



# YZ450F Monster Energy Yamaha Racing Edition



## Ride like the reigning champ.

Lighter, more compact with increased power across the entire rev range, the all-new 450cc engine maintains the YZ450F's exceptional pulling power and renowned ease-of-use, all while boosting the rev limit by 500 rpm for even more top-end power. With exclusive black bodywork and factory style graphics the YZ450F Monster Energy Racing Edition is the ultimate motocross bike.

Power Tuner is just like having a factory technician in your team. A new 'Quick Setting' function makes it even easier to adjust the engine character – and a new lap timer function means that you can check which settings achieve the best results. And you can also adjust the behaviour of the traction control and launch control systems.



- Monster Energy Yamaha Racing Edition bodywork
- Reduced weight and increased durability
- Lighter, slimmer and more powerful engine
- Increased air intake capacity
- New disc spring clutch
- Newly designed transmission
- Redesigned aluminium bilateral beam frame
- Seamless ergonomic bodywork
- Updated KYB suspension
- Adjustable traction control system
- Refined launch control system



# YZ450F Monster Energy Yamaha Racing Edition

This factory-style race bike's best-in-class KYB forks come with new settings and now feature a hand adjustable compression damping adjuster – and with its compact new seamless bodywork, flat seat and revised ergonomics, you have the power to achieve ultimate chassis control. The new YZ450F Monster Energy Racing Edition: Ride like the reigning champ.

## Ride like the reigning champ.

From MXGP to US Supercross and Motocross Yamaha Official riders give 100% every race, pushing the limits. So if you're searching for the ultimate factory style race bike you need to take a look at the YZ450F Monster Energy Racing Edition.

Built on its best-in-class power delivery and suspension performance, the all-new 2023 YZ450F boasts even more power, better handling, less weight, a new more narrow body with improved ergonomics and next-generation Power Tuner app—all while maintaining its renowned ease-of-use that makes fast riders even faster. This has got to be one of the best-looking production motocross bikes we've ever built.

A new lightweight aluminium frame and updated KYB suspension deliver the cornering precision and straight-line stability you need stay ahead – and the compact new seamless bodywork combined with revised ergonomics give the ultimate rider mobility for maximum control when accelerating, braking and cornering.



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## Monster Energy Yamaha Racing Edition bodywork

You've come a long way – and now it's time you got yourself the bike you always dreamed about. The YZ450F Monster Energy Yamaha Racing Edition gives you genuine factory style that's inspired by the winning MXGP race team bikes. This exclusive package features a full Monster Energy graphics set for the fenders, shrouds, sidepanels and fork protectors to underline the bike's pure racing DNA.



## Lighter, slimmer and more powerful engine

With a 5% increase in power across the rpm range as well as a harder hitting top end, this is the most powerful engine ever used in the YZ450F Monster Energy Yamaha Racing Edition. Featuring a new piston, lightweight cylinder and redesigned crank assembly, this lightweight and compact new engine delivers strong and linear power that gives you plenty of easy to control performance at all engine speeds.



## Increased air intake capacity

A key feature on the YZ450F Monster Energy Yamaha Racing Edition is its front facing intake that gives you a real competitive advantage. For increased performance the intake port is redesigned to give a much straighter path to the cylinder head. Together with larger 39mm titanium inlet valves, this high-efficiency intake enables the engine's rev limit to increase by 500rpm for increased performance.



## New disc spring clutch

To handle the extra power the YZ450F Monster Energy Yamaha Racing Edition is equipped with a durable and compact one-piece steel clutch that reduces engine weight by 0.75kg and reduces engine width by 8.5mm. New disc springs are used instead of conventional coil springs, giving improved feel and a much lighter pull at the lever.



## Newly designed transmission

To match the engine's increase in overall power a newly designed transmission is fitted. The distance between the drive shafts has been widened and the diameter of each gear increased to reduce weight and enhance the strength of the 5-speed gearbox.



## Redesigned aluminium bilateral beam frame

The YZ450F Monster Energy Yamaha Racing Edition's aluminium bilateral beam has been redesigned to provide a lighter feel and improved agility. The rigidity of the tank rails has been optimized to give a controlled amount of flex for improved shock absorption, and the down tube and cross tube are stiffened to ensure high levels of stability and precise cornering.





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## 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
Carburettor	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



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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.