450F uses a large radiator with excellent cooling capacity shared with the YZ450F motocrosser, complete with a cooling fan for consistent performance during the toughest enduro rides.

### Electric Starter System

The WR450F features a compact electric starter system to simplify restarts on the trail and add convenience everywhere else.

### Advanced Fuel Injection

The engine breathes through a 44mm Mikuni® throttle body fed by a high-pressure electric pump to ensure optimum fuel atomization and power for a wide range of riding elevations and conditions.

### Robust Transmission and Clutch

The WR450F's wide-ratio 5-speed transmission provides the optimized gear for tight technical terrain, as well as wide open fire roads. The transmission gears use a wide surface area that is balanced against updated clutch components.

## CHASSIS/SUSPENSION

### YZ450F-Derived Bilateral Beam Frame

Yamaha's refined aluminum frame provides high performance on technical, aggressive terrain sections and comfort for those long days in the saddle, with frame spars and engine mounts developed alongside the YZ450FX cross country racer to centralize mass for the best possible balance of bump absorption, stiffness and rider feel.

### Compact Body and Seat Design

The WR450F features stylish bodywork from tip to tail, including a large 2.15 gallon, mass-centralized fuel tank. The body design is narrow for more comfortable knee grip and control, while the seat gives the rider additional room to move. Even the rear fender is designed for added rigidity to make moving the machine easier.

### Class-Leading Suspension

The WR450F's industry-leading, fully adjustable KYB® coil spring-type fork with speed sensitive damping provides exceptional balance between handling and bump absorption, with mid-speed valving tuned for improved feel at slower fork speeds.

### 270mm Front Brake

The large 270mm front disc brake coupled with aggressive pad material offers outstanding braking performance and machine control with exceptional stopping power.

### Cross Country Wheels and Tires

The WR450F features an 18-inch rear wheel to help prevent pinch flats and provide additional comfort across rough, broken terrain.

## ADDITIONAL FEATURES

### Enduro-Ready Detailing

The WR450F includes a range of enduro-specific upgrades compared to the YZ450F motocrosser, including a wide, full-coverage composite engine guard, 18-inch rear wheel, large 2.15-gallon fuel tank, radiator fan, sealed O-ring chain, fuel level and engine warning lights, steel rear sprocket, and a high-mounted folding aluminum kickstand.

### Multi-Function Enduro Meter

The compact meter has a high-contrast liquid crystal display with a fuel consumption indicator. The meter features two modes: Standard and Race. Standard mode displays the speedometer, two trips meters and clock functions while Race mode features average speed, timer and trip functionality along with low fuel and engine warning lights.

### Compact Headlight Unit

The WR450F's headlight fairing and compact taillight unit centralize mass and improve the racy, agile styling of the machine.

### Embedded Graphics

Yamaha's unique embedded graphics are built into the bodywork for extended durability, resisting both peeling and damage.

### yamahamotorsports.com

For Accessories, visit [shop.yamaha.com](https://shop.yamaha.com)

# 2022

# WR450F

## SPECIFICATIONS:

|                                 |   |
|---------------------------------|---|
| <b>Engine Type</b>              | 450cc liquid-cooled DOHC 4-stroke; 4 valves                                 |
| <b>Bore x Stroke</b>            | 97.0mm x 60.8mm   |
| <b>Compression Ratio</b>        | 13.0:1  |
| <b>Fuel Delivery</b>            | Mikuni® fuel injection, 44mm  |
| <b>Transmission</b>             | Wide-ratio 5-speed; wet multiplate clutch                                   |
| <b>Final Drive</b>              | O-ring chain  |
| <b>Suspension / Front</b>       | KYB® Speed-Sensitive System inverted fork; fully adjustable, 12.2-in travel |
| <b>Suspension / Rear</b>        | KYB® single shock; fully adjustable, 12.5-in travel                         |
| <b>Brakes / Front</b>           | Hydraulic single disc brake, 270mm  |
| <b>Brakes / Rear</b>            | Hydraulic single disc brake, 245mm  |
| <b>Tires / Front</b>            | 80/100-21 Dunlop® MX33  |
| <b>Tires / Rear</b>             | 120/90-18 Dunlop® MX33  |
| <b>L x W x H</b>                | 85.6 in x 32.5 in x 50.0 in   |
| <b>Seat Height</b>              | 37.6 in   |
| <b>Wheelbase</b>                | 58.3 in   |
| <b>Rake (Caster Angle)</b>      | 27.0°   |
| <b>Trail</b>                    | 4.6 in  |
| <b>Maximum Ground Clearance</b> | 12.6 in   |
| <b>Fuel Capacity</b>            | 2.15 gal  |
| <b>Wet Weight</b>               | 262 lb  |
| <b>Warranty</b>                 | 30 Day (Limited Factory Warranty)   |
| <b>Color</b>                    | Team Yamaha Blue  |

Specifications subject to change without notice. This document contains many of Yamaha's valuable trademarks. It may also contain trademarks belonging to other companies. Any references to other companies or their products are for identification purposes only, and are not intended to be an endorsement. © 2022 Yamaha Motor Corporation, U.S.A. All rights reserved.

\*\*\* Wet weight includes the vehicle with all standard equipment and all fluids, including oil, coolant (as applicable) and a full tank of fuel. It does not include the weight of options or accessories. Wet weight is useful in making real-world comparisons with other models.