

2020

YZ450F



Team Yamaha Blue

\$9,399 MSRP* \$425 Destination Charge*



Gray

\$9,399 MSRP* \$425 Destination Charge*

TOP FEATURES

1. Ultimate Open Class YZ®

More Powerful. Better Handling. Simply put, the 2020 YZ450F™ is better everywhere, with a more compact motor, a thoroughly refined and balanced chassis, and improved ergonomics to give the rider the ability to perform at their best, lap after lap.

2. Yamaha Power Tuner App

Yamaha's exclusive Power Tuner app puts the flexibility and precision tunability of the GYTR® Power Tuner into your smartphone. Make fueling and ignition timing changes instantly and upload them to the bike for the ultimate in track-side tuning, or use the handlebar-mounted switch to change fueling maps on the fly.

3. Compact and Cutting-Edge Fuel-Injected Engine

Inside the ultra-compact new motor, a high-compression cylinder head, forged piston, aggressive cam profiles and much more work together to give YZ450F riders the best balance of open-class power with controllability. And electric start makes it even easier.

4. Advanced Alloy Frame

Yamaha's bilateral beam aluminum frame features updated main spars, triple clamps and engine mounting points that centralize mass and provide an ideal rigidity balance between cornering feel and straight-line confidence.

5. Class-Leading Suspension

Yamaha continues to use spring-type forks with refined, speed-sensitive damping to give industry-leading suspension performance straight out of the box.



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

FEATURES & BENEFITS

NEW FOR 2020

All-New Cylinder Head

The YZ450F's already potent motor was treated to a host of go-fast refinements, including new combustion chamber geometry with steeper valve angles, more aggressive cam profiles, a higher compression piston with low friction rings, longer connection rod, larger exhaust head pipe connector, a high flow air filter, more efficient breather system, and more—all while fitting under a smaller and lighter magnesium valve cover.

Smoother Shifting

Gear widths and shapes were carefully analyzed to improve shifting feel and precision without sacrificing Yamaha's legendary reliability under racing conditions.

Revised Bilateral Beam Frame

The YZ450F aluminum frame features all-new flex characteristics that give riders the ultimate combination of precise cornering performance, traction, and bump stability. By tuning the rigidity balance of the chassis with changes to the lateral beams and engine cradle tube thickness as well as engine mounts, top triple clamp and front axle, the 2020 YZ450F takes rider confidence to new levels.

New Braking Systems

A new, more rigid front caliper and compact rear caliper work with new pads and discs to boost brake feel and controllability. The new 240mm rear brake rotor also dissipates heat more efficiently, for more consistent performance under racing conditions.

Updated Suspension Tuning

The 2020 YZ450F features revised damping front and rear tuned in concert with the updated chassis to improve cornering performance, traction, and bump absorption. With smoother chassis movement, the rider is able to make the most of the engine's exceptional power with greater confidence.

ENGINE

New More Compact Rearward-Slanted Cylinder

The YZ450F's distinct rearward-slanted cylinder design is now even lighter and more compact than before, ideally positioned in the frame for optimized weight distribution. Inside, the new head features steeper valve angles to allow for an even straighter down-draft intake port, as well as more aggressive cam profiles and larger diameter exhaust header joint working together with a higher compression bridge-box design piston, DLC-coated piston pin, and longer connecting rod to give YZ450F riders the best balance of class leading power with an all new level of controllability.

Yamaha Power Tuner App

Breaking new ground in the industry – again – Yamaha created the Power Tuner app, which brings the power of the GYTR Power Tuner to your iOS® or Android® device. Using wireless connectivity to talk to the bike's onboard CAN-bus network, the app allows owners to adjust air/fuel mixture and ignition timing maps to tune engine performance for track conditions, record race log information, and monitor a range of data such as maintenance and system diagnosis, engine run time, and more.

Adjustable Fuel Mapping

A handlebar-mounted map switch allows the rider to quickly select between preloaded engine maps—loaded and configured in the Power Tuner app—to account for changing track and weather conditions.

Electric Starter System

The YZ450F features a compact electric starter system to minimize restart delays on track and add convenience everywhere else. Powered by a high-capacity and ultra-lightweight four-cell lithium-ion battery, the system adds minimal weight.

