

consiegends gamaha cudores.

WE DON'T QUIT WHILE YOU'RE AHEAD.

The motocross machine that goes fast enough and handles well enough hasn't been built yet.

It probably never will be. But, every year, one comes close.

Almost always its initials are YZ. And it's built by

Yamaha.
The reason Yamahas come out ahead might be because

they start out ahead.
This year's YZs are no

exception.

They've got features that are years alread of anything

you're likely to see from the competition.

Innovations that make for laster engines, better suspen-

faster engines, better suspension and improved handling. Innovations that add up to the absolute finest racing machines ever to come from Yamaha.

Or anyone else.

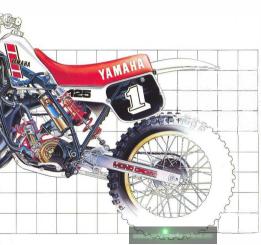
## THE YZ DIGT: TAKE IT TO THE LIMIT.

Last year, our engineers were given a real challenge make the YZs even lighter without sacrificing strength or reliability.

Never wanting to avoid a challenge, our engineers went to work. They shaved off ounces here and pounds there. They made the hubs smaller and tougher for less unsprung weight. They designed a new swingarm out of super-strong, super-light bex-section aluminum. They made the radiators lighter and re-positioned them below the was tank, improving the center of gravity. Not even the spoke nipples were overlooked. The new ones were burnwed from our OW works bikes and are machined from aluminum.

All of which adds up to a lot less.





In fact, if thenew YZs were any lighter, they'd be illegal. Amazingly, they tip the scales at exactly the FIM weight limits for their classes.

NEW IMPROVED
MONOSHOCK: NEW AND
IMPROVED AGAIN.

For the last six years, while the competition was out inventing their versions of single shock suspension, we were out improving the original Monocross. We added travel every year. We increased the shock damping. We gave the system more adjustability.

And last year, we improved it so much you couldn't even recomizeit.

Good old Monocross became good new Monocross, and in the process, it also became a true nsing-rate

suspension system. What rising rate means to

suspension is simple.

At rest, the suspension is

extremely soft. Asthe rear wheel begins to move upward, the suspension begins to stiffen. The farther therear wheel travels the stiffer both spring rate and the shock damping become.

What rising rate means to you is smooth, supple action over small stutter bumps and whoon-de-doos, Stiffer, more solid response for deep ruts and big jumps.

So what could be better? Leave it to our engineers to find a couple of things. Improvements like making the monoshock itself smaller. lighter and more compact and then re-designing the pivot and strut system to allow the shock to sit lower in the frame further lowering the center of gravity. The new pivot also modifies the rate of damping

increase to fit more riders and more tracks with less adjustment.

As a result, the rear wheel staysin contact with Mother Earth longer than ever, so you can go faster than ever. Over more kinds of terrain than ever.

SPRING RATE (YZ490) 3.0 NEW LINK 2.0



## THE ONLY MOTOCROSS BIKES THAT COME

The two-stroke engine is almost perfect for motocross. It's lightweight, compact.

powerful and easy to cool. Now about the "almost."

With the typical two-stroke engine you have to set the exhaust port timing for one of two things: low-end torque or high-end speed. Or, find a happy medium and lose a little on both ends

As you might expect, we've got a different approach, Our YPVS on the YZ125

and Y7250 YPVS translates into Yamalıa Power Valve System.

And that translates intogetaing two engines in one. One set for torque, the other for speed.

The heart of YPVS is a cylindrical valve that's cut into the exhaust port. The valve is cut to match the shape of the port and rotates to reduce or increase the exhaust port height, which, in turn. changes the exhaust port timing

And you don't have to lift a finger Justiwist the throttle and

YPVS automatically gives you plenty of torque at low rpm and plenty of speed at high rpm. All the while, improving overall power output, combustion efficiency, and, wonder of wonders, gas mileage.

As if that weren't enough. the '83 YZscome with a list of other new features as long as your arm. From folding shift levers to new hand controls. But instead of telling you about each one, we suggest you take a look at the

photos on the next few pages. All things considered, this year's YZs have everything they need to keep them right where they've

always been. At the top of theirclass.



## YZ125

The Monoshock itself has been re-designed to be lighter and more compact. Of course, it still offers over thirty settings for compression damping, rebound damping and preload making it the most adjustable system available Works-type seat and fuel tank design provide maneuverability and wonfort.

Introduced last year, our rising-rate Monocross suspension has been improved to offer better response over more varied terrain. And to handle more different sizes of riders with less adjustment. Re-positionined radiator helps lower the center of gravity, improving handling.

FIM-type covers keep your number way out in view when you're way — nut in front.

AMAHA . 125.

New, stronger lighter rims and hubs.

New link system allows the Monoshock to sit lower in the frame. Close-ratio, constant mesh six-speed transmission has a positive feel.

The Yamaha Power Valve System automatically adjusts exhaust timing to give you the best of both worlds high-end speed and low-end torque.

