

**MAMAY** 

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# EVOLUTION, NOT REVOLUTION!

### 1983 EUROPEAN MODEL RANGE

The range was exhibited during IFMA (Cologne Motor Show, Sept. 16 to Sept. 20, 1982)

Yamaha sees 1983 as a year of evolution rather than revolution — a year in which the further development of already successful model concepts is much more important than the introduction of more purchase options than are really necessary.

New machines for 1983 are undoubtedly destined to lead the respective segments of the market at which they are aimed. These models, however, have evolved as logical development achievements of accepted and totally-proven designs. They will consolidate and improve still further the solid engineering values synonymous with the brandname of Yamaha. Motorcycling is diverging into two distinct categories, pursuing parallel courses but still linked by some common bonds. There are enthusiastic motorcyclists who are drawn to the freedom and excitement of two-wheeled sports. There are the others who turn to 2-wheelers purely and simply because of their utilitarian aspect. Somewhere along the way, however, the enthusiast will appreciate the economic benefits of his favorite sports bike, while the commuter will come to realize that motorcycling is more than just a way of getting to work. There is an element of pure enjoyment that provides a way of easing the pressures of everyday living.

With the above fact in mind, Yamaha has brought in more new technology than any other manufacturer, to offer the motorcycles of unmatched efficiency and total performance values. (see pages 3 to 6 for more details)



#### YAMAHA, THE WINNER!

'82 250cc MOTOCROSS WORLD CHAMPIONSHIP

Danny La Porte and the YZM250 won the riders and manufacturers titles. La Porte became the first American rider to clinch the 250cc Motocross World Championship.

(see page 2 for more details)

Danny La Porte and his YZM250



# La Porte and the YZM clinch the riders and manufacturers titles



#### 250cc MOTOCROSS WORLD CHAMPIONSHIP

Danny La Porte (Yamaha) who snatched a 6-point lead over his strongest opponent Georges Jobe (Suzuki) in the Dutch GP (July 4, round 8), placed 1st and 2nd in the two races of the Soviet GP (July 18, round 9), thus sharing the top position with Jobe who finished 2nd and 1st respectively in the same races. In the US GP (August 1, round 10) La Porte widened the lead by finishing 4th and 2nd, while the Suzuki ace placed not higher than 5th in both races. A fierce 250cc manufacturers title battle between Yamaha and Suzuki was concluded when La Porte finished 1st and 3rd in the two races of the Finnish GP



(August 22, round 11) against Jobe's two second spots. La Porte's results increased Yamaha's total championship points to unsurpassable 277 with one more round yet to contest, while Suzuki totaled 235. La Porte put a dramatic end to the seasonlong riders title battle in the Swedish GP, the final round of the series (August 29). He placed 4th and 2nd, and Jobe 2nd and 3rd. La Porte's total points were 238, 13 points ahead of Jobe. He became the first American rider to win the 250cc Motocross World Championship.



#### ROAD RACING RESULTS

500cc class

Round 8 - Yugoslavian G	P - July 18
1. F. Uncini	Suzuki
2. G. Crosby	Yamaha
3. B. Sheene	Yamaha
4. F. Spencer	Honda
5. T. Katayama	Honda
Round 9 - British GP -	August 1
1. F. Uncini	Suzuki
2. F. Spencer	Honda
3. G. Crosby	Yamaha
4. L. Reggiani	Suzuki
5. R. Mamola	Suzuki
Round 10 - Swedish GP	- August 8
1. T. Katayama	Honda
2. R. Mamola	Suzuki
3. G. Crosby	Yamaha
4. M. Fontan	Yamaha
5. M. Lucchinelli	Honda

#### 500cc Road Race World championship positions as of August 8

1. F. Uncini	Suzuki	103 pts.
2. K. Roberts	Yamaha	68 pts.
3. B. Sheene	Yamaha	68 pts.
4. G. Crosby	Yamaha	66 pts.
5. F. Spencer	Honda	57 pts.

#### MOTOCROSS RESULTS

125cc class

The state of the s	Gilera Suzuki Gilera Cagiva Suzuki Suzuki Gilera Suzuki Suzuki Suzuki Yamaha
<ol> <li>E. Geboers</li> <li>C. Maddii</li> <li>Y. Khudiakov</li> <li>A. Watanabe</li> <li>I. E. Geboers</li> <li>C. Maddii</li> <li>H. Everts</li> <li>A. Watanabe</li> <li>J. Vimond</li> <li>Round 10 — Finnish GP —</li> </ol>	Suzuki Gilera Cagiva Suzuki Suzuki Gilera Suzuki Suzuki Yamaha
3. C. Maddii 4. Y. Khudiakov 5. A. Watanabe 2nd race 1. E. Geboers 2. C. Maddii 3. H. Everts 4. A. Watanabe 5. J. Vimond Round 10 — Finnish GP —	Gilera Cagiva Suzuki Suzuki Gilera Suzuki Suzuki Yamaha
3. C. Maddii 4. Y. Khudiakov 5. A. Watanabe 2nd race 1. E. Geboers 2. C. Maddii 3. H. Everts 4. A. Watanabe 5. J. Vimond Round 10 — Finnish GP —	Cagiva Suzuki Suzuki Gilera Suzuki Suzuki Yamaha
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<ol> <li>A. Watanabe</li> <li>J. Vimond</li> <li>Round 10 — Finnish GP —</li> </ol>	Yamaha
5. J. Vimond Round 10 — Finnish GP —	
Round 10 - Finnish GP -	July 25
1st race	
1. M. Rinaldi	Gilera
2. C. Maddii	Gilera
	Yamaha
	Yamaha
5. E. Geboers	Suzuki
2nd race	
	Suzuki
	Gilera
	Gilera
	Cagiva
	Suzuki
Round 11 - Swedish GP -	August '
	- United Appears
	Gilera
	Suzuki
	Gilera
	1. M. Rinaldi 2. C. Maddii 3. M. Verkeneers 4. J. Vimond

NEWS FLASH Both road racing and motocross sidecar champion-ships are won by Yamaha

Werner Schwarzel and Andreas Huber on the Yamaha sidecar outfit clinched the world road racing sidecar crown when they finished second to Alain Michael and Michael Burkhard on another Yamaha sidecar outfit in the San Marino GP at Mugello, Italy on

Sept. 5.

