

FACT BOOK 2017

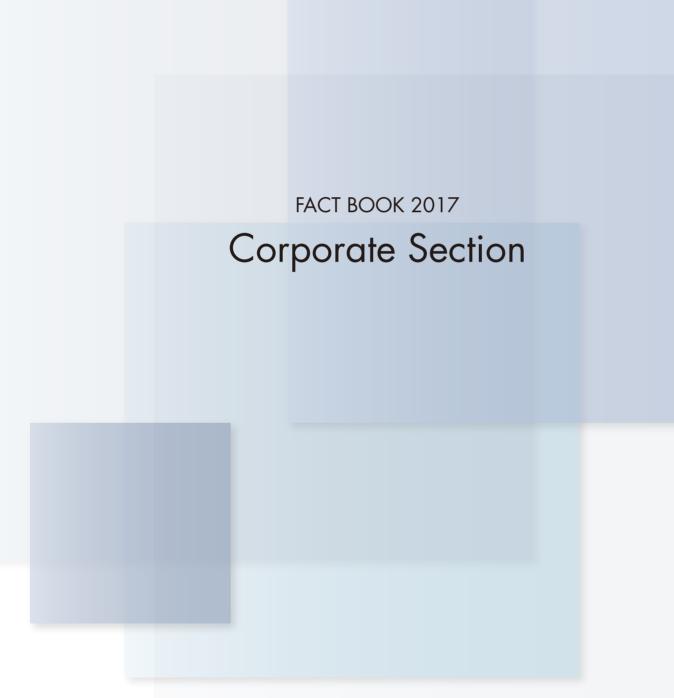
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Corporate Profile

Corporate name:	Yamaha Motor Co., Ltd.	
Founded:	July I, 1955	OVANAHA
Headquarters:	2500 Shingai, Iwata, Shizuoka 438-8501, Japan	
President:	Hiroyuki Yanagi	
Capital:	85,797 million yen (as of Dec. 31, 2016)	
Number of shares:	Authorized: 900,000,000 Issued: 349,914,284 (as of Dec. 31, 2016)	Yamaha Motor Co., Ltd.
Number of employees	s: Consolidated basis: 53,150 Non-consolidated basis: 10,511 (as of Dec. 31, 2016)	
Group companies:	Number of consolidated subsidiaries: 109 (Japan: 22 Overseas: 87) Number of non-consolidated subsidiaries accounted for by the equity method: 3 Number of non-consolidated affiliates accounted for by the equity method: 27 (as	of Dec. 31, 2016)
Lines of business:	Manufacture and sales of motorcycles, scooters, electrically power assisted bicycle pools, utility boats, fishing boats, outboard motors, ATVs, recreational off-highwa multi-purpose engines, generators, water pumps, snowmobiles, small snow t mounters, intelligent machinery, industrial-use unmanned helicopters, electrical po port and sales of various types of products, development of tourist businesses a facilities and related services.	y vehicles, racing kart engines, golf cars, hrowers, automobile engines, surface ower units for wheelchairs, helmets. Im-

Corporate Philosophy

- Corporate Mission -

Kando* Creating Company

Offering new excitement and a more fulfilling life for people all over the world Yamaha Motor strives to realize peoples' dreams with ingenuity and passion, and to always be a company people look to for the next exciting product or concept that provides exceptional value and deep satisfaction.

* Kando is a |apanese word for the simultaneous feelings of deep satisfaction and intense excitement that we experience when we encounter something of exceptional value.

- Management Principles -

I. Creating value that surpasses customer expectations

To continue to produce value that moves people, we must remain keenly aware of the customer's evolving needs. We must strive to find success by always surpassing customer expectations with safe, high-quality products and services.

2. Establishing a corporate environment that fosters self-esteem

We must build a corporate culture that encourages enterprise and enhances corporate vitality. The focus will be on nurturing the creativity and ability of our employees, with an equitable system of evaluation and rewards.

3. Fulfilling social responsibilities globally

As a good corporate citizen, we act from a worldwide perspective and in accordance with global standards. We must conduct our corporate activities with concern for the environment and communities and fulfill our social responsibility with honesty and sincerity.

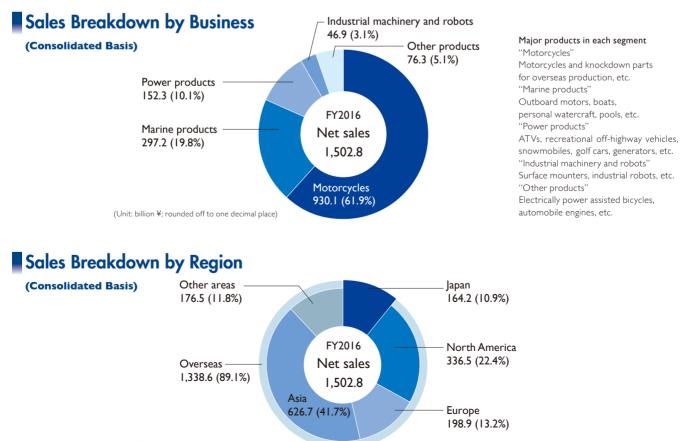
- Action Guidelines -

Acting with Speed	Meeting change with swift and informed action
Spirit of Challenge	Courage to set higher goals without fear of failure
Persistence	Working with tenacity to achieve desired results, and then evaluating them

Operating Performance (Consolidated Basis)

			(Unit: billion ¥; ro	unded off to one decimal place))
	FY2014	FY2015	FY2016	FY2017 (Plan)	
Net sales I,800 – Net sales Operating income 600 –	1,521.2 87.2	1,631.2	1,502.8 108.6	1,600.0 -	Operating income 150 120 90 60 30 0
Ordinary income	97.3	125.2	102.1	120.0	
Profit attributable to owners of parent	68.5	60.0	63.2	75.0	
Exchange rate (USD)	106 JPY	121 JPY	109 JPY	I I O JPY	
Exchange rate (EUR)	140 JPY	134 JPY	I 20 JPY	I I 5 JPY	
Capital expenditures	65.9	64.1	61.3	57.0	
Depreciation expenses	37.7	44.3	42.4	46.0	
Research and development expenses	84.5	91.3	94.9	97.0	
Equity ratio	35.1%	37.6%	40.5%	42.2%	
Interest-bearing debt	403.7	410.1	364.4	400.0	
Debt/equity ratio (gross)	0.88	0.84	0.68	0.69	
ROE	16.2%	12.6%	12.3%	13.5%	
Cash and cash equivalents at the end of the year	137.3	107.6	135.5	-	
Percentage of overseas sales	89.3%	89.8%	89.1%	89.7%	
Percentage of motorcycle business sales	64.3%	63.3%	61.9%	63.8%	
Net cash provided by (used in) operating activities	93.6	28.5	143.2	-	
Net cash provided by (used in) investing activities	(72.5)	(68.5)	(46.5)	-	
Net cash provided by (used in) financing activities	(8.9)	6.8	(67.6)	-	

Note: From fiscal 2016 (the fiscal year ended December 31, 2016), sales finance-related revenue and expenses previously recorded as "Selling, general and administrative expenses," "Non-operating income," and "Non-operating expenses" are being recorded as "Net sales," "Cost of sales," and "Selling, general and administrative expenses." To reflect this change in presentation, the corresponding figures in the consolidated financial statements for the previous fiscal year (fiscal 2015) have been reclassified accordingly.



(Unit: billion ¥; rounded off to one decimal place)

Organization (As of April 1, 2017)

	Integrated Auditing Division
	New Business Development Center
	New Land Vehicle Business Development Section
	New Venture Business Development Section
	Financial Service Business Development Section
	Human Resources & General Affairs Center
	Human Resources Division
General Meeting of Shareholders	Global Human Resources Development Division
	General Affairs Division
Audit & Supervisory Board Audit & Supervisory Board	Risk Management & Compliance Division
Members' Office	Legal & Intellectual Property Division
Board of Directors	Government & Industrial Affairs Division
President & CEO* — Management Committee	Corporate Planning & Finance Center
Risk Management and Compliance	Corporate Planning Division
Committee	Finance & Accounting Division
	Business Management Division
	Process & IT* Division
	Corporate Communication Division
	Design Center
	Technology Center
	Research & Development Section
	Technology Planning Section
	NPM Business Section
	Manufacturing Center
	Manufacturing Planning Section
	Body Manufacturing Section
	Engine Manufacturing Section Procurement Center
	Engine Unit
	Engine Development Section
	Component Section PF* Model Unit
	Engineering Promotion Section
	PF Model Development Section
	Cost Innovation Section
	Component Section
	After Sales Section
	Spare Parts Section
	Motorcycle Business Operations
	Ist Business Unit
	2nd Business Unit
	Total Strategy Section
	Quality Assurance Section
	Marine Business Operations
	Marine Engine Business Unit
	Development Section
* Abbreviations:	Boat Business Unit
	Marine Business Section
CEO: Chief Executive Officer	Automotive Business Unit
IT: Information Technology	Overseas Market Development Operation Business Unit
NPM: New Personal Mobility	Vehicle & Solution Business Operations
PF: Platform	IM* Business Unit
CS: Customer Service	RV* Business Unit
IM: Intelligent Machinery	
RV: Recreational Vehicle	UMS* Business Development Section
SPV: Smart Power Vehicle	Pool Business Development Section
UMS: Unmanned System	Yamaha Motor Powered Products Co., Ltd. (YMPC)

