Since our establishment in 1953, we at JAE, under the corporate philosophy of “Explore, Create and Practice”, have successfully developed and globally expanded our three core business areas of connectors, user interface related devices, and aviation electronics supported by our outstanding development capability in innovative and creative technologies.

With our global corporate slogan “Technology to Inspire Innovation”, JAE focuses on technological development and product creation that inspire customer’s innovation.

For many years, as a basic management policy, JAE has promoted global business expansion based on the consolidated management of the JAE Group including all its subsidiaries; enhancement of global marketing and product development capabilities; and innovation of product quality and manufacturing technology, in order to gain a high level of trust as partners with our worldwide customers.

All staff of the JAE Group, as good corporate citizens, will strive together to contribute to the prosperity of 21st century society.

Yasutaka Akiyama  Chairman  
Tsutomu Onohara  President

JAE Corporate Philosophy
“Explore, Create and Practice”

In response to the boundless, changing needs of society, our duties are never-ending exploration and creation. Business enterprise must essentially be like the earth as it spins and revolves through the boundless universe, in the midst of incessant change. Exploration and creation are born in an environment of freedom and independence, and raised by relentless quest and actions which vigorously transcend barriers and difficulties. Practicing this principle and further making contributions to society; this more than anything is the goal of our business, and the source of our development.

Technology to Inspire Innovation
Business Line

With three major business lines, we remain committed to providing the global market with innovative and creative technology and products.

Sales Ratio by Segment (Consolidated) (From April 1, 2017 to March 31, 2018)

Connectors

With our superior product development and support capabilities, we are able to provide superior equipment design and productivity demanded by our customers.

User Interface Solutions

We offer user interface solutions, creating next-generation operability technology.

Aerospace

We provide new values in the IoT era with our motion sensor and control technology covering the fields from the underground to the space.

Technology to Inspire Innovation

- Board to Board Connectors
- FPC Connectors
- Circular Connectors
- Rectangular Connectors
- High-CURRENT Connectors
- LED Lighting Connectors
- Card Connectors
- Automotive Electronics Connectors
- Capacitive Touch Panel for Automotive
- Optical Touch Panel
- Operation Panel
- Part Of A Digital Chassis System
- Teaching Pendant
- Inertial Measurement Unit For Rusters
- Indicometer Package For Oil Drilling
- Camera Stabilizer
- Cols For Linear Motor
- Accelerometer
- Ring Laser Gyro
- Fiber Optic Gyro
- Resolver
Products & Applications

Mobile & Wearable Devices

- Smartphone
- Tablet PC
- Watch
- Digital Camera
- Smartphone
- Tablet PC

Connector

USB2.0 Compliant
Micro-USB Standard
HDMI Standard
AOC (Active Optical Cable)
USB Type-C™ Standard
I/O Docking
HDMI Standard
Board to Board
Board to FPC
Memory Socket
Module Socket
Connector

Notebook PC / FPD TV

- Board to Board
- Module Socket
- Internal
- Notebook PC / FPD TV
- I/O for LCD
- Board to Board
- Memory Socket
- Module Socket
- FPD TV

Connector

USB Type-C™ Standard
Micro-USB Standard
HDMI Standard
AOC (Active Optical Cable)
USB Type-C™ Standard
I/O Docking
HDMI Standard
Board to Board
Board to FPC
Memory Socket
Module Socket
Connector
JAE has expanded the lineup of the “DX07 Series” of connectors fully compliant with “USB Type-C”, the next generation USB specification, and has been successively acquiring USB certificates.

When acquiring certificates for devices equipped with USB Type-C, it is necessary to use certified connectors, so our customers can use the “DX07 Series” with peace of mind.

The “DX07 Series” connector features a reversible plug structure that enables easy insertion without worrying about the orientation of the plug. The connector is capable of 10 Gbps high-speed communication (compliant with USB3.1 Gen2) and a maximum current of 5A for power supply (compliant with USB Power Delivery).

The Type-C connector is already being adopted for use in many devices including smartphones, notebook PCs, game machines and cameras as a standard interface connector. It is expected to find wide use in the future for vehicles, industrial machines, and other applications where its durability enables use in harsh environments.
Energy Storage System

Products & Applications

Industrial & Infrastructure Equipment

- High Performance Compact RLG Inertial Navigation System
- High Performance Compact FOG Inertial Measurement System
- EV Charging Connector for V2H Electric Vehicle Quick Charger
- High-Brightness Liquid Crystal Color Display
- Optical Data Link
- LED Lighting
- Solar Panel
- Board to FPC
- SIM/SAM Card
- Waterproof I/O
- I/O
- Train Car Coupler
- I/O Circular
- I/O Rectangular
- MULTI Fiber Optic Connectors
- LED Light
- Smart Meter
- Power Plant Transmission
- Power Generation from Renewable Energy
- Distribution
- Storage
- Battery
- Smart Grid
- Photovoltaic Power Generation
- Substation Transformation
- LED Light
- Solar Panel
- Board to FPC
- Connector
- Aerospace

