

# YAMAHA RS100



# Yamaha's RS100: dashing budgeteer

Long before the fuel crisis, Yamaha were developing strong, economical, and inexpensive motorcycles. But Yamaha were never content with mere utility. The RS100 represents Yamaha's concept of a complete motorcycle—a motorcycle engineered for a specific purpose, but with the flair and style that characterise the entire Yamaha range. The RS100 is a simple motorcycle. It has a single-cylinder two-stroke engine designed to give tireless service under any conditions. The RS100 is also a sophisticated motorcycle. Torque Induction and Yamaha Autolube are among the refinements that guarantee economical performance and exceptional dependability. A five-speed gear-box, a race-bred frame, and fully hydraulic suspension bring zest and character to a machine made for the discerning commuter as well as the young enthusiast. The fuel crisis may have come as a disturbing surprise to the traveller; but Yamaha were ready with the answer. To Yamaha, economy is second nature.



## Instrumentation

The RS is equipped with a large speedometer for clear and instantaneous reading and a range of warning and indication lights.

## Engine

The RS100 power unit is a 97 cm<sup>3</sup> (52 x 45.6 mm bore and stroke) single-cylinder engine producing 11.0 hp (8.1 kW) at 8500 rpm. Crisp, spritely, but even performance is provided by the use of Yamaha's unique Torque Induction system, which utilises a steel reed valve to ensure a constant fuel flow at all engine speeds. Falling pressure in the crankcase opens the valve to admit precisely the correct amount of fuel for the work the engine is doing. Thus, the RS100 is smooth in traffic and impressively swift on the open road. Lubrication is controlled by Yamaha's Autolube system. A pump linked directly to the throttle delivers oil from a separate tank to the moving parts in amounts carefully metered according to engine speed. The engine therefore receives only the oil it requires and messy and uneven running are completely eliminated.

## Transmission

Five thoughtfully spaced gears and a strong multiplate clutch, designed to withstand the rigours of work in traffic, enable the rider to enjoy the full potential of the RS engine.

## Brakes

To ensure fast, positive braking under all conditions, the RS100 is fitted with waterproof, dustproof drum brakes both front and rear.

## SPECIFICATIONS

### ENGINE

Type	2-stroke, Torque Induction Single
Displacement	97 cm <sup>3</sup>
Bore & Stroke	52 x 45.6 mm
Compression ratio	7 : 1
Max. horsepower	8.1 kW (11.0 HP) @ 8,500 rev/min
Max. torque	10.3 Nm (1.03 kg-m) @ 7,000 rev/min
Lubrication	Autolube
Starting system	Primary kick starter
Primary transmission	Gear
Final transmission	Chain
Gearbox	5-speed
Carburettor	VM20SH
Clutch	Multi-plate, wet
Battery	6V, 4AH
Charging system	Flywheel magneto

Ignition type Magneto, CB/Coil

### DIMENSIONS

Overall length	1,945 mm
Overall width	730 mm
Overall height	1,045 mm
Wheelbase	1,240 mm
Seat height	775 mm
Weight (net)	91 kg
Fuel tank capacity	10.0 lit.
Oil tank capacity	1.3 lit.
Tires front	2.75-18-4PR
rear	3.00-18-4PR
Brakes front	Drum
rear	Drum

\*Specifications subject to change without notice.



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