Board of Directors, Audit & Supervisory Board Members and Executive Officers (As of April 1, 2017)

Board of Directors

President and Representative Director Hiroyuki Yanagi



Representative Director Takaaki Kimura



Director Masahiro Takizawa

Director Katsuaki Watanabe

Director Toshizumi Kato

Director **Yoichiro Kojima**

Director Katsuhito Yamaji

Director Makoto Shimamoto

Director **Yoshihiro Hidaka**

Director (Outside) **Tamotsu Adachi**

Director (Outside) Takuya Nakata

Director (Outside) Atsushi Niimi

Director (Outside) Genichi Tamatsuka

Audit & Supervisory Board Members

Audit & Supervisory Board Member Hiroshi Ito

Audit & Supervisory Board Member Kenji Hironaga Audit & Supervisory Board Member (Outside) Tomomi Yatsu

Audit & Supervisory Board Member (Outside)

Masahiko Ikaga

Executive Officers

President and Chief Executive Officer **Hiroyuki Yanagi**

Executive Vice President **Takaaki Kimura** Chief General Manager of Marine Business Operations

Managing Executive Officer **Masahiro Takizawa** Chief General Manager of New Business Development Center

Managing Executive Officer **Katsuaki Watanabe** Chief General Manager of Motorcycle Business Operations

Managing Executive Officer **Toshizumi Kato** Chief General Manager of Vehicle & Solution Business Operations

Senior Executive Officer Yoichiro Kojima Deputy Chief General Manager of New Business Development Center, Senior General Manager of New Land Vehicle Business Development Section, New Business Development Center, and Deputy Chief General Manager of Motorcycle Business Operations

Senior Executive Officer **Katsuhito Yamaji** Chief General Manager of Manufacturing Center

Senior Executive Officer **Makoto Shimamoto** Chief General Manager of Technology Center, and Chief General Manager of PF Model

ter, and Chief General Manager of PF Model Unit

Senior Executive Officer **Yoshihiro Hidaka** Chief General Manager of Corporate Planning & Finance Center

Senior Executive Officer **Hiroaki Fujita**

Managing Director of Yamaha Motor India Pvt. Ltd.

Senior Executive Officer

Masaru Ono Chief General Manager of CS Center

Senior Executive Officer **Masahiro Inoue** Chief General Manager of Procurer Contor and Sociar Control Manager

Chief General Manager of Procurement Center, and Senior General Manager of Cost Innovation Section, PF Model Unit

Senior Executive Officer Junzo Saitoh Chief General Manager of Human Resources & General Affairs Center Executive Officer **Masaki Asano** Managing Director of Yamaha Motor India Sales Pvt. Ltd.

Executive Officer Yoshitaka Noda Senior General Manager of Engine Unit

Executive Officer **Kazuhiro Kuwata** President of Yamaha Motor Europe N.V.

Executive Officer

Tatsumi Okawa President of Yamaha Motor Corporation, U.S.A., and Deputy Chief General Manager of Marine Business Operations

Executive Officer Akihiro Nagaya Chief General Manager of Design Center

hief General Manager of Design C

Executive Officer **Heiji Maruyama** Deputy Chief General Manager of Engine Unit, Senior General Manager of Engine Development Section, Engine Unit, and Execu-

Unit, Senior General Manager of Engine Development Section, Engine Unit, and Executive General Manager of Automotive Business Unit

Executive Officer Hirofumi Usui

Senior General Manager of Marine Business Section, Marine Business Operations, and General Manager of Product Planning Division, Marine Business Section, Marine Business Operations

Executive Officer Satohiko Matsuyama Executive General Manager of Recreational Vehicle Business Unit, Vehicle & Solution Business Operations

Executive Officer **Minoru Morimoto** President of PT. Yamaha Indonesia Motor Manufacturing

Executive Officer Yasuo Tanaka Senior General Manager of After Sales Section, CS Center

Executive Officer **Motofumi Shitara** Deputy Chief General Manager of Corporate Planning & Finance Center

Executive Officer **Eric de Seynes** COO of Yamaha Motor Europe N.V.

Executive Officer **Dyonisius Beti** COO of PT. Yamaha Indonesia Motor Manufacturing

Executive Officer **Toshihiro Nozue** Executive General Manager of Marine Engine Business Unit, Marine Business Operations

Executive Officer Satoshi Hirose

Deputy Chief General Manager of Manufacturing Center, and Senior General Manager of Engine Manufacturing Section, Manufacturing Center



JAPAN

Yamaha Motorcycle Sales Japan Co., Ltd. Yamaha Motor Éngineering Co., Ltd. Sugo Co., Ltd. Yamaha Kumamoto Products Co., Ltd. Yamaki Manufacturing Co., Ltd. Yamaha Amakusa Manufacturing Co., Ltd. Maricom Tokai Co., Ltd. JOB Co., Ltd. Y's Gear Co., Ltd. Yamaha Motor Powered Products Co., Ltd. Nishi Nippon Skytech Co., Ltd. Yamaha Motor Electronics Co., Ltd. Sunward International, Inc. Hamakita Industry Co., Ltd. Yamaha Motor Precision Parts Manufacturing Co., Ltd. Yamaha Motor Hydraulic System Co., Ltd. Yamaha Motor Assist Co., Ltd. Yamaha Motor Support & Service Co., Ltd. Yamaha Motor Management Service Co., Ltd. Yamaha Motor Solutions Co., Ltd. Yamaha Motor MIRAI Co., LTD. Sakura Kogyo Co., Ltd. A.I.S Corporation KYB Motorcycle Suspension Co., Ltd. Yamaha Travel Service Co., Ltd. JUBILO Co., Ltd. , Mikasa Unyu Co., Ltd. Ecoole Toyohashi Co., Ltd Amagasaki Sports Forest Co., Ltd. Izumisano Water Front Co., Ltd. Marin Wave Otaru Inc. Choshi Marina Co., Ltd. Marina Akita Co., Ltd. Havama Marina Co., Ltd. Yokohama Bay Side Marina Co., Ltd.

ASIA (Abbreviations)

China

Yamaha Motor (China) Co., Ltd. (YMCN) Shanghai Yamaha Jianshe Motor Marketing Co., Ltd. (YMSM)

Zhuzhou Yamaha Motor Shock-absorber Co., Ltd. (ZYS)

Yamaha Motor R&D Shanghai Co., Ltd. (YMRS) Yamaha Motor Powered Products (Jiangsu) Co., Ltd. (YMPJ)

Yamaha Motor Electronics Suzhou Co., Ltd. (YESZ)

Yamaha Motor Solutions Co., Ltd. Xiamen (YMSLX)

Chongqing Jianshe Yamaha Motor Co., Ltd. (CJYM)

Zhuzhou Jianshe Yamaha Motor Co., Ltd. (ZJYM) Jiangsu Linhai Yamaha Motor Co., Ltd. (LYM) Sichuan Huachuan Yamaha Motor Parts

Manufacturing Co., Ltd. (SHY)

Chongqing Pingshan TK Carburetor Co., Ltd. (PTK)

Yamaha Motor Taizhou O.P.E. Co., Ltd. (YMTO) Yamaha Motor IM (Suzhou) Co., Ltd. (YIMS) Zhangzidao Yamaha (Dalian) FRP Boat Co., Ltd. (ZYFB)

Taiwan

Yamaha Motor Taiwan Co., Ltd. (YMT) Topmost Consulting Co., Ltd. (TCC) Yamaha Motor R&D Taiwan Co., Ltd. (YMRT) Yamaha Motor Taiwan Trading Co., Ltd. (YMTT) Yamaha Motor Electronics Taiwan Co., Ltd. (YETW)

Indonesia

PT. Yamaha Indonesia Motor Manufacturing (YIMM) PT. Yamaha Motor Nuansa Indonesia (YMNI) PT. Yamaha Motor Parts Manufacturing Indonesia (YPMI) PT. Toyo Besg Precision Parts Indonesia (TBI) PT. Yamaha Motor Electronics Indonesia (YEID) Yamaha Motor Mold Indonesia (YMMID) PT. Yamaha Motor R&D Indonesia (YMRID) PT. Sakura Java Indonesia PT. Kyowa Indonesia PT. Bussan Auto Finance (BAF) The Philippines Yamaha Motor Philippines, Inc. (YMPH) Thailand Thai Yamaha Motor Co., Ltd. (TYM) Yamaha Motor Parts Manufacturing (Thailand) Co., Ltd. (YMPT) Yamaha Motor Electronics Thailand Co., Ltd. (YETH) Yamaha Motor Asian Center Co., Ltd. (YMAC) Malaysia

HL Yamaha Motor Research Centre Sdn. Bhd. (HLYR) Hong Leong Yamaha Motor Sdn. Bhd. (HLYM) Vietnam

Yamaha Motor Vietnam Co., Ltd. (YMVN) Yamaha Motor Parts Manufacturing Vietnam Co., Ltd. (YPMV)

Yamaha Motor Electronics Vietnam Co., Ltd. (YEVN) India

Yamaha Motor India Pvt. Ltd. (YMI) India Yamaha Motor Pvt. Ltd. (IYM) Yamaha Motor India Sales Pvt. Ltd. (YMIS) Yamaha Motor Research and Development India Pvt. Ltd. (YMRI)

Yamaha Motor Solutions India Pvt. Ltd. (YMSLI) Yamaha Motor Electronics India Pvt. Ltd. (YEIN) KYB Motorcycle Suspension India Pvt. Ltd. (KMSI) Bussan Auto Finance India Pvt. Ltd. (BAF India) **Pakistan**

Yamaha Motor Pakistan Private Ltd. (YMPK) Singapore

Yamaha Motor Asia Pte. Ltd. (YMAP) Yamaha Motor Distribution Singapore Pte. Ltd. (YDS)

OCEANIA (Abbreviations)

Australia

Yamaha Motor Australia Pty Limited (YMA) Ficeda Pty Limited

Yamaha Motor Finance Australia Pty Limited (YMFA)

Australian Motorcycle and Marine Finance Pty Ltd.

