

# RD400

15942,-



 **YAMAHA**

# 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

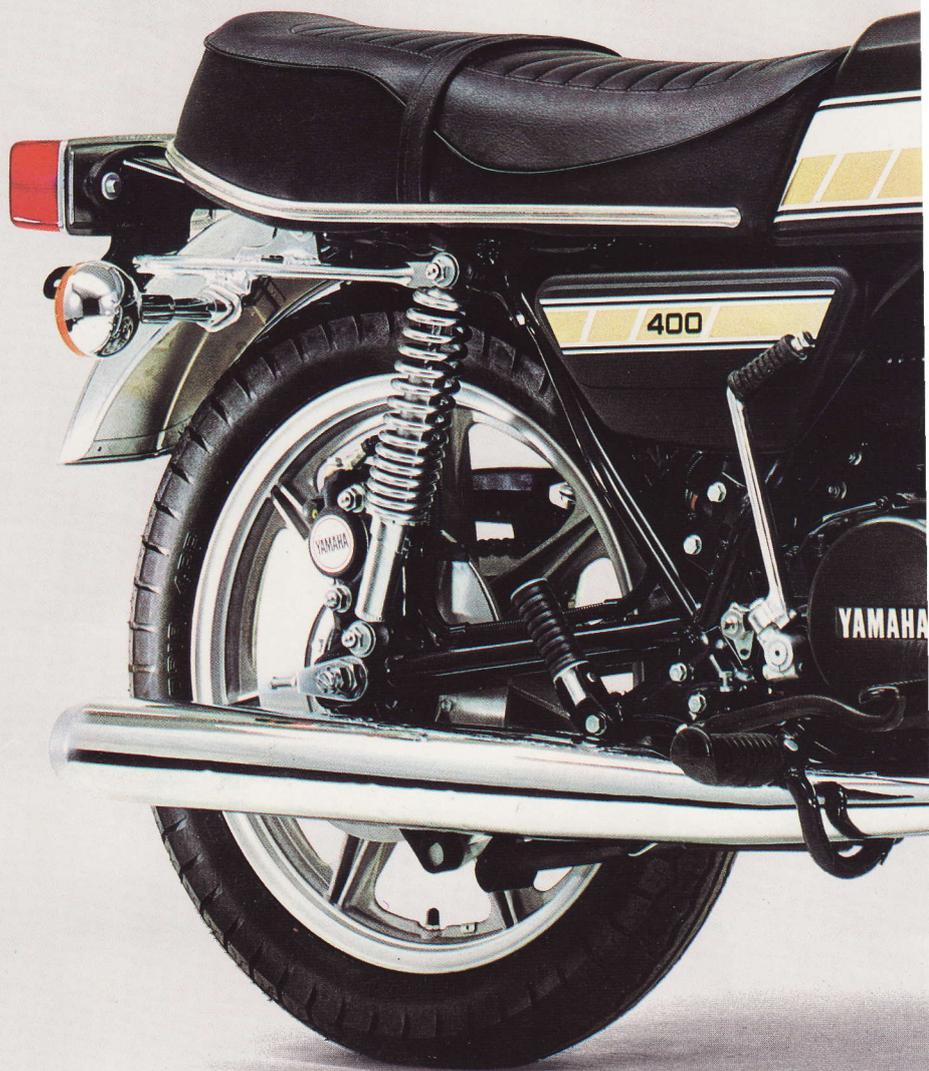
In order to give the bike better dynamic stability, the high-tensile-strength, double-cradle frame carries the engine low and forward. This tubular-steel frame is also designed to be able to withstand twisting, turning and impact stresses that are incurred on the roughest of roads so that the bike will 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 race type front forks. These optimum-stroke forks are specifically 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. 5-step adjustable to compensate for load, and the design assures good surface tracking ability even while carrying widely varying loads. The exterior style of the shocks lends itself to the overall good appearance of the machine.

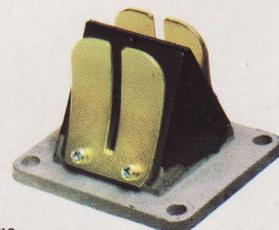


## Seat

The wide seat is extra comfortable 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.

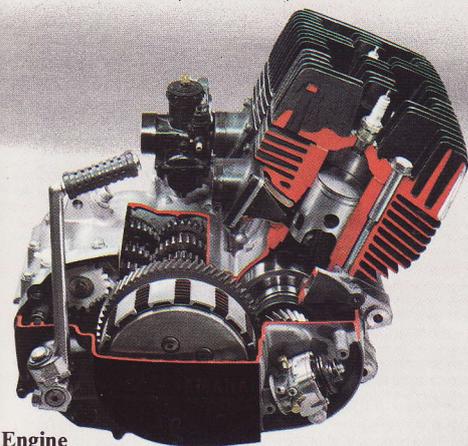
## Autolube

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 at all times resulting in great economy and a more efficient, cleaner running engine.