The world sidecar cross championship was also won by Emil Bollhalder and Karl Buesser on the Yamaha sidecar outfit with their success in the Danish round on Aug. 29.

2nd race	Navvasaki	
1. E. Geboers	Suzuki	
2. M. Rinaldi	Gilera	
3. C. Maddii	Gilera	
4. M. Velkeneers	Yamaha	
5. G. Van Doorn	Suzuki	
Round 12 - Spanish GP	(Final) -	
August 15		
1st race		
1, H. Everts	Suzuki	
2. E. Geboers	Suzuki	
3. C. Maddii	Gilera	
4. J. Vimond	Yamaha	
5. M. Rinaldi	Gilera	
2nd race		
1. E. Geboers	Suzuki	
2. H. Everts	Suzuki	
3. Y. Khudiakov	Cagiva	
4. J. Vimond	Yamaha	
5. A. Lejeune	Honda	

4. H. Everts

Suzuki

#### 125cc class Motocross — World Championship Final Positions

Final Positions						
1.	E. Geboers	Suzuki	266	pts.		
2.	C. Maddii	Gilera	211	pts.		
3.	M. Rinaldi	Gilera	208	pts.		
4.	H. Everts	Suzuki	160	pts.		
	M. Velkeneers	Yamaha	156	pts.		

250cc class

3. K. Van Der Ven

Round 9 - Soviet GP - July 18 1st race 1. D. La Porte Yamaha G. Jobe Suzuki 3. H. Kinigardner Yamaha D. Watson Yamaha 5. K. Van Der Ven KTM 2nd race Suzuki 1. G. Jobe D. La Porte Yamaha 3. D. Watson Yamaha 4. R. Dieffenbach Honda J-C Laquaye Honda Round 10 - US GP - August 1 1st race 1. D. Bailey Honda 2. R. Johnson Yamaha

KTM

4. D. La Porte	Yamaha
5. G. Jobe	Suzuki
2nd race	
1. K. Van Der Ven	KTM
2. D. La Porte	Yamaha
3. R. Johnson	Yamaha
4. D. Hansen	Honda
5. G. Jobe	Suzuki
Round 11 - Finnish G	P - August 22
1st race	
1. D. La Porte	Yamaha
2. G. Jobe	Suzuki
3. K. Van Der Ven	KTM
4. H. Van Mierlo	Suzuki
5. T. Hansen	Yamaha
2nd race	
1. K. Van Der Ven	KTM
2. G. Jobe	Suzuki
3. D. La Porte	Yamaha
4. J-C Laquaye	Honda
5. H. Van Mierlo	Suzuki
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#### 250cc Motocross world championship positions as of August 22

1.	D.	La Porte	Yamaha	218	pts.
2.	G.	Jobe	Suzuki	203	pts.
3.	K.	Van Der Ven	KTM	195	pts.
		Watson	Yamaha	115	pts.
5.	R.	Dieffenbach	Honda	90	pts.

500cc class

Round 11 - Belgian GP - August 1 1st race 1. A. Vromans Suzuki 2. B. Lackey Honda 3. G. Novce Yamaha 4. N. Hudson Kawasak 5. D. Thorpe 2nd race Honda 1. G. Novce Suzuki 2. A. Vromans Kawasaki 3. D. Thrope Suzuki 4. B. Lackey Yamaha J. Sintonen Round 12 - Luxemburg GP (Final)

August 8
1st race
1. H. Carlqvist Yamaha
2. B. Lackey Suzuki
3. A. Vromans Suzuki
4. N. Hudson Yamaha

#### A 160mph crash at Silverstone



#### Barry Sheene

Yamaha's 500cc title contender Barry Sheene was involved in a horrible crash during an unofficial practice session of the British GP at Silverstone on July 28.

First, French rider P. Igoa crashed on the long straight and his machine broke up as it went down, and the engine and parts of the frame were catapulted down the track. Sheene on a V-4 Yamaha arriving seconds later and ploughed at about 160mph into the debris which was hidden by a slight rise. Sheen and his machine skidded more than 200 yards down the track. Sheene lay unconscious. J. Middelburg (Suzuki) was also involved in the accident. His Suzuki ran into Sheene's machine and both then caught fire.

Kenny Roberts was among several riders to rush to Sheene and Middelburg's aid and it was Roberts who took off Sheene's helmet.

#### "I'll be back" says Sheene

The seven hour opereation on July 29 was successful but left sheene with 23 steel pins and 4 metal plates in his broken legs and he needed a 6 pint blood transfusion! According to doctors, it will be at least two months before he can walk again, and his hand injuries are still causing some concern.

But he is progressing very favorably after this successful operation. "I am looking forward to being back next season and giving them something to cheer about", says the 32-year old former world champion who is staggered by the tremendous amount of well wishes from motorcycle sports enthusiasts.