New Zealand

Yamaha Motor New Zealand Limited (YMNZ) Yamaha Motor Finance New Zealand Limited (YMFNZ)

EUROPE (Abbreviations)

The Netherlands

Yamaha Motor Europe N.V. (YMENV) Germany Yamaha Motor Deutschland GmbH. (YMG) Italy Motori Minarelli S.p.A. Yamaha Motor Research & Development Europe S.r.l. (YMRE)

Yamaha Motor Racing S.r.l. (YMR)

France

MBK Industrie Spain Motor Center BCN S.A. Finland Inha Works Ltd (IWL) Russia LLC Yamaha Motor CIS (YMCIS) Turkey

Yamaha Motor Sanayi ve Ticaret Limited Sirketi (YMTR)

AFRICA (Abbreviation)

Nigeria CFAO Yamaha Motor Nigeria Ltd. (CYMNG)

NORTH AMERICA (Abbreviations)

United States

Yamaha Motor Corporation, U.S.A. (YMUS) Yamaha Motor Manufacturing Corporation of America (YMMC)

Skeeter Products, Inc.

Yamaha Marine Precision Propellers Inc. (YPPI) Yamaha Jet Boat Manufacturing U.S.A., Inc. (YJBM) Yamaha Golf-Car Company (YGC)

Yamaha Motor Golf-Car Lease Receivable Corporation (YGCR)

Yamaha Motor Finance Corporation, U.S.A. (YMFUS)

Yamaha Motor Distribution Latin America, Inc. (YDLA) Yamaha Motor Ventures & Laboratory Silicon Valley Inc. (YMVSV)

Canada

Yamaha Motor Canada Limited (YMCA) Yamaha Motor Canada Finance Limited (YMFCA)

CENTRAL and SOUTH AMERICA (Abbreviations)

Brazil

Yamaha Motor do Brasil Ltda. (YMDB) Yamaha Motor da Amazonia Ltda. (YMDA) Yamaha Motor Componentes da Amazonia Ltda. (YMCDA)

Yamaha Administradora de Consorcio S.C. Ltda. (YAC)

Banco Yamaha Motor do Brasil S.A. (BYMD)

Yamaha Motor do Brasil Corretora de Seguros Ltda. (YMDCS)

Yamaha Motor do Brasil Logistica Ltda. (YMBL) Yamaha Motor Electronics do Brasil Ltda. (YEBR) Argentina

Argent

Yamaha Motor Argentina S.A. (YMARG) **Peru**

Yamaha Motor del Peru S.A. (YMDP) Yamaha Motor Selva del Peru S.A. (YMSP)

Colombia

Industria Colombiana de Motocicletas Yamaha S.A. (Incolmotos Yamaha)

Mexico

Yamaha Motor de Mexico, S.A. de C.V. (YMMEX) Yamaha Motor Personnel Service Mexico S.A. de C.V. (YMPSMX)

Uruguay

Yamaha Motor Uruguay S.A. (YMUY)

History

1955

Yamaha Motor Co., Ltd. is founded with Genichi Kawakami as the first President. Production of our first motorcycle, the I25cc Yamaha "YA-I," commences.

YA-I wins the 3rd Mount Fuji Ascent Race and captures first, second and third place at the 1st All Japan Autobike Endurance Road Race.

I958

Takes 6th place in first attempt at Catalina Grand Prix in the U.S. (Yamaha's international racing debut).

Yamaha de Mexico S.A. de C.V. is established with investment by Nippon Gakki (presently Yamaha Corporation) and commences sales of Yamaha Motor products.

1960

Yamaha International Corporation (YIC) is founded in U.S. as subsidiary of Nippon Gakki and commences sales of Yamaha Motor products.

. First Yamaha outboard motor "P-7" is released.

First Yamaha FRP boat models "CAT-21" and "RUN-13" are released.

1961

New listing on First Section of Tokyo Stock Exchange.

First appearance in World GP road race. CAT-21 wins 1st Pacific 1,000 km Motorboat Marathon.

1963

Pearl Yamaha is founded in India. Wins first 250cc class race in World GP road race (Belgium GP).

1964

Captures first manufacturer and rider titles in 250cc class of the World GP road race. Siam Yamaha Co., Ltd. is founded in Thailand.

1965

Tie-up with Toyota Motor Co. to develop and manufacture "Toyota 2000GT." Model is displayed at the Tokyo Motor Show.

First Yamaha FRP fishing boat is built.

1966

Full export operations are transferred from Nippon Gakki to Yamaha Motor. Technical assistance agreement is signed with Kong Hsue Sheh to produce motorcycles in Taiwan.

I968

YMENV is founded in the Netherlands. First Yamaha snowmobile "SL350" is exhibited at Chicago Trade Show. First Yamaha FRP utility boat models "W-16" and "W-18" are released.

| 1969

First Yamaha multipurpose engine model "MT100" is released.

I970

YMDB is founded in Brazil.

I971

Haraban Motor Co. is founded in Indonesia.

I972

Headquarters is moved to present location in lwata City.

First win in Motocross World GP at Swedish GP (250cc class) and Luxembourg GP (500cc class).

I973

YMCA is founded in Canada.

Joint venture agreement is signed with Brunswick Co. (U.S.).

Wins first manufacturer and rider titles in 250cc class of the Motocross World GP. First Yamaha portable generator model

"ET1250" is released. First Yamaha racing kart model "RC100" is

released.

1974

Hisao Koike is appointed as second YMC president.

Wins manufacturer titles in all classes of World GP road race, 125cc, 250cc, 350cc and 500cc.

YIMM is founded in Indonesia as motorcycle parts maker.

Manufacture and sales of FRP pools commences.

I975

First Yamaha golf car model "YG292" is released.

I976

First Yamaha industrial robot model, an "arc welding robot," is released.

First Yamaha marine diesel "MD35" is released.

I977

YMC-related divisions of Yamaha International Corporation are separated to found Yamaha Motor Corporation, U.S.A. Captures manufacturer and rider titles for the first time in 500cc class of the Motocross World GP.

I978

First Yamaha land car model "G1-9AD" is released. First Yamaha snow thrower model "YT665"

is released.

I979

Yamaha's first ATV model "YTI25" is released in the U.S. "XT500" wins Ist Paris-Dakar Rally.

I981

SEMSA is founded in Spain.

I982

Motorcycle production and marketing tie-up with Motobecane (France).

I983

Hideto Eguchi is appointed as third YMC president.

YMDA is founded in Brazil.

Technical assistance agreement for motorcycle production is signed with China North Industries Group.

YMA is founded in Australia.

Technical assistance agreement for motorcycle production is signed with Escorts Ltd. in India.

I984

Contract is signed to develop, produce and supply automobile engines to Ford Motor Co. (U.S.).

Technical assistance contract is signed with Italy's Motori Minarelli.

1986

YMMC is founded in the U.S.

YMT is founded in Taiwan.

Technical assistance contract for motorcycle technology is signed with Italy's Belgarda S.p.A.

First Yamaha personal watercraft (PWC) "MJ-500T" is released.

1987

First Yamaha-made surface mounter "21 Series" is released.

First Yamaha gas heat pump (GHP) model "YGC401W" is released.

Limited production of Yamaha's first commercial-use unmanned helicopter "R-50" (20 units) is released.

| 1989

Machine mounting the Yamaha "OX88" racing engine competes in FI for the first time.

| 1990

Corporate Mission and long-term management vision are announced. YMP is founded in Portugal.

| 1991

YMF is founded in France. YMMEX is founded in Mexico.

1992

CJYM is founded in China. YMAG is founded in Austria. YMH is founded in Hungary.

| 1993

NYM is founded in China. Regionally limited release of the electrically power assisted bicycle "PAS."

1994

Takehiko Hasegawa is appointed as fourth YMC president. LYM is founded in China.

| 1995

Wheelchair electric power unit "JW-I" is released.

EYML is established in India.

- I996
 - YMARG is founded in Argentina.
- YMNI is founded in Indonesia.

1998

YMVN is founded in Vietnam. YMAP is founded in Singapore. YMDP is founded in Peru.



2000

Corporate ties with Toyota Motor Corp. are strengthened.

2001

Toru Hasegawa is appointed as fifth YMC president.

2002

Limited regional release of the electric commuter motorcycle "Passol." Manufacture of 50cc Japanese-market scooters

is shifted to Taiwan.

2004

Wins 1st MotoGP rider championship title.

2005

Takashi Kajikawa is appointed as sixth YMC president.

YMCIS is founded in Russia.

Life Science Laboratory is opened as research and development center for YMC's biotechnology business.

