

# DT100



 **YAMAHA**

[www.legends-yamaha-enduros.com](http://www.legends-yamaha-enduros.com)



# The best in designs and developments for lasting go

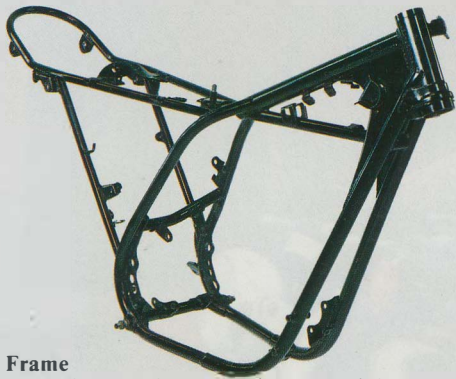


## Speedometer

The speed of the bike can be easily monitored by a glance at the large, easily-readable speedometer. This precision instrument is shock mounted for lasting durability, and placed at an optimum location for quick viewing.

## 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

Over the roughest terrain, an off-the-road bike experiences punishment that would literally destroy even the best road machine, and at YAMAHA in order to assure dependability regardless of the condition of the trail or the amount of vibration generated by the spirited engine, a high-tensile-strength, double-cradle frame is utilized. This double-cradle design has become famous throughout the world for its ability to withstand the gruelling treatment of hill-climbing, jumping and motocross sports.

## 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 road conditions, the design assures good surface tracking ability even while carrying widely varying loads, and the exterior style of the shocks lends itself to the overall good appearance of the machine.

## Muffler

The muffler is routed up from the center of the engine and tucked under the seat in order to maintain the overall slender profile of the bike. This muffler is able to efficiently reduce engine noise without appreciably affecting the high performance characteristics of the engine.

## Seat

Built comfortable for the road, yet blended in with the bike lines to further promote the slim profile for maneuverability. Rugged to withstand the weather and the varying conditions of the trail, this seat is able to maintain its handsome quality with a minimum of care.

## 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 greater 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.



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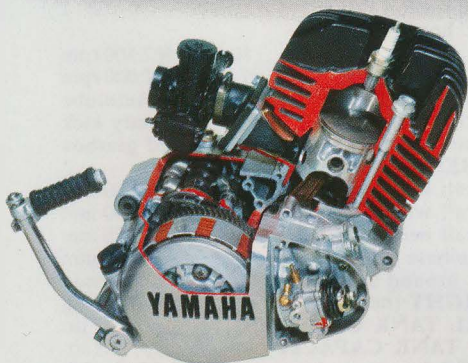




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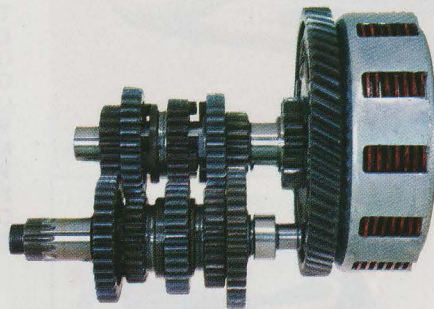


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#### Engine

For both on-the-road and off-the-road travel, the powerful, 2-stroke, single-cylinder engine features Torque Induction to obtain more torque in the lower and medium speed ranges thereby yielding a smooth, even response over the entire operating range of the bike. Also, the engine has an aluminum cylinder with cast-iron sleeve for durability and, coupled with the efficient head-fin design, outstanding heat-dissipating characteristics for better engine operation over rugged trails.



#### Transmission

Incorporating gear ratios which allow an adequate overlap in between ranges in order to maintain a power reserve for acceleration, the 5-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

Selected especially to give maximum traction under off-the-road conditions, these tires feature a heavy-duty, multi-ply rating and a knobby design. Also, they are able to withstand the shocks and impacts from jumping and hill climbing while being able to maintain good stability for excellent control.

#### Drum Brake

Utilizing YAMAHA's unique labyrinth-seal, double-ridge design, this brake, with a 110-mm dia. drum on the front and a 130-mm dia. drum on the rear, is not affected by wet or dusty surface conditions. With this brake, smooth, controlled stops are assured even under emergency conditions.



# Tough responsiveness ... outstanding trailing



Ideally utilizing the best technologies from both on-the-road and off-the-road cycling, YAMAHA has developed an exciting line of trail machines that are equally as adaptable to highway travel as they are to rough riding where there are no roads. The DT100 Trail bike exemplifies the finest developments from YAMAHA engineering... all designed considering their wealth of data collected from world-championship race and motocross tracks around the world. Headlined by a Torque Induction, 7-port, 2-stroke engine, the DT100 is able to offer quick, spirited performance across its entire speed range, and utilizing a tough double-cradle frame plus smooth-operating dustproof and waterproof brakes, this outstanding trail machine is durable and highly maneuverable with dynamically responsive control characteristics.

## SPECIFICATIONS

### PERFORMANCE

Max. speed range ..... 93 km/h  
 Climbing ability ..... 27°  
 Min. turning radius ..... 2,000 mm  
 Min. braking distance ..... 1.5 m @ 50 km/h

### ENGINE

Type ..... 2-stroke, Torque Induction, Single  
 Displacement ..... 96 cc  
 Bore & Stroke ..... 52 x 45.6 mm  
 Compression ratio ..... 7.2 : 1  
 Max. horsepower  
 (S. A. E. net) ..... 10 bhp @ 7,500 rpm  
 Max. torque ..... 0.97 kg-m @ 7,000 rpm  
 Lubrication system ..... Autolube  
 Starting system ..... Primary kick  
 Transmission ..... 5-speed gearbox

### DIMENSIONS

Overall length ..... 1,960 mm  
 Overall width ..... 860 mm  
 Overall height ..... 1,070 mm  
 Wheelbase ..... 1,305 mm  
 Min. ground clearance ..... 240 mm

**WEIGHT (net)** ..... 94 kg

**FUEL TANK CAPACITY** ..... 7 lit.

**OIL TANK CAPACITY** ..... 1.2 lit.

**TIRES** front ..... 2.75-19-4PR

rear ..... 3.00-18-4PR

\* Specifications subject to change without notice.



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**YAMAHA MOTOR N. V.**

Postbus 7829 PROF. E. M. Meyerslaan 3  
 Amstelveen (Amsterdam), Holland  
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