5. F. Picco Yamaha
2nd race
1. H. Carlqvist Yamaha
2. F. Picco Yamaha
3. B. Lackey Suzuki
4. L. Spence Yamaha
5. G. Semics Honda

#### 500cc class Motocross — World Championship Final Positions

 1. B. Lackey
 Suzuki
 228 pts.

 2. A. Vromans
 Suzuki
 217 pts.

 3. N. Hudson
 Yamaha
 159 pts.

 4. G. Noyce
 Honda
 148 pts.

 5. A. Malherbe
 Honda
 121 pts.

#### **'83 NEW EUROPEAN MODELS' TECHNICAL FEATURES**

#### **XJ900**

#### **Brand-new four-cylinder super sports**

The XJ series from Yamaha completely changed the normal concept of multicylinder sports machines when they first appeared four years ago. For 1983, Yamaha has brought the XJ concept right into the big league, with the new XJ900 ready to go head to head with the competition in the large-capacity super sports/touring category.

Yamaha is con-Compact and powerful DOHC four fident that the new XJ900 will have a terrific impact on this segment of the market. Yamaha's confidence is backed by the best power to weight ratio in its class and a specification that adds superb sports styling and new suspension components to the wellproven attributes of the XJ power unit.

Actual power output is 97ps (DIN), a strong 113.7ps/litre! A lightweight shaft drive takes this power to the rear wheel in perfect reliability and with minimal torque effect. The clutch is strenghthened to meet the demands of transmitting the power and rubber damper inserts are in-

corporated in the rear wheel to further smooth out the delivery. The chassis itself is a double cradle design constructed in newly developed lightweight, hightensile steel tubing.

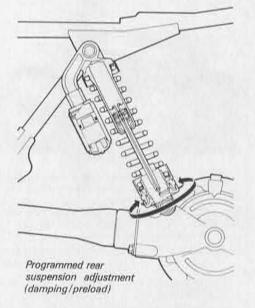
The rear shock absorbers have a new and uni-

ers have a new and unique adjustment capability with both damping and spring tension being set together on the bottom of the unit. The gas/oil shocks also feature

Triple-meter console with digital clock.

place the Yassuperbike rassigning based styling based.

a remote reservoir which has the double advantage of allowing extra gas/oil capacity and better cooling. Even over long journeys on the roughest roads,



the XJ900 suspension will not deteriorate. Most significant feature of the front suspension is the anti-dive mechanism on the telescopic front forks which allows the machine to maintain a level attitude even under heavy braking....a positive advantage in terms of handling. A die-cast aluminum fork brace links the legs of the short front

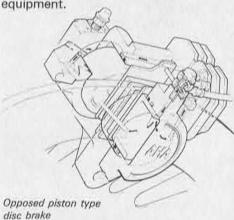
forks just above the fender and adds rigidity in a crucial area to prevent the forks from flexing under the stresses of high speed cornering. The front fork springs are assisted by an air cushion which takes over when the forks near the limits of their compression. The air cushion mechanism has an equalizer pipe to ensure that each fork leg receives exactly the same cushioning

effect. The use of air-assisted springs guarantees that the forks will not "bottom" under severe pressure. This guarantee, combined with the anti-dive mechanism, means that the XJ900 is very controllable even in heavy braking situations. The XJ900 has powerful

triple disc brakes utilizing technology from the world of Formula One Grand Prix car racing.

These discs are of "sandwich" construction with twin outer plates bonded to a central structure which allows cooling air into the unit. Final touch to

place the Yamaha XJ900 firmly in the superbike race is the high speed styling based very obviously on the World GP road race machines. Sleek integrated bodywork links the 22 liter fuel tank with the long seat and takes the eye down through the bike to the high-tech area of the engine. A neat little handlebar fairing shrouds the steering head area and contains a high visibility instrument panel with a central tachometer plus a fuel gauge and digital clock in addition to the usual equipment.



#### RD350LC

#### More racer technology

The Yamaha RD350LC is already established as one of the most sporting, high performance machines on the roads, regardless of capacity. For 1983, this high performance aspect is carried even further. The new Yamaha RD350LC employs more racing technology than any street machine ever produced to date. The new engine uses the Yamaha Power Valve System (Y.P.V.S.) straight from the factory road racers. Basically, advancing the exhaust port timing gives more power to a 2-stroke at high rpm and retarding it will spread the power across the low and mid-ranges to obtain good torque.

Exhaust port timing is controlled by the height of the port and YPVS is the only system that can vary this height to suit the power demands. Normal twostrokes are bound by the actual port height as cast into the cylinder barrel. The Power Valve is a cylindrical block placed horizontally across the exhaust port, with a cutaway to match port dimensions. At high rpm, the cutaway and port blend together to form the largest possible exhaust opening. At lower rpm, the Power Valve revolves so that it blocks off part of the exhaust port, thus delaying the timing of exhaust operation. A microcomputer is

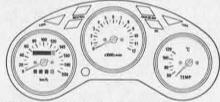
linked to electronic sensors which monitor engine speed. The computer controls a servomotor for operating the valve, rotating it to achieve the best possible exhaust port size and timing for any given rpm. In addition, the valve rotates to clean itself of any carbon deposits as soon as the ignition is switched on, and before the engine is started. The new model also features an electronic governor in the CDI system for improved carburetion and liquid cooling system. The chassis and styling is also completely renewed, and nothing is retained from the 1982 version! The chassis itself is directly copied from the GP works machines with widespaced frame tubes and is rigidly triangulated. Rear suspension is also taken from the GP machines: a rising rate monocross suspension unit mounted behind the engine unit to achieve the lowest possible center of gravity. Short air-assisted front forks have increased stanchion diameters for greater resistance to flex and the new lighter cast alloy Italic wheels are of a new triple-spoke design. The twin disc brake at the front and single rear unit are slotted to allow for the heat

expansion of prolonged hard use and high efficiency.

