

YAMAHA DT100



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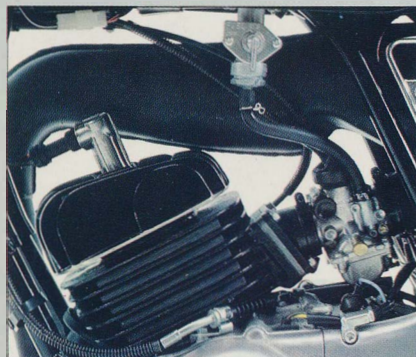
The Yamaha DT100 – Fun on the trail

The smallest of the Yamaha "dual purpose" trail bike range is the DT100 and it has been designed specifically for the rider who wants to enjoy himself out in the countryside without over-taxing his riding abilities. It's for the rider who just wants some plain, honest off-road fun rather than for the hero who wants to make every trail ride into a moto-crossing session. Don't get us wrong, however, the DT100 packs an astonishing punch from its Torque Induction two-stroke motor and is quite capable of providing some tingling nerves along with the fun!

It's just that the combination of this high-revving power, five speed gearbox and light weight makes the DT100 an easy bike for even the novice off-road rider to cope with.

Like the rest of the Yamaha DT range, the DT100 isn't just a trail bike. It comes fitted out with full road equipment: well-padded dual seat, turn indicators, lights and speedometer... even down to passenger footrests for two-up riding.

As well as fun on the trail, the DT100 can provide a pretty stylish way around town. Use it for errands or for work... it's as economical as any bike in its class. And then, if you get bored, head for the hills!



Engine

The DT100 uses the Torque Induction and 7-port transfer system that Yamaha have developed on racing machines from 750cc downwards and which have proved the yardstick for others to follow.

The 96 cc engine has a bore and stroke of 52.0x45.6 mm and develops a healthy 10.0HP (7.4 kW) at 7,500 rev/min... an extremely respectable power output for a small-capacity engine.

The piston runs in a cast-iron cylinder liner (a good feature for the cost-conscious rider planning to keep his machine for a long time) but the barrel itself is of heat-dissipating aluminium.

Engine longevity is assisted by the famous Yamaha Autolube system that does away with the tiresome chore of mixing oil and petrol. Oil is contained in a separate tank and pumped under pressure to the engine. The amount of oil used is controlled by a metering unit that is linked to the throttle. Open the throttle and the extra engine speed creates the demand for more oil. The throttle-linked metering unit supplies exactly the amount of oil needed.

At any given throttle opening the Yamaha system is delivering exactly the amount of oil that is required for optimum engine performance and reliability.

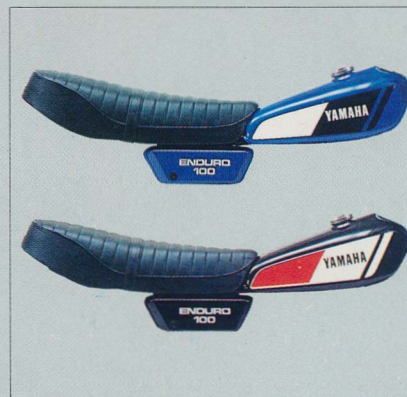
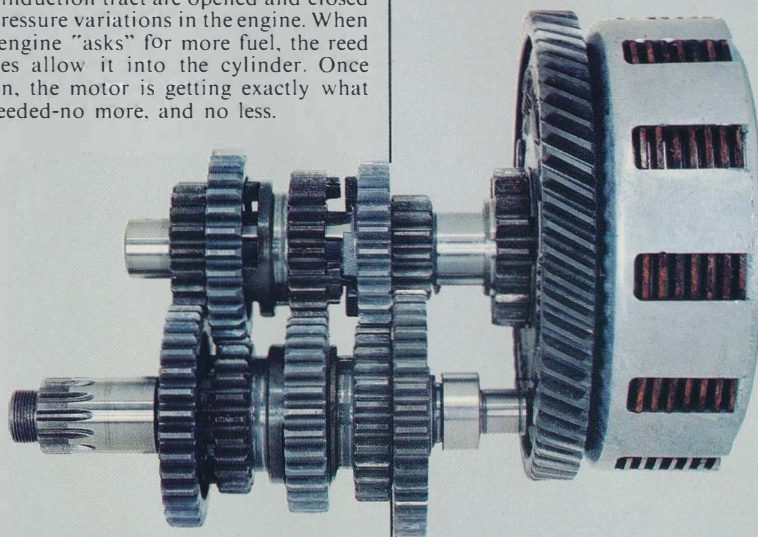
The same is true of the reed valve induction. Stainless steel spring reeds in a special induction tract are opened and closed by pressure variations in the engine. When the engine "asks" for more fuel, the reed valves allow it into the cylinder. Once again, the motor is getting exactly what is needed—no more, and no less.

Transmission

Small, powerful engines need well-chosen gearbox ratios and the five speeds in the DT100 gearbox were all chosen with this particular motor's power characteristics in mind. Small engines, especially out on the trail, also need a tough clutch so the DT100 has a 7-plate unit that permits a walking pace gait if needed.

Frame and Suspension

The double cradle frame has been specially strengthened at the head stock and engine mounting points to cope with the added demands of trail riding. Long travel front forks plus rear shocks that have five adjustment positions and external chromed springs, complete a suspension package that is more than able to cope with the type of terrain that the DT100 rider is likely to encounter.



SPECIFICATIONS

ENGINE

Type	2-stroke, Torque Induction, Single
Displacement	96 cc
Bore & Stroke	52.0x45.6 mm
Compression ratio	7.2 : 1
Max. horsepower	10.0HP (7.4 kW) @ 7,500 rev/min
Max. torque	0.97 kg-m (9.5 Nm) @ 7,000 rev/min
Lubrication system	Autolube
Starting system	Primary kick starter
Primary transmission	Gear
Final transmission	Chain
Gearbox	5-speed
Carburettor	VM22SS
Clutch	Multi-plate, wet
Battery	6 V, 4 AH
Charging system	Flywheel magneto
Ignition type	Magneto, CB/Coil

DIMENSIONS

Overall length	1,960 mm
Overall width	860 mm
Overall height	1,070 mm
Wheelbase	1,305 mm
Min. Ground clearance	240 mm
Seat height	795 mm
Front fork travel	145 mm
Rear wheel travel	115 mm
Weight (net)	94 kg
Fuel tank capacity	7.0 lit.
Oil tank capacity	1.2 lit.
Tires front	2.75-19-4PR
rear	3.00-18-4PR
Brakes front	Drum
rear	Drum

*Specifications subject to change without notice.

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