

# DT / TY / XT

DT100 / DT125E / DT125 / DT175 / DT250MX  
DT400MX / TY125 / TY250 / XT500

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 **YAMAHA**

# Yamaha DT Series... Respected Everywhere as the Very Best for Both Off- and On-the-road

**DT**

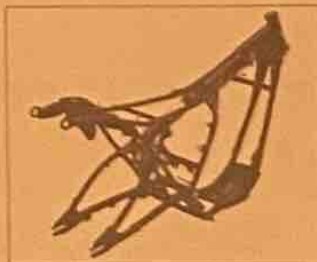
Yamaha's new full line of Trail bikes have been engineered and styled based on one very exciting concept—the best performance and winning durability both on and off the road. Nothing was overlooked to make each of these 6 models the very best in every respect—from the lightweight DT100 to the bulky and powerful DT400MX. Powerful 2-stroke, single-cylinder engines... with Yamaha's own Torque Induction feature... make them a powerful leader over any terrain. High-tensile-strength double-cradle frame construction absorbs the roughest punishment of off-road travel. Smooth-operating 5-speed transmission gives positive power for any riding condition. Front forks and rear suspension tame even the roughest ground. Special under-seat muffler design adds both to design and to clearance in rough trailing conditions. And numerous other features—brakes, lighting, seat, and tires—are all improved to make Yamaha's continued leadership in Trail models as sure as in years past.

**Engine**

The engines in Yamaha's DT models are specifically engineered for powerful performance. These 2-stroke, single-cylinder engines feature Bend-Valve Torque Induction, lightweight alloy construction and Yamaha's own Avolube-lubrication system. The results are highest efficiency and durability under the widest range of operation conditions... as well as less vibration, less noise, and better heat dissipation.

**Frame**

Over the roughest terrain, an off-the-road bike experiences punishment that would literally destroy even the best road machine. At YAMAHA, however, 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 grueling treatment of hill-climbing, jumping, and motocross sports.



**Monocross Suspension**

De Carbon Monocross Suspension System is the ideal suspension system for a machine such as the DT250MX or the DT400MX which is built to operate both on and off the road in a variety of terrain conditions. This system is controlled by a single heavy-duty spring unit which unifies gas and oil to assure that the rear wheel will most closely follow the contours of the ground. This means that suspension characteristics are both progressive and firm, and the power flow remains smoothly constant at all times.



**Speedometer and Tachometer**

The overall operation and speed of the bike can be easily monitored at a glance at the large, easily-readable tachometer and speedometer. These precision instruments are shock-mounted for lasting durability and are placed at an optimum location for quick viewing.



**DT125E**

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**Transmission**

The special DT transmission is Yamaha's answer to the rough demands which Trail bikes must undergo. The 5 widely-spaced gear ratios assure a sufficient overlap between ranges, thus maintaining a reserve of power for acceleration. Driven by helical-cut gears from the crankshaft, this constant-mesh transmission operates in its own oil bath, and features positive operation for smooth overall performance and easier handling even under the most demanding competition conditions.



