Technology to Inspire Innovation
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.

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.
Corporate Data

Outline of Company

Company Name
Japan Aviation Electronics Industry, Limited

Establishment of Business
August 20, 1953

Head Office
19-8, Dogenzaka 1-chome, Shibuya-ku, Tokyo 150-0043, Japan

Capita
¥10.69 billion

Stock Exchange Listing
Tokyo Stock Exchange, 1st Section

Activities
Manufacturing and marketing of connectors, user interface solutions, and aerospace and related electronics

Directors and Auditors [As of June 21, 2017]

Chairman (Representative Director)
Yasutaka Akijama

President (Representative Director)
Tsutomu Onohara

Directors
Kazuo Takeda
Yasutoshi Ogino
Minoru Urano
Shiro Hirohata (Outside Director)
Mitsuaki Sakaba (Outside Director)
Takayuki Morita (Part-time Director)

Statutory Auditor
Takashi Yamamoto (Full-time Statutory Auditor)
Tatsuo Shibuya (Full-time Statutory Auditor)
Katsuya Mizuishi (Outside Statutory Auditor)
Shuichi Kashiwagi (Outside Statutory Auditor)

Corporate Officers [As of June 21, 2017]

Chairman
Yasutaka Akijama*

President
Takumoto Onohara

Executive Vice President
Kazuo Takeda*

Senior Vice President
Yasutoshi Ogino*

Associate Senior Vice Presidents
Takaj Imair
Hajime Saito
Seiji Murano

Associate Senior Vice Presidents
Minoru Urano*
Katsumi Watanabe
Tetsuya Nakamura
Kokichi Sasao
Tori Kono
Masahide Wakuri
Takashi Kosaka
Tsuneo Hashimoto
Masayuki Murakawa
Masahiro Matsumura

* Directors are indicated by an asterisk(*).

Net Sales (Consolidated)

Sales in 100 million

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<tr>
<td>1,120</td>
<td>1,296</td>
<td>1,912</td>
<td>2,095</td>
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Total Assets - Net Assets (Consolidated)

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<td>1,217</td>
<td>1,486</td>
<td>1,714</td>
<td>1,658</td>
<td>1,832</td>
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Organization [As of July 2017]

Board of Directors
Chairman
President

Board of Auditors

Connector Line
JAE Group Companies
JAE America, Inc.
JAE Europe Ltd.

Internal Audit Office

Administrative Staff

Operation Staff

Aerospace Line

International Operations Line

User Interface Solutions Line

JAE Singapore Pte Ltd.
JAE Hong Kong, Ltd.
JAE Singapore (M) Pte Ltd.
JAE Shenzhen Co., Ltd.
JAE Electronics Inc.

Others
Niko Logistics Corp.
JAE Business Support Ltd.
JAE Foods, Ltd.

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

**Connector**

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.
Products & Applications

Automotive

New Products

“DX07 Series” of USB Type-C™ Connectors is widely accepted by various markets

JAE has expanded the lineup of the “DX07 Series” of connectors full 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). Currently, this series began to be mounted on many items including smartphones and notebook PCs as a standard interface connector. And it is expected for new series to be developed and spread, which are resistant in harsh environment such as automotive vehicles and industrial machines.
Products & Applications

Industrial & Infrastructure Equipment

Industrial Robots

Network

Semiconductor Production Equipment

Numerical / Control Machines

Connector  User Interface Solutions  Aerospace

I/O for LCD  SMA Standard Motor Connector End Launch Type  Board to Board

Board to Cable  Fiber Optic Connector-Type07  Board to FPC

Fiber Optic Connector-Type02  Board to Board Floating Cable  Backplane

Connector  User Interface Solutions  Aerospace

Industrial Robots

Network

Semiconductor Production Equipment

Numerical / Control Machines

Connector  User Interface Solutions  Aerospace

I/O for LCD  SMA Standard Motor Connector End Launch Type  Board to Board

Board to Cable  Fiber Optic Connector-Type07  Board to FPC

Fiber Optic Connector-Type02  Board to Board Floating Cable  Backplane

Connector  User Interface Solutions  Aerospace
Industrial & Infrastructure Equipment

