



Yamaha's racing program

Even greater efforts towards the growth of sound motorcycle sport

Yamaha's racing program, which is now unveiled, represents even greater efforts towards realizing the growth of sound motorcycle sport across the world.

The three giant racers of Yamaha, namely, Kenny Roberts (500cc road racing world champion), Johnny Cecotto (Formula 750 world champion) and Heikki Mikkola (500cc motocross world champion) will be back along with new, powerful works machines. In addition, three new stars are to ride for Yamaha this year putting the Yamaha team in an even more competitive position. They are Christian Sarron of France (500cc road racing), Gaston Rahier of Belgium (125cc motocross) and Rex Staten of the United States (AMA 500cc motocross).



New YZR750



J. Cecotto



New YZR500



K. Roberts (left) and K. Carruthers (right)

Successful operations

Reigning 500cc road racing world champion Kenny Roberts came off and suffered injuries when testing a new Yamaha 500cc racer at the Yamaha Course on February 13.

Surgical operations to repair his damaged spleen were successful.

Roberts had to be out of Daytona 200 and the Venezuelan GP but hopes to be fit in time for the Austrian GP, the second round of the series.



New YZM400



H. Mikkola

Yamaha Riders for 1979

Road Racing

Name	Entrant	Class
K. Roberts	Yamaha Motor Co., Ltd.	GP500/F750
J. Cecotto	Yamaha Motor Co., Ltd.	GP500/F750
C. Sarron	Sonauto (French Importer)	GP500

Motocross

Name	Entrant	Class
H. Mikkola	Y.M.C	GP500
G. Rahier	D'leteren Sport (Belgian Importer)	GP125

AMA Championship Motocross

Name	Entrant	Class
B. Hannah	Yamaha Motor Corp., U.S.A.	AMA250
B. Glover	Yamaha Motor Corp., U.S.A.	AMA125
R. Burgett	Yamaha Motor Corp., U.S.A.	AMA500
M. Bell	Yamaha Motor Corp., U.S.A.	AMA500
R. Staten	Yamaha Motor Corp., U.S.A.	AMA250

Yamaha Riders and Machines for '79

World Championship Road Racing

Kenny & Johnny will do it again

Kenny Roberts

Nationality: USA
Age: 27
Race career:
1973: Won AMA grand national championship.
1974: Won AMA grand national championship.
1975: Placed 2nd in AMA grand national championship.
1976: Placed 3rd in AMA grand national championship.
1977: Placed 4th in AMA grand national championship.
1978: Won 500cc road race world championship.

Johnny Cecotto

Nationality: Venezuela
Age: 23
Race career:
1975: Ranked 3rd in Daytona 200. Placed 1st in 750cc Imola race. Won 350cc road race world championship.
1976: Placed 1st at Daytona 200.
1977: Placed 4th in 500cc World GP.
1978: Won Formula 750 World Championship.

Christian Sarron, Yamaha's New Power



Christian Sarron of France has recently cut a brilliant figure in an international racing world. He is to contest GP500 and Formula 750 as Yamaha's new power this year.

Nationality: France
Age: 24
Born: March 27, 1955, Riom, France
Race career:
1975: Placed 1st and 3rd on a privately owned Kawasaki 400cc in Kawasaki Moto-Revue Cup Racing. Named by Dunlop as the year's best rookie.
1976: On a privately owned Yamaha 350, placed 10th at the Czech GP, 7th at the German GP, 2nd at Mallory Park and 1st at Brands Hatch. Named France's second best rider by Moto-Journal Magazine.
1977: In the 750cc class placed 7th at Daytona, 2nd at the Spanish GP, 3rd at the Dutch GP, 8th at the US GP, 4th at the Canadian GP to place 2nd in the overall rankings. In the 250cc class he won the German GP and placed 7th overall in the 350cc class.
1978: Placed third overall in the Formula 750 world championship.

New powerful machines



YZR750 Specifications

*Engine: 2-stroke, parallel four, water-cooled 7-port Torque Induction, 66.4 x 54mm, 748cc *Max. power output: 120PS over at 10,000rpm *Max. speed: 275km/h over *Ignition: C.D.I. *Clutch: Dry multi-plate *Transmission: 6-speed gearbox *Tire size: (F) 3.25-18, (R) 3.50/6.00-18 *Suspension: (F) Telescopic, (R) Monocross *Brakes: (F) Hydraulic discs (2), (R) Hydraulic disc (1) *Fuel tank capacity: 24lit. *Dry weight: less than 150kg



YZR500 Specifications

*Engine: 2-stroke, parallel four, water-cooled, YPVS 56 x 50.5mm, 497cc *Max. power output: 110PS over at 10,500rpm *Max. speed: 255km/h over *Ignition: C.D.I. *Clutch: Dry multi-plate *Transmission: 6-speed gearbox *Tire size: (F) 3.25-18, (R) 3.50/6.00-18 *Suspension: (F) Telescopic, (R) Monocross *Brakes: (F) Hydraulic discs (2), (R) Hydraulic disc (1) *Fuel tank capacity: 30lit. *Dry weight: less than 145kg