Liquid-cooled 2-stroke twin with YPVS

Wider rims allow a flatter profile for the H-rated, high speed tyres, and also permit larger tyres than standard to be fitted.

The instrument panel is laid out in highvisibility, aircraft style, with a central tachometer flanked by speedometer and coolant temperature gauge.



Fuel is switched on by a rotary tap. Footrests are mounted on drilled alloy plates swept up at the rear to protect the passenger's foot from inadvertant contact with the rear wheel.

Other improvements include: the narrow sculpted seat, racy steering head fairing and engine cowling.

#### XV1000SE

#### A new Yamaha V-twin leader

The XV1000SE comes up as a new leader for the 1983 Yamaha V-twin range. The vee-twin configuration lends itself perfectly to the US Custom style of machine but European riding techniques demand something different. With the XV1000SE, this gap is completely bridged. The bike has the lean, low and relaxed look of the Custom models but without the exaggerated features which make them somewhat impractical for fast, long distance work.

Borrowing features from the "Midnight Special" range so popular in the USA, the European XV1000SE is finished in gleaming black and gold livery and is as eye-catching as any multi-cylinder super sports bike.

The 980cc vee-twin engine features the SOHC system and synchronized twin carb system compactly located with the 75-degree angle of the cylinder block. Instead of the previous chain drive of Yamaha's biggest vee-twin, however, the XV1000SE has switched to the maintenance-free shaft already proven on

the smaller XV750SE.

The chassis is the same monocoque, pressed-steel beam, utilizing the engine unit to form a rigid central block on to which front and rear suspension is mounted.

The telescopic front forks are of the leading axle type to lengthen the wheelbase for smoother handling at speed and at the rear it's Yamaha's trail blazing adjustable Mono-cross suspension. It is still the most completelyadjustable suspension system on the market, with both damping and airspring pressure adjustable from the outside of the machine. The forks also use an adjustable air-spring with an equalizing tube linking the fork legs so that there is no chance of uneven pressures. The slotted front brake discs allow expansion under the heat of hard use. The rear brake unit is a drum integral with the cast wheel. Tubeless tyres reduce unsprung weight for better handling and are low-profile, H-rated rubber for safe high-speed cruising.

#### XZ550S

#### **Advanced aerodynamics**

For 1983, advanced aerodynamics have added to the already-popular XZ550 to come up with an alternative version that offers a wind-cheating fairing as standard equipment—the Yamaha XZ550S. The FRP fairing's profile, particularly in the critical area around the handlebars, is very similar to that fitted on the XJ650 Turbo. Advantages of the cowling are three-fold: first of all, the improved air penetration enhances both sustained high speeds and fuel efficiency and, in addition, the aerodynamics are designed to produce a downforce effect to aid high-speed handling. The fairing has a

drooping nose (almost Concord-style) with downward-sloping flat surfaces leading into the wind. The engine cowling has a moulded-in spoiler, also downward-facing and the airflow over these angled surfaces produces the downforce which pins the XZ550S more firmly to the road, the faster it is ridden. The heat problem in the engine compartment has been overcome by incorporating special ventilation panels in the fairing sides.

Underneath the aerodynamics, the XZ550S remains the same as its successful predecessor.

## The Yamaha 1983 Eu

Improved front fork damping

system on the '83 YZ series

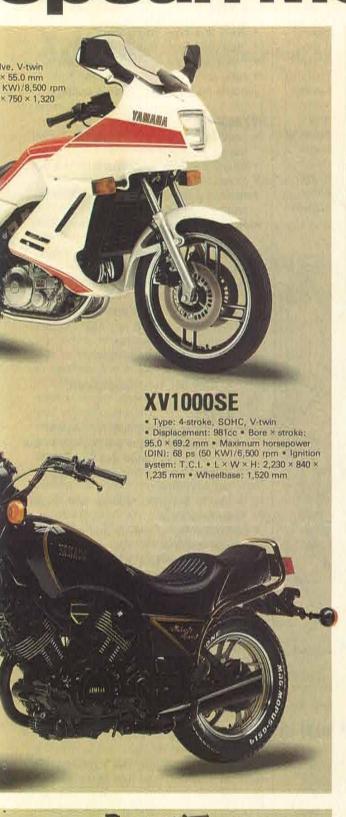
(125/250/490)



Newly designed hollow wheel

rims and aluminum nipples

# opean Model Range







 Improved liquid-cooled 2-stroke "Torque Induction" single engine with Y.P.V.S. . Altered gear ratios to complement engine performance . Newly designed radiator with larger surface area

250

and lower center of gravity · Total weight reduction (FIM limit) . New link-type Mono-cross suspension New styling incorporating red fork boots and red rear suspension spring



Ignition system: C.D.I. • L × W × H: 1,790 × 765 × 1,050 mm

· Improved liquid-cooled 2-stroke "Torque Induction" Compacter cylinder and cylinder head . Spring loaded-type change pedal . New link-type Mono-cross suspension system \* New front forks with increased travel

Relocated radiator







#### **'83 NEW EUROPEAN MODELS' TECHNICAL FEATURES**

#### RD80LC-II

#### **Outstanding 80cc performer**

The RD80LC which is constructed as a genuine, full-sized motorcycle, is sure to become the outstanding performer in the 80cc class for 1983. It utilizes all of Yamaha's racing expertise in both chassis and engine design.

chassis and engine design.
The 2-stroke 79cc liquid-cooled engine features the wide spread of torque giving it a definite advantage over its class rivals. This torque spread is aided by the use of the Yamaha Energy Induction System (YEIS).
The "sealed" liquid-cooling

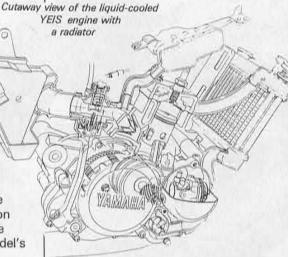
The "sealed" liquid-cooling system ensures that none of the small engine's performance is lost through overheating.