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

Smart Grid
- Photovoltaic Power Generation
- LED Lighting
- Energy Storage System
- Substation Transformation
- Power Plant Transmission
- Distribution
- Power Generation from Renewable Energy
- Electric Vehicle Quick Charger
- EV Charging Connector for V2H
- Waterproof I/O
Products & Applications

Industrial & Infrastructure Equipment

Earthquake/ Tsunami Observation

Infrastructure Diagnosis

Marine

Aviation / Space / Others

Aviation

Space

Aerospace

Commercial Aircraft

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.
Research & Development

R&D Activities Supporting “Technology to Inspire Innovation”

In the approximately 60 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 foundation 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). In order to provide solutions to meet the needs of customers supporting a society of sustainable growth, we intend to develop and propose innovative/creative products by further advancing technical platforms and developing and synergistically blending new technologies to ensure sustainable growth and contribute to society.

Connecter Division
- Contact Reliability Technology / Connection Integrity Technology
- High-speed Transmittal Design and Evaluation Technologies
- Stamping, Molding and Surface Treatment Technologies
- High-precision Assembly and Automation Technologies

User Interface Solutions Division
- Converting Technology
- Tactile Feel Technology
- Touch Interface Technology
- Switch Contact Technology
- High-precision Mechanical Design Technology
- A technology integrating various technical aspects of printing, bonding, coating, and laminating to create new added values

Technology platforms

Aerospace Division
- Precision Motion Sensing Technology
- High-reliability Motion Control Technology
- Precision Mechatronics Technology
- Ruggedized Environment Design, Evaluation Technology

Product Development Center
- Next-generation Mounting Technology
- Next-generation Microfabrication Technology
- Next-generation Optical and Electrical Sensing Technologies
- Functional Material Design and Evaluation Technologies
- Technical Collaboration beyond the Boundaries of Conventional Approaches

ICT technology for next generation market segments

Communication
- Mobile devices, Wearable devices

Mobility
- EVs, HVs, Autonomous driving system

Life Science
- Healthcare (OT), Regenerative Medicine

Topics

Optical high-speed connection products
- Creating new values by combining submicron-precision measurement, optical mounting, molding, and high-speed data transmission technologies

High-speed packaging and wearable devices for mobile healthcare
- Developing fundamental flexible electronics technology through advanced materials and printing technologies
- Participating in a National Institute of Advanced Industrial Science and Technology (AIST) consortium, JAE was given the Application Award at Printable Electronics 2017
- An abstraction module using flexible electric connection and mounting techniques

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.

A compact inertial measurement unit suitable for motion and attitude measurements
- By using the MEMS (Micro Electro Mechanical System) sensor, JAE achieved the goals of small size, low cost and high precision, and developed new products in the industrial and private sectors.

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

High-precision Sensor Units
- Next-generation motion sensors (high-precision control/diagnosis)
- 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 production system that focuses on local in-house production manufacturing 24 hours a day, 7 days a week. With automated operations and JAE designed labor-saving equipment mainly located in JAE Hiroaki, JAE Yamagata and other domestic plants, our production is unaffected by rapid foreign exchange fluctuations. 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.
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.

1. Fair and Honest Corporate Activities
2. Pursuit of Customer Satisfaction
3. Disclosure of Corporate Information
4. Harmony with the Environment
5. Harmony with Society
6. Respect for Human Rights
7. Respect for Employees' Individuality and Personality
8. Management of Intellectual Properties and Information

Initiatives for children who will lead the next generation

Monozukuri Taikan Stadium (JAE)
JAE participated in the Monozukuri Taikan Stadium with the goal of inspiring children's interest in building things through firsthand experience in workshops, etc.

Eye exam for children (JAE Tijuana)
In cooperation with a local optometrist, we conducted an eyesight test on the children of employees (aged 5 to 12).

To SUCCEED, you must READ (JAE Philippines)
Read picture books to pupils of a kindergarten in the neighborhood and donated picture books.

Part of the local community

Hiroasaki Neputa Festival (JAE Hiroasaki)
Participated in Neputa Festival “Hiroasaki”, and donated small-size designated important intangible cultural asset, and the JAE group recorded the 24th appearance in 22 years in a row.

