Our passion for manufacturing is timeless and will never change.

1915

Since being founded in 1915, Yaskawa Electric has set “electric motors and their applications” as its business domain and supported the leading-edge industries of the age. In order to engage in business with its own technology, the company established a creed of “becoming a technology-centered company,” proposed the concept of “mechatronics,”” ahead of the rest of the world, and has maintained quality-first management with the determination to develop the world’s first-in-class and revolutionary technologies and products. Yaskawa’s core technologies are “motion control,” “robotics,” and “power conversion.” These technologies and products born and created out of our search for elaborate control of mechanical movements contribute on a daily basis to improvements in the quality and efficiency of manufacturing around the world. We will continue to evolve technology and contribute to development of the world through our new solutions.

* In the late 1940s, Yaskawa Electric led the world in putting forward this concept fusing “mechanism” and “electronics.” This concept evolved when we combined our customers’ machinery with Yaskawa’s electric products to create superior quality and functions.

1917 Commercialized three-phase induction motor

2019

2017 Small robot MotaMINI

2017 Collaborative robot MWT100T

AC servo drives & controllers
AC drives
Robotics
System engineering
Environmental and energy equipment

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Our Vision

We will provide new value to society by integrating the evolution of core technologies and open innovation.

In 2015, the 100-year anniversary of our company’s founding, the Company saw a dramatic change in the business environment as an opportunity and adopted the “Vision 2025” as a blueprint for its future management. In 2019, we reviewed the “Vision 2025” to clarify our company’s vision. In this review, we reconfirmed our company’s vision and established “factory automation and optimization” and “application area of mechatronics” centered on mechatronics as business domains. Furthermore, in order to accelerate the sustainable growth of society and the improvement of corporate value, while promoting quality-oriented management and real-time digital management, we are actively working to clarify themes to be addressed from the perspective of ‘ESG’ with a focus on social contribution through our business activities of providing unique products.

Vision 2025

By advancing our core businesses, we will contribute to solving our customers’ management issues. We will also create new added value for society by expanding new fields that apply mechatronics technology.

Factory automation and optimization business centered on P-machtronics
New Mechatronics Applications for Sustainable Development of Society

- Factory Automation/Optimization
  - Realization of the Industrial automation revolution centered on P-machtronics
  - Pursuing the World’s Best by Existing Core Businesses

- Mechatronics Applications
  - Challenge to new mechatronics applications
    - Reducing energy consumption with energysaving equipment
    - Promoting automation of food production and agriculture
    - Establishment of creation, storage and active energy business
    - Accelerating development of medical and welfare markets

- Open Innovation
  - Pride in Technology
    - Motion Control
    - Robot Technology
    - Power Conversion

- Glocal Management
- Business Foundation
- ESG Activities

P-Machtronics: Solution Concept for Realizing a New Industrial Automation Revolution
A new industrial automation revolution is starting with digital data management.

i³-Mechatronics

We provide unprecedented solutions with three “I”.

New value with “i cube”, digital data solution

By putting digital data management on top of the automated solutions based on mechatronics technologies and products that YASKAWA has provided to customers, YASKAWA realizes the solution concept “i³-Mechatronics (i-cube Mechatronics)” and contributes to resolving customer’s business challenges from the production sites.

THREE steps to realize i³-Mechatronics

Step 1 Integrated
- A production site is visualized with data by motors which act as a sensor.
- Further automation is promoted by linking components such as robots, servo drives and AC drives etc., and their processes.
- FA layer is wired with IT layer.

Step 2 Intelligent
- Data driven analysis and learning (big data analysis and AI)

Step 3 Innovative
- Data is fed back and turned into a movement for the improved productivity.

Smart factory realized by i³-Mechatronics

1. Edge is an information-processing level for data analysis and feedback that requires real-time performance at production sites or factories.
2. Cockpit is a software that collects, stores, and analyzes real-time data on equipment and analysis of production sites.
Driving Society

With 100 years of experience with motors and their control, we contribute to industrial and social developments with technologies we have cultivated.