Yamaha captures MotoGP triple crown by winning the rider, team and manufacturer titles.

2006

Motorcycle manufacturing factory YMMWJ is founded in Indonesia.

Mass-production of microalgae as a source for the high-potential health additive Astaxanthin commences.

Yamaha Motor Foundation for Sports is founded.

2007

YMPH is founded in the Philippines.

Number of Employees

2008

YMKH is founded in Cambodia. IYM is founded in India.

2009

Tsuneji Togami is appointed as seventh YMC president.

Yamaha Marine Co., Ltd. is merged into YMC. YMTR is founded in Turkey.

2010

Hiroyuki Yanagi is appointed as eighth YMC president.

2011

YIME and YIMA Group companies are founded in Europe and the U.S. for Intelligent Machinery product sales.

Commences increased production of Japanese fishing boats to aid in recovery efforts from the Great East Japan Earthquake and Tsunami. Iwata South Factory engine assembly line is integrated into Iwata Main Factory.

2012

Design Center is established.

ASEAN Integrated Development Center (Thailand) and India Procurement Center are established.

Commences OEM supply of electrically power assisted bicycle drive units to European market.

Company founder Genichi Kawakami is inducted into Japan Automotive Hall of Fame.

2013

The "Revs your Heart" brand slogan is established.

Cumulative Yamaha outboard motor production passes 10 million mark.

YMRI is founded in India

YIMS is founded in China.

Kikugawa Test Course is completed.

2014

First leaning multi-wheel motorcycle "TRICITY" is released.

Aggregate production of automobile engines reaches 3 million units.

New motorcycle manufacturing plant in Argentina is completed and commences operations.

Next-generation compact, high-performance engine "BLUE CORE" is developed.

2015

Yamaha Jubilo Rugby Football Club wins the All-Japan Rugby Football Championship for the first time.

Motorcycle manufacturing and sales company YMPK commences operations in Pakistan. Motorcycle development company YMRID commences operations in Indonesia.

New company for new business development

YMVSV is founded in Silicon Valley, USA. New company Yamaha Motor MIRAI is founded to promote hiring of persons with disabilities.

2016

Aggregate production of Yamaha Performance Damper reaches one million units.

2017

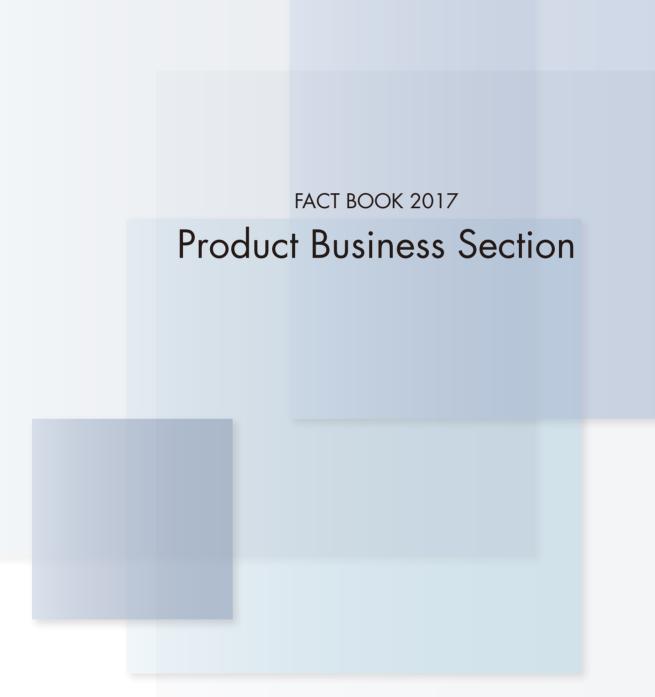
Yamaha Motor Innovation Center is opened. New Hamamatsu IM Base is opened.

Fiscal year	2012	2013	2014	2015	2016
Yamaha Motor Co., Ltd. (average age)	10,180 (41.4 years old)	10,245 (42.0 years old)	10,377 (42.3 years old)	10,440 (42.8 years old)	10,511 (43.0 years old)
Consolidated companies	43,778	43,137	42,285	42,866	42,639
Total	53,958	53,382	52,662	53,306	53,150

Number of Recruited Graduates (Yamaha Motor Co., Ltd.)

Fiscal year	2014	2015	2016	2017	2018 (Plan)
College graduates*	133	193	203	206	190
(For office work, marketing)	(45)	(55)	(48)	(60)	(55)
(For engineering, production-related work)	(88)	(138)	(155)	(146)	(135)
High school graduates	40	56	58	57	60
Total	173	249	261	263	250

* Includes graduate schools, two-year/technical colleges and specialized schools





Product Profile

Motorcycles play a familiar and vital role in the lives of people around the world, their applications spanning from pure utility, such as the transportation of goods, to personal enjoyment and sports. The Yamaha Motor group satisfies these needs with its diverse product lineup. Yamaha motorcycles are made to a variety of specifications, each type featuring unique technologies serving its particular use: scooters, used primarily for day-to-day mobility, such as commuting and shopping trips; sports and cruiser models, used widely in urban areas and for long-distance touring; trail models for off-road excursions; and racing machines for road racing, motocross and other competitions.

Background of the Business

During World War II, Nippon Gakki Co., Ltd. (founded in 1897, presently Yamaha Corporation), the company from which Yamaha Motor was later spun off, was assigned to apply its technologies in musical instrument manufacturing to the production of propellers for military aircraft. After the War ended, the company sought ways to use its manufacturing facilities for peaceful ends. Eventually, it entered the motorcycle business as the motorcycle manufacturing division of Nippon Gakki. The company's first motorcycle model, the YA-I,

Japan Motorcycle License Types and Regulations

got off to a successful start, winning in its debut entries at Japan's top two motorcycle races at the time, while also receiving high acclaim for its product quality. To scale up production and market the YA-I, Yamaha Motor Co., Ltd. was established. Some years later, in 1961, Yamaha entered its first World GP race. Since then and to this day, Yamaha has continued to challenge itself on the racing scene, making the art of engineering based on technologies and know-how a hallmark of the Yamaha brand.

Current Business and Market Conditions |apan

Looking at the market as a whole, scooters with an engine displacement of 50cc and under (class I), which are used primarily for commuting and work-related activities, occupy almost half of all unit sales. Motorcycles with an engine capacity of 51cc or larger fall into a number of categories, from scooters to large motorcycles and sports models for personal enjoyment. The Japanese market is also unique in that it has a driver's license restricted to operation of AT (automatic transmission) motorcycles. In recent years, large motorcycles for riders interested in touring and sport riding as well as highly practical 125cc scooters have been popular.

Displacement	50cc and under	Over 50cc to I25cc and under	Over 125cc to 250cc and under	Over 250cc to 400cc and under	Over 400cc
Road Traffic Act designation	Moped		Regular motorcycle		Large motorcycle
Road Transport Vehicle Act designation	Class I moped	Class II moped	Light two-wheeled vehicle	Compact two-	wheeled vehicle
License required	Moped license	Regular motorcycle license		Large motorcycle license	
Speed limit on normal roads	30 km/h	60 km/h			
Legal number of riders	I.	2 (excluding vehicles with no rear seat)			
Highway usage	Prohi	hibited Allowed			
Two-step right turn	Required	Prohibited			
Curbside lane usage	Required	Not required			
Vehicle inspection		Not required		Requ	uired



Europe

As one would expect from the birthplace of motorcycles, motorcycles have a well-established place in European society as part of the culture. The market is characterized by widespread use of motorcycles among riders of all ages as a commuter vehicle and as means for recreation, from touring through the countryside to circuit racing and other sports. Motorsports are also popular there. Over half of the MotoGP racing series, the world's premier motorcycle racing championship, is held in Europe.

North America

The North American market is characterized by its predominance of motorcycle enthusiasts. Cruisers, with their low-riding seats and long bodies—perfectly suited for riding on long stretches of straight, open road—are a representative category, but there is also a large segment of users who enjoy riding off-road or on mountainous terrain for sport or recreation. The popularity and extensive variety of motorsports practices by professionals and amateurs alike is another unique quality of the North American market.

ASEAN Region

In the ASEAN region, motorcycles are a primary mode of transportation for commuting to work and school and for daily living in many communities. They also serve an important role as social infrastructure, assisting the flow of goods and services. Practical, smaller displacement motorcycles around 125cc are traditionally the mainstream choice. However, since the turn of the century there has been a growing segment of users resembling those in developed markets who favor more personalized and luxurious features. Yamaha was quick to introduce automatic transmission motorcycles to this market, and is now recognized as a leading company.

China

With domestic demand for new motorcycles around 8 million units annually, China is the world's second largest motorcycle market and home to numerous motorcycle makers. Demand for scooters, which previously accounted for roughly 10% of total demand, grew to almost 40% of demand during 2016, and is expected to continue to increase going forward.