Numerous technical improvements

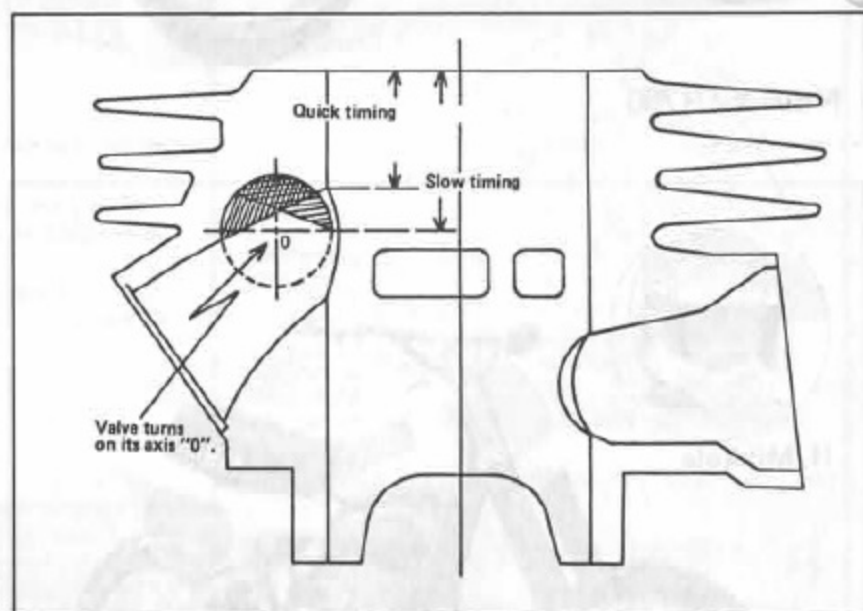
New Yamaha YZR500 and YZR750 are even more powerful and exciting than ever. These machines with numerous technical improvements embody Yamaha's untiring efforts towards realizing the growth of sound motorcycle sport. It is also Yamaha's firm belief that better performing, longer lasting road bikes can be developed through active participation in racing. Newly introduced technical improvements are announced as follows:

*Engine

Major component parts have been so modified as to increase overall output. Middle-to-low gearing is improved by using the Yamaha Power Valve System (Y.P.V.S.) automatically adjusting exhaust timing with engine load. A new design allows optimum gearing for each race circuit and better, faster servicing.

*Frame

New front forks allow sharper and more dependable handling. Due to improved rigidity, damping efficiency has been increased. Externally adjustable suspension allows faster set-up. With increased damping efficiency, tire's roadholding has been greatly improved. New brake caliper ensures more stable braking while preventing distortion and overheating of a disc. Use of new materials has resulted in



significant weight and size reduction of the machine for overall better handling. Various safety improvements, such as explosion proof fuel tank, double brake hose cover and semi-forced open-close throttle, have been added.

*Yamaha Power Valve System

Yamaha Power Valve System (YPVS) Which is fitted to YZR500 racer, have

overall improved exhaust timing under varying race conditions. On a conventional 2-stroke engine high rpm features quick exhaust timing while low rpm results in slow timing. YPVS is considered an effective compromise to these conflicting factors. YPVS adjusts automatically exhaust timing in accordance with engine load and power development is smooth over the entire range of speeds.

World Championship Motocross

Flying Finn aims at 3rd successive title

Heikki Mikkola

Nationality: Finland
Age: 32
Race career:
1971: Retained 4th standing in 250cc motocross world championship.
1973: Ranked 3rd in 500cc motocross world championship standings.
1974: Won world championship in 500cc motocross world championship.
1975: Ranked second in 500cc motocross world championship.
1976: Won 250cc motocross world championship.
1977: Won 500cc motocross world championship.
1978: Won 500cc motocross world championship.

Lightweight No.1



Gaston Rahier

Nationality: Belgium
Age: 31
Born: February 1, 1948
Height: 168cm
Weight: 62.5kg
Race career:
1972 - Joined Husqvarna team placing second at Spanish and Italian 250cc GP races. At mid season joined Suzuki, winning several Japanese events during the next 18 months.
1974: As a Suzuki works rider, competed in 250cc finishing fourth overall and winning the German GP.
1975: Won eight 125cc GP races and overall championship.
1976: Repeated as world 125cc champ, won second Belgium 250cc crown and placed first in 25 Australian races.
1977: After winning seven 125cc GP events and sewing up the world title for the third straight year, was severely injured in a crash.
1978: Despite lingering problems from his injuries, placed second overall in the 125cc GP championship and won Belgium 250cc crown.



New YZM125

*Engine: 2-stroke, single, water-cooled, YPVS 56 x 50mm, 123cc *Max. power output: 26PS over at 11,000rpm *Ignition: C.D.I. *Transmission: 6-speed gearbox *Clutch: Wet multi-plate *Tire size: (F) 3.00-21, (R) 4.00-18 *Suspension: (F) Telescopic, (R) Monocross *Fuel tank capacity: 6.5lit.



Bob Hannah

Nationality: USA
Age: 21
Race career:
1977: Won AMA Florida winter series. Won AMA Supercross 250 class. Placed 2nd in Trans-AMA 500 class.
1978: Won supercross 250 championship. Won AMA National 250 championship. Won Trans-AMA championship.



New YZM250

*Engine: 2-stroke, single, air-cooled, YPVS 70 x 64mm, 246cc *Max. power output: 36PS over at 8,000rpm *Ignition: C.D.I. *Transmission: 5 or 6-speed gearbox *Clutch: Wet multi-plate *Tire size: (F) 3.00-21, (R) 5.00-18 *Suspension: (F) Telescopic, (R) Monocross *Fuel tank capacity: 8.5lit.



New YZM400

*Engine: 2-stroke, single, air-cooled, 82 x 75mm, 396cc *Max. power output: 41PS over at 7,500rpm *Ignition: C.D.I. *Clutch: Wet multi-plate *Transmission: 5-speed gearbox *Tire size: (F) 3.00-21, (R) 5.00-18 *Suspension: (F) Telescopic, (R) Monocross *Fuel tank capacity: 10lit.