**DT250  
MX**



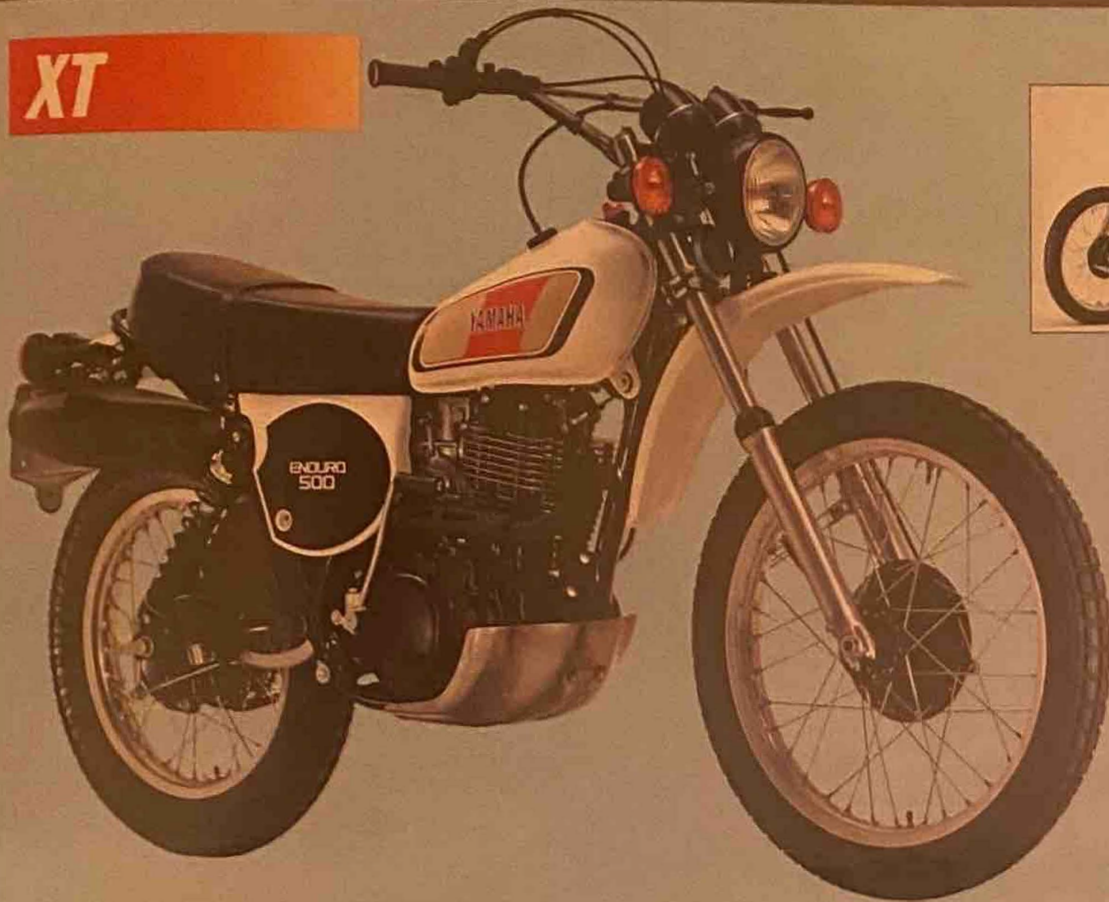
**DT400  
MX**



**DT125**



**XT**



**XT500**

## The Big Single is Back ... in the Big XT500 from Yamaha

Bringing back the "good old days" of the big single-cylinder bike is the tremendous XT500 from Yamaha. With great improvements, this new machine has a big, 499-cc single-cylinder overhead-cam engine. Large bore and stroke (87 x 84 mm) plus 32 bhp make this a motorcycle to lead the way. Exceptionally smooth 5-speed transmission includes all of Yamaha's years of "know how" in the motocross field ... with widely spaced ratios for adaptation to any riding condition. The frame construction is the unique single-

down-tube, semi-double-cradle type, with the front down-tube utilized as the oil reservoir for the wet-sump lubrication system. Front forks feature extra long travel with frictionless bushings in the sliders ... giving the machine the maximum amount of punishment absorbing durability through even the roughest terrain. Features such as these make the Yamaha XT500 the champion in every respect. And what else could you expect from Yamaha.