Proven Yamaha features such as the

Proven Yamaha features such as the "Autolube" system, electronic ignition and the reed valve-controlled Torque Induction are all included in this model's specifications.

In addition, the 6-speed transmission enables the rider to keep the engine revving firmly in the power band. Hydraulic front forks are used in conjunction with Yamaha's famous Monocross unit at the rear.

Braking is also well up to genuine motorcycle standards with a large diameter hydraulic disc brake at the front



and a labyrinth seal type drum at the rear.

CA50 (Salient) Unique sporty type scooter

For 1983, a new machine has joined the Yamaha scooter range; the CA50 (Salient). It is a 50cc scooter machine combining the best assets of its predecessors. The increadible economy of the 50cc Passola plus the styling and weather protective qualities of the Beluga model.

Technically, the CA50 is an interesting machine, employing the automatic variable ratio transmission in conjunction with its forced air-cooled, 2-

This uses vee-belts and variable diameter pulleys and, unlike simi-

lar systems, also employs a torque cam on the drive pulley which senses changes in power loads at the rear wheel. The result is much smoother automatic gear changes.

The newly designed single-cylinder 2-stroke engine employs a dual antivibration mounting system consisting of a coil spring and rubber dampers which effectively cuts out vibration before it reaches the rider.

Everything about the engine has been designed with ease of operation in mind. Automatic oiling, for example, to avoid that messy pre-mixing of oil and fuel. Electronic ignition gives precise timing and, coupled with the automatic choke and electric starter, results in the engine firing up at the first touch on the starter button.

As an important safety device, however,

there is a two-stage switch which will allow the engine to start up but which will not allow the machine to go forward until the switch is put into the separate

"drive" position. All of the mechanical components are enclosed in smooth bodywork which is good to look at and easy to clean. Even the handlebars are enclosed by a streamlined cowling that also incorporates the headlight and instrument panel.

All of the controls are concentrated into

concentrated into two-multi-function switches on the handlebars within reach of the rider's thumbs.

Comfort has a high priority in this model's design. Cantilever suspension is softly sprung by a large oil damper and leading link front forks increase the cushion effect to a maximum.

Ten-inch wheels are shod with 3.00-inch tyres, again to achieve maximum cushioning effect along with totally improved stability.

transmission

easy riding

Legshields and footboards are an integral part of this model's bodywork and adequately protect the rider against the worst of the weather. Incorporated in the rear of the legshields is a box for small packages.

The instrument panel of this model includes speedometer, fuel gauge and warning lamps for oil level, high beam and turn signal operations. An audio signal goes on when the flashers are operated so that the rider is reminded to switch them off once the turn is completed.

fortable as possible, while spring effect and damping force are greatly increased to prevent "bottoming". Simplified moving parts are all grouped under the swingarm assembly and lightweight cushion unit is installed as low as possible in the chassis construction. These improvements have helped to lower the center of gravity so that off-road steering characteristics are substantially improved.

The new series consists of the 125, 250 and 490 models, all of which meet the respective minimum weight limits as provided by the F.I.M.

Newly designed radiator helps to increase the performance of the liquid-cooled YPVS engine. (YZ250)

YZ490

 Higher cooling effect due to increased fin area on the cylinder. · YEIS

- · New link-type suspension.
- · Improved front fork adjustment.
- · Front and rear aluminum die-cast hubs.
- New styling incorporating red fork boots and rear suspension spring.

#### YZ250

- New square type engine for increased torque.
- Sharper engine response with the use of new reed valve system.
- Altered gear ratios to complement engine performance.
- New split type radiator with increased surface area.
- Lower center of gravity due to relocation of radiator.
  - Front and rear aluminum die-cast hubs.
    - New styling incorporating red fork boots and red rear suspension spring.
    - · Liquid-cooling system.
    - · YPVS
    - · New link-type suspension.

#### YZ125

- · Lighter and compacter engine.
- Increased torque particularly in the low to mid-range due to YPVS.
- Altered port timing with increased exhaust effect.
- Newly designed radiator with larger surface area.
- Lower center of gravity due to relocation of radiator.
- · New link-type suspension.
- New front fork assembly with base valve and ring type orifice.
- New hollow wheel rims for more strength and weight saving.
- New styling incorporating red fork boots and red rear suspension spring.
- Liquid-cooling system.