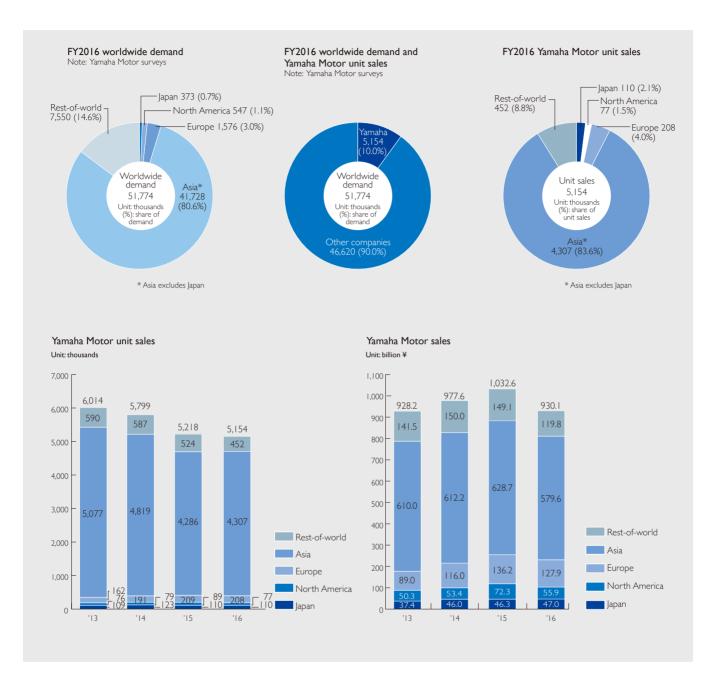
In addition, with growing awareness of environmental issues, the number of users selecting fuel injection-equipped models is increasing, and Yamaha is pursuing a product strategy that focuses on attracting these customers.

India

India has become the world's largest motorcycle market, with total demand for new models reaching about 18 million units in 2016. The scooter category in particular, is showing remarkable growth, and now accounts for roughly 30% of total demand. With the country's development having entered a period of increased motorization, Yamaha has introduced new scooters every year since 2012, and these models have been well received, particularly by young customers. Yamaha is also working to increase sales by expanding its lineup of lower priced, more affordable models.

Production

ntry	Name of company (Factory)
an	Yamaha Motor Co., Ltd. (Iwata Main Factory)
France	MBK Industrie
Indonesia	PT. Yamaha Indonesia Motor Manufacturing
Thailand	Thai Yamaha Motor Co., Ltd.
Vietnam	Yamaha Motor Vietnam Co., Ltd.
Philippines	Yamaha Motor Philippines, Inc.
Malaysia	Hong Leong Yamaha Motor Sdn. Bhd.
Taiwan	Yamaha Motor Taiwan Co., Ltd.
	Chongqing Jianshe Yamaha Motor Co., Ltd.
China	Zhuzhou Jianshe Yamaha Motor Co., Ltd.
	Jiangsu Linhai Yamaha Motor Co., Ltd.
India	India Yamaha Motor Pvt. Ltd.
Pakistan	Yamaha Motor Pakistan Private Ltd.
Brazil	Yamaha Motor da Amazonia Ltda.
Mexico	Yamaha Motor de Mexico, S.A. de C.V.
Colombia	Industria Colombiana de Motocicletas Yamaha S.A.
Argentina	Yamaha Motor Argentina S.A.
Nigeria	CFAO Yamaha Motor Nigeria Ltd.
	an France Indonesia Thailand Vietnam Philippines Malaysia Taiwan China China India Pakistan Brazil Mexico Colombia Argentina











DW-480-0A fishing boat

SR-X 24 multipurpose boat

EXULT36 large boat

Product Profile

Boats are used for two major purposes: commercial use and leisure. Commercial boats can be categorized roughly into Japanese-style utility boats and fishing boats, both of which are an indispensable part of the everyday lives of fishermen. Recreational boats include powerboats, used for activities from sport fishing to cruising and waterskiing, and sailboats.

Background of the Business

Since the latter part of the 1950s, Yamaha started joint research and development of FRP (Fiber Reinforced Plastics)—a promising new material at the time—with Nippon Gakki Co., Ltd. (presently Yamaha Corporation), and in 1960 began producing and marketing FRP boats. In 1965, the Company also started production of sailboats and fishing boats.

Yamaha Motor has continuously developed and designed its products using performance simulation and 3D CAD systems, and introduced new manufacturing technologies to reduce the environmental impacts of production.

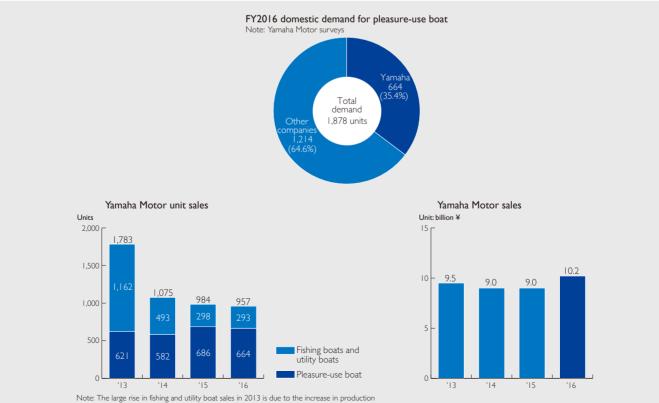
Current Business and Market Conditions

In Japan, Yamaha Motor is a full-spectrum marine manufacturer, offering a full lineup of products in all categories, from fishing and utility boats—with hulls designed to fit each region's fishing methods—to large recreational sports boats and sailing cruisers. The business is also currently expanding into overseas markets primarily in the ASEAN region and China.

Production

	Name of company	Location
Fishing boats, utility boats	Yamaki Manufacturing Co., Ltd.*'	Yakumo, Hokkaido, Japan
Small boats, utility boats	Yamaha Amakusa Manufacturing Co., Ltd.*'	Kamiamakusa, Kumamoto, Japan
Medium-size and large boats	YM Shido Co., Ltd.*2	Sanuki, Kagawa, Japan

*I Group company *2 Contract manufacturer



ote: I he large rise in fishing and utility boat sales in 2013 is due to the increase in production to assist in the recovery efforts from the Great East Japan Earthquake and Tsunami.

13

Marine Engines



Product Profile

Marine engines used to propel boats can be categorized into three types: outboard motors, stern drives (inboard-outboard motors), and inboard motors. Outboard motors, which are suited for small to medium-size boats, are mainly known for their excellent affordability, environmental friendliness, ease of maintenance and high space efficiency and are used by a variety of people all over the world. In developed regions like Europe and North America, they are primarily used for leisure, while in emerging countries they are predominantly used for fishing and transport/transportation.

Background of the Business

Applying its small engine technology developed for motorcycles, Yamaha Motor released its first marine engine, the small outboard engine P-7, in 1960. In the more than half-century that followed, the Company has expanded its marine engine lineup to suit manifold uses and conditions in the various locations they are used, focusing especially on outboard motors, including models with increasingly large horsepower and models that have better fuel efficiency and are designed to withstand more extreme environments. Cumulative production of Yamaha outboard motors reached 10 million units in April 2013.

Current Business and Market Conditions

More than 90% of Yamaha outboard motors are exported to markets worldwide, where they are currently being sold in about 180 countries and territories. Their applications cover everything from fishing to leisure, and include the more simply constructed 2-stroke models suitable for operating environments in emerging countries, 4-stroke models which are in high demand in developed countries and also offer exceptional environmental performance, as well as electric models used for freshwater and inshore fishing and other activities. Yamaha Motor also offers a complete lineup of inboard and stern drive motors for everything from commercial applications to recreational boating.

Also, among our products installed on boats to complement outboard motors is an information management system that relays engine and navigational statuses to the driver, and a boat control system that assists in maneuvering medium-size to large boats at low speeds through narrow areas.

Environmental Compliance

Yamaha Motor offers a full line of products that comply with voluntary restrictions set by the Japan Marine Industry Association, as well as standards set by 2010 EPA (United States Environmental Protection Agency) regulations on exhaust emissions and 2008 CARB (California Air Resources Board) regulations.

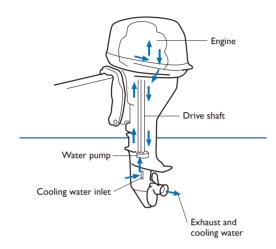
Production

	Name of company (Factory)	Location
Medium-size and large 4-stroke outboard motors and large 2-stroke outboard motors	Yamaha Motor Co., Ltd. (Fukuroi South Factory)	Fukuroi, Shizuoka, Japan
Small 4-stroke outboard motors and small and medium-size 2-stroke outboard motors	Yamaha Kumamoto Products Co., Ltd.*	Yatsushiro, Kumamoto, Japan

* Group company

Outboard Motor Cooling Structure and Features

An outboard motor brings in water from the outside and uses it to cool the engine. This is the main difference between outboards and land vehicles with liquid-cooled engines like motorcycles.



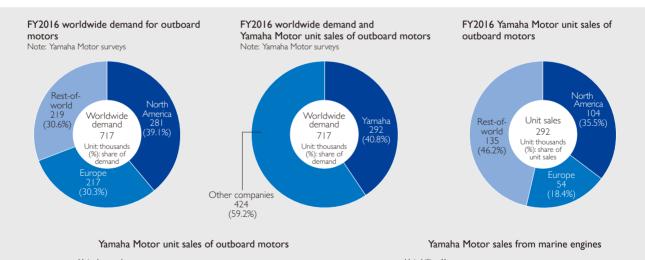
Helm Master Boat Control System

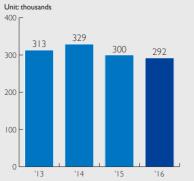


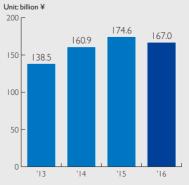
SR320FB cruiser featuring Helm Master

The Helm Master digitally controls all the steering, gear shifting and throttle work of twin or triple mount large-class Yamaha outboards. Complementing the standard steering and remote control unit, the single joystick control enables fore-aft, port-starboard and diagonal motion as well as in-place rotation of the bow.