Mike Bell

Nationality: USA
Age: 21
Race career:
1977: Joined Team Yamaha in July. Made professional debut in Los



Angel's Supercross, placing fourth. Pulled in the overall win in the 250cc support class of the 500cc Nationals. Placed fourth in the final race of the 125cc Nationals at San Antonio. Suffered a broken arm in Anaheim Supercross race, but managed to finish sixth overall in the 250cc class of the Trans-AMA series.
1978: Injuries at the start of the season curtailed what was expected to be Mike's best year yet.



Rex Staten

Nationality: USA
Age: 24
Race career:
1978: Placed 2nd overall in AMA 500 championship, and 10th in Supercross. Won three of three races in Johannesburg; three of four with one second place in Cape Town; and three of three in Burbin. Lacked passing only one rider to lap the entire field.



Rick Burgett

Nationality: USA
Age: 23
Race career:
1977: Finished in the top ten in AMA winter series in Florida. Finished in the top ten in AMA Motocross 250 class.
1978: Won AMA National 500 championship.



Broc Glover

Nationality: USA
Age: 19
Race career:
1977: Competed in the 250cc support races of the Trans-AMA series and placed third overall with 275 points.
1978: Won AMA National 250 championship.

From FIM Spring Meeting

The following important decisions were taken during the '79 FIM Spring Meeting held in Geneva, Switzerland:

New US Road Race GP

The new US GP at Laguna Seca will close the 1980 season. The announced date (September 21) is only provisional but it is almost certain that the proposals will be confirmed during the FIM Congress in October. America's interest in GP racing was revealed when they announced that 500cc machines would be allowed to run in the '79 Daytona 200 for the first time. The preceding GP will be organized at Mosport Park in Canada for the sake of visitors' convenience. The Swiss GP will also be added to the list. It will be held at the Paul Ricard circuit in France.

World championship snow scooter racing

This new category is also to be introduced in 1980 due to the rapid expansion of this sport in North America. Snow scooters will be limited to 500cc engines. Demonstrations on ice racing circuits between 500 to 800 meters will be staged in Holland, West Germany and other interested European countries this year.

Motocrosser's suspension

Manufacturers will be asked to take a serious look at the problem of extra long suspension. The FIM's technical committee fears they are fitting front forks with longer and longer suspension as a sales point and that steering geometry will be seriously affected by it.

Scientific studies on noise levels

FIM's scientific studies on noise levels have greatly reduced the risk of ear damage through exposure to excessive noise. This was confirmed by FIM's technical lecturer. Using slides and diagrams, he illustrated scientific investigations based on DbA, levels, and the time people concerned were exposed to noise.

Only one more GP race

Despite the addition of three more GP meetings, there will be one more GP race in 1980 than in 1979. As no Formula 750 will be organized in 1980, only 15 weekends will be devoted to grand prix racing, making a total of 60 races against 59 in 1979. This will be an effective solution to the present jammed calendar.

Motocross Hero in Brazil



Wagner Montemurro, all-time winner!

Motocross racing has already become one of the most popular and spectacular sport events in Brazil. Especially, the national championship event which is annually held in Manaus, a large city located halfway down the Amazon River, is contested by all motocross stars and attracts a large crowd of spectators. Event organizers are S. Monteiro S.A., local press and other sport-interested organizations. Riding a powerful YZ125 machine, Wagner Montemurro beat all rivals and clinched a crown, which proved a very effective PR exercise for the technical superiority of Yamaha bikes.

Yamaha sets trend

Rapid growth of motocross enthusiasm in Brazil is attributed to continued efforts on the part of Yamaha Motor do Brasil Ltda. in São Paulo. The staff of this company including Nivanor Bernardi, the best motocross rider in Central and South America, are carrying out the program of Yamaha motocross school in a very successful manner, increasing steadily the number of motocross fans all over the country.



Nivanor Bernardi at a television interview

'79 AMA Sports Calendar

Supercross series

Jan. 28	Oakland, CA	Feb. 10-11	Seattle, WA
Mar. 3	Atlanta, GA	Mar. 10	Daytona, FL
Mar. 16-17	Houston, TX	Apr. 28-29	Pontiac, MI
Jun. 2	New Orleans, LA	Jun. 6-7	Pittsburg, PA
Jul. 14	Los Angeles, CA	Nov. 10	Anaheim, CA

AMA National Motocross 125/250/500

Mar. 25	125/250cc MX	Apr. 1	125/250cc MX
	Sacramento, CA		Trabuco Cyn., CA
Apr. 8	125/250cc MX	Apr. 22	125/250cc MX
	Houston, TX		Omaha, NB
May 13	250/500cc MX	May 20	250/500cc MX
	Mt. Morris, PA		Southwick, MA

May 27	250/500cc MX	Jun. 17	250/500cc MX
	Atlanta, GA		Sears Point, CA
Jun. 24	250/500cc MX	Jul. 1	250/500cc MX
	St. Peters, MO		Buchanan, MI
Aug. 5	125/500cc MX	Aug. 12	125/500cc MX
	Escohoag, RI		Bringhamton, NY
Aug. 19	125/500cc MX	Aug. 26	125/500cc MX
	Charlotte, NC		St. Petersburg, FL

Trans-AMA

Sept. 23	Lexington, OH	Sept. 30	Buchanan, MI
Oct. 7	New Berlin, NY	Oct. 14	TBA
Oct. 21	St. Peters, MO	Oct. 28	TBA
Nov. 4	Sonoma, CA		

Mitsui-Yamaha Team

Mitsui, Yamaha importers in Great Britain have announced their first-ever official venture into motorcycle sport.