## YZ250 Re positimed radiator helts lower the center of granity untiming The Monoshock itself has been handling re-designed to be lighter and more compact. Of sourse it still offers Works-type fuel tank and seat over thirty settings for amphracion brovide maneuverability and Now that the YZ250 comes with water-cooling, peak horsepower dambing, rebound dambing and preload making it the most adjustable system available YAMAHA Introduced last year, our rising-rate Monocross suspension has been over more paried terrain. And to Front brake is a twin-leading shoe unit for more stobbing bower.

Magnesum brake plate and cost aluminum brake cam lever raduse

Ratios in the positive-shifting, five-speed transmission have been improved for more versatility.

The Yamaha Power Valve System automatically adjusts exhaust timing to give you the best of both worlds high-end speed and low-end torque.

The 246cc two-stroke powerplan has a new, longer stroke for

> Tires feature a new tread design for better traction and are minorited on new stronger, lighter rims.

Y7.490 The Monwhock strett has been re-designed to be lighter and more Capacitor Discharge Ignition (CDI) compact of course it still offers Remote reservoir provides extra oil troduces a hot, efficient spark over thirty settings for combression for the monoshock, keeping it cool dambing, rebound damping and pre-load making it the most The sincle-down tube high lensile strength steel cradle frame is light. Introduced last weer our respectante strong and provides a low center of Managers suspension has been Works-type seat for more comfort purposed to after heller extense and maneuaerability. over more parisel terrain And to The leading-axle front forks have handle more different sizes of a large tube diameter for better riders with less advestment. handling AMAHA FIM-type side covers keep your lea 490 Durable extra-wide taletratulene from covering your number. fenders are designed to prevent

The full-floating rear brake allows the shoe to rotate and pivot with the frame, independent of the swing arm. Breaking is smoother and more bredictable. Wide-ratio four-speed transmission lets you spend less time shifting and more time on the gas.

Super-strong, super-light box-section swing arm keeps the rear wheel tracking straight and true 487cc two-stroke engine combines with Yamaha Energy Induction System (YEIS) to provide stumppulling torque and plenty of top

> A powerful, double-leading-shoe front brake provides maximum control and stopping ability.



YAMAHA MOTOCROSS IELMET; Designed by Simpson, Swell approved. tion and super fit. Unique, protective styling for visibility and venting. Available in sleeves, neck and cuffs

NEW TRIC GLOVES Hard wearing subble leather Tough nylon stitcking, foam padded blue leather paims, red stretch nylon back with protective TRIC pads. Ventilated fingers are curved for easier grip. Knitted wrist.

TRIC "MESH" JERSEY; Jöngh, eyelet nylon mesh, for super body ventilation. Co-ordinated, matching tank graphic for bold Team Yamaka

NEW TRIC PANTS.
Bold red and white front, blue
back for new Team Yamaha
koch. Hony duty nylon
construction. High back waist
band serves as a hidney bell.
Leather reinforced knees.
Expandable Spandex weeh
lining for better vestilation in crotch and leg area.

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ENGINE	YZ125	YZ250	YZ4
Type 2-	Stroke, Liquid Cooled	YZ250 2-Stroke, Liquid Cooled	2-Stroke, Reed-Va
	Y.P.V.S., Single	Y.P.V.S., Single	Y.P.V.S., Sin
Displacement	123 cc	Y.P.V.S., Single 246 cc	487
Bore and Stroke	56.0×50.0 mm		87.0×82.0n
Compression Ratio	7.8~9.9:1	7.4-9.2:1	7.4
Maximum Torque	15.1 ftlbs	28.4 ftlbs	42.7 ftI
(2.1 kg-m) @10,500 rpm Carburetion		(3.9 kg·m) @7,500 rpm	(5.9 kg·m) @6,500 m
Carburetion	Mikuni VM34	Mikuni VM38	Mikuni VM
Ignition	Capacitor Discharge		
Starting	Primary Kick	Primary Kick	Primary K
Lubrication	Pre-Mix	Pre-Mix	Pre-M
Transmission	6-Speed	5-Speed	4-Spe
CHASSIS			
Overall Length	84.1°(2,135 mm)		86.672,200 m
Overall Width			33.5 7850 m
Overall Height	48.8°(1.240 mm)		48.0 °(1.220 m
Wheelbase	57.1*(1,450 mm)		59.17(1,500 m
Ground Clearance			13.0 °(330 m
Seat Height	37.0 (940 mm)		37.6 (955 m
Dry Weight	190 lbs. (86.5 kg)	212 lbs. (96.5 kg)	2231bs.(101.51
Fuel Tank Capacity	1.5 Imp. gal. (7.0 t)		
Suspension			
Front	. Telescopic Fork with	Telescopic Fork with	Telescopic Fork w
	Propotional Valve	Propotional Valve	Propotional Val
Rear Swing	Arm with Monoshock	Propotional Valve Swing Arm with Monoshock	Swing Arm with Monosho
Front	Drum	Drum with	Drum w
		Double Leeding Shoe	Double Leeding Sh
Rear	Drum	Double Leeding Shoe Drum	Dn
Tires			
Front	90/80-21	90/80-21	100/80-
Rear	130/80—18	140/80-18	150/80-
Coloring	White	White	Wh

Always wear a helmet and eye protection. Specifications are subject to change without notice. Rear view mirrorts) standard equipment.

**YAMAHA** THE WAY IT SHOULD BE