Welcome to Aerospace Industry in the City of Nagoya!

The City of Nagoya is the aerospace industrial center of Japan. There are more than 150 aerospace related corporations in Nagoya. They are aircraft makers – which are driving the domestic aerospace industry –, as well as Tier 1 aircraft body makers and Tier 2 small- and medium-sized suppliers. There are also trading companies, supporting manufacturers providing component products like jigs and tools, and service providers of design, testing, and engineer-dispatching services. In addition, Japan’s major material makers of carbon fiber composites, aluminum, specialty steels, and ceramics are driving the research and development activities of the next-generation materials technology right here in Nagoya. You will also find research institutes like the Composite Engineering Research Center attached to Nagoya University – Graduate School of Engineering, as well as educational institutions, such as Nagoya University and Nagoya Institute of Technology, which are conducting R&D and training in the area of aerospace. Many aerospace enterprises collaborate with these educational institutions as well as government agencies, forming the aerospace industrial cluster.

The City of Nagoya is also located in the Chubu region – consisting of Aichi, Gifu, Mie, Toyama and Ishikawa Prefectures –, which boasts the largest aerospace industrial center in Japan. In 2010, the yield in the region’s aerospace industry was ¥700 billion, accounting for 1.5% of the global market share, with exports reaching ¥180 billion. These numbers were produced by a workforce of about 15,000. As the global demand for aircraft grows, the aerospace industry is also expected to grow. In anticipation of this market growth, the Aichi/Gifu region was designated in December 2011 as the Comprehensive Special Zone for International Competitiveness Development, or the “Special Zone to Create Asia’s No.1 Aerospace Industrial Cluster”. Aiming to become one of the Top 3 hubs in the global aerospace industry rivaling Seattle, USA and Toulouse, France, the Aichi/Gifu region will continue its efforts to improve and strengthen its production functions, support the development of next-generation aircraft, expand the aerospace industry, and train and secure the necessary human resources.

The history of the region’s aerospace industry goes back nearly 100 years, when Mitsubishi Nainenki Seizo and Aichi Tokei Denki began manufacturing aircraft and related products in 1920. It was also this region which gave birth to the Navy Type Zero Carrier Fighter about 80 years ago. Today, in this leading aerospace industrial cluster in Japan, the development of the first Japanese-made jet passenger aircraft, the MRJ, is in progress. Not only that, the next-generation private aircraft with superior environmental adaptability is coming to fruition.

This directory is a listing of businesses which operate in the aerospace industry and its supporting industries and have business locations in the City of Nagoya. The directory provides you with the corporate profiles and descriptions of products/services of these enterprises. I hope this directory will help you find your partners in the aerospace business.

September 2014

Civic & Economic Affairs Bureau, City of Nagoya
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Description of Aerospace Business

- Airframe structure and systems design, stress analysis and testing design, and other aircraft-related engineering services

Business Description

● Product and Service Features
- The president and employees at AET all have a rich and long experience in aircraft design. Based on their experience, AET offers services in design, analysis, testing, and more of aircraft and aircraft equipment. (Design software: CATIA V5, Micro CADAM and NASTRAN)
- AET's in-depth experience in developing and manufacturing unmanned aerial vehicles, or UAV, is backed by proven performance in projects for the Ministry of Defense, JAXA, etc. AET offers comprehensive services covering the entire process from development/design, manufacturing, to flight testing. AET is currently developing a UAV for JAXA and JAEA to monitor ground conditions.
- AET also performs various design modifications and strength analysis for domestic helicopter operators/security firms to support their compliance with Japan Civil Aviation Bureau.
- AET works with domestic aviation trading firms in the development of helicopter-related equipment.
- We also receive design projects from overseas aerospace firms.

● Forte
- Offering expert knowledge and technologies in aviation backed by years of experience in design.
- In addition to design, we also provide parts specific to aviation through collaboration with our partner manufacturers.
- A wide scope of our engineering services are available through our domestic and global network built upon our experiences in the field.
Description of Aerospace Business

- Survey, planning, design, supervision, and execution of airport facility construction work
- Manufacturing and sales of airport facility components

Business Description

- Product and Service Features
  - J. Front answers to comprehensive needs covering survey/design to construction/maintenance of airport facilities.
  - J. Front’s airport products include check-in counters, lobbies, tenants, and airline lounges.

- Forte
  - Network to serve a wide range of needs
    Since its establishment in 1998, J. Front has provided services for various projects, building its own unique network along the way. With this network, J. Front can answer all of your marketing, design, and furnishing needs. With major department stores such as Daimaru and Matsuzakaya as its core, J. Front Retailing Group also has a global network which conducts various businesses.
  - Pursuit of efficiency and high-quality
    Value engineering is integrated at an early stage by aiming to efficiently furnish the space as visualized by the customer at low cost. J. Front realizes the project at the lowest possible cost by reviewing all processes from material selection, procurement of furnishings, to construction method.

Located in Nagoya
Nagoya Office
Address
4-1-15, Chiyoda, Naka-ku,
Nagoya 460-0012

Corporate Data

URL
http://www.jfdc.co.jp/
Representative
Sadayuki Ayukawa, President
Establishment
1998
Capital
¥100 million
No. of Employees
308

Contact

Sales Inquiry

TEL
+81-52-323-1558
FAX
+81-52-323-1568
E-Mail
Please use the inquiry form available from our website

Certification
ISO9001
MHI Aerospace Systems Corp.

Description of Aerospace Business

- Design of control systems for aerospace applications
- Development of software for aerospace equipment
- Development of software for aerospace ground systems
- Support for MRJ(*1) vehicle type-certification

(*1) Mitsubishi Regional Jet: Japan-made 70-90 class passenger aircraft currently in development and production.

Business Description

- Product and Service Features
  - MASC works closely with customers in system concept definition phase to develop and design software.
  - Safety is the top priority in aircraft software. MASC provides highly-reliable systems built upon the accumulation of know-how.

- Forte
  - As a subsidiary company of Mitsubishi Heavy Industries, Ltd., MASC delivers its reliable engineering technologies and develops real time software installed in aircraft, rockets, and satellites as well as flight simulators used on ground.
  - MASC provides software of the highest-level quality built upon in-depth expertise in the aerospace field. Also, we provide independent validation services to validate design processes against system requirements for safety and reliability.
  - MASC has rich human resources well-trained in the aerospace field and the know-how and engineering capability proven by our achievements. Quality is ensured through close communication with the customers.
MHI Aerospace Production Co., Ltd.

Description of Aerospace Business

- Manufacture of metal and composite parts for aerospace equipment (machine processing, sheet-metal processing, surface treatment/coating, composite processing)
- Structural assembly of aerospace equipment
- Engineering services (planning) related to manufacturing of aerospace equipment

Business Description

- Product and Service Features
  - Our forte has always been the manufacturing engineering (planning), which is the key to aerospace equipment production. In addition to in-house production, we provide manufacturing support to our partner companies.
  - As one of the few companies which can handle surface treatment and coating crucial to aerospace equipment parts, we process parts for partner companies as well as our own parts.

- Forte
  - Capability to offer integrated service in the manufacturing of aerospace equipment, from production planning all the way to the final product testing.
  - We can meet your needs in a flexible manner for individual services such as manufacturing engineering (planning), jig/tool design and manufacturing, part processing, surface treatment and coating, testing, etc.
MHI Aerospace Logitem

Description of Aerospace Business

- Comprehensive services related to distribution, transport, and packaging

Business Description

- We offer comprehensive services for distribution, transport, and packaging of extremely delicate products such as aircraft and space equipment.
- Timely delivery of aircraft materials and parts to manufacturing sites.
- We have a facility where required materials are cut and shipped just as required by the manufacturing site.
- Shipping of extremely large products, such as a fuselage of passenger aircraft, is carefully planned and executed.
- We provide packing and packaging suitable for the product characteristics and shipping conditions.

Located in Nagoya
Head Office
Address
2-11-33 Iseyama, Naka-ku,
Nagoya 460-0026

Corporate Data

URL
http://www.mhiasl.co.jp/
Representative
Hiroyuki Nakamura, President
Establishment
1988
Capital
¥10 million
No. of Employees
479

Contact

Sales Inquiry
Project Management Division
TEL
+81-52-322-2630
FAX
+81-52-322-2631
E-Mail
mhiasl@mx.nasw.mhi.co.jp

Certification

ISO9001
ISO14001
AS9100
NTN Corporation

Description of Aerospace Business

- Research, development, design, manufacturing, and sales of bearings for aircraft jet engines, helicopter gear boxes, airframes, satellites, rocket engines, and gas turbine engines

Business Description

- NTN is a precision equipment manufacturer which offers bearings, constant velocity joints, and other precision products worldwide.
- The main products are rolling bearings, constant velocity joints, automotive hub bearings, and sliding bearings.
- NTN has a global network of R&D, sales, and manufacturing locations.
- NTN aerospace bearings are supplied to major global jet engine manufacturers such as GE (US), Pratt & Whitney (US), Rolls-Royce (UK), SNECMA (France) as well as Japanese heavy industry makers.
- A long history as the supplier of bearings for H-IIA and H-IIB rocket engines.
- NTN special bearings are used in satellites. NTN products were used in the Japanese Asteroid Explorer, "Hayabusa".
- At the Kuwana (Mie Prefecture) Plant specialized in aerospace bearings, the integrated production system covering heat treatment through final inspections is employed in order to maintain high quality.
PD AeroSpace, LTD.

Description of Aerospace Business

- R&D and operation of spacecraft
- R&D of pulse combustion technology
- Technical consultation

Business Description

Product and Service Features

- One of the few space-venture companies in Japan.
- Fully reusable sub-orbital spaceplane for unmanned and manned flights.
- Unmanned types are used for experiments and observations while manned types are used for space travel.
- Putting satellites and objects into orbit (in our future scope of business).

Forte

- Strong network in R&D and business fields.
- A member of the government committee for space transportation since February 2013.
- Rocket engine technologies and unmanned aerial technologies.
- Support, cooperation, and sponsorship from many universities, research institutes (include JAXA), and private companies.
- A patent granted for the Pulse Detonation Engine (combustion mode switching) in May 2012.
TEKnia Co., Ltd.

Description of Aerospace Business

• Producing aircraft components and airframe parts

Business Description

● Product and Service Features
  • TEKnia manufactures motor parts, hydraulic actuator parts, flight control parts and airframe parts.
  • Precision unachievable with machining devices is made possible by the craftsmanship of experienced operators to satisfy the needs of customers. To maintain excellence in quality and technique, TEKnia places emphasis on training of workers and passing on skilled workers’ knowledge and technologies to younger generations.

● Forte
  • To handle any type of machine processing, TEKnia has extensive processing facilities, ranging from machining center, NC lathe, multi-function machine, to all-purpose machine and grinding machine. TEKnia excels in the processing of high-hardness steel, stainless steel, and titanium.

Corporate Data

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Contact

Sales Inquiry
Planning Sales Department
TEL
+81-52-303-3347
FAX
+81-52-303-3354

Certification

ISO9001 (2008)
JISQ9100 (2004)


UACJ Corporation

Located in Nagoya
Nagoya Works
Address
Chitose 3-1-12, Minato-ku,
Nagoya 455-8670

Corporate Data

URL
http://www.uacj.co.jp/
Representative
Mitsuru Okada, Member of the
Board, President CEO
Establishment
2013
Capital
¥45 billion
No. of Employees
1,106 (Nagoya Works)

Contact
Sales Inquiry
Chubu Office
TEL
+81-52-324-4710
FAX
+81-52-324-4730

Certification
ISO9100 (2010)
ISO14001 (2002)
ISO/TS16949 (2013)

Description of Aerospace Business

- Development and manufacture of aluminum sheet & plate products for aircraft
- Development and manufacture of aluminum extrusion products for aircraft (by UACJ Extrusion Corporation)
- Development and manufacture of aluminum casting & forging products for aircraft (by UACJ Foundry & Forging Corporation)

Business Description

● Product and Service Features
- On October 1, 2013, UACJ Corporation was founded via the merger of Furukawa-Sky Aluminum Corp. and Sumitomo Light Metal Industries, Ltd. As a global player with its origin in Japan, UACJ leads the global aluminum market and, at the same time, is working to further consolidate the group into an organization which can maximize its capability.