Road race star Dave Potter and motocross ace Andy Robertson will ride under Mitsui-Yamaha banner this year.

Potter will concentrate on the Duckhams Superbike Championship with TZ750 machines and a new 500cc racer and Robertson is to have YZ400 machines for the British championship this year. Additional sponsorship for the team has been provided by several other companies including BP Oils, Toshiba and NGK Plugs.

(See our next issue for more details)

Yamaha Business Information

-Singapore-

Hong Leong Group Start Marketing Yamaha Bikes

The Hong Leong Group of Companies, one of the leading business organizations on Singapore, have recently embarked on their new business of marketing Yamaha motorcycles upon a new distributorship contract combined between Yamaha Motor and the Group.

The motorcycle market of Singapore is still picking up along people's increasing interest in these handy motorized vehicles which prove a very economic and enjoyable means of transport for town pottering, shopping, commuting and leisure-time touring.

At this time new Yamaha-Hong Leong business co-operation is expected to do a great deal for another share enlargement of Yamaha motorcycles.

Hong Leong Co.(Pte), Ltd., part of the Group, will directly spearhead sales promotional efforts in co-operation with their franchised dealers forming a powerful nationwide network.



Mr. Kwek Hong Png, Chairman of the Group (left) and Mr. Hisao Koike, President of Yamaha Motor (right)



The whole showroom

New, attractive showroom

A new Hong Leong showroom of Yamaha motorcycles, which was opened and drew a lot of visitors on March 15, is well indicative of their determination for the new business.

The new showroom features a unique, innovated interior design and arrangement incorporating attractive Yamaha-designated colours and enabling all prospective buyers to look for and handle their



Mr. Eguchi cutting the ribbon. A very memorable moment!



Front entrance of the showroom.



The Accessories counter displaying a wide range of Yamaha items.

favourite machines in comfort, unlike any conventional showroom where customers have to walk down the rows of machines packed closely together. A grand opening ceremony took place on the day, with a large attendance of people concerned, including some managing staff of Yamaha Motor. Mr. Hideto Eguchi, Managing Director of Yamaha Motor cut the ribbon for showroom opening.



Photos: (A) The initial crowd at the opening. (B) Presentation of \$10,000 to the building fund of the Singapore Motorcycle Trade Association; (C) From left: Mr. Michael Kuan, Mr. Shozo Arai (Yamaha Motor), Mr. Kwek Hong Lye and Mr. Hideto Eguchi (Yamaha Motor)



Graphic record

Smooth development of CKD assembly in Indonesia

Indonesia, with a population of about 130 million people and immense store of natural resources left untouched, has long become the largest market of motorcycles in Southeast Asia, and yearly sales in this nation have already exceeded a mark of 300,000. In Indonesia, as in many other developing nations, a giant-scale national industrialization project is making a steady advance. Close partnership between local investors and foreign enterprises is considered essential to the eventual success of this project. CKD assembly of motorcycles, which definitely forms main part of this project, is now achieving very satisfactory results under the system of international co-operation. Especially, Yamaha with the largest market share is carrying out a CKD assembly program in the most successful manner.

By Yamaha Indonesia Motor

As reported already, Yamaha importers P.T. Harapan Motor Sakti, with the main office located in Jakarta, are developing their active sales promotion in co-operation with their dealers and sub-dealers throughout the nation. On the other hand, CKD assembly of Yamaha motorcycles is performed by P.T. Karya Sakti Utama Motor while component parts are manufactured by Yamaha Indonesia Motor, a local company capitalized jointly by Yamaha Motor and P.T. Karya Sakti Utama Motor, in compliance with the established policy of the Indonesian government.

Yamaha Indonesia Motor is located at the industrial estate of Jakarta. A modern factory covering some 27,000 m² in total floor area is established on a 110,000 m² site. The factory, with approx. 750 employees, is monthly turning out various component parts for 10,000 lightweight bikes, such as frames, handle bars, fenders, fuel tanks, oil tanks, side covers, rear swing arms, chain cases, mufflers, exhaust pipes, footrests, wire harnesses, cables, hubs, etc.

In order to meet the required increase of local manufacture ratio, some more items will be added to the list in the near future. The factory is fitted with all modern production facilities, such as 20 to 300t press machines, semi-automatic welding machines, hub processing equipment, full-automated chrome-plating system, large-capacity generators, cooler-fitted water circulation system etc.

The factory, with all employees working in two or three shifts, is now at full capacity for production increase in order to meet always-growing sales. Plans have already been laid to strengthen overall production system to realize another cost reduction along with product quality improvement. Yamaha's share will become even larger when these low-priced quality bikes have been introduced on the market. It is also feasible that Indonesia-made Yamaha bikes will be exported to other nations, thus making even greater contributions to the growth of Indonesia's national economy.