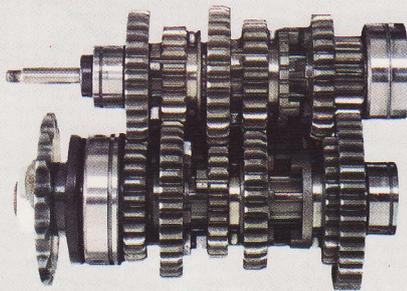
## V-type Reed Valve

Employing a special stainless-steel reed-valve assembly between the carburetor and the engine, intake is positive and efficient. Operating due to pressure variations within the engine itself, the reed 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.

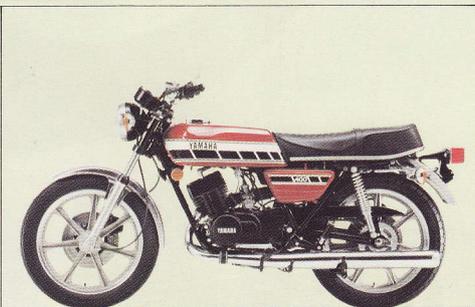
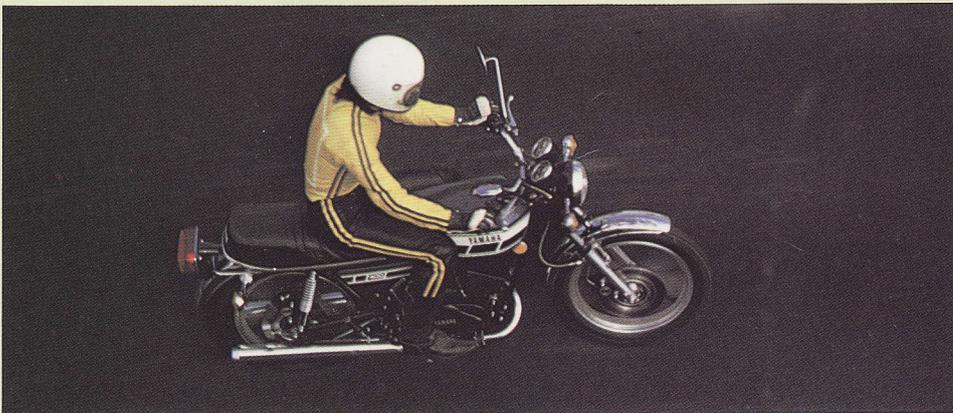
#### Tires

The heavy-duty, multi-ply-rated 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 267-mm. 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.

# Born of champions and molded with virtually unlimited capabilities



Incorporating some of the finer features found on YAMAHA's World Champion Road Racers, the new RD400 not only sports the same lines, but also has the distinct advantage of YAMAHA's championship engineering that has won recognition on the world's most competitive tracks. Designed with a low profile for balance, maneuverability and road-hugging ability, the RD400 is powered by a husky, 2-stroke, Torque Induction, twin engine, and has a smooth, but positive, 6-speed transmission as a near-perfect complement for a wider variety of riding enjoyment.

Fully equipped with speedometer, tachometer, hydraulically-operated disc brakes on front and rear, and race-oriented cast aluminum wheels, this new bike literally generates the spirit of a true champion whether winding its way through heavy city traffic or smoothly negotiating a banked, high-speed turn.

## SPECIFICATIONS

### PERFORMANCE

Max. speed range ..... 165 km/h  
 Climbing ability ..... 28°  
 Min. turning radius ..... 2,300 mm  
 Min. braking distance ..... 14 m @50 km/h

### ENGINE

Type ..... 2-stroke, Torque Induction, Twin  
 Displacement ..... 398 cc  
 Bore & Stroke ..... 64×62 mm  
 Compression ratio ..... 6.2:1  
 Max. horsepower

(S.A.E. net) ..... 40 bhp @7,000 rpm  
 Max. torque ..... 4.2 kg-m @6,500 rpm  
 Lubrication system ..... Autolube  
 Starting system ..... Primary kick  
 Transmission ..... 6-speed gearbox

### DIMENSIONS

Overall length ..... 2,015 mm  
 Overall width ..... 830 mm  
 Overall height ..... 1,085 mm  
 Wheelbase ..... 1,325 mm  
 Min. ground clearance ..... 150 mm

**WEIGHT (net)** ..... 157 kg

**FUEL TANK CAPACITY** ..... 16.5 lit.

**OIL TANK CAPACITY** ..... 1.8 lit.

**TIRES** front ..... 3.00S-18-4PR

rear ..... 3.50S-18-4PR

\* Specifications subject to change without notice.

# YAMAHA, It's a way of life



SINCE 1887

**YAMAHA MOTOR N. V.**

Postbus 7829 PROF. E. M. Meyerslaan 3  
 Amstelveen (Amsterdam), Holland  
 LIT-032040/50.12×156 Printed in Japan