● Forte
- UACJ's sheet & plate products are the result of some of the finest manufacturing capabilities in the world. This includes thickness control technologies of the highest standard, and one of the world's largest rolling mills with 400 m in length and 4.3 m in width. Using a combination of sophisticated manufacturing technologies, expertise amassed over many years, and thorough quality assurances, UACJ is able to supply products optimized to meet customer needs across a wide range of fields.
- With its most advanced design technologies, UACJ is capable of satisfying the various needs of extruded products. UACJ has a number of leading engineers with years of experience in designing extrusion dies, which is the key to high quality extruded products.
- UACJ maintains a high engineering capability combined with one of Japan's largest forging presses to meet the need for various forging products.
ACCEL Corporation

Description of Aerospace Business

- Dispatch personnel to aircraft assembly firms
- Partial assembly service for aircraft

Business Description

- In cooperation with “Galileo”, a group company dispatching engineers, ACCEL provides human resources where needed.
- ACCEL responds to changes in time and needs and offers the optimum plan and the best personnel.
- New personnel hired throughout Japan receive training lasting 2 weeks to 1 month before they are assigned.
- Our motto is “Providing Human Resources As Needed When Needed”. ACCEL serves customers by satisfying their needs and providing quality services.
Description of Aerospace Business

- Procurement and sales of aerospace products

Business Description

Product and Service Features
- We answer all your aerospace needs, from apparatus to devices, from mechanical products to electrical products.
- Under the corporate policy “Trust, Harmony,Courtesy”, our mission is to contribute to society by satisfying the various business activity needs.

Forte
- Founded upon the mutual trust developed with our customers, we support their engineering groups by conducting thorough investigation of products which satisfy their requirements and specifications, and recommending the most suitable products for their needs.
Altech Corporation

Description of Aerospace Business

- Dispatching engineers to aircraft manufacturers

Business Description

- Product and Service Features
  - As an industrial outsourcer, Altech Corporation dispatches Altech engineers, who are highly skilled technicians, and provides design and development services as a reliable contractor.
  - Altech Corporation has more than 2,000 engineers in a wide range of technical fields including machinery, electricity, electronics, software, IT, and chemistry and many of them have technological know-how and experience in the aerospace industry.

- Forte
  - Altech Corporation was founded in 1968 as Matsui Design Office. Since then, we have been a pioneer in engineer assignment which emphasizes technical ability. Our business scale and total corporate ability is among the top tier in the industry.
  - All our engineers who are dispatched to customers are permanent employees of Altech. This enables Altech to provide clients with stable and reliable technical support.
  - Altech has its own plants in Tochigi and Nagano Prefectures, where our engineers provide one-stop solutions to customer needs in mechanical and electrical design, control software development for various measurement and manufacturing devices, as well as fabrication, evaluation, and on-site surveys of devices.
**Description of Aerospace Business**

- Dispatching staffers to aircraft manufacturers and executing contracted testing projects

**Product and Service Features**
- Backed by our high technological expertise, ALLEX performs structural, environmental, and functional testing and other tests for customers, and provides consultation services as well.
- Our manufacturing team not only provides support in the manufacture of wire harnesses and rigging of aircraft outfits, but it also performs planning and sales of measuring instruments.

**Forte**
- ALLEX is strongest in designing special jigs and testing jigs, performing structural analyses and providing testing consultations. A team of our expert engineers answers to the various needs of customers.
Description of Aerospace Business

- Development, manufacture, and sales of helicopter television relay systems and satellite broadcasting vans
- Development, manufacture, and sales of airport surveillance systems

Business Description

Product and Service Features
- TV camera systems for helicopters
- HDTV (High Definition TV) cameras
- High-sensitivity high-definition cameras
- Compact microwave receiving equipment
- Portable auto-tracking devices

Forte
- Our main product, broadcasting system equipment, is a four-time winner of the Technology and Engineering Emmy® Award, the broadcasting industry’s equivalent to the Academy Awards.
- In 2007, Ikegami’s HDTV camera was used to record high-definition video of the Selenological and Engineering Explorer (SELENE), also known as “Kaguya”.
- Ikegami has developed a highly-acclaimed super compact, lightweight camera with a vibration controller to be mounted on helicopter.
Izawa Metal Co., Ltd.

Description of Aerospace Business

- Sales of special alloy parts for aircraft and rocket engines
- Sales of cemented carbide tools for aircraft, and providing maintenance services

Business Description

- Product and Service Features
  - As a trading firm specializing in nonferrous metals, Izawa Metal captures the precise needs of customers, offers recommendations, and provides optimum products by makers with good standing in the industry.
  - Izawa Metal offers cemented carbide tools and provides maintenance services for the tools.
  - From the standpoint of the total management of metal materials, Izawa Metal serves customers beyond the boundaries of a “trading firm” by serving as a bridge between differing technologies and offering proposal for new products.

- Forte
  - With a depth of experiences, technical knowledge, and know-how accumulated since its establishment, Izawa Metal offers high-quality products to its customers.
  - We reach out to our customers on a regular basis and proactively offer recommendations. This policy has won the customers’ trust and has earned us an excellent reputation in the industry.
  - We have established collaborative relationships with many businesses with high reputations in their technological fields in the Nagoya area, allowing us to provide high quality products to customers.
Isomura Industrial Co., Ltd.

Description of Aerospace Business

- Precision machine processing of airframe parts and aircraft engine parts

Business Description

- Product and Service Features
  - Isomura performs machine processing of airframe parts such as fittings and hinges as well as aircraft engine parts like turbine cases and seal cases.

- Forte
  - Excels in processing of superalloy metals.
  - Isomura possesses the capabilities to process parts with approx. 1,000 mm in diameter.

Located in Nagoya
Head Office/Factory
Address
6 Tohocho, Nishi-ku,
Nagoya 452-0837

Corporate Data

URL
http://www.k-isomura.co.jp/
Representative
Mototake Isomura, President
Establishment
1980
Capital
¥10 million
No. of Employees
24

Contact

Sales Inquiry
Sales Department
TEL
+81-52-501-8826
FAX
+81-52-501-7146
E-Mail
info@k-isomura.co.jp

Certification

JISQ9100 (2009)
JISQ9001 (2008)
Description of Aerospace Business

- Sales of various chemical products such as cleaning solutions for aerospace parts
- Sales of cleaning devices

Business Description

- Product and Service Features
  - Itoh Chemical only sells value-added products combined with the manufacture’s know-how. We do not offer chemical products whose name is identical to the chemical.

- Forte
  - Itoh Chemical starts by fully understanding the customer’s needs. Our representative will ask about the customer’s precision product and its material, configuration, quantity, etc. as well as cleaning specifications. We will search for the best combination of cleaning solution and cleaning device and provide both as a product set.
  - With knowledge of products offered by more than 50 chemical makers, Itoh Chemical is capable of finding exactly what the customer needs.
  - Having a development team within the Sales Department, Itoh Chemical can determine and deliver exactly what the customer wants.
  - Itoh Chemical is licensed as a General Engineering Contractor for the machinery & equipment installation; we have the in-house capacity to install industrial cleaning machines and other equipment purchased by the customer.
# Airlis Enterprise

## Located in Nagoya
Headquarters

Address
3-36 Kanseicho, Minato-ku,
Nagoya 455-0066

## Corporate Data

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<th>URL</th>
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<tr>
<td>Representative</td>
<td>Koji Nishimura, President</td>
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## Contact

Sales Inquiry
Sales Section
TEL
+81-567-69-6635
FAX
+81-567-69-6636
E-Mail
info@airlis.co.jp

## Description of Aerospace Business

- Design and manufacture of jigs, tools, parts, and devices, etc. used in aerospace-related manufacturing

## Business Description

- **Product and Service Features**
  - Airlis specializes in designing and manufacturing production jigs and tools in the area of aerospace.
  - Airlis manufactures large-size assembly jigs required in mass-production of large passenger aircraft.

- **Forte**
  - Airlis is capable of manufacturing large aircraft-assembly jigs as a component for a tool or as a complete product.
Description of Aerospace Business

- Dispatching engineers to aircraft makers and executing contracted engineering projects

Business Description

- Product and Service Features
  - NTC’s team of aerospace engineering experts provides technical support services covering design, production engineering, quality assurance, and customer support.
  - NTC can also analyze aircraft operation data, prepare aircraft-related manuals, design aircraft cleaning equipment, and other various contracted engineering projects.
  - In addition, NTC plans, designs, and sells jigs and tools for aircraft maintenance.

- Forte
  - Our in-depth experience in defense aircraft allows us to provide the customer with a variety of support and recommendation services.
O&M Heater Co., Ltd.

Description of Aerospace Business

- Manufacture and sales of silicon rubber heaters for aircraft production

Business Description

Product and Service Features

- As a manufacturer specialized in silicon rubber heaters, O&M can provide even a single silicon rubber heater which fits the most complex configuration of aircraft.
- We sell temperature controllers required in the molding and repair of CFRP.

Forte

- Through the collaboration with materials makers, O&M can develop, upon request, silicon rubber heaters that best suit the customer's needs.
- As a manufacturer specialized in heaters, O&M can provide specialty products, such as heaters with magnets and stretch-type heaters, consistently with a short lead time.
Okouchi Metal Corporation

Description of Aerospace Business

- Sales of aluminum, aluminum alloy, and other nonferrous metals
- Primary cutting service using processing machines specializing in large parts

Business Description

- Product and Service Features
  - We maintain a sufficient stock of aluminum alloy for aircraft, and we can meet your needs with short delivery times.
  - We can also perform the primary cutting and processing of the material according to your specifications.

- Forte
  - Aluminum materials in various configurations are stored in automated powered-racks in our warehouse, enabling us to quickly deliver materials to the customer.
  - With material cutting machines and special processing machines developed in-house, we can perform primary cutting even on large aluminum alloy.
  - Materials in stock
    - 2024-T351, 6061-T651, 7050-T7451, 7075-T7351, 7475-T7351
Owari Precise Products Co., Ltd.

Description of Aerospace Business

- Manufacture of fasteners and machine-processed parts for aircraft

Business Description

● Product and Service Features
  - Owari has acquired the Nadcap certification as a part of our efforts to consolidate aircraft-specific processes. We are aiming to expand our commercial aircraft business.

● Forte
  - Owari is a Defense-Ministry-approved manufacturer of self-lock nuts and other aircraft fasteners. As a comprehensive fastener manufacturer, Owari can satisfy all of your fastener needs for quality and functionality.

Corporate Data

Located in Nagoya
Head Office
Address
3-16-85 Yada, Higashi-ku,
Nagoya 461-8678

URL
http://www.owariseiki.co.jp
Representative
Koichi Fukamizu, President
Establishment
1906
Capital
¥1,093,970,000
No. of Employees
Approx. 400

Contact
Sales Inquiry
Aircraft Division
TEL
+81-52-721-3674
FAX
+81-52-723-2966

Certification
ISO9001 (2008)
ISO/TS16949 (2009)
ISO14001 (2004)
JISQ9100 (2009)
MSJ4000
MS84001
KQMS-7100
KQ-7201
Nadcap HT
Description of Aerospace Business

- Manufacture and sales of aerospace parts and products and components for aerospace apparatus
- Specified Worker Dispatch Undertakings (Providing high-qualified contract aviation mechanics and technicians to clients)

Business Description

● Product and Service Features
- Kaga Sangyo is a “fabless” company which means that there are no manufacturing facilities within the company. We outsource all manufacturing processes.

● Forte
- Kaga Sangyo has established the “integrated order system” which allows customers to order all processes from material/component procurement to design, production and quality assurance.
- Kaga Sangyo has a network amounting to over 150 cooperating companies. Through optimal coordination of techniques and technologies possessed by each partner, we can propose solution strategies for even the most difficult of challenges.
- Kaga Sangyo has developed our own unique patented technologies in formulating sealant and fabricating shims. A number of our ideas are realized and applied for safety technologies in aviation programs.
- Customer satisfaction has always been the number one priority of Kaga Sangyo for 40 years since our establishment. This is our foundation of trusted relationships with customers.
- Kaga Sangyo has an extensive knowledge of requirements in aircraft production, whether it is for commercial use or defense. Building upon our expertise, we cooperate closely with our partner companies to achieve a “robust ‘fabless’ structure”.