AC servo drives and AC drives that command a world No. 1 share

The motion control business broadly consists of two product lineups: AC servo drives and AC drives. AC servo drives, which excel at high-speed and high-precision position control, are applied to various high-speed and high-performance equipment and automatic machines. AC drives control the rotation speeds of motors by flexibly changing the power-supply frequencies of motors. The emergence of AC drives drastically upgraded the productivity of factories, and contributed to advancements in industrial and social development and energy savings. We, as a leading company of motor controls, have gained trust from our customers with a solid record of performance.

Major applications of AC servo drives

- Semiconductor and liquid crystal manufacturing equipment
- Chip mounters
- Machine tools
- Food and packaging machinery
- Textile machines
- Robots

Major applications of AC drives

- Conveyors
- Fans and pumps
- Air-conditioning equipment
- Elevators and escalators
- Cranes

Application of AC drive technology to utilization of renewable energy

For the prevention of global warming, there is an increasing need to utilize renewable energy. Through the application of AC drive technology, we have commercialized power conditioners for solar power generation and drive systems for electric vehicles toward energy creation/application/storage.

Stepping onto a motionless escalator.
It then begins to move gently as if a car was being driven by an experienced driver.
One car comes off the production line every three seconds in Japan. How do robots in this country do this work?

Industrial robot “MOTOMAN” operating globally
Since the debut of the all-electric industrial robot “MOTOMAN” in Japan in 1977, we have taken a leading role in the world’s industrial robot market. Starting with arc welding for automobile production, for which we remain a market leader, our robots have assumed an active role in every industrial field including spot welding, handling, assembly and coating, as well as handling and transport in clean rooms for liquid crystal, organic EL displays and semiconductor manufacturing.
As one solution to the labor shortage in recent years, the scope of robot applications is extending to the food industry and other markets where there has been little practice in robotic automation.

From robots that replace to humans to robots that work with humans
Robots are now expanding their usage not only for industry but also many other fields through improving their speed and accuracy as well as handling complex movement and enhancing their safety function to collaborate with humans.
Yaskawa developed a robot that can work with humans without the need for a safety fence in 2017. With this robot, we support for the automation in the industries such as the consumer electronics, computers and communication equipment, in which robots have yet to be introduced as much.

Note: Risk assessment is involved at any cases though MOTOMAN-HC180T doesn’t need a safety fence.
Secure Lifeline

Yaskawa’s system engineering technology supports our life 24 hours a day.

Ensuring the stable operation of water treatment plants and other public facilities

We support public electric facilities for which stable operation is essential, such as water treatment plants and transportation infrastructures. For water supply/sewage facilities that cannot be stopped even for one moment, we offer not only assured reliability but also solutions that meet social needs, including environmental protection and disaster prevention. For the emerging needs, such as energy savings, advanced water purification, and effective utilization of facilities, we propose and construct new systems making full use of the leading-edge system engineering technology.

Offering optimum control systems with advanced technology

For many years, we have been engaged in the development, design, and production of electric equipment for industrial systems, and have accumulated a wealth of experience. Our control units and drive units have been adopted in every blast furnace operating in Japan, and have also secured a top share around the world in large-scale blast furnace* systems, supporting their stable operations on a 24-hour basis. We contribute to a comfortable life and the creation of an affluent society by offering highly reliable industrial systems with advanced technology and high-quality products.

