

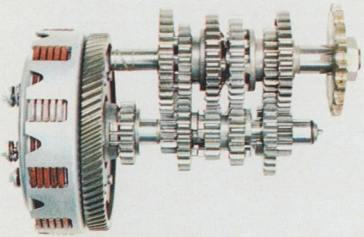
# YAMAHA TY175





# The perfect balance: Yamaha TY175

Superb lightweight engineering and years of invaluable experience in off-road competition have enabled Yamaha to produce, in the TY175, one of the most effective trials machines on the market. A slim, light, high-tensile steel frame with a specially developed engine perfectly poised for balance and maneuverability forms the basis of a devastatingly effective competition machine. Refinements include a flywheel magneto ignition system designed to produce a strong spark at low engine speeds and a chain tensioner to enhance rider control. The TY175 has quickly become recognised as one of the finest lightweight trials machines in the world.



## Engine

A single-cylinder 171cm<sup>3</sup> engine has been specially developed to produce low-speed torque while retaining useful power throughout the rev range. Autolube lubrication, supplying oil under pressure from a separate tank, not only ensures reliability but leads to a clean, swift throttle response. Urgent low-speed punch is guaranteed by Yamaha's Torque Induction reed-valve system, which utilises fluctuations in crankcase pressure to deliver precisely the measure of fuel required.

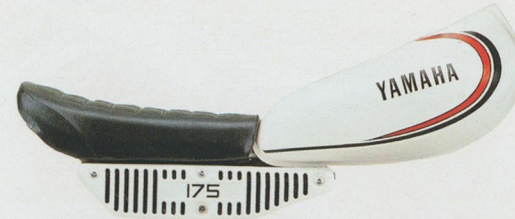
## Transmission

A six-speed gearbox with carefully selected, widely spaced ratios enables the TY's power to be most effectively used through the sections or between them.



## Frame

Yamaha's experience in world-class trials, particularly in drawing upon the development-riding expertise of Mick Andrews, has led to the creation of the TY's light, high-tensile steel frame. The engine is located for optimum balance and maximum maneuverability and the machine as a whole has an exceptional power-to-weight ratio.



## Special features

Street-legal speedometer is well protected behind left fork leg; ignition system, fired by a crankshaft-mounted magnet, is specially designed to produce a fat spark at low engine speeds; chain tensioner absorbs slack and improves control; aluminium bash plate protects engine; special silencing system enhances enjoyment of the country side.

## Suspension

Heavy-duty long-travel front forks with slow, positive damping are used in conjunction with rear units capable of five-way adjustment.

## Brakes

Yamaha's special labyrinth-seal, double-ridge brake plates on both front and rear drums prevent water and dust from penetrating.

## SPECIFICATIONS

### ENGINE

Type . . . . . 2-stroke, 1-cylinder  
Displacement . . . . . 171 cm<sup>3</sup>  
Bore & Stroke . . . . . 66 x 50 mm  
Compression ratio . . . . . 5.8:1  
Max. horsepower . . . . . 8.8 kW (12 PS)  
@7,000 rev./min.  
Max. torque . . . . . 13.7 Nm (1.4 kg-m)  
@6,000 rev./min.

Lubrication system . . . . . Autolube  
Starting system . . . . . Kick starter  
Primary transmission . . . . . Gear  
Final transmission . . . . . Chain  
Gearbox . . . . . 6-speed  
Carburettor . . . . . VM22SS  
Clutch . . . . . Multi-plate, wet  
Charging system . . . . . Flywheel magneto  
Ignition system . . . . . Magneto

### DIMENSIONS

Overall length . . . . . 1,955 mm  
Overall width . . . . . 835 mm  
Overall height . . . . . 1,100 mm  
Wheelbase . . . . . 1,265 mm  
Seat height . . . . . 750 mm  
Ground clearance . . . . . 295 mm  
Weight (net) . . . . . 81.0 kg.  
Fuel tank capacity . . . . . 4.0 lit.  
Oil tank capacity . . . . . 0.3 lit.  
Tires

Front . . . . . 2.75-21-4PR  
Rear . . . . . 4.00-18-4PR

### Brakes

Front . . . . . Drum  
Rear . . . . . Drum

\* Specifications subject to change without notice.



**YAMAHA MOTOR N.V.**

Postbus 7829 Prof. E.M. Meyerslaan 3  
Amstelveen (Amsterdam)