Located in Nagoya
Head Office
Address
Tousen Bldg. 2F, 4-2-40 Ohsu, Naka-ku, Nagoya 460-0011

Corporate Data

URL
http://www.kagasangyo.co.jp/
Representative
Osamu Mizoguchi, President
Establishment
1973
Capital
¥10 million
No. of Employees
131

Contact

Sales Inquiry
Aerospace Equipment Sales Department
TEL
+81-52-241-7131
FAX
+81-52-241-7148
E-Mail
webmaster@kagasangyo.co.jp

Certification
JIS Q 9100 (2009)
# Description of Aerospace Business

- Manufacture of aircraft assembly jigs
- Prototype development and manufacture of testing facilities for space-related equipment
- Specified Worker Dispatching

## Business Description

### Product and Service Features

- The main business of Kato Seimitsu is prototype development production and manufacture of testing facilities for space apparatus as well as the manufacture of aircraft assembly jigs.
- We also make test samples for space apparatus upon request from universities and other organizations.

### Forte

- We conduct business under the policy of "SPEED, SENSE, SPIRIT". Our products are highly evaluated by customers.
- We provide high-quality products backed by ISO9001 and JISQ9100 certifications.
Kinoshita Precision Industrial Co., Ltd.

Description of Aerospace Business

- Manufacture of small precision machined parts for aircraft

Business Description

● Product and Service Features
  - A 65-year tradition as a sewing machine manufacturer.
  - Our industrial automatic bobbin changer is a unique product built upon Kinoshita's one-off technologies.
  - We manufacture machined parts for small precision equipment used in large aircraft.
  - In addition to precision parts of within 30 cm³ (A4 size), Kinoshita can now provide parts up to 50 cm³ (A3 size).

● Forte
  - Kinoshita has capabilities to perform machine-processing on precision parts and on hard materials such as Inconel.
Description of Aerospace Business

- Dispatching engineers to aircraft manufacturers and performing contracted engineering projects such as:
  - structural design and structural analysis of aircraft
  - strength testing of aircraft and testing device design
  - production engineering and assembly jig design for aircraft and space equipment

Business Description

- Product and Service Features
  - Ginjo excels in design/analysis of aircraft and production engineering. We consider it of utmost importance to gain the trust of customers when providing manufacturing support.
  - Ginjo’s engineering support such as jig design for engineering testing is backed by high technical capabilities accumulated by our experiences in the aerospace industry.
  - Ginjo executes contracted projects to design and fabricate assembly jigs and tools.

- Forte
  - Ginjo has a high technical expertise to undertake contracted engineering projects.
Description of Aerospace Business

- CAE analysis in the field of aerospace
- Dispatching engineers to aircraft manufacturers

Business Description

- Global Assist offers value-added services in upstream design and CAE analysis of components used in HVAC, fuel, landing gear, and escape systems for aircraft.
- Global Assist constantly takes on innovative projects in the design and development fields to better serve our customers’ needs.
- We never compromise on quality and always set our targets high. This is how we offer high-quality design and analysis services.
- Global Assist manages data/information based on a strict and highly-secure management system in accordance with ISMS.
- Global Assist is proactive in CSR activities. We contribute to society through our business activities.
Koike Seisakusho Co., Ltd.

Description of Aerospace Business

- Contracted manufacture of sheet metal parts for aircraft
- Contracted manufacture of sheet metal parts for rockets and space stations

Business Description

- Product and Service Features
  - Koike Seisakusho offers one-stop manufacturing services, including production planning of sheet metal parts for private aircraft, helicopters, rockets, and space stations.

- Forte
  - Certified in the ISO9001 international quality standard and the JIS Q9100 international aerospace standard. Koike Seisakusho has gained the trust and high reputation amongst our customers in quality, delivery, and cost.
Kokoku Electric Industry Co., Ltd.

Located in Nagoya
Head Office
Address
1-12-9 Tenma, Atsuta-ku,
Nagoya 456-0034

Corporate Data
URL
http://www.koukoku-d.co.jp/
Representative
Kiyoshi Yoshikawa, President
Establishment
1948
Capital
¥48,960,000
No. of Employees
54

Contact
Sales Inquiry
Sales Department at the Head Office
TEL
+81-52-671-4157
FAX
+81-52-681-9566
E-Mail
Please use the mail form available from our website

Certification
N/A

### Description of Aerospace Business
- Repair and alteration of dashboards and control panels for testing devices and machine tools
- Repair and alteration of dashboards and control panels for plant facilities

### Business Description

#### Product and Service Features
- Kokoku Electric is a provider of engineering services such as repair, alteration, design, and manufacture of dashboards and control panels as well as a comprehensive wholesaler of electrical facility components.

#### Forte
- Design, sheet-metal processing, product fabrication, wiring of control panels, parts procurements, and all other processes are performed in-house. Kokoku Electric provides custom-made products to customers in a shorter turnaround time at a lower cost than any of our competitors.
- With 66 years of experience and know-how, Kokoku Electric designs, manufactures, and repairs analog sequencers.
- We can increase the performance of old motors by replacing its inverter with a newer model. We can also repair control panels without drawings by reconstructing a drawing based on the actual panel.
- As a parts sales agent of major electric and electronics makers, Kokoku Electric maintains sufficient parts in stock, allowing immediate delivery.
Kobe Material Testing Laboratory Co., Ltd.

Description of Aerospace Business

- Design and preparation of test specimens
- Design and manufacture of special instruments and equipment
- Various strength testing and analysis
- Various metallographic testing and analysis
- Soundness/life evaluation of structures and members
- Dispatching support engineers for research and development

Business Description

- **Product and Service Features**
  - Kobe Material Testing Laboratory Group is comprised of three companies; Kobe Material Testing Laboratory Co., Ltd., Minatogawa Kinzoku Test Piece Manufacturing Co., Ltd., and Tsurui Chemical Co., Ltd. Through the group's comprehensive ability, we offer one-stop testing services covering test method recommendations, test specimen preparation, testing, and reporting.

- **Forte**
  - Supports international testing standards.
  - Certified to the Quality Management System.
  - Received NADCAP certification as a testing laboratory as well as S-400 certification by GE (US).
  - Highly recognized in Japan and abroad as a private independent laboratory.
  - We have comprehensive technologies to perform various material testing, evaluation, and analysis, backed by a wide range of testing machines and equipment which can handle various types of testing, processes, and chemical analysis.
KORYO Ltd.

Description of Aerospace Business

- Design and manufacture of automatic control panels
- Development of ground testing equipment for aircraft
- Manufacture of aircraft assembly jigs
- Modification work of control equipment (sequencer, servo) for facilities and special-purpose aircraft

Business Description

- Product and Service Features
  - Koryo has established a system to handle all phases of a product order, from design/development, material procurement, manufacturing, to on-site installation, testing and adjustment.

- Forte
  - Our capability to develop and manufacture control systems is built upon experience and know-how gained in various industries such as aerospace, industrial machinery, special-purpose aircraft, and distribution systems. We can offer optimum recommendations to answer various needs of customers through synergy of our accumulated knowledge.
  - Renewing control panels without drawings or even foreign-made control panels is possible with Koryo. We can do this by creating drawings based on the actual panels.

Located in Nagoya
Headquarters Factory
Address
602 Wakitacho, Moriyama-ku,
Nagoya 463-0024

Corporate Data

URL
http://www.ko-ryo.co.jp/
Representative
Takashi Wakasugi, President
Establishment
1978
Capital
¥10 million
No. of Employees
58

Contact

Sales Inquiry
Sales Department
TEL
+81-52-798-4523
FAX
+81-52-799-1427
E-Mail
info@ko-ryo.co.jp

Certification

MSJ4000
General Contractor License
(Permit), Electrical Work
issued by the Governor of Aichi Prefecture (General-21) No. 105503
Kowamex Corporation

### Description of Aerospace Business

- Dispatching engineers to design and develop aerospace equipment
- Performing contracted projects to design and develop aerospace equipment

#### Business Description

- **Product and Service Features**
  - Based upon trusted relationships with our customers, Kowamex provides support in various engineering tasks such as structural strength design, electrical equipment design, and test data analysis of aircraft.
  - Kowamex performs contracted projects for design/analysis, testing/measurement, 3D CAD/CAM multidiscipline engineering, etc.

- **Forte**
  - Analysis of aircraft design involves analytical expertise in strength, vibration, aeromechanics, heat, and mechanisms, requiring high engineering capabilities and a wide scope of analytical techniques. Backed by years of experience, Kowamex, with advanced analytical technologies, excels in design analysis of airframe structures.
  - With a myriad of technical capabilities, Kowamex can perform design/configuration modeling, strength analysis using analytical tools, and 3D model design.
## Description of Aerospace Business

- Manufacture of small precision parts for aerospace equipment
- We mainly handle parts involving machining and grinding requiring micron-level precision

## Business Description

### Product and Service Features
- More than 90% of our business involves the aerospace industry. Kosaka Iron Works contributes to technological development through manufacture of small parts which many large corporations cannot provide.

### Forte
- Our new technicians first learn the basics of machining techniques using all-purpose machines. Once they have learned on their own to make good blades, which impact the precision of the tool the most, they are allowed to use the state-of-the-art NC machines to perform ultra-high precision machining processes. (average yield; 800 to 1,000 items per month)
- “Spirit” is the core of monozukuri, or creative manufacturing. Kosaka Iron Works places the utmost effort in training our technicians.
KODAKA Limited Partnership Company

Description of Aerospace Business

- Sales, installation, and maintenance of special ground equipment for the aerospace industry

Business Description

- Product and Service Features
  - We are a wholesaler of electrical parts, electrical instruments, and measuring instruments. We also design, manufacture, install, and perform maintenance on industrial instruments and facilities.
  - Based upon the specifications specific to each individual customer, we design equipment and procure necessary parts and materials. The equipment is then assembled by our affiliates and delivered to the customer.
  - The standard turnaround time for the above example is 3 to 4 months.

- Forte
  - We have a strong track record as one of the first general agents in Central Japan for Nippon Koki Kogyo Co., Ltd., a pioneering manufacturer specializing in aircraft warning lights using LED technologies.
  - We have a distributorship for US-made special electrical equipment (lighting equipment, cases, and other products by Pelican).
  - We have recommended and delivered unique products best suited for the job to Chubu Centrair International Airport, Prefectural Nagoya Airport (also known as Komaki Airport), heavy industry manufacturers as well as industrial machinery manufacturers with an aerospace division.
  - Our achievements are expanding, having the bidding rights for projects of the national government, JAXA, Aichi Prefecture, City of Nagoya, and other municipalities and public organizations.
  - We have 3D slide fastener patents.
# Goto Industry Co., Ltd.

## Description of Aerospace Business

- Manufacture and sales of precision springs for aerospace equipment

## Business Description

### Product and Service Features
- Springs used in aerospace equipment must meet extremely high standards and, therefore, can only be made through high-mix low-volume production. Goto Industry’s products are manufactured by highly-skilled craftsmen with years of experience.

### Forte
- Offering products ranging from ultra-small springs of 0.18 mmφ, which is smaller than a grain of rice, to large-size springs.
- In-house manufacturing allows for high-mix low-volume spring products with a short lead time.
- The processes specific to aerospace equipment springs at Goto Industry have received various certifications.

## Corporate Data

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<td>Kazumasa Goto, President</td>
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<tr>
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## Description of Aerospace Business

- Manufacture and sales of precision springs for aerospace equipment

## Business Description

### Product and Service Features
- Springs used in aerospace equipment must meet extremely high standards and, therefore, can only be made through high-mix low-volume production. Goto Industry’s products are manufactured by highly-skilled craftsmen with years of experience.

### Forte
- Offering products ranging from ultra-small springs of 0.18 mmφ, which is smaller than a grain of rice, to large-size springs.
- In-house manufacturing allows for high-mix low-volume spring products with a short lead time.
- The processes specific to aerospace equipment springs at Goto Industry have received various certifications.
Koyama Chemical Co., Ltd.