* Volumetric capacity 5,000 m³ or more

Contributing to effective utilization of renewable energy and products for solar power generation

Utilization of renewable energy is being pressed forward worldwide, and we have commercialized generators and converters for large-scale wind power generation. In addition, we have created a lineup of large-capacity drive solutions from low voltage to high voltage, aiming at business expansion by pursuing new customers and entering into new fields, such as the marine vessel market. In addition, by reducing the total cost of photovoltaic power generation using power conditions for photovoltaic power generation, we are contributing to the conversion of renewable energy into a mainstay power source.
Passion for Innovation

Challenges and passion for innovation

Continuously taking on challenges for high-value added technological innovation to change the world

We have continuously created the world’s first technology that enables the evolution of manufacturing under the motto of “emphasizing the importance of quality and constantly developing and improving technologies in which we can take pride throughout the world.” At present, we are devoting ourselves to developing human and earth-friendly high technologies based on the theme of “Creation of Human & Eco Mechatronics,” centering on our Corporate Research & Development Center.

Human-friendly
Next-generation RT & MC system technology

As the population continues to age in comparison with a declining birth rate, lifestyle support of the elderly and labor shortages have become social issues. At our R&D Center, not only is the performance of conventional industrial robots being upgraded but also next-generation robotics technology, including flexible support robots that will coexist with people, is being designed and developed.

Nurturing an affluent future
New mechanisms & motion control technology

We aim at creating high-added-value products by combining and optimizing application-based functions, and pursuing ultra-precision control technology.

Earth-friendly
Energy-saving & power conversion technology

Efforts are made to achieve the “saving energy” and “efficient energy conversion.” We contribute to protecting the global environment through energysaving and energy conversion technologies with higher-efficiency mechatronics products.
Like animals and plants, a company might also be a companion living on this planet.

Action for Society
For building a sustainable society

Environmental Management
Toward realization of a low-carbon society, CO₂ emissions are halved at Robot Village.

As our head office is located in Kitakyushu City, an environmental future city, we promote environmental management aggressively. Taking the opportunity of the centennial anniversary in 2015, we have upgraded and renamed our head office “Robot Village” by promoting and implementing state-of-the-art eco-conscious initiatives. As environmental measures at Robot Village, our products and technologies are used to halve CO₂ emissions compared with conventional levels.

At the Robot Village, CO₂ emissions are halved by “100 ECO items”!

Social Contributions
Social contributions and support activities

As a social contribution activity, Yaskawa Mirai (Future) Club was established in-house. Our employees who endorse the club’s goals set aside a portion of their salary to support groups involved in such fields as “medicine and welfare,” “child upbringing of youth,” and “environmental protection.” Also, we co-sponsor the Kosen Robo-Con (Technical College Students’ Robot Contest), in which engineers-to-be from around Japan compete in contests focusing on robot production ideas and technology as well as robot performance in hopes of fostering the next generation of talent.

Contribution activities through sports

Yaskawa Electric supports sports activities with the aim of providing people with “dreams” and “aspirations.” Since 2009, we have co-sponsored the professional soccer team “Gravanza Kitakyushu.” We have also co-sponsored the “Kitakyushu Marathon” held since 2014, as the main sponsor, with Yaskawa employees and their families participating as marathon support volunteers. Our track & field team members have been active for more than 40 years mainly in long-distance running events, such as ekiden relay races and marathons, and continue to expand their event stage, from participation in the New Year Ekiden (All Japan Corporate Team Ekiden Championships) to the World Track and Field Championships and the Olympics.
DNA of YASKAWA

Taking over the spirit of foundation, always developing cutting-edge technologies and products centering on "electric motors and their applications"
Global Network

Yaskawa’s worldwide network includes business bases in 30 countries and production bases in 12 countries.

Our customers’ global businesses are reliably supported by connecting our group companies and service bases throughout the world. We provide regionally-based finely-tuned support.

Europe
- France: Yaskawa France SARL
- Spain: Yaskawa Berica SL
- Finland: Yaskawa Finland Oy
- Norway: The Switch Engineering Oy
- Sweden: Yaskawa Sweden AB

North America
- U.S.A.: Yaskawa America, Inc., Yaskawa America, Ltd.
- Canada: Yaskawa Canada Inc.
- Mexico: Yaskawa Mexico S.A. de C.V.