Personal Watercraft



MJ-GP1800 personal watercraft

Product Profile

Personal watercraft (or PWC) come in two varieties: one that requires the rider to stand (one-person capacity), and another that is ridden from a seated position (up to three people). PWC mount a small engine, but rather than using a propeller for propulsion they draw in water from the intake section at the bottom of the hull and shoot it out from the back with a jet-propulsion mechanism. The Yamaha 242 Limited S is a sport boat that uses the same kind of propulsion system.

Background of the Business

In 1986, Yamaha Motor launched its first product, the MJ-500T. The product's marketing concept, "A water vessel anyone can ride, with assurance and convenience," was welcomed by markets and effectively expanded the enjoyment of marine recreation beyond existing mainstream activities like cruising and fishing. PWC attract many users, mainly in North America.



242 LIMITED S E-Series sport boat

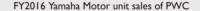
Current Business and Market Conditions

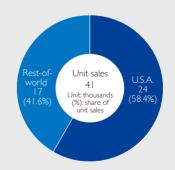
Yamaha PWC feature a highly stable and streamlined body built on technologies Yamaha Motor developed for boats, and a compact, lightweight, yet powerful engine utilizing the Company's motorcycle and marine engine technologies. Most Yamaha PWC employ 4-stroke engines. These models meet environmental regulations in the U.S. and Japan, the largest markets, which include U.S. EPA (Environmental Protection Agency) regulations and Japan Marine Industry Association voluntary regulations.

Production

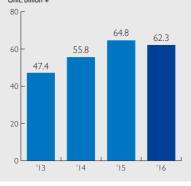
	Name of company (Factory)	Location
Engines	Yamaha Motor Co., Ltd. (Iwata South Factory)	lwata, Shizuoka, Japan
Hulls	Yamaha Motor Manufacturing Corporation of America*	Georgia, U.S.A.
mulis	Yamaha Jet Boat Manufacturing U.S.A., Inc.*	Tennessee, U.S.A.

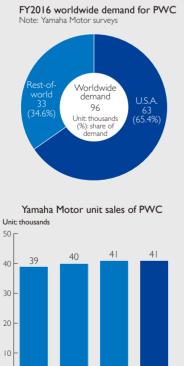
* Group company





Yamaha Motor sales from PWC Unit: billion ¥





'14

'15

0 '13



'16

Swimming Pools



School pools



Children's pools

Product Profile

In Japan, school swimming pools, children's pools, leisure pools, pools for health and rehabilitative use, competition pools and pool renovation form the major demand for this segment. By material, pools can be categorized into FRP (Fiber Reinforced Plastics) pools, metal pools and concrete pools.

[Reference] Advantages of FRP Pools

FRP is a strong, lightweight material that molds easily. FRP pools are resistant to weathering and earthquakes and retain moisture well. Construction time is also shorter because the units from the factory are simply assembled on-site.

Background of the Business

Utilizing FRP technologies cultivated in its boat development and manufacturing, Yamaha Motor commercially released Japan's first 100% FRP pool in 1974. Yamaha has supplied a large number of pools across Japan over the past 42 years.

As of the end of 2016, we had shipped a total of 6,068 school pools, making us Japan's top supplier.



Flat pools (GRANSCINA)



Leisure pools

Current Business and Market Conditions

As pools at public facilities, kindergartens and nursery schools, and elementary and junior high schools increasingly deteriorate, demand for new construction and renovations is increasing. Pools are also being used at social welfare facilities and medical institutions for safe walking and exercise to improve the health of the elderly and persons with disabilities.

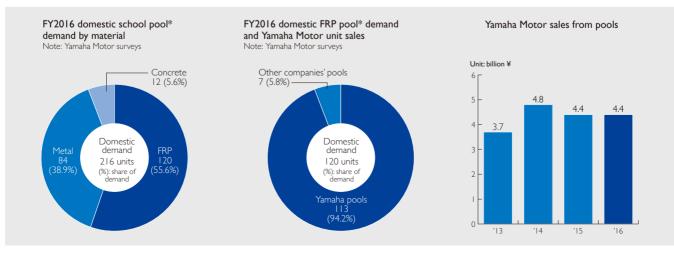
Yamaha Motor is proactively expanding its product lineup with pools for a variety of purposes for different generations and lifestyles, while at the same time introducing new technologies and equipment to make pools environmentally friendly through re-use and recycling.

We also provide maintenance and other operations for public pool facilities, and are utilizing the expertise we have developed through these operations in new products.

As a leading pool company, Yamaha offers total support, from planning and design to manufacturing, installation, and after-sales service.

Production

Name of company (Site)	Location
Yamaha Motor Co., Ltd. (Arai Site)	Kosai, Shizuoka, Japan



* Longer than 20m

All-Terrain Vehicles & Recreational Off-highway Vehicles



Grizzly



YXZI000R



Wolverine R-Spec

Product Profile

All-Terrain Vehicles (ATVs) and Recreational Off-highway Vehicles (ROVs) are off-road-specific vehicles capable of handling all sorts of unpaved or rough terrain found in grasslands, mountain trails, sandy areas, etc. ATVs seat one rider and have a steering system with handlebars, etc., similar to a motorcycle, while ROVs are designed to fit two or more people and have a steering wheel system, etc., similar to an automobile. Both are used in a wide range of ways, from leisure and sport riding to utility work in the agriculture industry, etc.

Background of the Business

Yamaha's ATVs were developed using technologies created and matured in the process of developing and manufacturing off-road motorcycles. Sales of Yamaha ATVs began in the U.S. in 1979 with Yamaha Motor's first ATV, the YTI25. Since then, Yamaha has gone on to market a variety of ATV models that answer real market needs. In the ROV segment, following the releases of the multi-purpose VIKING and VIKING VI, and the recreational Wolverine model, we began selling the YXZ1000R pure sports model in

Rest-0

Unit: thousands

FY2016 worldwide demand for ATVs



Current Business and Market Conditions

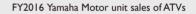
The U.S. market accounts for more than 40% of worldwide ATV demand due to its large stretches of natural terrain, unpaved roads, and large ranches and farms all over the country. Yamaha Motor meets these diverse needs with its wide range of products that include utility models, sports models and more.

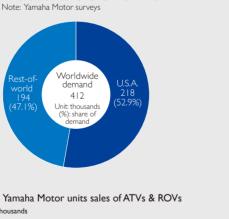
The main market for ROVs is also the U.S. In addition to demand as a vehicle for outdoor recreation, there is stable demand for ROVs as vehicles for utility use in a variety of industries, and market scale is growing year after year.

Production

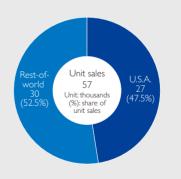
Name of company	Location
Yamaha Motor Manufacturing Corporation of America*	Georgia, U.S.A.

* Group company

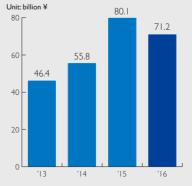








Yamaha Motor sales from ATVs & ROVs





Product Profile

The snowmobile uses two skis at the front for changing directions and track belts at the rear for engine-driven propulsion. It has developed into a mode of transportation for people in snowy areas, and also as a source of motorsports and leisure enjoyment. Applications can be broken down roughly into leisure and utility. Additionally, in Japan, snowmobiles are also used in winter for power line maintenance, for spreading snow-melting agents on cultivated areas, for fish farming in frozen lakes, etc.

Background of the Business

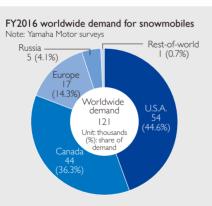
Applying the engine technologies it had developed for motorcycles, Yamaha Motor released its first snowmobile model, the SL350, in 1968 and its first model for recreational use in 1970. Since then the Company has worked to expand its lineup, catering to a variety of needs as the only snowmobile manufacturer (of completely built up units) in Japan.

Current Business and Market Conditions

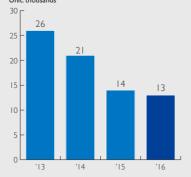
While North America, Russia and the Scandinavian countries of Sweden, Norway and Finland constitute the largest markets, Yamaha snowmobiles are sold in over 30 countries worldwide, including Japan and other countries throughout Europe and Asia. In recent years, there have been greater calls for better environmental performance from snowmobiles as well. Yamaha Motor has answered this by continuing to pioneer the development of models with 4-stroke engines.

Production

Name of company (Factory)	Location
Yamaha Motor Co., Ltd. (Iwata Main Factory)	lwata, Shizuoka, Japan



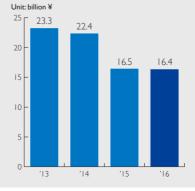
Yamaha Motor unit sales of snowmobiles Unit: thousands



FY2016 Yamaha Motor unit sales of snowmobiles



Yamaha Motor sales from snowmobiles



Golf Cars



Product Profile

Golf cars have become popular on golf courses today because they save labor, let golfers transport their own clubs, lighten work for caddies, and encourage smoother, more enjoyable rounds. Various specifications are available based on market and consumer (golf clubs and resorts) needs. Options include passenger capacity (1, 2, or 5 passengers), the power unit (gasoline engine or electric motor) and the operating system (electromagnetic guidance or manual).