Description of Aerospace Business

- Surface treatment for aircraft engine parts

Business Description

- Product and Service Features
  - Koyama Chemical’s plate processing provides aircraft engines and assembly parts with additional functions such as seizure prevention.

- Forte
  - Capable of performing copper, nickel, and tin plating for mass production products.
  - Excels in high-mix, small-lot production.
  - Koyama Chemical offers technologies and know-how to perform surface treatment on a wide variety of material as requested by the customer.
  - With a network of partner factories, Koyama Chemical answers to the needs of customers for all types of surface treatment and lead time reduction.
Sirmit Industry Co., Ltd.

Description of Aerospace Business

- Performing contracted work such as assembly, processing, and quality inspection of airframes
- Dispatching engineers to aircraft manufacturers
- Sales of specialized tools associated with assembly and processing of airframes

Business Description

Product and Service Features

- SIRMIT Group consists of 6 corporations; Osaka Dengi, Shin Koki, Fukoku Industry, Kume Denki, Nakano Aviation, and Sirmit Industry. Each of the group companies specializes in its area of expertise, covering development, design, manufacture, coating as well as procurement of aerospace parts and components.

Forte

- Various sheet metal processes are performed, such as skin panel polishing, rough trimming of outer shapes, punching of airframes at our aircraft part processing plant in Minato-ku, Nagoya.
- We have an in-house technical center in an effort to improve the technical level of operators, and consequently, quality standards. A newly-established Quality Assurance group supports high levels of performance in quality, cost, and lead time.
- We are capable of performing surface treatment and coating requiring a micron-level film thickness control. This technical capability is highly appreciated by aircraft manufacturers, leading to a B777 project to perform coating on carbon fiber composite airframes as well as a B787 project to perform coating on carbon fiber composite main wings.
Description of Aerospace Business

- Import and sales of control equipment with cutting-edge technologies from the US and Europe, such as solenoid valves and thruster valves
- Comprehensive engineering support including maintenance of imported equipment
- Design, manufacture, and sales of various test devices

Business Description

- **Product and Service Features**
  - Offers select and reliable products made by manufacturers with a good track record.
  - Sunny Ltd. not only sells equipment. It designs devices using the equipment to comply with Japanese laws and regulations. Sunny Ltd. can design and manufacture a device, receive required certifications, and make sure that the device operates safely all under its supervision.
  - In case of a failure, root causes will be analyzed and issues corrected in Japan.
  - Sunny Ltd. believes in proactive management services.
  - Sunny Ltd. emphasizes the importance of employee technical training.
  - Our forte lies in the development of next-generation products in the areas associated with space, new energy (hydrogen, biogas, nuclear power), extreme pressure, super-criticality, environment, and recycling systems.

Located in Nagoya
Nagoya Branch
Address
Meigin Ekimae Bldg.,
3-21-4 Meieki, Nakamura-ku,
Nagoya 450-0002

Corporate Data

- URL
  http://www.sunnyltd.co.jp/
- Representative
  Toshikatsu Yukitake, President and C.E.O.
- Establishment
  1961
- Capital
  ¥27 million
- No. of Employees
  41

Contact

- **Sales Inquiry**
  - TEL
    +81-52-563-4641
  - FAX
    +81-52-563-4644
  - E-Mail
    Please use the inquiry form available from our website

Certification

- ISO9001 (2013)
- JISQ9100 (2013)
- MSJ4000(2006)
### Description of Aerospace Business

- Design, manufacture, and sales of jigs, molds, and gauges
- Bushings for aircraft (compatible to inch standard)
- Various dimension measurement apparatus and automatic measurement devices available in-house
  (Laser measurement device, contact-type measurement device)

### Business Description

#### Product and Service Features
- We propose gauges for heat treatment, a technology established in the automotive industry, as a solution for aircraft.
- Our products go through rigorous inspections by our in-house inspection group before delivered to aircraft manufacturers.

#### Forte
- We can deliver rush orders and small-lot orders.
- Our quality management is assured by high-skilled inspectors and fully-equipped inspection rooms.
- We offer total solutions for testing facilities and devices using various advanced technologies.

---

**Located in Nagoya**

Head Office

**Address**

2-8-24 Shirotori, Atsuta-ku, Nagoya 456-0035

---

**Corporate Data**

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<tr>
<td>Representative</td>
<td>Yoshinori Kijima, President</td>
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<tr>
<td>Establishment</td>
<td>1950</td>
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<td>Capital</td>
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---

**Contact**

**Sales Inquiry**

**TEL**

+81-52-681-2131

**FAX**

+81-52-681-2405

**E-Mail**

somu@sanki-shoji.co.jp

---

**Certification**

- ISO9001 (2008)
- JISQ9100 (2009)
Description of Aerospace Business

- Performing on-site contract assembly work of main and center aircraft wings
- Dispatching personnel for aircraft production design

Business Description

- Product and Service Features
  - Sanko Air Seltec offers wide-ranging services from aircraft maintenance to customs clearance for air freight.

- Forte
  - Sanko Air Seltec has implemented unique training programs specific to aircraft production and maintenance, international air freight handling, and other duties.
  - With a history of performing aircraft inspections and maintenance work for airlines since its establishment, Sanko Air Seltec has an abundance of knowledge and experience in structures and systems in any part of aircraft. Sanko’s human resources, knowledge, and experience are put to optimum use when providing services.
  - Before starting the position, Sanko Air Seltec personnel to be dispatched for aircraft manufacturing positions receive extensive training, including lectures and basic practical skills by experienced instructors. Our well-trained personnel are highly appreciated by the customers.
Description of Aerospace Business

- Engineering support for the design and development of aerospace equipment
- Performing contracted projects to design and develop aerospace equipment

Business Description

Product and Service Features
- Focused on gaining customer trust, CRE offers engineering support in the areas of aircraft structural design, structural analysis, electrical and electronic design, software development, device design, productivity-focused process design, and quality assurance.
- CRE prepares and edits a variety of manuals. We also perform contracted projects associated with documentation, such as electronic conversions of documents and translations of technical documents and manuals.

Forte
- CRE has been involved in nearly all of major development projects in the Japanese aerospace industry, while building upon the strong relationships with aircraft manufacturers.
- CRE has experience in design and development of almost all major components of aircraft.
- Our skilled engineers, with 30 years of experience in aircraft design and development, are assigned to key roles in projects in order to manage the projects and provide training and guidance to younger engineers.
### Description of Aerospace Business

- Import and sales of high-reliability parts for aerospace equipment
- System integration for the aerospace industry and performing contracted development projects for BBM
- Supporting overseas satellite businesses

### Business Description

#### Product and Service Features

- With subsidiaries in the US and Germany, JEPICO procures and provides high-reliability parts and system products for aircraft, rockets, and satellites.
- JEPICO also places emphasis on aerospace businesses overseas.

#### Forte

- Abundance of knowledge and experience in high-reliability parts.
- Despite being a “fabless” company having no factory of its own, JEPICO is also a manufacturer of its own brand of analog LSI, Bluetooth modules, and biological signal processors.
- JEPICO's performance in the space industry is proven by its participation in various space development projects such as "Hayabusa" and "Kounotori".

### Contact

**Sales Inquiry**

FSG (Field Sales Group)

**TEL**

+81-52-930-6116

**FAX**

+81-52-930-6118

**E-Mail**

Please use the inquiry form available from our website

### Certification

- ISO9001 (2002)
- JISQ9001 (2009)
Systec Inoue Corporation

Description of Aerospace Business

- Functional testing services for aircraft and rocket engines

Business Description

Product and Service Features

- Systec Inoue offers comprehensive services for ground technical testing on aerospace equipment, including measurement equipment required in testing.

Forte

- Systec Inoue answers needs in a wide range of performance and technical testing backed by measurement technologies and capabilities accumulated over the years.

Located in Nagoya
Nagoya Office
Address
4-18 Kasumoricho, Nakamura-ku,
Nagoya 453-0855

Corporate Data
URL
http://www.sys-inoue.co.jp/
Representative
Satoru Inoue, President
Establishment
1959
Capital
¥20 million
No. of Employees
169

Contact
Sales Inquiry
TEL
+81-52-483-0400
FAX
+81-52-483-2545
E-Mail
infoams@sys-inoue.co.jp

Certification
MSJ4000
MSJ4001
KQMS-710
### Description of Aerospace Business

- Import and export of automatic control devices

### Business Description

#### Product and Service Features
- Japan Controls supplies US Circle Seal Controls products, such as valves and metal seals for hydraulic systems, for aerospace devices and ground testing devices.
- To provide customers with superior products by manufacturers around the world as easily as products made in Japan, Japan Controls sends its employees to global manufacturers to gain knowledge and engineering abilities in overseas products.
- Each and every Japan Controls employee serves the customer by “being the eyes and legs of the users in the global search for technologies required by the users”.

#### Forte
- Japan Controls has established an engineering system to maintain and repair the devices in Japan. In addition, the system allows us to perform troubleshooting and find the root causes, should there be issues with products we delivered.
Description of Aerospace Business

- Import and export of aerospace equipment
- Repair of equipment onboard aircraft
- Sales and after-sale services of flight simulators
- Sales and after-sale services of ground support equipment for aircraft

Business Description

- Product and Service Features
  - Jupitor answers customers’ needs by introducing cutting-edge technologies and products of overseas aerospace equipment makers and integrating them with engineering technologies in Japan.
  - Jupitor provides comprehensive services consisting of import, manufacture, sales, and maintenance.

- Forte
  - Jupitor is a trading company specialized in the field of aerospace and our services are built upon years of traditions, experience, and network serving the industry.
  - Jupitor is a trading company with its own factory, allowing us to offer maintenance and engineering support services to the customers.
  - Jupitor does not merely import and sell overseas products. We deliver products suitable to the customer’s needs and support the purchase with manufacturing, maintenance, and repair services provided by our factory functions.
Description of Aerospace Business

- Procurement of RF electronic parts for radars, air traffic control equipment and satellite communication equipment
- Procurement of aircraft components
- Procurement of environment-resistant/high-quality microwave components, semi-conductor devices for space use
- Procurement of products related to social infrastructures (airport LED lighting system, RFID for aircraft)
- Procurement of military-related equipment (ultra-small cameras for UAV)
- Consulting business

Business Description

- Product and Service Features
  - Shoshin offers, procures, and delivers high quality products in the areas of Aerospace, Space Development, and Defense to major manufacturers, government agencies, and research institutes.

- Forte
  - Shoshin has a 50-year business relationship with TPS AVIATION, which has a reputation of high procurement capabilities and strict part inspections of hardware and electronic parts for aircraft. Shoshin answers to the varied needs of customers, from the latest products to hard-to-get legacy parts.
  - Shoshin is an official dealer of SIMTEK, a manufacturer specializing in gauges and control panels used in flight simulators; ALLFAST, a manufacturer specializing in aircraft rivets and fasteners; and SEKAI Electronics, a manufacturer with a high reputation in robust and highly-reliable cameras and recorders.
  - Shoshin's overseas subsidiaries manage local suppliers and delivery. Traceability of all ordered products is maintained.
  - Mutual understanding between engineers in Japan and abroad is crucial in providing good services. Shoshin's engineering department serves as a technical liaison in working out specification details, providing application technologies, and offering consultations.
Description of Aerospace Business

- Manufacture and sales of aircraft components and light-alloy structures
- Manufacture and sales of various honeycomb cores
- Manufacture and sales of honeycomb products

Business Description

- **Product and Service Features**
  - SAIC, as the only comprehensive producer of honeycomb products in Japan, began manufacture and sales of honeycomb cores and products in 1960.
  - SAIC product lineup includes aircraft galleys, various shelters, airframe structural materials, and satellite housings.

- **Forte**
  - SAIC produces honeycomb products from various materials like aluminum foil, aramid paper, and craft paper at our in-house factory.
  - SAIC is capable of handling all production processes of honeycomb products, from production of materials, production of surface panels, shaping material into the product forms, adhering honeycomb material to surface panels, all the way to the inspection of final goods.
  - SAIC is a producer of honeycomb products in a wide range of applications from construction to aerospace.
  - SAIC meets the customer’s needs with a short lead time, whether it is one sheet of honeycomb material for a prototype or high-volume materials for mass production.
Shinwa Co., Ltd.