Our products support Shinkansen services in Japan and new high-speed trains overseas.
Products & Applications

Industrial & Infrastructure Equipment

- Oil Drilling Equipment
- Accelerometers for Oil Drilling
- Analog Directional Module
- SMART Directional Module (Standard Communication Protocols)
- High Accuracy MEMS Accelerometer

- Earthquake/Tsunami Observation
- Deterioration Diagnosis
- Accelerometer
- High Accuracy MEMS Accelerometer

- Marine
- Deep Sea Driving AUV YUMEIRUKA
- Inertial Navigation System

Aviation / Space / Others

- Commercial Aircraft
- Accelerometer

Aviation

- F-2 © JASDF

Space

- Asteroid probe Hayabusa © JAXA
- SMART Directional Module (Standard Communication Protocols)
- Analog Directional Module

Aviation / Space / Others

- Oil Drilling Equipment
- Accelerometers for Oil Drilling
- Analog Directional Module
- SMART Directional Module (Standard Communication Protocols)
- Inertial Measurement Unit for Rockets
- H-Ⅱ A Launch Vehicle © JAXA

- Aerospace
- Accelerometer

Our products also find wide applications in the aerospace field, including umbilical connectors for joining rockets and the ground equipment, other connectors for wiring in rockets and other devices.

JAE received a letter of appreciation from the Ministry of Education, Culture, Sports, Science and Technology (MEXT) awarded to corporations and institutions contributing to the Hayabusa project.
R&D Activities Supporting "Technology to Inspire Innovation"

In the 65 years since its founding, our company has put an emphasis on R&D and has invested continuously and aggressively in R&D. We are working hard to develop and strengthen the base technologies through R&D by both independent and cooperative operations in the connector, user interface and aerospace divisions, as well as in the Product Development Center (corporate R&D).

We strive to ensure sustainable growth and to make contributions to society by supplying innovative and creative products. In order to achieve this goal, we aim at continual evolution of our core technologies that we have developed for providing solutions to meet the needs of customers and new technology development to be blended with the core technologies that will become a gateway to future IoT technology.

Converting technology was built focusing on a printing technology

- In order to respond to the needs on the user interface in the boundary between people and products, we built a converting technology focusing on printing. We also registered this state-of-the-art technology as "FLEXCONVERT™" as a branding activity.

Compact inertial measurement units (IMUs) optimized toward the automatic control for construction and agricultural machineries

- High precision IMU has been integrated with 6-axis MEMS sensors, to measure the rate, acceleration and attitude.
- IMUs are able to correct the attitude to the order of centimeters in the fields of computer-aided construction and smart farming.
- IMUs detect the movements of drones and cars in real time, to contribute automated operation.

Products Supported by JAE’s Evolving Technologies

- High-power Connection Devices
  - High-power connection for EV
  - High-reliability connection for LED/PV
  - High-reliability connection for medical purposes

- High-speed/High-density Connection Modules
  - Connection for next-generation information devices
  - Connection for next-generation mobility
  - Connection for next-generation medical equipment
  - Connection for next-generation robots

- High-precision Sensor Units
  - Next-generation motion sensors
  - Next-generation interfaces (flexible/wearable)
Manufacturing Technology Innovation

The JAE Group promotes “manufacturing technology innovation” to be recognized as the number one partner for our customers.

Fully utilizing the integrated production system of in-house manufacturing and flexible operation of our global group, the sectors of design, production engineering and manufacturing are always making a concerted effort to improve the degree of customer satisfaction in terms of Quality, Cost, Delivery, which are the most essential points for a manufacturer.

Innovation of production capacity by in-house production, automation and labor saving efforts

JAE has established a robust in-house vertical integrated production system, operating 24 hours a day, 7 days a week, thanks to the wide use of JAE designed labor-saving, automated assembly machines at main factories in Japan such as JAE Hirosaki and JAE Yamagata. Aiming at higher manufacturing speed and cost reduction, we spare no effort to innovate the fundamental technologies and processes ranging from automated assembly machines to every production step such as turning, stamping, molding, plating and final product assembly.

We are striving for high quality and to be easy to work with for customers

We pursue high quality and ease to work with from the new product development phase utilizing material analysis, high-speed transmission evaluation and other fundamental performance tests, design verification, FMEA analysis and workmanship evaluation. In addition, we follow a diversified approach including production in a clean room, quality improvement activities, defect prevention in the manufacturing process — all these contribute to offering reliability to our customers.

Enhancement of the evaluation and test system to ensure highly reliable products are provided to customers

We are strengthening and enhancing our evaluation and test system in order to fully respond to the ever higher demands for quality and reliability from our customers. In addition to an anechoic chamber for electromagnetic compatibility (EMC) evaluation, the Integrated Evaluation & Test Laboratory was completed in May 2016, where more than 100 units of testing equipment, including combined environmental reliability test systems and vibration test devices are installed. This laboratory conducts environmental testing with even greater precision and efficiency by applying thermal and humidity stress, and mechanical testing by applying vibration and shock, and thus enables us to supply customers with reliable products.

