

Quality, performance and operating ease



Instrument Panel
The functional instrument panel of the new RD400 contains precision tachometer and speedometer so that the speed and engine performance can be read at a glance. Also, the panel contains turn signal indicator lights and a warning light in the case of low oil level.

Lighting
For safe riding day or night, the lighting equipment is designed to be readily visible by other traffic and so that the rider's field of vision is as wide as possible at night. The turn signals and rear stop light brightly indicate the rider's intentions and the instrumentation is softly back-lighted for clear nighttime viewing.



Frame
In order to give the bike better dynamic stability, the high tensile strength, double-cradle frame carries the engine low and forward. This tubular-steel frame is also designed to be able to withstand twisting, turning and impact stresses that are incurred on the roughest of roads so that the bike will be able to offer dependability regardless of the road conditions.

Front Forks
In order to smooth out road roughness and reduce vibration felt by the rider thereby lowering riding fatigue, this bike is equipped with ultra-responsive rake type front forks. These optimum-stroke forks are specially designed to yield the best stability while allowing maximum maneuverability.

Rear Shock Absorbers
In order to further increase the stability of the bike, the hydraulic rear shock absorbers are designed for an optimum stroke. Stroke is adjustable to compensate for load, and the design assures good surface tracking ability even while carrying widely varying loads. The exterior style of the shock lends itself to the overall good appearance of the machine.

Seat
The wide seat is cast in aluminum to help reduce riding fatigue when the bike is ridden continuously for long periods. Positioned for the best riding posture, the seat blends in with the dynamic lines of the machine, and for lasting durability the cover of the seat is weatherproof.

Autolube
Autolube, YAMAHA's patented oil injection system, is controlled by the engine speed and throttle opening, regulating the supply of oil from the separate oil tank to suit the driving conditions, as well as resulting in great economy and a more efficient, cleaner running engine.



Y-type Rod Valve
Employing a special stainless-steel feed-valve assembly between the carburetor and the engine, intake is positive and efficient. Operating due to pressure variations within the engine itself, the feed valves open and close on demand, positively fueling the engine and preventing blow-back through the carburetor, resulting in increased torque and higher economy.



Engine
The powerful, 2-stroke, parallel-twin engine employs YAMAHA's exclusive Torque Induction System which, by improving intake and scavenging, increases the available torque over the lower and middle speed ranges. The cylinder and head material is aluminum with cast-iron sleeves to improve heat-dissipating characteristics and further increase the overall power-to-weight ratio. Designed along the same lines as the world champion YAMAHA Grand Prix machines, this engine is highly responsive and exceptionally efficient under all operating conditions.



Transmission
Incorporating gear ratios which allow an adequate overlap in between ranges in order to maintain a power reserve for acceleration, the 6-speed transmission features positive operation for smoother bike performance and easier handling. Also, the gears are subjected to special heat treatment, yielding exceptionally hard bearing surfaces for longer durability even under repeated hard use.

Tires
The heavy-duty, multi-ply tires are exceptionally strong to withstand all road conditions. These tires are selected to allow the most efficient traction while being able to maintain maximum stability and offer excellent maneuverability.

Disc Brakes
With hydraulically operated disc brakes on the front and rear, the RD400 is able to offer a maximum in control and safety. Both 262mm diameter discs will not fade and are not affected by water, dusty roads or inclement conditions. Smooth control with positive stops are assured with the RD400.

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