Description of Aerospace Business

- Design and manufacture of special-purpose soldering machines for aerospace equipment
- Design and manufacture of aircraft assembly jigs

Business Description

Product and Service Features
- Shinwa has a strong record of design, manufacture, and on-site installation of special-purpose soldering machines used in the production of rocket fuel tanks.
- Shinwa also has experience in design, manufacture, and on-site installation of assembly jigs for front and middle fuselages of private passenger aircraft.

Forte
- Shinwa offers engineering services for its production jigs, from design, installation, to maintenance and inspections.
- Shinwa is capable of all processes involved in jig production, from procuring special steel materials, buildup welding, thermal spraying, to finishing after heat treatment.
Description of Aerospace Business

- Manufacture and sales of aircraft engine parts
- Manufacture and sales of aircraft parts
- Manufacture and sales of parts for aircraft landing gear

Business Description

- Product and Service Features
  - SPF's product line includes fan blades, rotor blades, stator vane, HPC blades.

- Forte
  - In the late 1950's, SPF began research and development of metal forming technologies for titanium alloys with high specific strengths and high corrosion resistance. Backed by its experience, SPF offers highly reliable products.
  - SPF excels in precision forging technologies for nickel- and cobalt-based superalloys which are difficult to forge.
  - SPF is the only manufacturer in Japan that supplies forged blades for aircraft engines.
  - All manufacturing processes of blades and other products, from forging, heat treatment, to final machining, are done in SPF's state-of-the-art plant.
Description of Aerospace Business

- Import business of various equipment and systems as a sales agent for US and European corporations
- Facilitation business as a liaison between aircraft prime manufacturers and parts manufacturers
- Providing business support for Japanese corporations in overseas business development
- Aircraft leasing business

Business Description

Product and Service Features
- The Chubu Office operates in the areas of metal, mechanical and electrical services, aerospace, and chemicals. One of the core businesses at the Chubu Office is in the aerospace business area.
- As a facilitator between the aircraft and space equipment manufacturers and parts manufacturers, Sumitomo finds what customers need and bridges the gap between aircraft manufacturers and parts manufacturers by finding the best parts and technologies required to meet the customers’ needs.

Forte
- Sumitomo Corporation Group is built upon a solid business foundation of “customer trust”, “global network”, “global relationships” and “intellectual properties”.
- The strength of Sumitomo Corporation is a variety of sophisticated functions, such as the “capability to create business”, “ability to gather and analyze information”, “logistics capability”, “capability to adopt the best ICT (information and communication technologies)”, “capability to offer financial services”, and “risk management capability”.
- By strategically and organically integrating this business foundation and the various functions, Sumitomo Corporation possesses the comprehensive capabilities to foresee the changes in the world, go beyond conventional business boundaries, and create new values.
Shoho Ironworks Co., Ltd.

Description of Aerospace Business
- Design and manufacture of machining jigs
- Design and manufacture of assembly jigs
- Design and manufacture of molds

Business Description

- Product and Service Features
  - Shoho Ironworks designs, manufactures, and sells machining and assembly jigs, molds, and associated consumable parts and tools.

- Forte
  - With the know-how in machining jigs accumulated through years of experience, Showa Ironworks offers solutions and recommendations which reduce production costs.
  - Shoho's integrated production system supports the entire process, from design to final goods inspections.
  - The ISO9001 and JISQ9100 certifications combined with a cutting-edge inspection facility ensure high quality products.
Located in Nagoya
Japanese Branch
Address
Yamatomi Bldg. 2F, 7-13 Oicho, Naka-ku, Nagoya 460-0015

Corporate Data
URL
http://www.maicl.com/
Representative
Hsieh, Yung-Chang, Chairman
Establishment
1987
Capital
US$15,000,000
No. of Employees
420

Contact
Sales Inquiry
TEL
+81-52-339-2772
FAX
+81-52-323-6337

Certification
AS9100 (2015)
GEAE Holemaking P11TF12 (2014)
GEAE EDM P17TF1 (2015)
Aircelle code 105844 (2016)
PRI Nadcap EDM AC7116/3RevA (2015)
PRI Nadcap NDT-PT (2014)
PRI Nadcap Holemaking (2014)

Description of Aerospace Business

- Manufacture of aircraft-mounted unit components and engine parts

Business Description

Product and Service Features
- Magnate has an extensive track record of experience in manufacturing aircraft-mounted units, engine casings, turbine hangers, engine components like nozzles, heat exchanger components, and landing gear components.

Forte
- Aircraft components require precision work on difficult-to-machine materials. Magnate is fully capable of performing the most difficult machining processes in-house.
- Capable of making large engine parts as big as 1 meter in length.
- Magnate is now working to consolidate the capacity to fully perform special processes in-house including material procurement, heat treatment, flaw inspection, surface treatment, and thermal spraying. We aim to provide “one-stop” full service for customers.
Sojitz Aerospace Corporation

Description of Aerospace Business

- Procurement, import, and export of equipment, component materials, and support equipment used in aircraft and aircraft engines
- Procurement of devices and systems mounted on space stations, rockets, and satellites
- Coordination of licensed production (technical cooperation) of aerospace equipment in Japan
- Procurement of security products associated with airport facilities

Business Description

- Product and Service Features
  - Sojitz Aerospace is a trading company that offers proposal-based solutions utilizing varieties of leading-edge technologies, mainly in the fields of aviation, defense, space, and security.

- Forte
  - Sojitz Aerospace provides services globally through business locations in and outside Japan; Tokyo, Nagoya, Osaka, New York, Los Angeles, St. Louis, Mesa, London, and Sojitz Corporation overseas offices.
  - Sojitz Aerospace offers value-added services which strategically integrate various business operations, from sales promotions and consultation to contracts and shipping arrangements, based on relevant information and precise market research and analysis.
  - Sojitz Aerospace is the leading company in the areas of aviation, defense, space, and security equipment.

Located in Nagoya
Nagoya Division
Address
Sakae Sanchome Bldg. 11F,
3-6-1 Sakae, Naka-ku,
Nagoya 460-0008

Corporate Data

URL
http://www.sojitz-aero.com/
Representative
Mikio Takeuchi, President & CEO
Establishment
1975
Capital
¥1.41 billion
No. of Employees
150

Contact

Sales Inquiry
Nagoya Sales Department
TEL
+81-52-269-5280
FAX
+81-52-269-5290

Certification
ISO/IEC27001 (2005)
JISQ27001 (2006)
TRACE Certification (2008)
Description of Aerospace Business

- Supporting the aerospace industry by providing technical personnel and undertaking engineering projects

Business Description

- DSE hires engineers from science and technology departments of colleges in Japan. New engineers receive one month of training to learn various skills including interpersonal skills before they are assigned to a position.
- DSE also provides its staff with training by skill level, preparatory courses for licenses and qualifications, and various other training programs.
- DSE has established offices near the business bases of major aircraft manufacturers, enabling DSE to systematically provide engineering manpower according to customer needs.
- DSE is now planning to expand its business overseas and some DSE employees are currently assigned in Thailand.
- Female engineers account for about 10% of our workforce, playing an active part in DSE's business.
Description of Aerospace Business

- Manufacture of aircraft engine shafts, disk materials, blade materials, and bearing materials

Business Description

Product and Service Features
- Backed by our technological superiority, Daido Steel supplies aircraft engine makers around the world with high quality engine shafts and other aircraft engine parts under the strictest quality management.

Forte
- Our biggest strength lies in aircraft engine parts. Our engine shafts, in particular, are recognized by major engine makers around the world and used in a variety of models.
- Daido Steel is the sole supplier of engine shafts for the new Boeing B787 (GEnx, TRENT1000).
## Description of Aerospace Business

- Manufacture and sales of wire harnesses for aircraft and electronic equipment mounted on aircraft
- Sales and import/export of electronic equipment and components, and manufacturing equipment
- Sales of Daito Electron original products

## Business Description

### Product and Service Features
- Using its own network, Daito Electron finds excellent domestic and foreign products, from cutting-edge systems and equipment to core parts, and delivers them to customers with a short lead time.
- In the Wire Harness Production business, Daito Electron first obtains harness boards from aircraft makers. Daito Electron, then, procures suitable connectors and wires, and connects and assembles them into equipment.

### Forte
- Daito Electron is an engineering trading company of electronics, with a unique business model built upon the strong marketing power of a trading company combined with manufacturing functions developed in niche markets.
- Utilizing a network of 15 locations in Japan and 10 business offices abroad, Daito Electron offers optimum combinations of products that meet the needs of customers.
Dainihon Aga

Description of Aerospace Business

- Manufacture and sales of various high-pressure gases
- Sales of high-pressure gas containers, high-pressure gas supply systems, gas cutting machines/regulators, welding peripheral equipment, electric welders, welding rods, and welding wires

Business Description

- Product and Service Features
  - Dainihon Aga manufactures and packs in containers various types of high-pressure gases at its own plant equipped with a full line of high-pressure gas facilities.

- Forte
  - Compliance is important at Dainihon Aga. We provide customers with high-pressure gases attached with product specifications.
  - Dainihon Aga has a strict management system to handle high-pressure gas containers at a facility equipped with retesting equipment.
  - Dainihon Aga supports the foundation of business activities in a great diversity of industries.
Taiyo Wire Cloth Co., Ltd.

Description of Aerospace Business

- Design, manufacture, and sales of filters, EMI shielding products, and thermal management products for the aerospace industry.

Business Description

- Product and Service Features
  - TWC designs, manufactures, and sells EMI shielding gaskets and metal gauzing products used in aerospace equipment and airframes.
  - TWC has over 30 years of experience as a supplier for the defense, space, and aviation industries.
  - Offering EMI shielding products and thermal management products in compliance with MIL, AMS, and other standards.

- Forte
  - TWC sells more than just products; it can combine products with technologies, such as development and design, and offer them as a package.
  - In August 2013, TWC established DA Department as a business segment specializing in the defense, aircraft, and aerospace industries, aiming to further improve its engineering expertise and quality.

Corporate Data

URL
http://www.twc-net.co.jp/

Representative
Saburo Hirai, President

Establishment
1945

Capital
¥90 million

No. of Employees
172

Contact

Sales Inquiry
Defense and Aircraft Department

TEL
+81-52-323-1851

FAX
+81-52-323-0101

E-Mail
TWC_THANK_YOU_MAIL@twc-net.co.jp

Certification

ISO9001 (1999)
ISO14001 (2001)
JISQ9100 (2007)
Takagi Industry Co., Ltd.

**Description of Aerospace Business**
- Manufacture and sales of airframe components and auxiliary devices for aircraft

**Business Description**

- **Product and Service Features**
  - Takagi can manufacture any type of sheet metal part with a full line of equipment, such as 3D laser machine tools, NCT punching presses, and large-size NC routers.
  - As a specialist manufacturer in the sheet metal industry, Takagi strives to win the trust of customers by providing high-quality products.

- **Forte**
  - Takagi delivers a variety of small sheet metal parts for aircraft with a short lead time.

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**Located in Nagoya**
Head Office
Address
2-3-6 Rokuban, Atsuta-ku,
Nagoya 456-0058

**Corporate Data**

- URL
  - http://www.takagikk.com

- Representative
  - Yasuyuki Takagi, President

- Establishment
  - 1951

- Capital
  - ¥20 million

- No. of Employees
  - 100

**Contact**

- Sales Inquiry
  - KITAGASHIRA FACTORY
  - TEL
    - +81-52-611-3239
  - FAX
    - +81-52-611-6445

- E-Mail
  - aerospace@takagikk.co.jp

**Certification**

- AS9100 (2010)
- ISO9001 (2009)
- ISO14000 (2010)
Takasago Electric, Inc.

Description of Aerospace Business

- Development of hydraulic valves used to control flight control systems, ladders, flaps, and landing gears
- Development of valves used in aircraft equipment such as galleys and lavatories
- Development of small, light-weight pumps for experimental devices used in space stations
- Development of solenoid valves and pumps used for jet engine fuel control

Business Description

- Product and Service Features
  - Takasago’s strength lies in developing custom-order valves and pumps as well as high-mix small-lot production items under its integrated manufacturing system covering all production processes, from material cutting, assembly, to inspections.
  - Takasago’s product line includes the world smallest valves and pumps. Takasago offers customized products according to customers’ needs in weight reduction, miniaturization, etc.