Background of the Business

In 1972, Yamaha Motor began developing a land car for use at a resort owned and operated by Nippon Gakki (presently Yamaha Corporation), later segueing into the development of golf cars, which the Company released for the first time in 1975 with its YG292 model. Subsequently, as the business has grown, in addition to production at our factory in Japan, we commenced production at a factory in the United States in 1988 followed by Thailand in 2015, and have now produced more than one million golf cars in total.



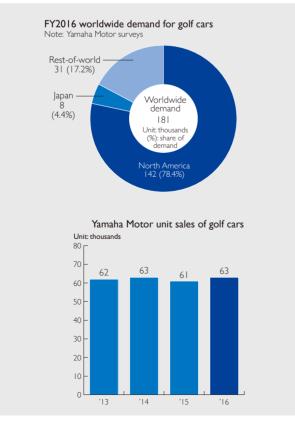
Drive2 (two-passenger model) Current Business and Market Conditions

In Japan, demand is highest for five-passenger models, which also carry caddies, and in the U.S, where caddies are often not used, demand is highest for two-passenger models. Working to create an easier, more comfortable round for golfers, Yamaha Motor introduced in 1996 a model that can be remote control operated, with an electromagnetic guidance system that uses mounted sensors to automatically trace electric cables buried underground. In 2000, the Company introduced a more environmentally friendly model equipped with a much quieter electric motor.

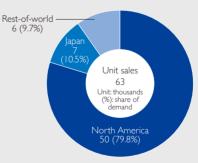
Production

Name of company	Location
Yamaha Motor Powered Products Co., Ltd.*	Kakegawa, Shizuoka, Japan
Yamaha Motor Manufacturing Corporation of America*	Georgia, U.S.A.

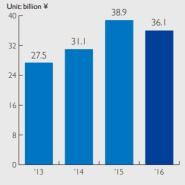
* Group company



FY2016 Yamaha Motor unit sales of golf cars



Yamaha Motor sales from golf cars







EF1600iS

Product Profile

Yamaha generators use a small engine powered by gasoline and gas cartridges to generate electricity. Models offered include everything from light and compact generators that can be carried around with one hand, to utility generators used as a power source for tools and lighting equipment at construction sites and in other settings. Yamaha Motor also provides inverter-type generators, which can be used as a power source for computers and other precision electronic equipment. These generators are also indispensable as an emergency power source during power outages and in disaster areas.

Background of the Business

Building on its small engine technologies, Yamaha Motor released its first generator model, the ETI250, in 1973.

Current Business and Market Conditions

As needs for generators expand beyond business applications, these products now need to be quieter, easier to operate, and applicable



to a broader range of operating environments in addition to offering sufficient durability, reliability, and quality sustained power. Meanwhile, Yamaha Motor is actively developing new 4-stroke and invertertype models that meet voluntary regulations set by the Japan Land Engine Manufacturers Association and other strict emissions standards adopted around the world.

Production

Name of company	Location
Yamaha Motor Powered Products Co., Ltd.*	Kakegawa, Shizuoka, Japan
Yamaha Motor Powered Products (Jiangsu) Co., Ltd.*	Jiangsu, China

* Group company

Snow Throwers



YS-1390AR

Product Profile

Snow throwers make living out the winter easier in snow-bound regions such as Hokkaido, Tohoku, Kita-Kanto, Koushinetsu, Hokuriku, and Sanin in Japan. Yamaha Motor offers a broad range of snow thrower models, from compact units handy for clearing porches and walkways at home to large models suited for commercial use.

Background of the Business

Utilizing its small engine technologies, Yamaha Motor released its first snow thrower model, the YT665, in 1978.



YS-860B

Current Business and Market Conditions

Yamaha Motor offers a total of 12 snow thrower models, ranging from a compact 2-horsepower home-use unit to a 13-horsepower commercial-use model. Yamaha snow throwers have been recognized for the materials and construction of their various components, their exceptional cold-weather performance, and unique designs that enable quiet operation—advantages made possible with the Company's snowmobile manufacturing expertise.

Production

Name of company	Location
Yamaha Motor Powered Products Co., Ltd.*	Kakegawa, Shizuoka, Japan
Yamaha Motor Powered Products (Jiangsu) Co., Ltd.*	Jiangsu, China

* Group company

Electrically Power Assisted Bicycles



PAS Kiss mini un



PAS Babby un



PAS Natura XL Deluxe





YPJ-C

Product Profile

Electrically power assisted bicycles are bicycles equipped with a motor and battery that supply power to assist the rider's pedaling. The Yamaha PAS* released in 1993 was the first electrically power assisted bicycle in the world. Yamaha PAS bicycles are not only easy-touse and convenient, they also effectively eliminate the major drawbacks of conventional bicycles (difficulty in riding uphill, against the wind, or when carrying cargo), making them accessible to virtually everyone. Electrically power assisted bicycles are gaining popularity as a new category of commuter vehicle for people of all ages, facilitating various forms of personal transportation—commuting to and from work or school, taking children to kindergarten and back home, shopping, pleasure, and even for running errands in the city.

* The "PAS" product name is the acronym for "Power Assist System."

Background of the Business

In the 1980s, a new consciousness emerged around global environmental problems such as energy conservation and societal challenges such as Japan's aging population and low birthrate. This spurred Yamaha Motor's efforts to develop a new vehicle that transcended the boundaries set by conventional product categories. Deploying a new development concept that focused on providing a "peoplefriendly, environmentally friendly vehicle that puts human perceptions first," Yamaha Motor launched in 1993 the world's first electrically power assisted bicycle. Since then, the Company has pioneered the market through technological improvements and by driving demand; by the end of 2008, Yamaha Motor had sold over one million units. In 2014, we developed next-generation drive units based on the new GREEN CORE concept—creating units that are compact, lightweight and highly functional, and offer an enjoyable drive while being environmentally friendly, and in 2015, these units were introduced in main PAS models. In 2015, we launched the YPJ brand as a new concept in sports-type electrically power assisted bicycles with the YPJ-R as its first model, and followed this in 2016 with the release of the hybrid YPJ-C. In addition, control technologies developed in this field are being applied to other Yamaha products in the electric wheelchair and electric motorcycle segments.

Current Business and Market Conditions

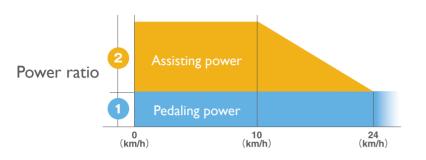
Since developing and releasing the world's first electrically power assisted bicycle in 1993, Yamaha Motor has enhanced its PAS lineup and made a variety of advances with the evolution of the product.

In addition to expanding the scope of users and usages, demands for electrically power assisted bicycles are diversifying in line with social developments, including heightened awareness of health and environmental issues, changes in transportation environments, and high prices for gasoline, and the market is expanding as a result.

At the same time, legal standards for electrically power assisted bicycles have changed, including the revision of a law regulating the assist ratio of electrically power assisted bicycles in 2008 and the establishment of a safety standard for bicycles with two infant seats in 2009.

In addition to sales of complete bicycles and supply of the drive units on an OEM basis in Japan, in 2012, Yamaha Motor began OEM supply of drive units to a major manufacturer for use in Europe, one of the world's leading markets for electrically power assisted bicycles (where Germany and the Netherlands account for more than 50% of overall demand). Yamaha's unit sales have been increasing in line with the growth of the European market, and the business is expanding globally.

Note: In Europe, electrically power assisted bicycles are called "e-bikes."



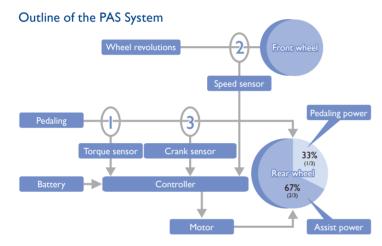
Assistance Ratio as Set by Legal Standards in Japan

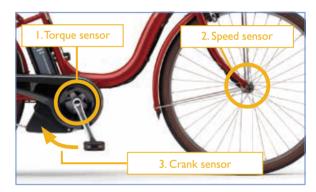
Up to 10 km/h, electric power assists pedaling at a maximum ratio of 1:2* Above 10 km/h, electric power assist

is moderated to keep the bicycle from going too fast

Above 24 km/h, electric power assist is cut off

* The maximum ratio set by legal standards





I. Detects the amount of force applied to the pedals

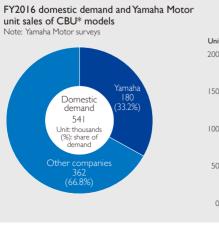
2. Detects the speed of the bicycle while in motion

3. Detects the rotation speed of the pedals (crank)

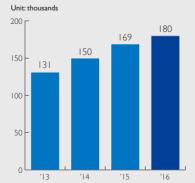
Production

	Name of company	Location
PAS drive units	Yamaha Motor Electronics Co., Ltd.*	Morimachi, Shizuoka, Japan

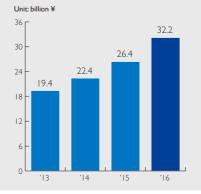
* Group company



FY2016 Yamaha Motor unit sales of CBU* models



Yamaha Motor sales from SPV business (PAS and other)



* CBU: Completely Built Up

Electric Wheelchairs



JW Active PLUS+ electric wheelchair

Product Profile

Wheelchairs, which facilitate the mobility of the elderly and persons with disabilities, are broadly divided into manual and electrically powered types. Yamaha Motor's Joy Wheel (JW) series, which brings a new dimension to the world of wheelchairs by combining the light weight and flexibility of manual wheelchairs with the power and ease of use of electrically powered models, includes both electric power units and completely assembled electric wheelchairs. Electric power units come in two types: power units that convert manual wheelchairs into electrically powered wheelchairs, and power assist units that make manual wheelchairs easier to use.

