

## AVERY SPECIAL BIKE FOR AVERY SPECIAL SPORT

Trials is often called ballet on wheels. It is one of motorcycling's most specialized sports. As such, it requires some of the most sophisticated, single-purpose machinery on two wheels.

Yamaha's remarkable TY250S offers the most advanced technology available in world-class trials bikes. Technology gathered on roads and racetracks around the world.

Its 246 cc reed-valve two-stroke produces its maximum torque at only 2,500 rpm. Response to throttle applications is instant and controllable, with minimum wheelspin. The four low gears of the 6-speed gearbox are close-spaced, with a gear

for every obstacle. The top two are wider spaced for higher speeds.

The TY250S's most unique feature is its Monocross rear suspension. It gives the ultimate in rear wheel control with rising rate damping and long travel, and eliminates the problem of bent rear shocks. All in a compact, lightweight street-legal package.

There's also an internal brake actuating lever that can't get bent; flush, hollow front axle; Autolube remote engine lubrication....the list goes on and on.

For a closer look at this very special machine, see your local

Yamaha dealer—and don't forget your dancing shoes.



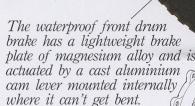
Front fork has stiff, 36 mm tubes and aluminium fork brace for flex-free steering. Front wheel has 180 mm of travel and the hollow axle is flush with the fork sliders.

Short-throw clutch cam gives lighter pull and sn operation for delicate cli control in any situation.

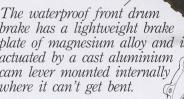
Compact 30/30W headlam is mounted in a lightweigh damageresistant shell. Give bright illumination for safe riding at night on forest trails.

Front and rear fenders are made of lightweight. flexible polypropylene for amazing durability.

Yamaha's unique Z-spokes are much stronger than conventional spokes. They reduce rim bending, prevent hub deformation and require less maintenance.



To let yo brake lin front bra lining we





Single-downtube frame features Handlebars have a cross-bar for noother Yamaha's Autolube oil added strength. Lock-to-lock "diamond" tube pattern for injection system eliminates steering is 65°-65° for cutting the superior rigidity in a light, gas/oil mixing with remote oil tightest turns, and lever compact package. Tubes are tank and oil pump. made of high tensile positions are freely The large air filter is located in a sealed adjustable. strength steel. compartment, high up beneath the seat. The seat is quickly detachable for easy Slim fuel tank permits filter cleaning. unhindered front and rear movement and holds a full 5 litres. Nickel-plated silencer is press-formed for volumetric efficiency. Expansion-chamber design keeps incoming fuel/air mixture in combustion chamber for superior low-end torque. Newly developed trials tyres were specially designed for the TY250S. Rear brake Proven in the pedal location Engine cases are World Trials is adjustable for protected from damage by Championship, trial and road lightweight aluminium they offer superior riding. skid plate. traction and longer wear. 6-speed gearbox has four know when the close-spaced gears for low-Chain tensioner keeps the Snail-cam chain adjusters ngs are worn, the speed trials riding and two allow quick and accurate rear 520 chain at proper e has a brake wider-spaced gears for higher tension and prevents chain wheel adjustments and facilitate rear wheel removal. ar indicator. speeds. from jumping sprockets.

## 246 cc TWO-STROKE REED VALVE SINGLE

With a "square" bore and stroke of 68 mm, reed-valve induction and full-circle flywheel, the TY250S's torque peak is at an amazingly low 2,500 rpm. Maximum output comes at 4,500 rpm. This results in the smooth, low-rpm power so essential for trials riding. The CD ignition never needs adjustment.

## MONOCROSS REAR SUSPENSION

Yamaha's unique Monocross suspension system boasts rising rate linkage and a De Carbon-type gas/oil shock that is fully adjustable. Coupled with a tapered, box-section swing arm, rear wheel travel is a full 160 mm.



Rear view mirror(s) standard equipment.



## **TY250S SPECIFICATION** ENGINE

ENGINE
Type 2-stroke, single
Displacement246 cc
Bore and stroke $68.0 \times 68.0$ mm
Compression ratio
Lubrication Autolube
CarburetionY26P
Ignition
Starter system Kick
Fuel tank capacity
Oil tank capacity 0.4 ℓ
Transmission6-speed
Final transmission Chain drive
CHASSIS
Overall length2,070 mm
Overall width805 mm
Overall height1,100 mm
Seat height785 mm
Wheelbase
Ground clearance330 mm
Dry weight
Suspension
FrontTelescopic forks
Rear Monocross suspension
Brakes
FrontDrum
Rear Drum
Tyres
Front2.75-21-4PR
Rear4.00-18-4PR

Specifications and appearance of Yamaha motorcycles shown in this catalog may differ according to local requirements and conditions and are subject to change without notice. For further details, please consult your Yamaha dealer.

Always wear a helmet and eye protection.