- Forte
  - Takasago has accumulated experience and know-how in quality control and change control for decades as a component manufacturer in the medical/diagnostics device industry. Takasago has a high engineering capability to offer solutions in fluid control.
  - Takasago has begun its efforts toward the attainment of AS9100 certification, which is expected to be approved in the summer of 2014.

Located in Nagoya
Head Office
Address
66 Kakitsubata, Narumi-cho, Midori-ku, Nagoya 458-8522

Corporate Data
URL
http://www.takasago-fluidics.com/
Representative
Naoya Asai, Managing Director
Establishment
1959
Capital
¥ 90 million
No. of Employees
214

Contact
Sales Inquiry
Business Development
TEL
+81-52-891-2301
FAX
+81-52-891-7386
E-Mail
info@takasago-elec.co.jp

Certification
ISO9001 (1999)
AS9100 (Expected to be certified in August 2014)
TAMADIC Co., Ltd.

Located in Nagoya
Nagoya Marunouchi Office
Address
Nagoya Itochu Bldg. 3F,
1-5-1 Nishiki, Naka-ku,
Nagoya 460-0003

Corporate Data
URL
http://www.tamadic.co.jp/
Representative
Toshihiko Morizane, President
Establishment
1959
Capital
¥ 99 million
No. of Employees
926

Contact
Sales Inquiry
Sales Department
TEL
+81-52-209-6715
FAX
+81-52-209-6712
E-Mail
eigyoucharge@tamadic.co.jp

Certification
JISQ9100 (2005)
ISO9100 (2005)
ISO14001 (2008)
ISO/IEC27001 (2009)
OHSAS18001 (2013)

Description of Aerospace Business
• Dispatching engineers to aircraft manufacturers and undertaking engineering projects

Business Description
● Product and Service Features
• TAMADIC engineers are assigned various duties in the design phase, such as design and analysis of aircraft, support for rocket launchings, etc.
• TAMADIC manufacturing engineers support leading-edge manufacturing technologies as production planners and tool engineers etc.
• TAMADIC designs and manufactures jigs, tools, and equipment.

● Forte
• Overall know-how, experience, and high engineering capabilities based on over 50 years history in the aerospace industry.
Chuo Engineering Co., Ltd.

Description of Aerospace Business

- Design and Analysis Engineering services for Airframe, Aerospace Equipment and Engines.

Business Description

- **Product and Service Features**
  - Our business is focused primarily on the design and analysis of Aircraft, Aerospace Engines, and Aerospace Equipment. Chuo Engineering has been supporting many of the aircraft and space programs of the leading aerospace companies.
  - Our aerospace engineers can meet your any demand with rich experience and skills.

- **Forte**
  - Chuo Engineering offers integrated engineering services in the field of structural stress analysis, structural design and manufacturing engineering for aircraft integrators, aircraft components and system manufactures.
  - We specialize in the design of products developed to meet our customers’ needs by committing ourselves fully from the initial stages of development until completion.

Located in Nagoya
Nagoya Division

Address
Kanayama Sogo Bldg.,
1-12-14 Kanayama, Naka-ku,
Nagoya 460-0022

Corporate Data

- **URL**
  - http://www.chuo-eng.co.jp/

- **Representative**
  - Yoshihiro Saita, CEO and President

- **Establishment**
  - 1955

- **Capital**
  - ¥116 million

- **No. of Employees**
  - 472

Contact

- **Sales Inquiry**

  - **TEL**
    - +81-52-324-4770
  
  - **FAX**
    - +81-52-324-4771

  - **E-Mail**
    - Please use the contact form available from our website

Certification

- **ISO9001 (2008)**
- **JISQ9100 (2009)**
- **General Construction Business License (General-23) No. 24191**
Description of Aerospace Business

- Sales of cleaning solutions and paint, both of which are the main products, as well as adhesives, silicon molds, and other chemical products.

Business Description

- Product and Service Features
  - Chugai offers myriad of products, including those in compliance with the MIL standard, to meet the various needs of airlines.
  - Customers' requests are important to us, however small they may be. It is our motto to offer locally-rooted and well-thought-out services in a swift manner.

- Forte
  - In addition to the trading division, Chugai has a manufacturing division with a highly-recognized engineering capability to make sound-proofing components for cars.
  - Utilizing high technological capabilities gained in the auto industry, Chugai aims to support the aerospace industry and its development.
  - By combining sales and manufacturing functions, Chugai offers a variety of services to meet customers' needs.
Description of Aerospace Business

- Sales of cutting tools
- Sales of jigs
- Sales of gauges
- Re-grinding of cutting tools

Business Description

● Product and Service Features
  - Our products include end mills, reamers, snake reamers, chamfering cutters for aircraft as well as carbide cutting tools.

● Forte
  - We offer a variety of cutting tools specifically designed for aircraft.
  - We are the sales agent for over 20 major tool manufacturers.
  - With 60 years of experience as a sales agent of cutting tools, we have gained the trust of many customers.
  - We can deliver exactly what customers want; whether it is one tool or a large lot, all-purpose tools or custom-made tools.
  - We maintain a stock of special drills for aircraft. We have also handled many orders for carbide drills, high-speed steel drills, and diamond drills which were specially designed for the customers.
Description of Aerospace Business

- Import, manufacture, and sales of chemical products for the aerospace industry

Business Description

- Product and Service Features
  - Tsuchiya manufactures and sells decals, labels, paints, adhesives, tapes, and woven products used in the aerospace industry.
  - With the Research & Development Center established in Chiryu Factory (Chiryu City, Aichi Prefecture), Tsuchiya continues its efforts in creating new products that customers need, and enhancing value in existing products.

- Forte
  - Tsuchiya Group continuously seeks “Creativity” and “Challenges”. Since establishment, we continue to speedily find solutions to wishes and wants of customers through our strong network and collaboration of Sales, R&D, Manufacturing divisions and our suppliers.
Description of Aerospace Business

- Structural assembly of aircraft and rockets
- Design and construction of jigs and tools dedicated for aircraft assembly
- Structural assembly of composite parts for the latest aircraft models
- Design, manufacture, and inspection of slings dedicated for aircraft assembly

Product and Service Features

- Tech Sasaki’s service goes beyond structural assembly. We design and build jigs and tools required in assembly, coordinate planning, document work instructions, and perform rigging all as a packaged product.

Forte

- Tech Sasaki has performed metal structural assembly for US’s Boeing, Canada’s Bombardier, MRJ, H-2, and many other models. We are also rapidly accumulating the processing technologies for CFRP, which has gained a growing interest within the aircraft industry during recent years.
Description of Aerospace Business

- Manufacture and sale of avionics equipment, such as flight instruments, flight control computers, etc.
- On-the-ground flight training services for private, police and paramilitary pilots

Business Description

- **Product and Service Features**
  - Tokyo Aircraft Instrument Co., Ltd. manufactures and sells various aircraft instruments and avionics equipment. We are the only manufacturer of pitot tubes in Japan.
  - Also, on-the-ground flight training is being provided by our experienced instructors at our facility in Haneda, Tokyo.
  - In addition, we provide maintenance and repair services for various aircraft equipment as well as calibration services for pressure gauges.

- **Forte**
  - Tokyo Aircraft Instrument Co., Ltd. has a long history as an aircraft equipment manufacturer and has accumulated high levels of know-how and engineering technologies.
  - The majority of production processes are performed in-house, including machining and special treatment. Tokyo Aircraft Instrument Co., Ltd. quickly responds to customers’ needs for products and services.
Description of Aerospace Business

- Dispatching engineers to aircraft manufacturers and undertaking contracted engineering work
- Design of aerospace equipment (structural design, equipment design, strength analyses)
- Jig design and structural analyses of aerospace equipment
- Structural design and strength analyses of composite products
- Design of testing devices used in the aerospace industry
- Production engineering of aerospace equipment

Business Description

- Product and Service Features
  - As a member of Tohmei Group, Tohmei Engineering provides engineering support in structural design and analyses, production engineering, production management, and other engineering work associated with aircraft production.
  - Backed by its experience and know-how, Tohmei Engineering has high capabilities in the design and manufacture of jigs/tools that satisfy customers’ needs with short lead times.

- Forte
  - With the JISQ9001 and JISQ9100 certifications, Tohmei Engineering has consolidated its management foundation to become a Tier 1 manufacturer which can offer one-stop solutions for parts, jigs, and tools used in aerospace equipment, from the design phase through production.
  - In cooperation with Tohmei Group companies, Tohmei Engineering offers various services associated with composite materials – from research and development, analyses, design, to production planning – as well as diverse solutions to optimize the characteristics of CFRP.
Description of Aerospace Business

- Manufacture and sales of “Torayca” carbon fiber for aircraft and carbon fiber composite materials.
- Research and development of “Torayca” carbon fiber for aircraft and carbon fiber composite materials.

Business Description

- Carbon fiber composite materials (CFRP) have been used in this business since the early development phases of this material, as a means of reducing the total weight of aircraft.
- Major aircraft manufacturers, such as Boeing and Airbus, have been increasing the amount of carbon fiber used every time a new model is developed. More than 30t CFRP per aircraft is used for models such as Boeing 787 and Airbus A380.
- In Boeing’s 787, which is said to be a ground-breaking model, CFRP accounts for approx. 50% of the structural weight and is used in the main wings and fuselage or all outer plates are composed of carbon fiber composite materials.
- Reducing CO2 emissions as well as the fuel efficiency is becoming very important. This trend will accelerate the future use of carbon fiber materials in all aircraft parts including engines.
- Toray is the world’s largest manufacturer of PAN-based carbon fiber, which is used not only in the primary structural components of aircraft, but also in the automotive, sporting, and other general industries. PAN-based carbon fiber is highly appreciated for its various applications.
Description of Aerospace Business

- Surface treatment (thermal spraying) of parts used in the aerospace industry

Business Description

○ Product and Service Features
- TOCALO provides thermal spraying and other surface improvement technologies to customers in many key industries as well as those in the high-tech industries.

○ Forte
- TOCALO delivers technologies to customers through 7 domestic and 4 overseas locations. The value of TOCALO’s services is built upon high manufacturing abilities, BCP, and the strictest quality management system.
- TOCALO, with high levels of R&D capabilities and analytical abilities, is able to perform thermal spray coating on special material surfaces or coating using special spraying materials.
Description of Aerospace Business

- Manufacture and sales of name plates, metal photo plates, labels, stickers, decals, etc. used for interior/exterior of aircraft and on aircraft equipment

Business Description

- Product and Service Features
  - Toho is a comprehensive supplier of plates and labels. Toho provides name plates, signs, and other labeling products most suitable for the customers' products.
  - Toho strives to respond to customers' needs in a sincere manner and provide value-added services through the manufacture and sales of name plates and labels.

- Forte
  - All Toho labeling products are made in-house and directly delivered to customers. Toho responds to customers' needs with short lead times.
  - Toho's technical development team has developed many patented products and customized products to meet the customers' labeling needs. Toho can also comply with "Green procurement" according to customer specifications.
  - Toho has one of the largest pollution control facilities in its industry. The facilities are used in chemical processing during name plate manufacturing of etching plates, anodized aluminum plates, metal photo plates, etc. Toho provides "safety, peace of mind, and stability" in the realm of quality and environmental protection.
Tokiwa Engineering Co., Ltd.

**Description of Aerospace Business**

- Design, manufacture, and installation of facilities used for chemical processes including surface treatment

**Business Description**

- **Product and Service Features**
  - Tokiwa Engineering was selling rubber products at the time of its establishment. Today, Tokiwa Engineering operates in three business segments; chemical products, FA equipment, and facilities/plants. By integrating all three business segments, Tokiwa Engineering offers services in design, manufacturing, and installation of manufacturing facilities.
  - Tokiwa Engineering provides facilities for surface treatment and other chemical processes used in aircraft manufacturing plants. These types of facilities use water and chemicals, and Tokiwa's corrosion-resistant technologies such as rubber and plastic are also utilized in Tokiwa facilities.

