



Increased performance with total control.

The 2021 YZ250F gets an all-new high-tech engine featuring a redesigned exhaust camshaft for stronger low to mid-speed power – as well as a new high efficiency intake and muffler for a harder-hitting top end. And to handle the increased performance there's a tougher clutch and slicker-shifting transmission.

Handling is taken to another level by fine-tuning the rigidity of the aluminium beam frame to give even lighter handling and more precise cornering – while the industry-leading spring-type forks provide the YZ250F with more progressive damping for better traction and increased cornering confidence.

A more powerful braking system helps to shave lap times, and relocated handlebars give enhanced front end traction. New Icon Blue bodywork with matching blue front and side plates sharpens the bike's radical look – and the Power Tuner App and switchable ignition gives you total control when the gate drops!



- New higher-performance 250cc 4-stroke engine
- New-shape exhaust camshaft for improved engine feeling
- Shorter high-efficiency intake system
- New higher-capacity muffler
- Stronger clutch and refined transmission
- Refined aluminium bilateral beam frame
- Spring-type front forks with more progressive damping
- Monocross rear suspension with optimized settings
- Relocated handlebar position for increased controllability
- Lighter and more powerful brakes
- Yamaha Power Tuner app

Tune. Race. Win.

Developed using the very latest technology from the Yamaha's race-winning MX2 and SX factory bikes, the new YZ250F is sharper, quicker and smoother – giving you the performance and the confidence that you need to succeed.

As soon as the gate drops you can feel the YZ250F's new engine with its stronger low to mid-range performance thanks to the revised exhaust camshaft, lighter piston and longer con rod – while an all-new cylinder head with an improved intake design gives a harder-hitting top end. And by using your smartphone with the Power Tuner app you can select the ideal power profile for optimum race performance in all conditions.

The latest chassis feels sharper and lighter than ever thanks to the refined rigidity of the aluminium beam frame which features all-new flex characteristics, and revised suspension settings – giving you the ultimate combination of precise cornering performance and handling stability. And the new generation Icon Blue body with coordinated front and side plates gives a radical and fresh look. Tune. Race. Win.



Completely redesigned engine

The YZ250F's already potent engine was treated to a host of refinements, including an all-new cylinder head with an improved intake port shape, new exhaust camshaft profile, a new silencer, and an updated ECU and more – to produce stronger mid- to top-end power and increased peak power, while retaining its class-leading low-end torque.



New-shape exhaust camshaft

A key feature on the 2021 model is the adoption of a new exhaust camshaft with reshaped lobes that reduce valve overlap for stronger low to mid-range punch – and the Denso 12-hole injector benefits from optimized fuel injection settings that ensure higher performance with greater controllability.



More effective intake system

Yamaha's innovative reversed cylinder head layout features a front-facing inlet that enables fresh air to enter directly into the engine for increased intake efficiency. For 2021 Yamaha's engineers have designed an even more effective intake with additional ducting that gives the air a smoother and shorter route to the cylinder head for increased high rpm performance.



Higher-capacity muffler

Just 70mm longer than the previous design, the new lightweight muffler gives an increase in exhaust capacity that dampens high frequency sounds to deliver a more torquey and pleasant exhaust note. With its wraparound exhaust and compact muffler, this high-performance system ensures smooth engine running and contributes towards mass centralization.



Tougher clutch and slicker transmission

Alongside the wide range of performance-boosting engine features for the new season, Yamaha's engineers have also uprated the clutch with a new heavy-duty housing that is stronger than previously. Together with newly designed 3rd, 4th and 5th gears, the 2021 YZ250F's transmission delivers a light and precise feel with increased durability.



Refined aluminium beam frame

For 2021 the YZ250F's lightweight and agile aluminium beam frame has been refined and retuned by modifying its thickness at strategic points, using new engine mounts and adjusting the balance of rigidity. These changes give an even lighter feel to the handling, while also helping to give a more controlled and less physically demanding ride.

Engine

Engine type	Liquid-cooled; 4-stroke; 4-valves; Rear ward slanting single cylinder; DOHC
Displacement	250cc
Bore x stroke	77.0 mm x 53.6 mm
Compression ratio	13.8 : 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
Carburettor	Fuel Injection

Chassis

Frame	Semi double cradle
Front suspension system	Upside-down telescopic fork
Front travel	310 mm
Rear suspension system	Swingarm; link suspension
Rear Travel	317 mm
Front brake	Hydraulic single disc, Ø270 mm
Rear brake	Hydraulic single disc, Ø240 mm
Front tyre	80/100 - 21 51M
Rear tyre	100/90 - 19 57M
Caster Angle	26.5°
Trail	119mm

Dimensions

Overall length	2175 mm
Overall width	825 mm
Overall height	1285 mm
Seat height	970 mm
Wheel base	1475 mm
Minimum ground clearance	335 mm
Wet weight (including full oil and fuel tank)	106 kg
Fuel tank capacity	6.2L
Oil tank capacity	0.95L



YZ250F

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