Integrated Evaluation & Test Laboratory

Evaluation equipment installed in the Integrated Evaluation & Test Laboratory

RF anechoic chamber

Material Analysis

Workmanship Evaluation

Element Analysis
Corporate Social Responsibility (CSR) efforts

CSR Initiatives

The JAE Group is expanding its regionally-based exchange and charitable activities at domestic and overseas group companies as a good corporate citizen under the JAE Group Charter of Corporate Behavior.

JAE Group Charter of Corporate Behavior

Based on our corporate philosophy, “Explore, Create, and Practice”, Japan Aviation Electronics (JAE) Group will continue to expand efforts to maintain a fair profit, increase corporate value, and contribute to the creation of sustainable growth in society. At the same time, as a good corporate citizen, we will abide by relevant laws and rules, and fulfill social responsibilities toward customers, stockholders and investors, business partners and other related persons in the community at large.

Initiatives for children who will lead the next generation

Monozukuri Taikai Stadium (JAE) Participated in the Monozukuri Taikai Stadium with the goal of inspiring children’s interest in building things through hands-on experience in workshops, etc.

Hapag-Asa Feeding & Wellness Program 2017 (JAE Philippines) In addition to balanced diets provided to children by JAE, the company doctor also educated children and parents regarding proper diet.

Visiting the Wuxi Social Welfare Institution (JAE Wuxi) We paid a visit to a nearby social welfare institution providing care for children with disabilities. We played together with the children and gave presents of toys and clothes.

Part of the local community

Hiratsuka Nekuta Festival (JAE Hiratsuka) Participated in the Nekuta Festival in Hiratsuka, a national hydraulically important intangible cultural asset, and the JAE group recorded the 25th appearance in 23 years in a row.

Financial assistance for Evacuees of Mayon Volcano Eruption (JAE Philippines) We set up a fund and donated relief supplies for evacuees of the Mayon volcano eruption in Luzon, the Philippines.

For ourselves in the future

Donating foods (JAE Tijuana) JAE donated foods to the people affected by a natural disaster.

Walk to End Alzheimer’s (JAE Electronics) Participated in the two-mile walk and marathon and donated the participation fee to support Alzheimer’s research.

Water quality survey for the Izumida River (JAE Yamagata) As part of the municipal government environmental awareness program, we conducted a water quality survey of the local river. The result indicated that the water quality was the ‘Highest rank’.

Water quality survey for the Izumida River (JAE Yamagata) As part of the municipal government environmental awareness program, we conducted a water quality survey of the local river. The result indicated that the water quality was the ‘Highest rank’.

Wearing pink (cancer awareness) (JAE Europe) We implemented ‘Wear it Pink’ day in support of Breast Cancer and raised funds for the purpose of increasing awareness and medical research.

Environmental Conscious Management

Basic Philosophy

The JAE Group will, as a good corporate citizen, contribute to the attainment of a prosperous, sustainable, recycling-based society by fulfilling its corporate social responsibility through environmentally friendly business activities and respect for the natural environment and biodiversity.

Basic Approaches

- Prevention of environmental pollution risks
- Reduction of industrial waste outputs
- Promotion of recycling
- Promotion of eco-friendly designs
- Promotion of green procurement
- Compliance to the RoHS and REACH

A symbol of our environmental management

Forest of JAE Group (Okutama, Tokyo)

The Tokyo Development Foundation for Agriculture, Forestry and Fishery planned a “Corporate Adopt-a-Forest Program.” This program aims at reforestation of barren hills left as the result of logging activity in the Okutama district, Tokyo. The water used at our Akishima Plant (in Akishima City, Tokyo), like the rest of the city water supply, comes from groundwater that has its source in the Okutama forest area, so as a symbol of our environmental management we became the first to participate in the profit-sharing forestry program by creating the “Forest of JAE Group” in June 2004.

We cultivate our employees’ environmental awareness through the forest preservation activities, with cooperation of local parties concerned, and more importantly, we contribute to the preservation of biodiversity, absorption of greenhouse effect gas (CO2), and conservation of water sources.

● Forest of JAE Group (Okutama, Tokyo)

The status of the foresting Lot No.2 as of openning a planting lot and the current status

In the Forest of JAE Group, a variety of trees, including wild cherry trees, Itaya maple trees and Kobushi magnolias grow, where people enjoy the brilliant colors of foliage and flowers from season to season. The forest further nurtures approximately 3,000 planted tree species which are originally indigenous to Okutama, such as kousa naka, keyaki, horse chestnuts, Japanese walnuts and hinoki cypresses, providing their fruits as food to the animals living there.
Global Network

We operate a network of development, manufacturing and sales to be able to respond to customer demand worldwide.

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http://www.hakkou.jae.co.jp
JAE Yamagata, Ltd. [Manufacturing]
http://www.yamagata.jae.co.jp
JAE Fuji, Ltd. [Manufacturing]
http://www.fui.jae.co.jp
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Hirosaki Hakko, Ltd. [Manufacturing]
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JAE Business Support, Ltd. [Services / Other]
http://www.jaebusiness.com
Nikko Logistics, Corp. [Company]
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