YZ450F

The art of control

Delivering high levels of engine, chassis and braking control, the YZ450F is designed to give you a real advantage over the opposition at every stage of the race.

From the second you power away from the start gate to the moment you cross the finish line, this innovative motocross bike allows you to realize your full potential by enabling the rider to fully unleash its winning engine and chassis performance.

From the electronic launch control system and large diameter front disc brake, through to its smooth power delivery and refined suspension and chassis, the YZ450F gives you more control from start to finish.

- Reverse cylinder head with front-facing inlet
- 450cc liquid-cooled DOHC 4-valve engine
- Smooth and controllable engine power
- Electronic launch control system (LCS)
- Large diameter 270mm front brake
- Mass centralized design for agile handling
- Aluminum bilateral-beam frame
- Air-Oil-Separate (AOS) upside-down front forks
- Linked-type Monocross suspension
- MXGP-developed design

The art of control

With its innovative reverse cylinder head as well as an ultra-compact chassis and sophisticated suspension, the YZ450F is ready to push your racing career to the next level.

Equipped with optimized valve timing and camshafts, this MXGP-developed racer delivers a smooth and easy engine character that enables you to fully unleash its awesome power. A larger diameter 270mm front disc allows you to brake harder and later - while the suspension settings and chassis design give increased traction and feel.

Featuring an electronic launch control system for faster starting, the YZ450F is built to win. And take you one step closer to total control.

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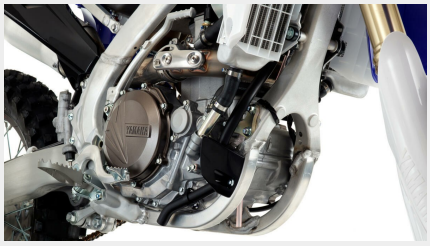
Electronic launch control system (LCS)

For holeshot-winning performance the YZ450F is equipped with a sophisticated launch control system (LCS). Activated by a button, this performance-enhancing electronic system makes precise engine rpm adjustments in order to limit rear wheel spin and control wheelies when powering hard out of the start gate in 1st and 2nd gear.



Smooth and easy engine character

The YZ450F's reverse 4-valve cylinder head is one of the most advanced designs in its class. For higher combustion efficiency the latest model benefits from optimized valve timing together with a high lift exhaust cam and special valve springs that deliver a smooth and easy engine character in the low to mid-speed range.

Refined clutch and shift mechanism

Important changes to the clutch and transmission are designed to reduce lap times by helping you to shift gear more quickly and efficiently. For fast and precise gear changes - even in high-pressure situations - the YZ450F features a super-smooth clutch boss as well as the latest design shift stopper lever.

Larger diameter 270mm front disc

Braking power is just as important as engine power when it comes to winning races, and the YZ450F is equipped with a larger diameter 270mm front disc brake. Fitted with specially designed pads, this highly efficient front brake design delivers greater levels of stopping power with accurate feel and precise control.

Enhanced control

The Air Oil Separate (AOS) front forks are amongst the best in the business, and for enhanced control and improved front wheel grip the latest YZ450F runs with optimized front suspension settings - while the Monocross rear suspension also features improvements that give more effective bump absorption and enhanced handling performance.

Refined chassis design

New triple clamps give a revised fork offset that contributes towards the good balance of handling performance and shock absorbing capability. Repositioned footrests lower the rider's centre of gravity - and a wider swingarm pivot and steel engine mounts enhance the rigidity balance of the lightweight bilateral aluminium chassis.

YAMAHA
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YZ450F

Engine	
Engine type	Liquid-cooled;4-stroke;DOHC;4-valves;Rear ward slanting single cylinder
Displacement	449cc
Bore x stroke	97.0 mm x 60.8 mm
Compression ratio	12.5 : 1
Lubrication system	Wet sump
Clutch Type	Wet;Multiple Disc
Ignition system	TCI
Starter system	Kick
Transmission system	Constant Mesh;5-speed
Final transmission	Chain
Carburettor	Fuel Injection
Maximum power	-
Maximum Torque	-
Limited power version	-
Fuel consumption	-
CO2 emission	-

Chassis	
Frame	Semi double cradle
Front suspension system	Upside-down telescopic fork
Front travel	310 mm
Rear suspension system	Swingarm;link suspension
Rear Travel	315 mm
Front brake	Hydraulic single disc, Ø270 mm
Rear brake	Hydraulic single disc, Ø245 mm
Front tyre	80/100-21 51M
Rear tyre	110/90-19 62M
Caster Angle	27°15
Trail	118mm

Dimensions	
Overall length	2,180 mm
Overall width	825 mm
Overall height	1,280 mm
Seat height	965 mm
Wheel base	1,480 mm
Minimum ground clearance	330 mm
Wet weight (including full oil and fuel tank)	112 kg
Fuel tank capacity	7.5litres
Oil tank capacity	0.95litres