#### **YZ80**

#### King of mini-motocross

The 1983 YZ80 is born to be a winner in the highly competitive mini-motocross world, with its impressive engine performance and handling characteristics even better than its successful '82 predecessor.

predecessor.
The already-proven YEIS liquid-cooled engine is even more improved. The 2-stroke single 47 × 45.6mm engine displaces 79cc. Compression ratio is 8.0:

1. Max. torque reaches 1.19 kg/12,000 rpm, the highest in the same displacement class. Power is picking up in a very dynamic manner even in the low speed range. Radiator's surface area is 35% larger than that of the '82 model. This high performance radiator helps greatly to increase the durability of the powerful engine under whatever

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cea very eed

Liquid-cooled engine with a newly designed radiator

hard riding condition. The YZ80 now features a new link-type rear Mono-cross system and a newly designed swingarm

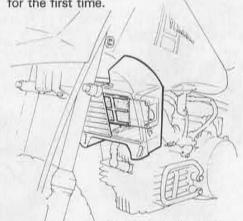
made of elliptical tubing. This combines increased strength and reduced weight. The new Mono-cross system allows a wheel travel of 250mm (plus 20mm over the 1982 model). The shock absorber has been redesigned into a lighter and more efficient unit with the stroke reduced from 112mm to 90mm. Front suspension has also been improved with wheel travel increased by 15mm (now 240mm). Rigidity is increased, too, and inner tube size is changed from 30mm to 33mm.

#### **PW80**

#### A real beginner bike for YZ oriented children

The PW80 is intended to bridge the gap between the PW50 and the YZ50. This model has been designed with 7 to 10 year old YZ oriented children in mind. A well-proven 79cc 2-stroke singlecylinder engine powers this model. Standard safety features include a muffler protector, engine guard, handlebar padding, YZ seat, chain case and chain guard, and a special power reduction washer, placed between exhaust port and exhaust pipe, to limit speed and acceleration capabilities. The front fork assembly, which incorporates oil damping, is of the leading axle type and has 110mm of travel. The famous Yamaha Mono-cross gas/oil damper suspension unit has been adopted in this model. This gives 95mm of travel. With its 3-speed automatic clutch transmission, hand and foot brakes,

Mono-cross suspension, etc., the PW80 will greatly improve the motocross skills of YZ oriented children who began off-road riding with the PW50 or children experiencing the joy of off-road riding for the first time.



Radiator look-alike air cleaner

#### YZ490, YZ250, YZ125

#### **Increased race performance**

The '83 YZ series developed from the successful '82 series comes with a number of technical improvements and refinements for even higher race performance.

Design points have been placed on the improvement of off-road steering characteristics and competition reliability by fully utilizing a great store of racebred technology.

One of the most important alterations made to chassis design is that a radiator is fitted to the frame, while it is positioned in front of the front fork assembly on '82 series.

Relocation of radiator, altered caster and trail, and adoption of new link-type Mono-cross suspension have also improved off-road handling characteristics. The new link-type Mono-cross suspension employs a con. rod by utilizing leverage action, to obtain the same progressive effect as a rising rate type system. Suspension effect is increased specifically in the mid-range stroke, thus making off-road riding as soft and com-

# Mrs., It's the Mr.'s Turn



From Great Britain: There is a trend toward a scooter boom all over the world today. A nice scooter poster was made recently in England. It is small, measuring just 30cm by 42cm, and is rather unassuming being black and white. Nevertheless, it is full of humor and introduces the Beluga and Passola in a relaxed manner. The caption reads Mr. & Mrs. and the poster looks like this;

is definitely a man's machine.

The Beluga has an 80 cc 2 stroke

We've spoiled the ladies long enough.

The Yamaha Passola has been the No. 1 selling ladies' bike for the last year.

(And with the introduction of electric start on the 1982 models, we're still pampering to their every whim.)

Sorry Mrs. (A) YAMAHA

department

Now, it's the fellas' turn. We've launched the Yamaha Beluga. Make no mistake about it, this is definitely a man's machine. The Beluga has an 80cc 2 stroke engine with electric start.

It's fully automatic. Automatic choke. Automatic transmission. And automatic lubrication.

It also has a rear rack and a special parcel compartment.

And thanks to Sir Geoffrey's latest tax increase on petrol (again), it's reassuring to know that the Beluga is extremely economical in that department.

Sorry Mrs.

#### Motor sports get big coverage

-The Daily Mirror-



GP Moto-cross article in The Daily

From Great Britain: The Daily Mirror is a popular daily paper in London which is famous for its long history and it receives tremendous popular support because of its clarity and wide coverage ranging from current events and

political issues to entertainment and sports. As many as 11 million copies are sold every day. Recently The Daily Mirror has begun to feature motorcycle articles in a big way. This could be because motor sports have always been very popular in England and there is a trend towards increasing appreciation for motorcycles.

#### **Beluga Press** Conference



From France: It was reported in the No. 5 issue of Yamaha News how the Beluga Show in Paris was a great success. A rather lavish Beluga Press Conference was also held after the show. In this Press Conference sponsored by Sonauto, about 110 reporters from

specialized and non-specialized publications attended. Many of the press including Lui, Vogue Homme, Marie Claire, Paris Match and television (i.e. TFI, Antenne 2 and FR 3) are well known even in other countries. This is another indication of how much interest has been generated in the Beluga.

The conference began with a speech from Mr. Olivier, followed by the showing of a film on the Beluga, and then a question and answer session. It goes without saying that this press conference started out with caviar and drinks. Some of the press in attendance were as follows;

Moto Journal, France Moto, Moto Plus, L'annee Moto, Auto Moto, Revue Moto Technique, Le Figaro, France Soir, Le Matin De Paris, Nouveau Jounal, Le Parisien, Le Monde, Quotidien De Paris, Liberation, Cosmopolitan, Femme pratique, Femme d'aujourd'hui, Vingt ans, Tennis magazine, Tennis de france, Super tele, Tele journal, Tele star, Tele 7 jours, D.P.P.I., Radio 7, La croix, etc. etc.

