Our passion for manufacturing is timeless and will never change.

1915

Commercialized three-phase induction motor

2021

AC servo drives & controllers

2017 Collaborative robot, MOTOMAN-HC10GT

2019 AC Drives GAS00

2020 Power Conditioner XG1500

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 1980s, Yaskawa Electric led the world in putting forward the concept fusing "mechatronics" and "electronics." This concept evolved when we combined our customers’ machinery with Yaskawa’s electric products to create superior quality and function.

CONTENTS

- Vision .......................................................... 03
- "i"-Mechatronics ........................................... 05
- Motion Control .............................................. 07
- Robotics ...................................................... 09
- System Engineering ....................................... 11
- Research & Development .............................. 13
- CSR / Corporate Social Responsibility ............. 15
- History & Corporate Outline ............................ 17
- Global Network .......................................... 19
- Offices & Subsidiaries in Japan ......................... 20
- Factory Tour .............................................. 21
- Company Outline ........................................ 22
Cities move forward and never rest.
What kind of future would you like to see?

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 i-Mechatronics

New Mechatronics Applications for Sustainable Development of Society
A new industrial automation revolution is starting with digital data management.

**i³-Mechatronics**

We provide unprecedented solutions with three “i”.

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**

- **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.

- **Intelligent**
  - Data driven analysis and learning (big data analysis and AI) layer.

- **Innovative**
  - Data is fed back and turned into a movement for improved productivity.

**Smart factory realized by i³-Mechatronics**

1. **i³-Mechatronics** is an information processing tool for data analysis and feedback that requires real-time performance in production sites or factories.
2. **Cockpit** is a software that is able to collect, store, and analyze real-time data on equipment and enable an improve.
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?

**Smart Factory**

Realization of ideal automation for humans and robots to coexist and cooperate

**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 needed at any case 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 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.

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.
Human instinct will devise the technology to come.

Passion for Innovation
Challenges and passion for innovation

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

Yaskawa Electric Corporation put into the "Yaskawa Technology Center (YTC)" an innovation base that integrates basic technology development, production technology development, product development, product and facility design, quality control, and mass production prototyping, with the aim of building a development system that can quickly respond to customer demands.

At YTC as our hub location, we will work to create an innovative and efficient development environment and promote the development of the world’s first and best products.

YTC Concept

With open innovation in cooperation with the Yaskawa Group, YTC will become a base that integrates technologies to develop winning products for customers in a timely manner.

- **Integrated**
  - YTC integrates the entire group’s technologies, from fundamental technology to mass production prototyping including production techniques.

- **Intelligent**
  - Creating winning products by accurately sharing the strengths and weaknesses of other companies and our own technologies as well as market information in a timely manner.

- **Innovative**
  - Promoting open innovation to bring about dramatic technological innovation.

Inspiration of further innovative technology

Our goal of open innovation
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**

We contribute to the reduction of CO2 emissions in the world through the supply of AC drives and other products that boast the world’s highest performance utilizing power conversion technology, which is Yaskawa’s core technology. To this end, Yaskawa has been working to achieve “CCE 100 ™,” with which it will promote the reduction of CO2 emissions of the world through its products and make the reduction more than 100 times the amount of CO2 emitted by Yaskawa Group in 2025. (Result in fiscal 2019 was approximately 75 times.) Taking this opportunity to set new targets, we will continue our business activities with greater consideration for the environment, thereby contributing to the realization of a sustainable society and increasing our corporate value.

**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 Kisen 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 “Grande 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 60 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.

Network in Japan

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 16 branch and sales offices, and group companies and service bases across Japan.

Group companies in Japan

1. YASKAWA AUTOMATION & DRIVES CORP.
2. YASKAWA MECHATRIO CORPORATION
3. SUMITOMO YASKAWA CO., LTD.
4. FOOD & AGRI ROBOTICS SOLUTION, INC.
5. AQ ROBOTICS INC.
6. ROBOTIC TECHNOLOGY INSTITUTE INC.
7. REACT SOLUTIONS INC.

Offices & Subsidiaries in Japan

Hokkaido
- Chubu office / Chubu Robotics Center
- Nagoya sales office
- Hamamatsu sales office
- Nagoya sales office
- Hamamatsu sales office
- Chubu Robotics Center
- Shizuoka Service Office

Tohoku
- Chiba office
- Chiba Sales Office
- Sendai Service Office
- Tsugaru Service Office
- Fukushima Service Office

Kanto
- Tokyo office
- Tokyo Sales Office
- Tokyo Sales Office
- Tokyo Sales Office
- Tokyo Sales Office

Kinki
- Osaka office
- Osaka Service Office
- Osaka Service Office
- Osaka Service Office
- Osaka Service Office

Shikoku
- Kochi office
- Kochi Service Office
- Kochi Service Office
- Kochi Service Office

Chugoku
- Okayama office
- Okayama Service Office
- Okayama Service Office
- Okayama Service Office

Middle East-Africa

Israil
- YASKAWA EUROPE TECHNOLOGY LTD.
- YASKAWA TURKEY ELECTRIC TRUBETZKOY LTD.
- YASKAWA QATAR AHR GROUP LTD

Europe

France
- YASKAWA FRANCE SAS
- YASKAWA FRANCE B.V.
- YASKAWA FRANCE INNOVATION
- YASKAWA FRANCE B.V.