**DT175**

**DT100**



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# TY

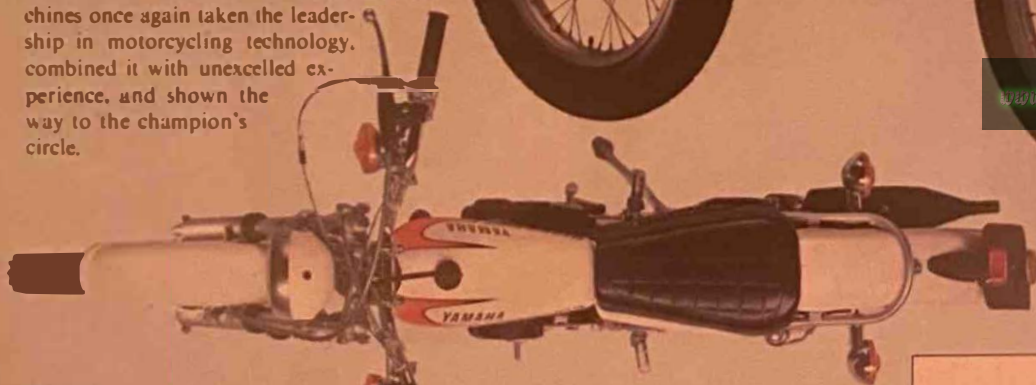
# TY125

## Yamaha TY Series... With the Balance and Performance to Win Every Trials Event

Yamaha's great new Trials models, the TY125 and TY250, are the result of Yamaha's engineering skills as well as all of the experience and knowledge of one of the world's top Trials riders, Mick Andrews. Every engineering feature and styling point has won his critical approval after severe tests. Lightweight and highly manoeuvrable, and with exceptional balance capabilities, these machines will meet and exceed the requirements of even the most demanding Trials rider. Yamaha has with these machines once again taken the leadership in motorcycling technology, combined it with unexcelled experience, and shown the way to the champion's circle.



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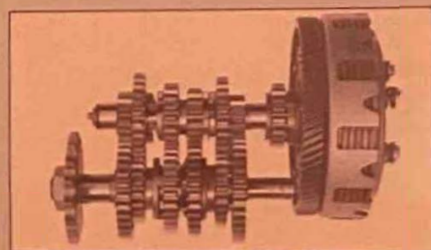


### Engine

The Yamaha Trials series models are powered by engines especially developed for this grueling test of man and his machine. Single-cylinder, 2-stroke design—a technology where Yamaha excels—with scientifically determined piston design painstakingly matched to induction and exhaust ports. Low-speed power and instant response are superb... to meet the demands of even the toughest sections. And, of course, Yamaha's exclusive Autolube lubrication system assures a precisely measured quantity of clean oil from a separate tank... thus assuring the maximum efficiency of the charge of fuel drawn in for every firing stroke. Add to this the proven worth of Yamaha's Reed-Valve Torque Induction system, and you have the best possible Trials engine, with the finest possible performance.

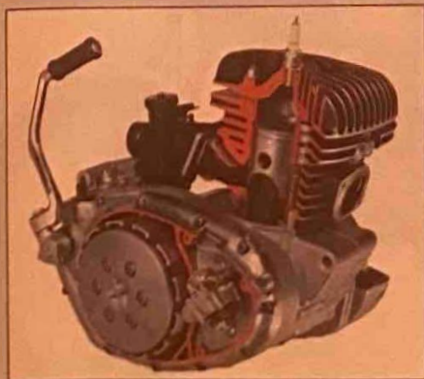
### Speedometer

Street-legal speedometer has been especially mounted in a well-protected position behind the left fork strut.



### Transmission

The widely spaced gear ratios (5 for the TY250 and 6 for the TY125) have been carefully engineered to assure perfect performance at any speed—not only in competition in the sections themselves, but also for road and trails between sections. A feature worthy of special attention, moreover, is the gear-change pedal which folds back when hit by rock or tree stump, assuring the rider that the machine will never be knocked out of gear.