- Electric Power Type -

These units add electric power to facilitate the use of manual wheelchairs while retaining manual wheelchairs' convenience of being able to fold and carry. The unit consists of a joystick for operation, two wheels with a built-in motor and clutch system, and a compact, lightweight battery.

These power units can be attached to a variety of wheelchair models, for smooth operation using a single joystick.



JWX-I PLUS+ electric power unit and unit mounted on wheelchair

- Assist Type -

Power assist units use electric power to supplement the turning of the handrims of a manual wheelchair, using the same Power Assist System as Yamaha's electrically power assisted bicycles (PAS). The units consist of a motor and clutch built into the wheel hub assembly, a handrim torque sensor, and a compact, lightweight battery.

The user can switch between the JW Smart Tune optimal assist mode and two other drive modes, for ease of use suited to each user. The wheelchair can still be operated manually as well, a useful feature that makes it easy to handle and quite popular.



JW Swing electric assist wheelchair



JWX-2 electric power assist unit and unit mounted on wheelchair

Background of the Business

Applying its proprietary control and drive technologies to contribute to the health and social welfare of an aging population, Yamaha Motor began limited-area marketing of power units for manual wheelchairs in 1995 (followed by nationwide sales from 1996).

Since then, we have applied our proprietary advanced control and drive technologies to offer electric wheelchairs that are comfortable and convenient for users, and also minimize the effort required by caregivers.

Current Business and Market Conditions

In Japan, most electric wheelchairs are used by persons with disabilities as certified mobility aids (eligible for government subsidies) or rented by the elderly under the long-term care insurance system.

Outside Japan, Yamaha supplies power units to manufacturers in the United States, Europe and other countries on an OEM basis.

Production

Name of company (Site)	Location
Yamaha Motor Co., Ltd. (Iwata Main Factory)	lwata, Shizuoka, Japan

Industrial Machinery and Robots





Automated optical inspection systems

Product Profile

Surface mounters are industrial robots that are designed to mount electronic components onto printed circuit boards used in the electrical components for mobile phones, automobiles, and other electronic products. Yamaha Motor has a full lineup of industrial robots, comprising single-axis robots, cartesian robots, SCARA robots, multi-axis vertically articulated robots, and linear conveyor modules, which are used in a variety of manufacturing processes including conveyance, supply, assembly, and inspection.

Background of the Business

Yamaha Motor began research and development of industrial robots in 1974 to streamline the production of its motorcycles and improve manufacturing precision. In 1976, the Company introduced SCARA robots in-house to assemble parts on its motorcycle production lines, and in 1981 entered the industrial robot business. In 1987, the Company began marketing surface mounters, the cumulative sales of which had reached 30,000 units by 2012.

Current Business and Market Conditions

Surface mounters, Yamaha Motor's core product in this business segment, are high-speed modular units that boast superior mounting speed in both standalone applications and multiple-unit configurations. Yamaha Motor commands the largest market share for generalpurpose surface mounters. Along with a full line of surface mounters to meet changing market needs from high-speed, large-volume manufacturing to multipurpose, highly generalized manufacturing, we are expanding the business to manufacture a full lineup of chip mounting equipment from screen printers and dispensers to testers.

Yamaha stands out for its full lineup of industrial robots, from single-axis robots to multi-axis vertically articulated robots. These robots are used in a broad range of areas, including the automotive, electric and electronic, and food industries, and are making major contributions to the automation of manufacturing processes. In 2016, Yamaha announced the Advanced Robotics Automation Platform, which makes it possible to control robots, peripheral equipment, and operations from a single platform, and we continue to pursue solutions for the overall optimization of manufacturing equipment.



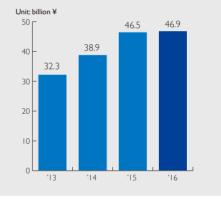


Multi-axis vertically articulated robots

Production

Name of company (Site)	Location
Yamaha Motor Co., Ltd. (Hamamatsu IM Base)	Hamamatsu, Shizuoka, Japan

Yamaha Motor sales from industrial machinery and robots



Automobile Engines





Automobile engines

Performance dampers

Product Profile

Yamaha Motor's automobile engines feature high revolution speeds and high power, reflecting engine technologies the Company has acquired over the years through manufacturing motorcycles. The engine mounted on the Lexus LFA supercar (developed jointly with Toyota Motor Corporation) is the most recent example of these products. Yamaha Motor also develops and manufactures suspension systems and other products using related technologies. The Company's performance damper, which enhances a car's performance by creating a smoother, more comfortable ride, is highly regarded in the industry. The performance damper is featured on a wide range of cars from both domestic and overseas manufacturers, and aggregate production volume reached one million units in November 2016.

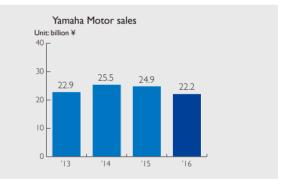
Background of the Business

Ever since its founding, Yamaha Motor has amassed various technologies through its motorcycle development activities. Meanwhile, the Company has also conducted research and development of enginerelated technologies for automobiles. In 1967, the Company entered a development and manufacturing venture for the Toyota 2000GT sports car together with Toyota Motor Corporation (then known as Toyota Motor Co., Ltd.). This had the effect of spurring further collaborative work with automobile makers. In 1989, Yamaha Motor also started participating in Formula One, the world's premier car racing series. In these ways, the Company has been a perpetual agent of innovation in automobile engine technologies.

Production

	Name of company (Factory)	Location
Engine	Yamaha Motor Co., Ltd.	lwata,
assembly	(Iwata Main Factory)	Shizuoka, Japan
Engine	Yamaha Motor Co., Ltd.	Fukuroi,
processing	(Fukuroi Factory)	Shizuoka, Japan
Performance	Yamaha Motor Hydraulic	Morimachi,
dampers	System Co., Ltd.*	Shizuoka, Japan

* Group company



Other Products

Parts and Accessories



Yamaha Motor sells replacement parts for its motorcycles, boats and other products, as well as accessories such as helmets and apparel.

Pleasure-use Boat Mooring Equipment



Yamaha Motor sells equipment used in marina applications, such as pontoons.

Industrial-use Unmanned Helicopters



FAZER R



Transmitter



Test spraying at a vineyard in the United States

Product Profile

For its industrial-use unmanned helicopters, Yamaha Motor has developed support systems that incorporate a GPS-based speed control function for more stable operation, as well as altitude control systems that enable unmatched ease of operation and flying stability. These achievements bring to bear the various control technologies that are one of the core competencies of Yamaha Motor.

The new FAZER R, released in 2016, can carry a chemical payload of 32 liters, the largest of any of Yamaha Motor's industrialuse unmanned helicopters to date. For agricultural crop dusting, this makes it possible to cover four hectares without any additional agricultural chemicals and refueling, making crop dusting operations significantly more efficient and less labor-intensive.

- Agricultural Applications -

Major users include municipalities, National Federation of Agricultural Cooperative Associations, agricultural cooperatives, crop-dusting organizations and individual farmers. Their primary application is spraying agricultural chemicals. Yamaha industrial-use unmanned helicopters used in agriculture make jobs more efficient and thus help to improve productivity and reduce labor.

- Observational and Surveying Applications -

Yamaha Motor provides municipalities, university research institutions, and other organizations with services for using industrial-use unmanned helicopters to conduct observations, surveys and other related applications.

Background of the Business

In the early 1980s, Yamaha Motor was commissioned by a government organization to develop an industrial-use unmanned helicopter that could easily perform agricultural crop dusting operations. In 1987, the Company practicalized the world's first industrial-use unmanned helicopter, the R-50, and commenced full-scale marketing of the product in 1989.

Since then, Yamaha has become a leading company in the business. Our industrial-use unmanned helicopters have contributed to the modernization of Japan's agriculture industry and their use has expanded to include aerial observation and survey work. In recent years, the Company has been promoting use of the helicopters for overseas agriculture markets.

Production

	Name of company	Location
Engines, transmissions, etc.	Yamaha Motor Powered Products Co., Ltd.*	Kakegawa, Shizuoka, Japan
Control, electric related	Yamaha Motor Electronics Co., Ltd.*	Morimachi, Shizuoka, Japan

* Group company

Water Purifiers and Water Purification Systems



Yamaha Motor manufactures and markets water purifiers to improve the quality of living in Africa, Southeast Asia and other regions where access to potable water is limited.

Racing Kart Engines



Yamaha Motor manufactures and sells engines for racing karts, entrylevel machines often used to gain access to more challenging fourwheel motorsports.





Japanese: https://global.yamaha-motor.com/jp/ English: https://global.yamaha-motor.com/

