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-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 1960s, Yaskawa Electric led the world in putting forward the concept fusing “mechanism” and “electronics.” This concept evolved when we combined our customers’ machinery with Yaskawa’s electric products to create superior quality and function.
Cities move forward and never rest.
What kind of future would you like to see?

Our Vision
Offering a new value to society through fusion of core technology advancement and open innovation

With our 100th anniversary in 2015, we have set our Vision 2025 that lays out the direction of our management toward the future. Setting goals for “Respect Life,” “Empower Innovation,” and “Deliver Results,” we aim at realizing a revolution in industrial automation by fusing the world’s leading edge mechatronics technology and ICT. In the “Mechatronics” business domain, we aim at global deployment of the renewable energy business and also development of the electric drives market to establish energy creation/storage/application businesses. In the “Humatronics” business domain, we aim at the realization of a society where people’s capabilities can be maximized, through the application of our mechatronics technology to the medical/welfare segment and through the development of equipment that reinforces people’s capabilities and improves quality of life.

*1: Information and Communication Technology
*2: Term coined to denote a combination of Human and Mechatronics
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

AC servo drive “S-7 Series”
Motion controller “MP5000 series”

Major applications of AC drives

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

AC drives

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.

Wind power

Solar power

Hydro power

Motor drive system for electric vehicles
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 in 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 needed at any case though MOTOMANi4C1807 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 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 0.800 m³ or more

Contributing to effective utilization of renewable energy

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.
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 combination with a declining birthrate, mobility 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 mobile support robots that will cope with people, is being designed and developed.

Nurturing an affluent future
New mechanisms & motion control technology

We are at creating new-value-added products by creating and optimizing application-specific functions, and pursuing ultra-precision control technology.

Earth-friendly
Energy-saving & power conversion technology

Environmental and sales issues can be addressed by ‘saving energy’ and ‘efficient energy conversion.’ We contribute to protecting the global environment through energy-saving and energy conversion technologies with high-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.

* “Robot Village” is our registered trademark.

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

Locally sourced, energy efficient and carbon-free products, Reduce, Reuse, Recycle and Smart use, Robot Village has targeted the 100 ECO items that are faced in product life cycles, in production, operation, and maintenance. By implementing these measures, we can significantly reduce CO₂ emissions.

Robot Village developed the “100 ECO items” to coexist with the earth’s environment.

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,” “sound upbringing of youth,” and “environmental protection.” Also, we co-sponsor the Kôsen Robo-Con (Technical College Students’ Robo 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 “Giravanz 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"
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.

**Global Network**

**Worldwide Yaskawa**

**Network in Japan**

Our group force responds with technical skills and trust.

We flexibly meet customer needs with two R&D centers and four 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.

**Group companies in Japan**

- Yaskawa Engineering Corporation
- Yaskawa Controls Co., Ltd.
- Yaskawa Robotics Automation & Motion Corp.
- Yaskawa Motor Corporation
- Yaskawa Inverter Corporation
- Sumitomo Heavy Industries, Ltd.
- Yaskawa Machine Co., Ltd.
- Yaskawa Electric Canada Inc.
- Yaskawa Electric France SArl
- Yaskawa Electric Italy
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