# TY250

# SPECIFICATIONS

	DT100	DT125E	DT125	DT175	DT250MX	DT400MX	TY125	TY250	XT500
<b>ENGINE</b>									
Type	2-stroke, Torque Induction, Single	2-stroke, Torque Induction, Single	2-stroke, Torque Induction, Single	2-stroke, Torque Induction, Single	2-stroke, Torque Induction, Single	2-stroke, Torque Induction, Single	2-stroke, Torque Induction, Single	2-stroke, Torque Induction, Single	4-stroke, Single, OHC
Displacement	96 cc	123 cc	123 cc	171 cc	246 cc	397 cc	123 cc	246 cc	499 cc
Bore & Stroke	52x45.6 mm	56x50 mm	56x50 mm	66x50 mm	70x64 mm	85x70 mm	56x50 mm	70x64 mm	87x84 mm
Compression ratio	7.2:1	7.1:1	6.7:1	6.2:1	6.7:1	6.4:1	7.1:1	6.4:1	9.0:1
Max. horsepower	10 bhp @ 7,500 rpm	13 bhp @ 7,000 rpm	13.5 bhp @ 7,000 rpm	16 bhp @ 6,500 rpm	23 bhp @ 6,000 rpm	29 bhp @ 5,500 rpm	13 bhp @ 6,000 rpm	16.5 bhp @ 6,000 rpm	32 bhp @ 6,500 rpm
Max. torque	0.97 kg-m @ 7,000 rpm	1.42 kg-m @ 6,500 rpm	1.38 kg-m @ 6,500 rpm	1.82 kg-m @ 6,000 rpm	2.8 kg-m @ 5,500 rpm	3.8 kg-m @ 5,000 rpm	1.56 kg-m @ 5,500 rpm	2.1 kg-m @ 5,500 rpm	4.0 kg-m @ 5,500 rpm
Lubrication system	Autolube	Autolube	Autolube	Autolube	Autolube	Autolube	Autolube	Autolube	Dry sump
Starting system	Primary kick starter	Electric & Primary kick starter	Primary kick starter	Primary kick starter	Primary kick starter	Primary kick starter	Primary kick starter	Primary kick starter	Primary kick starter
Primary transmission	Gear	Gear	Gear	Gear	Gear	Gear	Gear	Gear	Gear
Final transmission	Chain	Chain	Chain	Chain	Chain	Chain	Chain	Chain	Chain
Gearbox	5-speed	5-speed	5-speed	5-speed	5-speed	5-speed	6-speed	5-speed	5-speed
Carburettor	VM22SS	VM24SS	VM24SS	VM24SS	VM28SS	VM34SS	VM22SS	VM26SS	VM32SS
Clutch	Multi-plate, wet	Multi-plate, wet	Multi-plate, wet	Multi-plate, wet	Multi-plate, wet	Multi-plate, wet	Multi-plate, wet	Multi-plate, wet	Multi-plate, wet
Battery	6 V, 4 AH	12 V, 7 AH	6 V, 4 AH	6 V, 4 AH	6 V, 6 AH	6 V, 6 AH	6 V, 4 AH	6 V, 4 AH	6 V, 6 AH
Ignition type	Magneto, CB/Coil	Battery, CB/Coil	Magneto, CB/Coil	Magneto, CB/Coil	Magneto, CB/Coil	Magneto, C D I.	Magneto, CB/Coil	Magneto, CB/Coil	Magneto, CB/Coil
<b>DIMENSIONS</b>									
Overall length	1,960 mm	2,060 mm	2,020 mm	2,030 mm	2,160 mm	2,130 mm	1,980 mm	2,015 mm	2,185 mm
Overall width	860 mm	860 mm	860 mm	860 mm	870 mm	870 mm	820 mm	840 mm	875 mm
Overall height	1,070 mm	1,090 mm	1,090 mm	1,090 mm	1,165 mm	1,165 mm	1,120 mm	1,125 mm	1,165 mm
Seat height	795 mm	820 mm	810 mm	810 mm	855 mm	855 mm	755 mm	760 mm	840 mm
Wheelbase	1,305 mm	1,325 mm	1,340 mm	1,340 mm	1,420 mm	1,420 mm	1,265 mm	1,295 mm	1,415 mm
Weight (net)	94 kg	104.5 kg	100 kg	102 kg	118.5 kg	122.5 kg	88 kg	97 kg	140 kg
Fuel tank capacity	7.0 lit.	7.0 lit.	7.0 lit.	7.0 lit.	9.0 lit.	9.0 lit.	4.0 lit.	5.0 lit.	8.8 lit.
Oil tank capacity	1.2 lit.	1.2 lit.	1.2 lit.	1.2 lit.	1.1 lit.	1.1 lit.	0.3 lit.	0.35 lit.	2.2 lit.
Tires front	2.75-19-4PR	2.75-21-4PR	2.75-21-4PR	2.75-21-4PR	3.00-21-4PR	3.00-21-4PR	2.75-21-4PR	2.75-21-4PR	3.25-21-4PR
rear	3.00-18-4PR	3.25-18-4PR	3.25-18-4PR	3.50-18-4PR	4.00-18-4PR	4.00-18-4PR	4.00-18-4PR	4.00-18-4PR	4.00-18-4PR
Brakes front	Drum	Drum	Drum	Drum	Drum	Drum	Drum	Drum	Drum
Brakes rear	Drum	Drum	Drum	Drum	Drum	Drum	Drum	Drum	Drum

## COLOUR GRAPHIC

\* Specifications subject to change without notice.

Competition light green									
Space blue									
Modena red									
Cristal silver									
Competition yellow									
Balboa blue									
Brick red									
Clean white									
Clean white/ Bountiful blue									
Clean white/ Chappy red									

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# YAMAHA, It's a way of life.



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