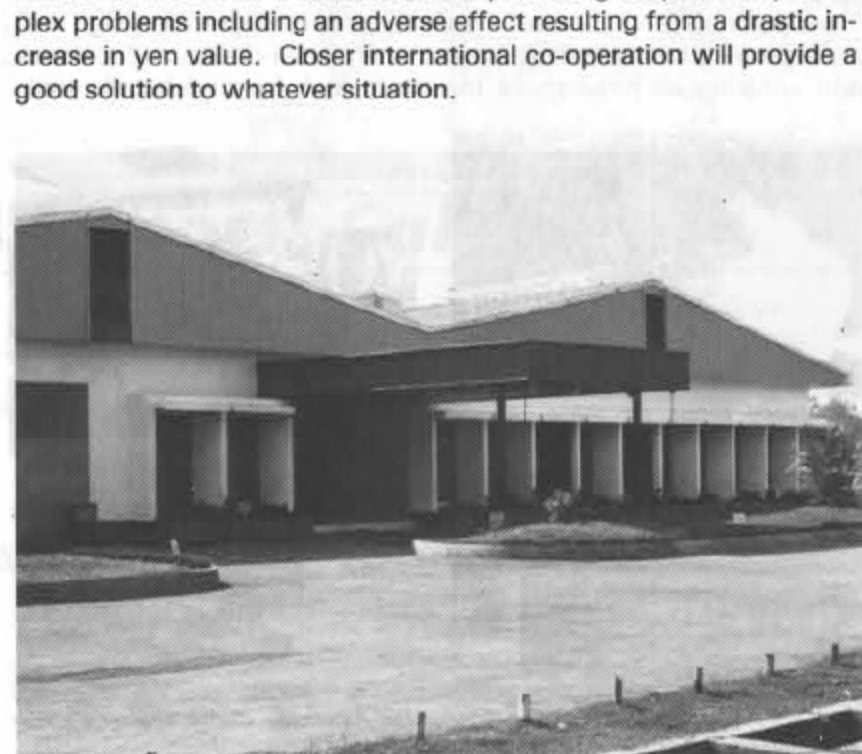
P.T. Karya Sakti Utama Motor, legends-yamaha-enduros.com A modern assembly factory

All manufactured parts are supplied to P.T. Karya Sakti Motor for CKD assembly with technical assistance offered by Yamaha Motor. The factory has a total floor area of approx. 63,000 m² and the site covers some 350,000 m² in total area. 800 employees are working day and night to complete component parts into quality Yamaha bikes, such as V75, L2, RX100, DT100 and RX125, each of which is one of the best sellers and setting a trend in its own class.

The factory with four assembly lines is a modern one featuring a highly efficient automated system. Monthly output is maintained at 15,000 but can be raised to 20,000 whenever necessary. Apart from CKD assembly of motorcycles, the factory is turning out some plastics parts including side covers and oil tanks. The motorcycle market of Indonesia is considered still promising despite many complex problems including an adverse effect resulting from a drastic increase in yen value. Closer international co-operation will provide a good solution to whatever situation.