Launch Control System (LCS)

LCS optimizes engine output for quicker, smoother race starts every time, boosting controllability out of the gate and ensuring the rider has the best chance to get the holeshot and lead the competition into the first turn.

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 conditions. The ultra-compact throttle body also saves weight for excellent mass-centralization.

Cooling System

The YZ450F features radiators that are angled directly in the incoming air stream, for enhanced cooling under the most demanding race conditions.

Robust Transmission and Clutch

The YZ450F's transmission gears use a wide surface area balanced against updated clutch components, all designed to boost durability. The shift drum and selectors improve feel with a shorter, more direct stroke when changing gears, too.

Updated Wraparound Rear-Positioned Exhaust

Yamaha's innovative exhaust pipe design enhances mass centralization by moving the rear end of the exhaust pipe farther forward and enabling a muffler position closer to the machine's center of the mass. And thanks to a wider joint profile, power development is enhanced, too.

CHASSIS/SUSPENSION

Revised Bilateral Beam Aluminum Frame

The YZ450F's compact aluminum frame further refines the instinctive handling that makes this Yamaha one of the sharpest machines in the class. Every aspect has been carefully retuned, with thinner main spar construction, thicker down tubes, revised top triple clamp, and all-new motor mounts that work together to optimize overall rigidity balance for excellent handling, especially in fast, bumpy conditions.

Compact Body and New Seat Design

The YZ450F features stylish bodywork from tip to tail, including a compact fuel tank specifically designed for motocross demands. The new handlebar position is 5mm lower and 15mm forward and the seat features 10% firmer foam to assist the rider in keeping their weight forward during aggressive riding.

Revised Class-Leading Suspension

Industry-leading, fully adjustable KYB® coil spring-type fork with speed sensitive damping provides exceptional balance between handling and bump absorption, retuned for 2020 to deliver race-winning performance. The linkage-type rear suspension features a KYB® shock with damping characteristics to match the new YZ450F chassis.

Updated Brake System

A large 270mm front disc brake is coupled with an all-new, more rigid caliper with aggressive pad material to offer outstanding braking performance and machine control. Out back, the rear system sheds weight with a compact new caliper and new 240mm rear rotor with improved heat dissipation.

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Lightweight Wheels

Careful computer-aided refinement of each wheel's cross-sectional profile shaves valuable weight without sacrificing durability.

ADDITIONAL FEATURES

New Triple Clamp with Adjustable Handlebar Mounts

The new top triple clamp design is resculpted to balance rigidity for improved steering feel, while the 4-position adjustable handlebar clamp is rubber mounted for comfort, reduced handlebar vibration and easily tunable bar position.

Embedded Graphics

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

Race Winning Details

The YZ450F includes top-spec details, including 1-1/8" aluminum tapered handlebars, wider yet lighter footpegs, a quick-adjust clutch perch, stylish blue rims and gold chain.

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For Accessories, visit shopyamaha.com

SPECIFICATIONS:

Engine Type	449cc liquid-cooled DOHC 4-stroke; 4 titanium valves
Bore x Stroke	97.0mm x 60.9mm
Compression Ratio	13.0:1
Fuel Delivery	Mikuni® fuel injection, 44mm
Transmission	5-speed; multiplate wet clutch
Final Drive	Chain
Suspension / Front	KYB® spring-type fork with speed sensitive damping; fully adjustable, 12.2-in travel
Suspension / Rear	KYB® single shock; fully adjustable, 12.5-in travel
Brakes / Front	Hydraulic disc, 270mm
Brakes / Rear	Hydraulic disc, 240mm
Tires / Front	80/100-21 Dunlop® MX33®
Tires / Rear	120/80-19 Dunlop® MX33®
L x W x H	86.0 in x 32.5 in x 50.2 in
Seat Height	38.0 in
Wheelbase	58.3 in
Rake (Caster Angle)	27.0°
Trail	4.7 in
Maximum Ground Clearance	13.0 in
Fuel Capacity	1.6 gal
Wet Weight	245 lb
Warranty	30 Day (Limited Factory Warranty)
Color	Team Yamaha Blue; Gray

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*** 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.