North America

USA
- YASKAWA AMERICA INC.
- YASKAWA AMERICA INC.
- YASKAWA MEXICO SA DE CV.

South America

Brazil
- YASKAWA ELECTRO CADAS LTDA.
- MOTORKON ROBOTICA DO BRASIL LTDA.

Asia Pacific

China
- YASKAWA ELECTRIC (SHENZHEN) CO., LTD.
- YASKAWA ELECTRIC (SHENZHEN) CO., LTD.
- YASKAWA ELECTRIC (SHENZHEN) CO., LTD.
- YASKAWA ELECTRIC (SHENZHEN) CO., LTD.
- YASKAWA ELECTRIC (SHENZHEN) CO., LTD.

Korea
- YASKAWA ELECTRIC (KOREA) CORP.
- YASKAWA ELECTRIC (KOREA) CORP.
- YASKAWA ELECTRIC (KOREA) CORP.
- YASKAWA ELECTRIC (KOREA) CORP.
- YASKAWA ELECTRIC (KOREA) CORP.

Indonesia
- PT. YASKAWA ELECTRIC INDONESIA
- YASKAWA ELECTRIC VIETNAM INC.
- YASKAWA ELECTRIC VIETNAM INC.
- YASKAWA ELECTRIC VIETNAM INC.
- YASKAWA ELECTRIC VIETNAM INC.

Thailand
- YASKAWA ELECTRIC THAILAND CO., LTD.
- YASKAWA ELECTRIC THAILAND CO., LTD.
- YASKAWA ELECTRIC THAILAND CO., LTD.
- YASKAWA ELECTRIC THAILAND CO., LTD.
- YASKAWA ELECTRIC THAILAND CO., LTD.

India
- YASKAWA INDIA PRIVATE LIMITED
- YASKAWA INDIA PRIVATE LIMITED
- YASKAWA INDIA PRIVATE LIMITED
- YASKAWA INDIA PRIVATE LIMITED
- YASKAWA INDIA PRIVATE LIMITED

Global Network

Worldwide Yaskawa

Network in Japan

Our group force responds with technical skills and trust.
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 industrial robots, ‘JOTOCAN’, 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 ‘a factory where robots make robots’, you can also visit the ‘Yaskawa Innovation Center’, which conveys ‘robot technology’ and ‘attractions 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

Medium- and large-sized general industrial robots are produced

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

Company’s Outline

Corporate Outline (as of February 28, 2023)

- Corporate Name: YASKAWA Electric Corporation
- Founded: July 16, 1915
- Head Office: 2-1 Kansakishihi, Yahatanishiku, Kitakyushu 804-0004, Japan
- Phone: +81-93-645-8601 / Fax: +81-93-645-8631
- Representative: Hiroshi Ogasawara, Representative Director, President
- Capital Stock: 30.6 billion yen
- Number of Shares Outstanding: 266,690 thousand shares
- Number of Shareholders: 65,822
- Employees: Consolidated 15,179 (including temporary employees)
- Net sales: Consolidated 411.0 billion yen (Fiscal year ended February 2023)

Directors and Executive Officers (as of June 10, 2020)

- Representative Director: Junji Tsuda
- Director: Hiroshi Ogasawara, Shuji Murakami, Yoshikatsu Minami, Masahiro Ogawa
- Director and General Manager of the Audit Committee: Yoji Kato
- Director and Member of the Audit Committee: Yuji Nakayama, Koichi Tsukahata, Yoshiki Akita, Junko Sasaki, Hideo Tsukamoto, Toshikazu Koike
- Managing Executive Officer: Akira Kumagae, Michael Stephen Knapik, Junichi Nakano, Nobuo Jinnouchi, Kenji Ueyama
- Senior Executive Officer: Bruno Schneekirchner, Akinori Urakawa, Tatsuya Yamada
- Executive Officer: Toshinori Kose, Masahiro Okura, Tatsuya Fukunaga, Takanari Otsuka, Yuki Tsutsui, Ayumi Hayashida, Michiaki Higuchi, Hiroshi Takata, Shunro Matsuoka, Yasushi Ichiki, Manabu Ohnishi