Main assembly line



Front view of the office



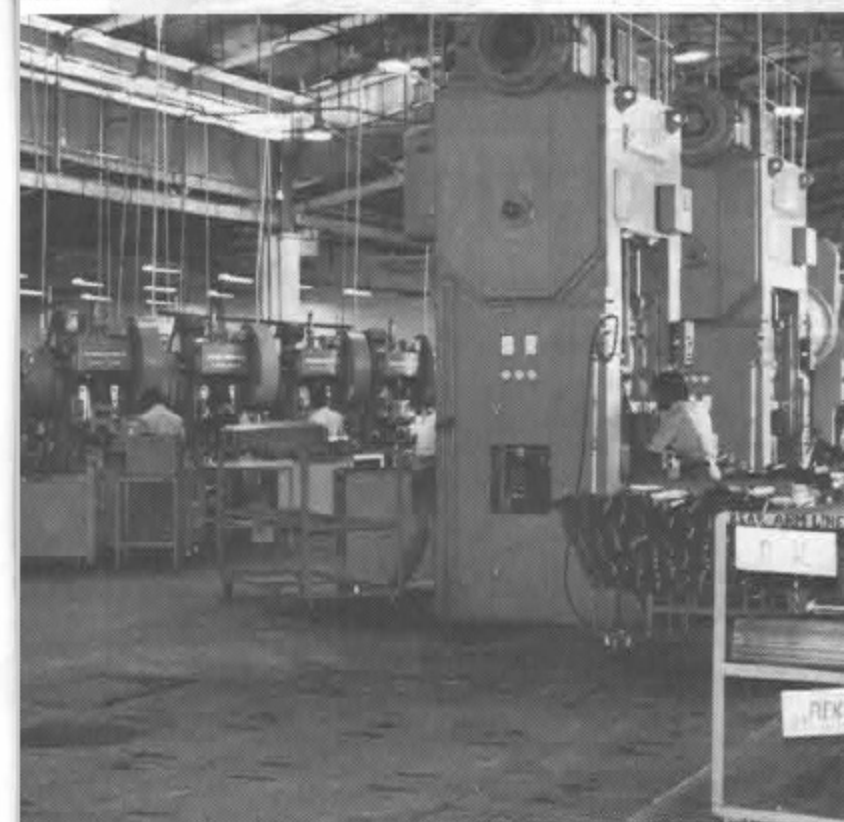
Rows of completed machines



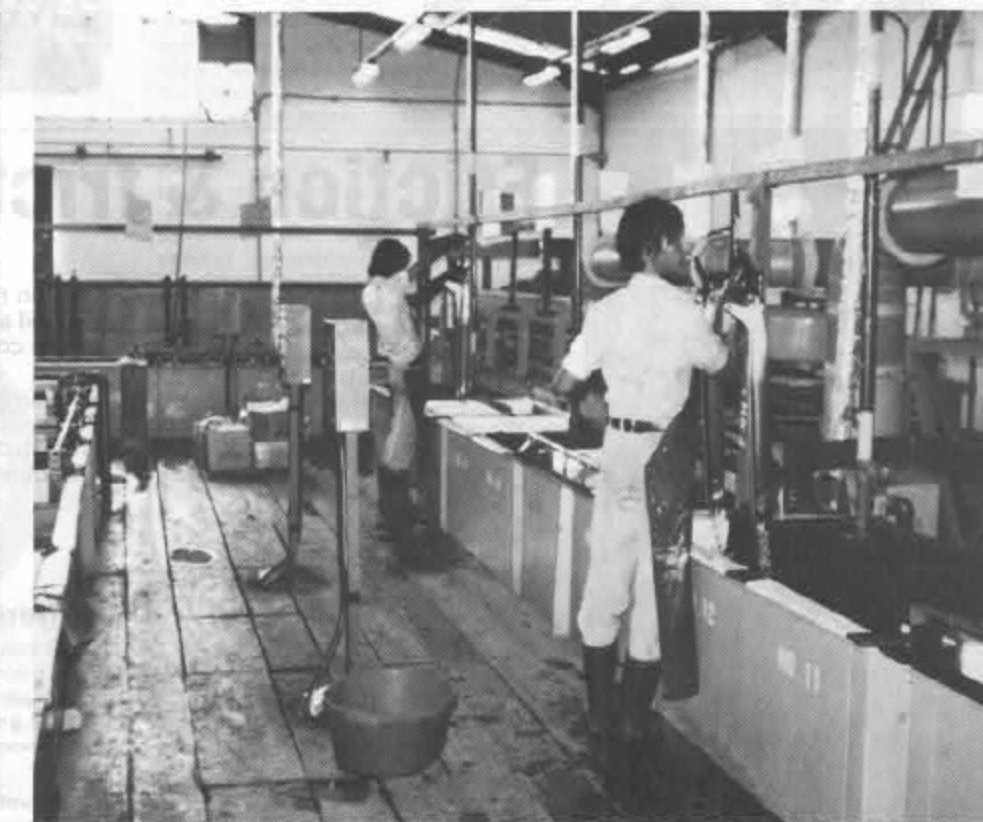
Parts grinding



Mechanical processing



Press machines



Plating

Topics about Motorcycles



Tough 125cc YA5 — Korea

One of the Yamaha 125cc YA5 bikes, which were put on sale in 1961, is still alive and ridden by a Korean user every day. Mr. Sai Eikoh, a 34-year old high school teacher in Seoul, Korea, has recently written to Yamaha Motor, expressing his sheer amazement for Yamaha's toughness as follows: "My 125cc 2-stroke Yamaha YA5 is almost perfect even after nearly 18 years of use. All components are original, except for clutch cable, tires and indicators. Electric starting system works good, and performance is excellent and dependable overall. Top speed reaches 100km/h or even higher, with no adverse effect caused at all. I have tried to keep my precious bike in the best operative condition despite some repair and service problems in our country and I hope I can enjoy many more Yamaha miles".

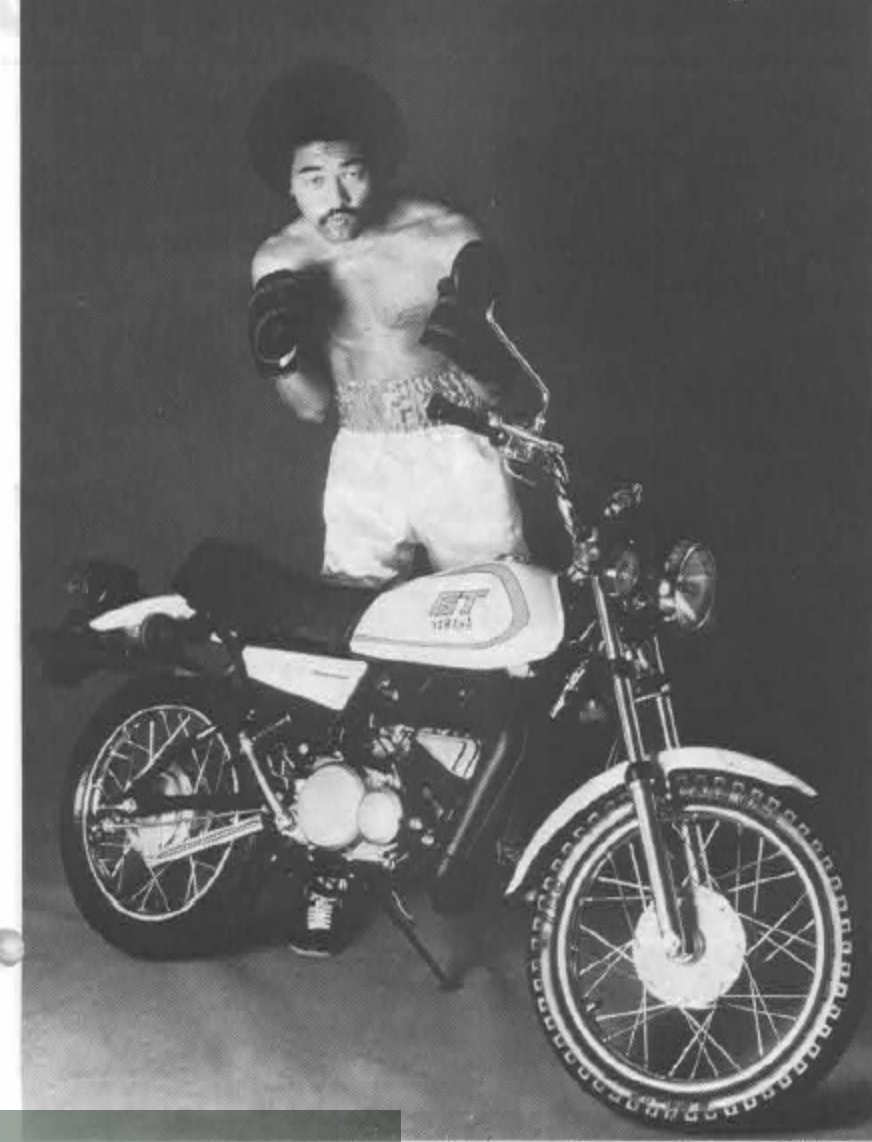


Yamaha "RSS" — Japan

100 new racing service shops(RSS) of Yamaha have recently started their business operation to sell more production racers, such as TZ and YZ, through promoting the spread of sound motorcycle sport in Japan. Technica seminar which was organized in 8 different cities enjoyed very favorable response from a great number of race fans. They will also take an active part in organizing regional events throughout Japan in order to make dealer-user communication much closer. Their activity will get more brisk as a sport season develops.