South America
- Brazil: Yaskawa Electrobras Ltda.

Asia Pacific
- China: Yaskawa Electric (China) Co., Ltd.
- Korea: Yaskawa Electric Korea Corporation
- Indonesia: Yaskawa Electric Indonesia
- Taiwan: Yaskawa Electric Taiwan Corporation

Network in Japan

Our group force responds with technical skills and trust.

We flexibly meet customer needs with two R&D centers and five production bases in Japan.

We provide robust business support with complete nationwide coverage through a network of 23 branch and sales offices, and group companies and service bases across Japan.

Chubu
- Head office (Robot Village)
- Laboratory (Corporate Research & Development Center)
- Yamaha plant (Robot Plant / Yaskawa Robot Center)
- Yaskawa Kizugashima plant (Miami Control Plant)
- Yaskawa plant (Kita Center System Engineering Center)
- Yaskawa plant (Robot plant)
- Yaskawa office
- Yamaha sales office

Tohoku
- Tohoku sales office

Kanto
- Tsukuba
- Yaskawa Solution Factory
- Funaoka plant (Mitsubishi Control Plant)
- Tokyo branch
- Kanto Robot Center
- Chiba sales office
- Yokohama sales office
- Hitachi sales office
- Shizuoka sales office

Kinki
- Osaka office
- Kei sales office

Chugoku
- Kochi sales office

Shikoku
- Shikoku sales office
- Kochi sales office

Group companies in Japan
- Yaskawa Automation & Drives Corp.
- Yaskawa Mechatronics Corporation
- Suzuki Kyokuto Co., Ltd.
- Food & Medicinal Solution, Inc.
- ACURE, Inc.
- Robotics Institute Inc.
- Bestact Solutions Inc.
- Yaskawa Electric Engineering Corporation
- Yaskawa Controls Co., Ltd.
- Yaskawa Logistic Corporation
- Yaskawa Manufacturing Corporation
- Yaskawa Motor Corporation
- Doi Company
- Yaskawa Obvious Communications Inc.
Factory Tour

Yaskawa Electric accepts visitors to the Robot Village and the factory where you can see the product process.

The Robot Village

Yaskawa Electric developed Japan’s first all-electric industrial robot “MOTOMAN” in 1977. Since then, we have been leading the domestic and overseas industrial robot market by developing a succession of robots that automate operations such as welding, assembly, painting, and handling. In the Robot Village tour, in addition to the "factory where robots make robots," you can also visit the "Yaskawa Innovation Center" which conveys "robot technology" and "Attraction of Manufacturing" and the "Yaskawa Electric History Museum," which introduces the products that our company has developed so far and the history of the Yaskawa family, including the founder, who supported the initial stage.

Nakama Plant

At the Nakama Factory, YASKAWA Electric's medium- and large-sized general industrial robots are produced from processing parts to assembly.

The Chubu Robot Center

During the tour of the inverter plant, visitors can see the automated inverter manufacturing using robots.

Company’s Outline

Corporate Outline (As of February 28, 2019)

- Corporate Name: YASKAWA Electric Corporation
- Founded: July 16, 1915
- Head Office: 2-1 Karasayashincho, Yahatanishiku, Kitakyushu 804-0004, Japan
  Phone: +81-93-645-8601 / Fax: +81-93-645-8631
- Representative: Hiroshi Ogasawara, Representative Director, President
- Capital Stock: 306.6 billion yen
- Number of Shares Outstanding: 264,690 thousand shares
- Number of Shareholders: 85,897
- Employees: Consolidated 15,305 (including temporary employees)
- Net Sales: Consolidated 474.6 billion yen (Fiscal year ended February 2019)

Sales breakdown by business segment (year ended February 2019)

- Consolidated Net Sales: 474.6 billion yen
- System Engineering: 59.5 billion yen (13%)
- Robotic: 178.0 billion yen (37%)
- Other: 31.8 billion yen (7%)