- **Forte**
  - In the area of rubber and plastic, Tokiwa Engineering has comprehensive technologies unrivaled by any of its competitors. Tokiwa offers alternative engineering solutions in corrosion-resistance, an issue usually occurring in metals.
  - Tokiwa Engineering provides automated, personnel-saving facilities by combining corrosion-resistance technologies with FA technologies like robots and vision systems.
Description of Aerospace Business

- Undertaking on-site contracted work and dispatching engineers to aircraft manufacturing companies
- Design and development of filing systems, and data entry
- Creating, processing, and maintaining analog and digital imaging products and associated duties
- Providing production engineering support and services associated with jig/tool design

Product and Service Features

- Nakasha Creative offers one-stop solutions to your archiving and filing needs, including microfilming documents and drawings, converting documents to electronic form, providing application of electronic documents, and designing and developing systems.
- Nakasha Creative can handle any work associated with images and videos. Want to create a promotional video? Shoot documentary footage? Need photos of samples, group photos, and documentary photos? Or create video content? Nakasha Creative is the answer to all of your image and video needs.
- Nakasha Creative proposes solutions and provides support for various issues that customers face at their aircraft production sites. A depth of knowledge and experience are required in process design, jig conceptions, and handling planning involved in the launch of new production lines. The same is said about improvement and modification of existing production lines and jigs. Nakasha's experienced staff will support customers' needs.

Forte

- Nakasha Creative is proud to have served our customers for over 50 years as an on-site contractor, and our experience gives us an edge in our business.
## Description of Aerospace Business

- Sales of adhesives for aircraft
- Sales of CFRP chemical materials for research and development

## Business Description

### Product and Service Features
- Nagase Elex mainly handles epoxy resins for Nagase Group. Nagase is committed to developing businesses with full consideration of environmental issues.
- Nagase Elex aspires to provide Japan-made chemical materials sought by Japanese aircraft makers used to manufacture Japan-made aircraft in the future.

### Forte
- By denaturalizing chemical materials in cooperation with Nagase Group companies, Nagase Elex offers products which meet the varied needs of customers.
- Nagase Elex offers a diversity of chemical materials, allowing it to provide just the right products for the needs of each customer.
- Having an extensive knowledge of chemical production lines, Nagase Elex can provide know-how and solutions which are suitable to the characteristics of chemical materials.
Nakano Aviation Co., Ltd.

Description of Aerospace Business

- Import and sales of metal materials, parts, and non-metal (chemical) products
- Processing and assembly of aircraft parts

Business Description

- Product and Service Features
  - Nakano Aviation doesn’t just buy and sell products. Nakano Aviation strives to gather the latest information on available products and technologies in order to provide high-quality products with the “just-in-time” delivery system.
  - With eyes on the changes in business environments of customers, Nakano Aviation provides ultra-sound cutting devices for aircraft materials and CFRP to meet customers’ most recent needs.

- Forte
  - With a subsidiary in Los Angeles, Nakano Aviation has established a system to deliver the products the customer wants swiftly at low cost.
  - While being a trading company, Nakano Aviation possesses engineering technologies and the production system to process and assemble aircraft parts.

Located in Nagoya
Head Office
Address
Matsuoka Bldg., 2-45-7 Meieki, Nakamura-ku, Nagoya 450-0002

Corporate Data

URL
http://nac.nacavi.co.jp/
Representative
Tadaaki Nakaji, President
Establishment
1990
Capital
¥24 million
No. of Employees
21

Contact

Sales Inquiry

TEL
+81-52-583-7651
FAX
+81-52-586-5463

Certification
ISO9001 (2006)
JISQ9100 (in application)
Nagoya Quality Assurance Technology Co., Ltd.

Description of Aerospace Business

- Undertaking contracted work involved in inspection/quality assurance for aircraft manufacturers, and dispatching inspectors / engineers

Business Description

Product and Service Features
- NQAT provides inspection services of airplane / aero engine parts and assemblies, including general inspections (e.g. receiving inspection, parts inspection, assembly inspections) and non-destructive inspection, calibration, parts inspection before an engine overhaul, which require the highest skill level.

Forte
- NQAT specializes in performing contracted inspections and quality assurance work, as well as dispatching engineers. NQAT’s services are backed by technical capabilities to perform various inspection and quality assurance.
- NQAT provides inspection services to aerospace industry leaders, such as Nagoya Aerospace Systems Works and Nagoya Guidance & Propulsion Systems Works – both of which are group companies of Mitsubishi Heavy Industries – as well as Mitsubishi Aircraft Corporation, and Boeing.
Nagoya Plating Co., Ltd.

Description of Aerospace Business

- Surface treatment by applying plating on various materials

Business Description

- Product and Service Features
  - Nagoya Plating satisfies customers' needs by applying plating on various metal and non-ferrous metal aircraft parts, ceramics, fibers, and any other materials used in a wide range of areas.

- Forte
  - Nagoya Plating has developed various plating solutions optimized for specific purposes, contributing to improvement of parts reliability.
  - The motto at Nagoya Plating is “perform plating on everything except water and air”. Our strength lies in plating on rear metals, ceramics, fibers, and other non-metal materials.
  - All of our plating equipment is designed and made in-house, allowing us to deliver desirable plating results quickly.

Located in Nagoya
Atsuta Factory
Address
16-11 Hanaomotecho, Atsuta-ku, Nagoya 456-0033

Corporate Data
URL
www.nagoya-mekki.com/
Representative
Nobuyuki Suganuma, President
Establishment
1947
Capital
¥20 million
No. of Employees
103

Contact
Sales Inquiry
Sales Department
TEL
+81-52-882-5541
FAX
+81-52-882-5543

Certification
JISQ9001 (2014)
JISQ9100 (2013)
**Description of Aerospace Business**

- Construction of aircraft production plants; maintenance and management of constructed plants
- Dispatch of engineers for aircraft design functions

**Business Description**

- **Product and Service Features**
  - As a wholly owned subsidiary of Mitsubishi Heavy Industries, Ltd., Mitsubishi Ryoju Estate operates in various business segments under the company principle “To support the customers’ development and prosperity and to contribute to local communities and society”.
  - Our slogan is “supporting the basis of human life and the foundation of manufacturing activities” in the aerospace industry. We strive to provide robust and optimum infrastructure.
  - With years of experience in construction of aerospace precision machine factories, Mitsubishi Ryoju Estate offers the vision of factories which will satisfy the customer.

- **Forte**
  - Extensive track record, know-how, technologies, and service-providing abilities accumulated during years of experience.
NAZCA Co., Ltd.

### Description of Aerospace Business

- Dispatching design engineers, analysis engineers, and production engineers for aerospace equipment
- Performing contracted design, development, and analysis work of aerospace equipment

### Business Description

#### Product and Service Features
- Nazca is the only engineering company in Japan to specialize in the field of aerospace. All of our employees are qualified aircraft engineers.
- Nazca has over 14 years of experience in the aerospace industry. Nazca possesses the leading technologies in concept design of system equipment, wiring and rigging of aircraft, and other areas of aircraft development.

#### Forte
- Providing personnel with aircraft-specific training programs in order to train them to become “craftsmen”.
- Years of experience in design, analysis, and production engineering in the aviation industry, covering aircraft, rockets, and helicopters. Nazca has the engineering technologies to handle any type of aircraft.
- Nazca is a team of elite aerospace specialists with high expertise. Nazca provides advanced training programs with follow-up systems in order to build engineers’ character as well as raising their engineering skills.
Nabtesco Corporation

Description of Aerospace Business

- Development and manufacture of aircraft flight control equipment
- Development and manufacture of power system equipment
- Development and manufacture of engine parts and equipment for fuel systems
- Development and manufacture of electric-powered actuators
- Development and manufacture of actuator controllers
- Development and manufacture of other aerospace equipment

Business Description

● Product and Service Features
  - Nabtesco offers services in marketing, R&D, design, manufacturing, sales, and customer support all with in-house resources.

● Forte
  - Nabtesco is the world’s leading manufacturer of flight control actuation systems equipment which controls an aircraft’s flight attitude. Nabtesco also dominates the Japanese market.
  - Nabtesco has established the “monozukuri (manufacturing)” system with high QCD performance.
  - Highly reliable capabilities in product development.
  - Service system which supports global business activities.
Description of Aerospace Business

- Manufacture of jigs and tools for the aerospace industry
- Machine processing of aircraft parts
- Dispatching engineering personnel

Business Description

- Product and Service Features
  - Nishimura Works has 50 years of experience as a jig/tool manufacturer for the aerospace industry.
  - Design, machine processing, inspections, or load testing – Nishimura Works performs all phases of jig/tool manufacturing with in-house resources.

- Forte
  - Nishimura Works has implemented "DELMIA", an innovative tool used to automatically design machining processes. With this tool, which revolutionized conventional workflow, Nishimura Works tightly manages the schedule of all processes from product design to product delivery. Nishimura Works has the technologies and infrastructure to support a concurrent engineering environment with consideration of production efficiency, cost reduction, quality improvement, and short lead times.
  - In addition to jigs/tools for the aerospace industry, Nishimura Works also manufactures aircraft parts. Expertise in these two segments creates a synergistic effect in its creative manufacturing capabilities.
  - Nishimura Works provide products of superior quality backed by recognized certifications such as JIS Q9001 and JIS Q9100.
Description of Aerospace Business

- Manufacture and sales of insulation materials, fluoro-polymer products, and gaskets for the aerospace industry

Product and Service Features

- NICHIAS Corporation has been running its business using Insulation and Protection technologies consisting of six core elemental technologies that include seals, thermal insulation, soundproofing, fire-repellency, anti-corrosion as well as clean since its formation in 1896.
- We have been delivering high-quality products for the aerospace industry such as thermal insulation materials for fuel tanks, fluoropolymer pressure hoses for fuel filling lines and sealing materials for low temperature to high temperature piping lines.

Forte

- We have a long history of providing components for automotive and semiconductor sector. Building upon the way of thinking about creative manufacturing and high standards of quality assurance, we have been providing high-quality components to the aerospace industry.
Japan Tecseed Co., Ltd.

Description of Aerospace Business

- Dispatching engineering personnel for design, development, and analysis of aerospace equipment
- Undertaking contracted engineering projects for design, development, and analysis of aerospace equipment

Business Description

- Product and Service Features
  - Tecseed provides services in mechanical design and development, such as strength analysis and main wings design of aircraft as well as structural design of helicopters and rockets.
  - Tecseed also provides design and development services in the electric/electronics/software fields, such as design of electric equipment, and satellite antennas as well as system interface between a satellite and equipment.

- Forte
  - Tecseed offers support solutions most suitable to the customer’s needs by combining “personnel dispatching”, “team dispatching”, and “contract work” based on the theme of the project, work volume, required skills, and the length of time allocated to the design and development phase.
  - Engineering work contracted by customers is carried out in Tecseed’s high-security in-house facility until the project is fully complete.
NGK Spark Plug Co., Ltd.

Description of Aerospace Business

- Manufacturing and sales of spark plugs used in aircraft and rocket engines

Product and Service Features

- Our spark plugs have been used for defense aircraft engines for years.
- Aircraft spark plugs need to work under severe conditions, and they must have strong structural features and high performances. We realized those features and performances with high quality and reliability.

Forte

- We have been pursuing “Japanese monozukuri”, or the art of Japanese manufacturing with our core technology of ceramics.
- Through close cooperation with our global subsidiaries, we have established an optimum global production system which allows us to provide the same high-standard products everywhere in the world.
- Our strength lies in the technologies to integrate different materials such as ceramics, metals and organic materials in areas requiring high reliability and durability.

Corporate Data

URL
http://www.ngkntk.co.jp/

Representative
Shinichi Odo, President and Chief Executive Officer

Establishment
1936

Capital
¥47,869,000,000

No. of Employees
5,809 (non-consolidated) as of March 31, 2014
12,760 (consolidated) as of March 31, 2014

Contact

Sales Inquiry
Public Relations Office
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+81-52-872-5896
FAX
+81-52-872-6097
E-Mail
webmaster@mg.ngkntk.co.jp

Certification

ISO9001
ISO14001
Nippon Valqua Industries, Ltd.