New GT50 and World Champion!



Pictured above is the latest model of Yamaha GT50 with Yokoh Gushiken, junior flyweight boxing world champion. New GT50, which is nicknamed "Mini Trail", comes as a fresh sensation to off-road pleasure seekers. The most noteworthy feature on this model is a Mono-cross rear suspension system employed in this class for the first time. This system improves greatly off-road handling qualities in combination with new technical refinements added to all major components including a long proven 2-stroke "Torque Induction" engine. Gushiken is also called "Little Giant" for his fierce fighting spirit. He is considered the best image character for Yamaha Mini Trail.

Topics about Motorcycles

Fruitful PR activity — Sri Lanka



Consolidated Engineering Company of Sri Lanka are continuing their PR activity in a very efficient and fruitful manner, with special importance attached to the publicity of technological superiority of Yamaha motorcycles.

To this end they are fully utilizing monthly "Yamaha News" giving considerable space to reporting Yamaha's most successful sport activities far and wide.

Pictured here is the "Wheels" page of "Sun" carrying an article on world 500cc motocross champion Heikki Mikkola based on material from '78 No.12 issue of "Yamaha News". The Press has been giving them steady publicity of this type in recent months, which, coupled with their own advertising campaign, has served to impress favorably on the motorcycling public of Sri Lanka.

Special Series **UNFORGETTABLE MODELS**

PART-15

Yamaha Sports 50FS1



Yamaha's advanced technology gave birth to a unique ultra-lightweight sports model designated 50FS1 in 1969. This model marked the opening of a real 50cc super sports age in Japan. A slim, long fuel tank finished in sparkling snow white presented a sharp yet elegant silhouette line in combination with a newly designed semi-dual seat, which produced a striking resemblance to that of Yamaha's world GP-winning racer. Technical data were also impressive. Max. power output was developed up to 6ps/9,000rpm. Top speed was hit at 95km/h through a return type 5-speed transmission. It was no wonder that exciting performance made an appeal to young,

active motorcyclists. Yamaha-original backbone type frame called "7-bone type" was descended from that of Yamaha's 50cc predecessors such as YF1, F5 and F5S developed from YG1. FS1 was followed by FS50 in Dec. '70, featuring some minor modifications. FX50, which was marketed in May '72, featured a newly designed double cradle tubular frame to add an extra sporty feel to this model. Succeeding to FX50, RD50 made a debut in March '74, as the first 50cc road model ever to employ a front hydraulic disc brake. RD50 was developed into the latest RD50SP, a more exciting model with newly employed cast wheels.

Specifications
 *Overall length 1,755mm *Overall width 555mm *Overall height 935mm *Wheelbase 1,160mm *Dryweight 70kg *Air-cooled 50cc single cylinder 2 cycle rotary disc valve engine *Bore x stroke 40 x 39.7mm *Compression ratio 6.9 *Max. power output 6ps/6000rpm *Max. torque 0.5kg-m/8000rpm *Top speed 95km/h *5-speed transmission



'74 RD50



'78 RD50SP

Friction & friction coefficient (1)



Friction means a force to resist "slipping". The strength of this force is defined as friction coefficient. Larger coefficient means larger resistance and vice versa.

$$\text{Friction coefficient} = \frac{\text{Friction}}{\text{Load (weight)}}$$

Friction coefficient differs from one surface condition to another. This must be kept in mind whenever riding.

Different coefficients

0.75-0.85	0.75-0.80	0.6-0.7	0.45-0.6	0.50	0.15	0.07
Dry concrete	Dry asphalt	Wet concrete	Wet asphalt	Gravel	Frozen snow	Ice

advanced guide to safe riding



A Wide Variety of Yamaha Products

Outboard Motors

Remarkable Achievements of Service Seminar '78

The sales of Yamaha outboard motors have recorded a very remarkable increase throughout the world, especially, in many developing nations for the past few years. Along the expansion of market the Marine Division of Yamaha Motor has directed greater efforts towards technical training of marine service mechanics who are active in the first line of repairing and servicing Yamaha outboard motors in their respective nations. Yamaha's strengthened after-sale service has done a great deal for such successful business results.

Very fruitful '78

1978 was a very fruitful year for Yamaha. Yamaha service seminar was given for 13 marine mechanics from 10 different nations, namely, Indonesia, Papua New Guinea, Paraguay, Honduras, Mexico, Iran, Lebanon, Kenya, Tonga and the Gilbert Islands. In addition, 9 members of J.O.C.V. (Japan Overseas Co-operation Volunteers) participated in this seminar.

All participants finished a training course with very satisfactory results: They acquired advanced technical knowledge and higher repair/service skill of outboard motors, which should expedite the wider use of outboard motors in their own nations.

Yamaha's service seminar is given full support by all importers and various fishery-concerned organizations in developing nations and even greater efforts will be put in it towards the future.