#### Yamaha promotion reaches 15 million people

From Holland: According to the Yamaha Motor NV in Amsterdam, a French TV crew went to Italy to cover the road race GP being held there. This crew interviewed M. Fontan, B. Sheene and G. Agostini, the manager of the Ago racing team. The total airing time of this feature was about two hours and it was reported that approximately 15 million people watched this program. This is one example of how Yamaha riders all over the world are enthusiastic about promoting the Yamaha brand every way they can.



G. Agostini answers a question in the TV interview

#### **Parts Sales Cam**paign in Nigeria

From Nigeria: Yamaco, the Motorcycle Division of the local Yamaha importer (a division of John Holt, Ltd.), conducted a 2-month Parts Sales Campaign prior to transferring the said division over to the new company, Yamaha Manufacturing of Nigeria Ltd. (Y.M.N.L.).

This campaign was a great success, thus enhancing further the brandname of Yamaha.



The celebration for the dealer, who won the first prize in the campaign; From left to right - the manager of the Parts Division of Yamaco, Mr. Teichert, the staff of YMC in charge of the Nigerian market, Mr. Kunimi, the winning dealer and the parts manager Mr. Okorodudu

#### Advertising in several languages



Haenen Company's booth at a trade

From Suriname: The popularity of Yamaha motorcycles is rapidly growing in Suriname, located in South America. Therefore, the local Yamaha importer, J.F.D. Haenen Co., Ltd., is putting forth greater efforts in publicizing activities in trade fairs and sports events, and through the local press, television and radio. In Suriname, aside from the official language Dutch, a multitude of languages including Hindi, Indonesian, English, Spanish and local tongues are spoken. The radio commericals for Yamaha are broadcast in Dutch, Hindi and Indonesian, as well as in several local tongues. Efforts are being made to publicize the Yamaha brand name in the area of sports to reach a wider audience by not only backing motorcycle racers, but also by sponsoring a volleyball team which is currently the national champion.

#### One hustling dealer from Germany



Mr. Shimada at Suzuka circuit

From Iwata: One unusual Yamaha dealer took part in the Suzuka Enduro Race this year. His name is Koici Shimada and he is a Japanese who has lived in West Germany since 1950, and he is now one of the top dealers there. Mr. Shimada came to Japan with two primary objectives. The first was to take part in the enduro race and elevate the image of the standard Yamaha models, Mr. Shimada, married to a German, has one daughter and one son, both of whom helped to clock him during the race. Unfortunately, he experienced some trouble with his machine and the results were not all that good.

Nevertheless, the second objective of Mr. Shimada was carried out very successfully. It was to help his group to get a better understanding of Japan, his own birthplace as well as that of Yamaha Motor. He brought along with him 15 people including his friends among dealers and customers, and a member of the police force as well as of an automobile association. He served as the interpreter and their visit to the headquarters of Yamaha Motor was the highlight of this tour.

Mr. Shimada, who as a racer, dealer, tour guide, and as a father, was extremely busy every day in Japan, took the time to have some "sushi" (raw fish delicacy) with his son and daughter. This may well have been the highlight of the trip for his two teenage kids.

#### Yamaha baseball team becomes as popular as soccer team



Yamaha fans wild with excitement cheer their team on

From Iwata: The baseball team run. In the 8th inning, however, of Yamaha Motor Company only two years since its formation, was runs to put the score at 4 to 3. chosen this year as the regional Shortly after getting two outs in champion to represent the the bottom of the ninth, however, Yamanashi and Shizuoka Prefec- Sumitomo hit a fatal 3-run homer ture Region for the 53rd All Japan making the score 4 to 6, so Baseball Championship. In this Yamaha lost out despite its valiant event, the top teams from each efforts.

3 to 5 until the 7th inning. But in ing the championship next year a 3-run homer to turn the tables two leagues. win the game.

The Yamaha team, as one of the pionship.

best 8, took part in the thrird game game with Sumitomo Metals from Wakayama City (about 100km south of Kyoto).

Yamaha batted first and scored a run in the first inning and another in the third inning, but in the bottom of the same inning Sumitomo Metals retaliated with two runs to even up the score. In the bottom of the sixth, Sumitomo Metals took the lead by scoring another Yamaha recouped with two more

area of Japan compete at the Even so, as it is quite an achieve-Kôrakuen Stadium to decide the ment to be able to participate in best company team in Japan. this championship at all, the In the first game of the Yamaha Yamaha team which made it that team, they almost lost to Denden far only on the second year since Kyûshû from Kumamoto City its formation drew a great deal of (southernmost region) losing at attention. Hopes are high for gainthe bottom of the 8th inning, just as for the Yamaha soccer Noguchi, the right fielder, blasted team with an excellent record in

and clinch the victory. In the se- The pitcher Suzuki and the outcond game, they went up against fielder Nakamoto of the Yamaha Fuji Heavy Industries from Ōta Ci- baseball team were selected as ty (80km north of Tokyo), a team members of the Japanese team regarded as a strong candidate for for the 27th International Amateur the championship. But Yamaha's Baseball Championships held in pitcher Suzuki held down Fuji Seoul. Also Noguchi, the out-Heavy Industries to just four single fielder, received the honor of gethits, while the Yamaha team ham-ting the Wakajishi (Gallant) mered out 8 runs in top form to Award. Incidentally, Sumitomo Metals went on to win the cham-

# '82 Pan Am Clipper Cup Yacht Series in Hawaii Class · D Winner SUPE YAMAHA-R41 CUSTOM RACER The ten-member crew of "Super Witch" includes skipper Lowell North

#### One after another boats are forced to retire in 40-knot winds

The "Clipper Cup" becomes a "survival race"

Among the open sea races for big boats, the five most famous are England's "Admirals Cup", Australia's "Southern Cross Cup", Italy's "Sardinia Cup", America's "S.O.R.C." and this "Clipper Cup".

