

# '74 TRIALS



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





Traditionally, protective head gear is not worn in Trials riding or competition. However, Yamaha recommends that safety helmets be worn in all riding situations.



## TY 80

Trials riding is unquestionably the best place for the beginner to learn good off-road riding technique. Which is one reason why the new TY 80 has special appeal as a bike for youngsters getting started in trail riding.

This authentic mini-trials bike has the same high ground clearance, low center of gravity frame configuration as Yamaha's new TY 250. The same specially designed suspension. The same ultralight components. And the same large flywheel engine design, which, combined with Torque Induction<sup>®</sup>, makes it pull hard at idle speeds.

The TY 80's extremely light weight and excellent low speed handling make it a very safe motorcycle for young riders. And, like the TY 250, it can negotiate terrain that stops other bikes dead in their tracks.

## TY 250

Mick Andrews, Trials Champion of the World, helped Yamaha develop the new TY 250, a purebred trials bike.

The ultralight frame, the many fiberglass and polypropylene structural components, the soft-damping forks and shocks, the close-ratio gearbox, and the slim saddle are all designed specifically for trials.

The large flywheel engine, combined with the great low rpm torque provided by Yamaha's Torque Induction<sup>®</sup> intake system, gives the TY 250 the low speed pulling characteristics of a bulldozer.

The new TY 250 for the serious trials rider, those who just want a bike that will go places no other bike can.

### Features TY 250



Slim trials saddle and a very narrow crankcase make for a comfortable riding position when you're up on the pegs. Every major component of the TY 250 has been designed specifically for trials.



Torque Induction<sup>®</sup>, Yamaha's exclusive reed valve intake system, produces remarkable low speed torque. The large flywheel design of the TY 250's engine and the close-ratio five speed transmission also help it pull hard at low speeds.



Trials front forks have extremely soft damping action. Lightweight speedo is mounted on fork. Hubs and rims are alloy. Fenders and gas tank are polypropylene. Even the Autolube<sup>®</sup> tank is lightweight nylon.

### Features TY 80



Slim trials saddle is a miniature of the TY 250's. Although the TY 80 is obviously designed for young riders, it is a true trials machine, from saddle to skid plate.



Special design rear shocks and front forks are long-travel units with soft damping characteristics to maintain control on rugged terrain. And to help the wheels ride up over high obstacles easily.



Torque Induction<sup>®</sup> helps the TY 80 generate more low speed torque by feeding the engine exactly the amount of fuel and air it needs. Large flywheel design also helps make for excellent low speed control.



# TY 250



# TY 80





# Someday, you'll own a Yamaha.

## PERFORMANCE

TY250A

Min. turning radius ..... 53.0 in.  
Min. braking distance ..... 49.2 ft. @ 31 mph

## ENGINE

Type ..... 2-stroke, Torque Induction, Single  
Displacement ..... 246 cc (15.01 cu. in.)  
Bore & Stroke ..... 2.756 x 2.520 in.  
Compression ratio ..... N.A.  
Max. torque ..... 15.2 ft-lb. @ 5,500 rpm  
Lubrication system ..... Autolube  
Starting system ..... Primary kick starter  
Ignition system ..... Flywheel Magneto  
Transmission ..... 5-speed gearbox

## DIMENSIONS

Overall length ..... 78.1 in.  
Overall width ..... 32.9 in.  
Overall height ..... 43.7 in.  
Wheelbase ..... 51.0 in.  
Min. ground clearance ..... 11.2 in.

## FUEL TANK

Capacity ..... 1.59 U.S. gal.

## OIL TANK

Capacity ..... 0.37 U.S. qts.

## TIRES

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

## PERFORMANCE

TY80A

Min. turning radius ..... L.R. 70  
Min. braking distance ..... 24.6 ft. @ 22 mph

## ENGINE

Type ..... 2-stroke, Torque Induction, Single  
Displacement ..... 72 cc (4.39 cu. in.)  
Bore & Stroke ..... 1.575 x 1.563 in.  
Compression ratio ..... 7.0:1  
Max. torque ..... 4.5 ft-lb. @ 5,000 rpm  
Lubrication system ..... Autolube  
Starting system ..... Primary kick starter  
Ignition system ..... Flywheel Magneto  
Transmission ..... 4-speed gearbox

## DIMENSIONS

Overall length ..... 61.4 in.  
Overall width ..... 27.2 in.  
Overall height ..... 35.0 in.  
Wheelbase ..... 40.4 in.  
Min. ground clearance ..... 8.7 in.

## FUEL TANK

Capacity ..... 0.7 U.S. gal.

## OIL TANK

Capacity ..... 0.2 U.S. qts.

## TIRES

Front ..... 2.50-16-4 PR  
Rear ..... 3.00-14-4 PR

Specifications subject to change without notice.

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Printed in Japan LIT-11115-04-74