Flower planting volunteer program in flowerbeds (JAE Yanagata)
JAE constructed flowerbeds along the neighbor national road, where we planted 250 Madagascan periwinkle (mirabilis alba) plants.

Presented Christmas gifts to elderly people in the neighborhood (JAE Tijuana)
Donated clothes and blankets in a wrapped state to the neighbor community center as Charmis gifts for the elderly.

For ourselves in the future

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

Adopt a Forest Project (JAE Philippines)
We planted oak trees in the area of about 2 hectares in Mt. Ibus, Province of Cainte, as an activity of Global Earth Day.

Trail walk along the Lihu Lake in Wuji (JAE Wuji)
We entered in the activity of picking up garbage at Lihu Lake in order to beautify the environment. The activity served as boosting the spirit of environmental protection.

Environmentally Conscious Management

Basic Philosophy

The JAE Group will 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 biological diversity.

“ISO14001” Certification

Basic Approaches

- Compliance with environmental laws and regulations/monitoring and measurement
- Compliance with eco-friendly designs
- Reduction of industrial waste output/
 Promotion of recycling
- Reduction of chemical substance use/
  Promotion of green procurement
- Compliance to the RoHS and REACH

JAE Group’s Ten-Point Plan for Saving Energy

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. With the cooperation of local parties and through the forest preservation activities implemented by our employees, we have engaged in various efforts for creation of an earth-friendly environment, such as improvement of environmental awareness, cultivation of forests, preservation of water sources, etc.

Environmental protection

Improvement of water resource management through visualization of water resources balance

The JAE Group is developing a wide range of activities to streamline the use of various kinds of water such as water reuse, rainwater reuse for the purpose of economizing and consuming water resources effectively. JAE activities include protection of forests in Japan and overseas, as well as protection of water resources by means of river cleaning.

Akishima Office, where 70% of the water consumption depends on groundwater, confirmed the balance of water resources as part of an in-depth water risk research.

The balance of water resources is visualized to enable us to identify the trends of water consumptions on yearly basis and the relationship with production output; accordingly, it is possible to confirm the issues regarding future measures to curtail water consumption as well as the effects of rainwater infiltration tank.
Global Network

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

Head Office / Japan

Head Office
10-8, Dogenzaka 1-chome, Shibuya-ku, Tokyo 150-0043, Japan
Tel: +81-3-3780-2711 Fax: +81-3-3780-2733

Sales and Marketing

Head Sales Office
1-19, Aobadai 3-chome, Meguro-ku, Tokyo 153-8539, Japan

- Connector Sales Planning Div.
- Connector 1st, 2nd, 3rd Sales Div.
- Product Marketing Div.
  Tel: +81-3-3780-2717 Fax: +81-3-3770-3869

- User Interface Solutions Div. Sales Dept.
  Tel: +81-3-3780-2843 Fax: +81-3-3780-2812

Branches and Sales Offices

- Osaka Branch Office
- Chubu Branch Office
- Sendai Sales Office
- Utsunomiya Sales Office
- Shizuoka Sales Office
- Fukuoka Sales Office

Development and Manufacturing

Akishima Plant
1-1, Musashino 3-chome, Akishima-shi, Tokyo 196-8555, Japan
Tel: +81-42-549-9112 Fax: +81-42-549-9559

- Connector Div.
- User Interface Solutions Div.
- Aerospace Div.
- Product Development Center

Subsidiaries in Japan

JAE Fuji, Ltd.
http://www.jae.ja.co.jp

JAE Shinshu, Ltd.
http://www.sae.ja.co.jp

Meiyu-Giken Co., Ltd.
http://www.meiyu-giken.co.jp

JAE Hakko, Ltd.
http://www.hakko.co.jp

JAE Yamagata, Ltd.
http://www.yamagata.ja.co.jp

JAE Business Support, Ltd.
http://www.business.ja.co.jp

Nikko Logistics, Corp.
http://www.nikko-logistics.co.jp

JAE Foods, Ltd.
http://www.jafoods.co.jp

- Head Office
- Development and Manufacturing
- Sales
- Services / Others
- Company
- Branch Office / Others