The "Clipper Cup", in this its third running, attracted 75 big boats from the Pacific area countries of Australia, New Zealand, Hong Kong, Japan, Canada and the U.S.A.

World famous Waikiki Beach on Oahu island of Hawaii, the mid-Pacific paradise known for its marvelous year-round summer climate, was the base for this hotly contested series of 5 races which were held over a three week period beginning August 7th.

The "Clipper Cup" series consists of 5 races, including three races over a 27 mile triangle course, one middle distance race of 150 miles (Molokai Race), and a 780 mile long distance race (Round-the-State-of-Hawaii Race). This year's race was quite different from the second running in 1980 because of the strong trade winds that created terrible sea conditions.

The participating boats were divided into 5 classes beginning with the maxi-boats, A, B, C, D, E classes, with a long list of famous off-shore racers such as "Kialoa" and "Condor", making this the highest level race ever.



None of the boats were expecting these strong wind conditions. The strong trade winds created white-caps during this triangle race.

#### **Outstanding sailing** performance against the world's top racers

5th-1st-1st-1st-4th place finishes for a decisive class victory

"Super Witch", a 41 foot sloop designed by the Yamaha Design Team was entered in the D class of this year's race. Famous skipper, Lowell North, was called on to mount the challenge against the 18 top class racers in the highly competetive Class D. North had to use all of his sailing skills in what turned out to be a hot race between such famous boats as "Police Car", "Hitch Hiker", Brooke Ann", "Tomahawk" and "Irrational".

Amidst this tough competition, "Super Witch" only managed to finish fifth in the first triangle race, but then came back to finish the second and third triangles in first place. She later showed her beautiful sailing qualities in pulling away to finish first

('74 2-Ton World Championship winner, '76, '78 S.O.R.C. winner), navigator Rick Mogel, and crew members Warwick M. Tompkins, MAUL

RACE 3 MOLOKAI RACE

	Race 1	Race 2	Race 3	Race 4	Race 5
SUPER WITCH	5/96	1/100	1/200	1/100	4/291
SUPER WITCH	96	196	396	496	787
HITCH HIKER	3/98	DNF/83	3/196	5/96	5/288
HITCH HIKER	98	181	377	473	761
POLICE CAR	1/100	DNF/83	DNS/168	2/99	7/282
	100	183	351	450	732
IRRATIONAL	6/95	2/99	2/198	7/94	6/285
IRRATIONAL	95	194	392	486	771
BROOKE ANN	2/99	7/94	5/192	8/93	1/300
BHOOKE ANN	99	193	385	478	778
TOMANUATAN	4/97	5/96	8/186	6/95	2/297
TOMAHAWK	97	193	379	474	771

Stan Gibbs, David W. Miller, Richard Martin, Robert Schuster, Yasuyuki Hakomori and Kazuyuki Higashijima. ROUND-THE-STATE RACE

KAHOOLAWE

OLYMPIC TRIANGLES

THE WISP

Class D		Aug. 7	Aug. 8	Aug. 11	Aug. 14	Aug. 21	TOTAL
POLICE CAR/KA-330 BROOKE ANN/US-77519 HITCH HIKER/KAR-303 TOMAHAWK/US-67377 SUPER WITCH/J-3031 IRRATIONAL/US-67668 ZINGARA/US-30331 SEAQUESTA / SM-202	1 2 3 4 5 6 7	Aug. 7 Race 1	Aug. 8 Race 2	Aug. 11 Race 3	Aug. 14 Race 4 Polist CAM PHILIPAGE	Race 5	TOTAL  ① SUPER WITCH ② BROOKE ANN ③ IRRATIONAL ③ TOMAHAWK ⑤ HITCH HIKER ⑥ SEAQUEST ⑦ WILL O' THE W ⑥ KO TERU TERU
PACHENA/KC-49111 MOONSHADOW/B-51	9	:	THE WILP NO TEMU	MAKOW -	- in	1	MOONSHADOW POLICE CAR

in the 150 mile Molokai Race.

Throughout the strong winds and choppy sea conditions that caused one boat after another to drop out with mast or rudder troubles, "Super Witch" and its crew, with Lowell North at the helm, made an impressive display of the best teamwork along with their sound sailing tactics. In the end, both boat and crew proved themselves with consistent finishes of 5-1-1-1-4, giving "Super Witch" a convincing victory in Class D.

Following the "Wing of Yamaha" 's victory in the 1975, Pacific Ocean Single Handed Race and the 1/4 Ton World Championship won by "Magician V" in 1978, this makes the third time that the Yamaha Design Team has produced an outstanding boat with excellent sailing performance that has outsailed the world's top competition and won the attention and praise of vachtsmen the world over







"Super Witch" performed magnificently while running free before the wind. At a speed of 12 knots she seems to be flying along as she rides the surf.



With the beautiful summer coastline of Hawaii in the background, the "Clipper Cup" has become the race that every off-shore racer wants to enter.



Maxi-boats that have made names for themselves on race courses the world over, such as "Kialoa" (80 foot sloop/owner, John B. Kilroy/designer, Holland) and "Condor" (80 foot sloop/owner, R. A. Bell/designer, Holland), added to the color and excitement of this year's race.