Mr. Sanchago N. Jorge from Honduras (this side) and Yamaha instructor



Mr. Peiria (left, instructor) and Mr. Zulthen Zaidt (right, from Indonesia)



Mr. B. Baleghsefat from Iran

Graphic record

The sales of Yamaha outboard motors registered a considerable increase in Europe last year thanks to the efforts of all Yamaha importers and their franchised dealers, despite various unfavorable factors, such as competitors' new distribution channel, introduction of a new brand, retail price cut-down etc. Especially in France, the new 40HP model which was introduced into the European market during the '78 season, has been very well accepted and gained a good reputation for different kinds of usage, recreational or commercial.

Positive response to new models

The '79 season opened with boatshows in Paris, Düsseldorf and Barcelona. Yamaha's three new models, namely, 9.9C, 15C and 85AE aroused a sensation among a great number of boating people for their compactness, sophisticated technical features and high dependable performance. Encouraged by such positive response on the part of customers, all Yamaha importers and dealers concerned have already embarked on a '79 sales war, with full confidence in Yamaha products.

'79 Season Opens! Paris - Düsseldorf - Barcelona



Barcelona Boatshow



Paris Boatshow



Düsseldorf Boatshow

New Pleasure Boat Yamaha Passport-17X

Yamaha's new pleasure boat Passport-17X is an exciting sea explorer designed and built for maximum fun or pleasure. The sleek eye-pleasing hull line extending from bow to stern is indicative of her spirited sporty performance. The deep-V type hull proves highly stable and durable under all sea conditions. Leisure-time cruising, trolling, sunbathing, water-skiing Yamaha Passport-17X develops and explores every fun or pleasure thoroughly. This model and new outboard motor 85AE is the best available combination for extra-responsive acceleration, smooth steering and quick, stable planing.

Main features

1. Deep 25V-type hull is so designed as to minimize pitching or rolling while a boat is stopped. This enables even children to get on or off a boat with ease. Four spray strakes ensure a smooth, comfortable ride with quick, easy handling at planing.
2. Hull is slim overall but cockpit is deep enough to ensure extra safety for family passengers.
3. An 85 h.p. outboard motor is recommended for this model. She can take a maximum of two 55 h.p. motors.
4. Five persons can be seated comfortably, all facing forward. Fore seats can be set to face aft whenever necessary, especially, for the sake of more enjoyable water-skiing. There is a storage space under fore seats. Fuel tank and battery are housed under aft seats.
5. Reinforced safety glass is used for the front and both sides of windshield, enabling all crew to enjoy the enlarged field of vision.
6. Wide chine keeps the cockpit comfortably dry.

PASSPORT-17X

Specifications

Overall length	4.95 (m)
Beam	2.03 (m)
Overall depth	0.88 (m)
Weight	390 (kg)
Recommended horsepower	85 (ps)
Maximum horsepower	100 (ps) x 1 55 (ps) x 2

Cruising area	Limited coastal waters
Colouring	Hull-Valencia red & white or blue & white Deck-white



Snowmobile racing in Japan



All-conquering Yamaha

Winter sport season is very short in Japan but snowmobile racing is steadily getting popular among enthusiasts. The Motorcycling Federation of Japan (M.F.J.), which is the national sport governing body affiliated to the Fédération Internationale Moto-

cycliste (F.I.M.), organizes the annual championship series consisting of four rounds, each of which is contested by all Japanese top class drivers using Yamaha machines or imported ones of several different makes. Yamaha machines dominate literally all the races!



Endless fun!

Pictured here is a new Yamaha-powered fun machine called "Aquacycle" which is introduced by Marine Department of G.A. Yupanco Co., Manila, the Philippines. This is a unique sports machine designed for versatile performance and endless fun on the water.

Aquacycle features

- * Durable fiberglass and streamlined hull
- * 4 unsinkable vacuum compartments
- * Yamaha 25HP model fitted

For your better business

Introduced here are new Yamaha-original sales promotional items designed and intended for wider use by you.

Please contact your nearest Yamaha distributor for any further information.

NEW SHOP SIGN



A118

www.legends-yamaha-enduros.com



Shopfront is a face, as it were. Therefore, it should be as attractive or eye-pleasing as possible to impress favorably upon everybody. Yamaha's new shop sign is designed with the abovementioned matter in mind. As you see, Yamaha-designated colors (navy blue, red and white) are so nicely arranged that an ideal visual effect can be produced.

A built-in fluorescent light will make your shop an impressive eye catcher even at night. New shop sign is prepared in 7 different sizes so that it can fit whatever place or space as follows:

L X W (mm)	A. 700 x 3,600	E. 700 x 10,800
	B. 700 x 5,400	F. 700 x 12,600
	C. 700 x 7,200	G. 700 x 14,400
	D. 700 x 9,000	



XS1100

Paperwork Model

C109



Yamaha XS1100, one of the most exciting superbikes in the world, is now available in a scale-down paperwork model, representing what is real as accurately as possible so that it can make an appeal to all motorcycle or paperwork fans.

It will serve your purpose very good, if used as a complimentary item on the following occasions:

- * Sales or service campaign
- * Show or demonstration
- * Motorcycle events, such as race meeting, touring rally etc.

In addition, you can work out many other ways of utilizing it so that your business chance can be expedited to a maximum.

Making-up instructions are prepared in English and French.



Contributions wanted

We at Yamaha Motor are always concentrating our efforts on devising and manufacturing a wide variety of sales promotional items which can be utilized directly or indirectly in combination with your business. You are also expected to give special consideration to the development of new items. Any idea or proposal will be welcomed for our mutual benefit.