Description of Aerospace Business

- Design and manufacture of elastomer products for the aerospace industry
- Design and manufacture of fluoro resin products
- Design and manufacture of seal products such as packing and gaskets
- Design and manufacture of insulation products for the aerospace industry
- Development, design and manufacture of other products

Business Description

- **Product and Service Features**
  - Nearly 90 years of experience as a developer/manufacturer of seal products, with high engineering capabilities and reliability.
  - Designs and manufactures metal seal products with high sealing efficiency in ultra-low to high temperatures.
  - Designs and manufactures fluoro-resin – both in material form and film products – with superior performance in mould release and friction.
  - Designs and manufactures air-tight insulation and thermal insulation products.
  - Designs and manufactures packing which maintains high sealing efficiency under temperature cycles and pressure cycles.
  - Designs and manufactures seal products which condition air flow and absorb vibration of the disks near an engine.

- **Forte**
  - Design, material procurement, moulding, testing, and analyses are all performed in-house.
  - Nippon Valqua’s experience with products in various industries creates synergetic effects to aerospace products.
  - Certified in International Quality Standard, ISO9001.
Noritake Co., Limited

Description of Aerospace Business

- Development, manufacture, and sales of tableware, grinding and polishing tools, ceramic parts and materials, and heating and mixing devices

Business Description

- Product and Service Features
  - Noritake offers in-flight tableware, grinding wheels for precision grinding, ceramic cores, static mixers, and firing kilns.

- Forte
  - Noritake is the largest comprehensive manufacturer in Japan to make grinding wheels for precision grinding, and diamond and CBN tools used in aircraft engine production. The performance of Noritake’s tools – machining precision and machining efficiency, for example – ranks high in the world.
  - Noritake is certified JISQ9100:2009 for manufacturing of ceramic cores used to make cavities inside casting parts for aircraft engines.
  - Noritake has an abundance of know-how and technologies in static mixers, firing kilns, and drying furnaces, all of which are used to make carbon fiber composite materials for aircraft fuselages and wings.
Hashimoto-Unyu Co., Ltd.

Located in Nagoya
Headquarters
Address
1-4-20 Meiko, Minato-ku,
Nagoya 455-0037

Corporate Data
URL
http://www.hashimoto-unyu.co.jp/
Representative
Koji Hashimoto, President
Establishment
1952
Capital
¥10 million
No. of Employees
190

Contact
Sales Inquiry
TEL
+81-52-661-1442 (main number)
FAX
+81-52-661-0800
E-Mail
otoiawase@hashimoto-unyu.co.jp

Certification
ISO14001 (2004)

Description of Aerospace Business

- Kitting work for aircraft parts, and maintenance and management of power tools
- Manufacture of aircraft jigs/tools
- Transport of aerospace equipment

Business Description

Product and Service Features
- Hashimoto-Unyu provides one-stop packing services for domestic and overseas shipping, including packing design, disinfection of packing materials, cargo pickup, packing, customs clearance, package loading, and transport.
- Hashimoto-Unyu is equipped with qualifications, systems, and facilities required as a packing plant. It has a bonded warehouse licensed by Nagoya Customs and has implemented “Sea-NACCS System”. It also has established a heat treatment facility to disinfect packing timber.

Forte
- Hashimoto-Unyu owns large properties near Nagoya Port with an assembly plant, a warehouse, and other facilities.
- Hashimoto-Unyu believes that the efforts to acquire and maintain quality management systems certifications like ISO will lead to the growth of an enterprise and its people. Hashimoto-Unyu is always in pursuit of higher quality and higher cost performance.
Description of Aerospace Business

- Sales and contracted machining of special steel and general steel materials
- Sales of precision casting products, precision forging products, raw materials for jig molds, chemical products (solvent) and peripheral equipment

Business Description

○ Product and Service Features
  - Hayakawa offers domestic aircraft makers and their cooperating businesses a wide range of products such as precision casting products, precision forging products, raw materials for jig molds, chemical products (solvent), peripheral equipment, as well as special steel and non-ferrous metal materials.
  - Hayakawa provides precision casting products of any material – even those with a complex configuration or thin walls which are usually difficult to process.
  - In the area of jig molds, Hayakawa offers various jig molds; from those for aluminum molding to those for titanium hot forming, from small to large sizes.
  - Hayakawa offers a wide range of chemical products, from cleaning solutions to chemical milling.

○ Forte
  - As a trading company, Hayakawa provides customers with products unique to each customer or customer product. We offer an integrated service covering from launch all the way to delivery of a part or product. Hayakawa's products are delivered in a form of near-finished goods. Hayakawa also has established a supply system which can respond to the quality, price, and lead time required by customers in a flexible manner. Hayakawa will continue to contribute to the aircraft industry based on customer trust and know-how it gained over the years.
Hishii Shoji Company Ltd.

Description of Aerospace Business

- Sales of steel and non-ferrous metals and contracted machine processing of parts
- Sales of testing and other equipment made by MTS (MTS Japan)
- Sales of measuring and other instruments

Business Description

- Product and Service Features
  - In addition to sales of steel materials for plates and pipes, Hishii Shoji undertakes contracted parts manufacturing, including material procurement and metal machining.
  - As an official sales agent in western Japan for MTS (MTS Japan), Hishii Shoji offers strength testing devices as well as maintenance and calibration services for MTS products.

- Forte
  - Hishii Shoji has an especially good track record in steel materials such as plates and pipes, with systems in place to deliver parts and materials "just-in-time".
  - With a nation-wide network of metal processing functions, Hishii Shoji is able to undertake contracted metal processing work and deliver machined parts.
  - Having a construction license, Hishii Shoji can install the equipment.
Non-Destructive Inspection Co., Ltd.

Description of Aerospace Business

- Undertaking contracted non-destructive inspection work of aerospace products

Business Description

Product and Service Features
- NDIC performs non-destructive inspections on aerospace products with special equipment.
- NDIC ensures proper management of its inspectors’ competencies by mandating extensive training programs – including on-site OJT – in order to qualify inspectors to perform non-destructive inspections of aerospace products.
- Under the slogan “Providing safety technical services harmonized with humanity and technology”, NDIC and its employees strive to better serve the customers.

Forte
- NDIC has many qualified non-destructive inspectors who fulfill the experience and skill sets required by the aerospace industry.
- As a leading NDI company, NDIC continuously improves the levels of expertise and skills of each inspector by establishing systematic training and qualification programs.
- In order to maximize our technical capabilities as a technostructure, management-training programs are also provided to foster effective leaders through each phase of career development.
BEST-TECH Co., Ltd.

**Description of Aerospace Business**

- Design and analytical calculations of airframe structures and equipment systems for aircraft
- Design of testing equipment for aircraft structures and providing support for testing
- Providing engineering support for operations/maintenance of aircraft
- Performing research and study of aerospace technologies
- Design, analytical calculations, and testing associated with mounting equipment on helicopters, etc.
- Providing engineering support for operations/maintenance of helicopters, etc.

**Business Description**

- **Product and Service Features**
  - Best-Tech is a comprehensive engineering services provider specializing in the area of aerospace, offering solutions in design, development, maintenance, and operations.

- **Forte**
  - Best-Tech’s experienced engineers and technicians ensure high-quality deliverables.
  - Best-Tech has extensive experience in development and design modification of aircraft as well as acquisitions of certifications.
  - Helicopter operators, small-aircraft operators, and aircraft modification firms have come to Best-Tech to contract projects involving repair and design modifications of equipment. Best-Tech has gained valuable know-how and technologies through these past projects.

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**Located in Nagoya**

**Headquarters**

**Address**

Nichijyu-Bldg. 8F, 3-15, Ooi-cho, Naka-ku, Nagoya 460-0015

**Corporate Data**

**URL**

http://www.besttechjp.com/

**Representative**

Kazuyoshi Iguchi, Representative Director
Osamu Eba, Managing Director

**Establishment**

1989

**Capital**

¥27 million

**No. of Employees**

50

**Contact**

**Sales Inquiry**

Administration Section

TEL
+81-52-321-8755

FAX
+81-52-321-8758

E-Mail
aviation@besttechjp.com

**Certification**

MSJ4000 (2006)
Quality Management System Specifications
(Published by Mitsubishi Heavy Industries – Nagoya Aerospace Systems Works)
JIS-Q-9100 (To be certified in 2014)
Pony Industry Co., Ltd.

Description of Aerospace Business

- Development and manufacture of automatic inspection devices for aircraft
- Sales and calibration services of testing/measurement devices (backscatter X-ray inspection systems, XRF spectrometer, etc.)

Business Description

- **Product and Service Features**
  - With radiation-related devices as its core product line, Pony Industry uses its in-depth non-destructive inspection technologies, including ultrasound, eddy current, and magnetism, to develop, manufacture, and sell testing and measurement devices most suitable to customers’ needs.

- **Forte**
  - Pony Industry is capable of providing custom-made inspection devices to match the exact needs of the customer.
  - Backed by 50 years of experience, Pony Industry offers the best combinations of inspection method and device for customers.
  - Pony Industry’s Radiation Measurement Center is the first enterprise in the western region of Japan to be registered by JCSS.
  - Pony has delivered a total of 6 automatic inspection systems for aircraft to major heavy industry makers since 2003.
Matsubara Mfg. Co., Ltd.

Description of Aerospace Business

- Undertaking contracted work to perform special welding, assembly, and sheet-metal processing of aircraft parts
- Design and manufacture of defense-related equipment and its maintenance equipment
- Manufacture of prototype components

Business Description

● Product and Service Features
  - More than 90% of Matsubara’s aircraft operations are done in its Nagoya factory, enabling it to respond quickly to customer requirements.
  - Matsubara has in-house capabilities to perform welding, sheet-metal processing, design and manufacture of jigs, and press working, which are commonly performed by separate specialist companies.

● Forte
  - Matsubara can perform welding on materials of all thicknesses as well as on alloy products of aluminum, Inconel, titanium, etc.
  - Certified ISO9001 international quality management systems standard. Also certified JISQ9100, a quality management systems standard which includes ISO9001-equivalent requirements plus additional requirements specific to the aerospace industry.
  - Furthermore, Matsubara has acquired the Welding certification of Nadcap, an international accreditation for special processes in the aerospace and defense industry.

Located in Nagoya
Headquarters
Address
2-111 Urasato, Midori-ku,
Nagoya 458-0847

Corporate Data

URL
http://www.matsubara-mfg.jp/
Representative
Shigeki Ito, President
Establishment
1969
Capital
¥48 million
No. of Employees
130

Contact

Sales Inquiry
Aircraft Businesses Department
TEL
+81-52-891-2084
FAX
+81-52-895-5720
E-Mail
info@matsubara-mfg.jp

Certification

ISO9001 (2002)
JISQ9100 (2002)
Nadcap (2006)
Marubun Corporation

Description of Aerospace Business

- Import, sales, and support of aviation equipment (maintenance equipment, simulators, signal conditioners, semi-conductor recorders), satellite equipment (high-reliability parts for use in space, optical encoders), testing/measurement equipment, and sensors.

Business Description

- Product and Service Features
  - Marubun imports and sells flight testing equipment, data processing devices, and other equipment.
  - Marubun’s support structure provides peripheral services, such as maintenance of testing equipment and calibration of measurement instruments.

- Forte
  - Marubun’s strength lies in the import and sales of equipment used for flight and ground testing of aircraft as well as telemetry.
  - Marubun constantly seeks a variety of information on aerospace products in Japan and abroad in order to offer customers reliable and reputable overseas products.
  - With a close relationship with the domestic engineering service company, Foresight Techno Co., Ltd., Marubun provides primary maintenance services to customers.
Mikuni Corporation
Aerospace & Machinery Company

Located in Nagoya
Nagoya Sales Office, Aerospace Division
Address
Round Terrace Fushimi Bldg. 8F,
1-17-26 Nishiki, Naka-ku,
Nagoya 460-0003

Corporate Data
URL
http://www.mikuni.co.jp/index.html
Representative
Hisataka Ikuta, President
Establishment
1948
Capital
¥2,215,300,000
Sales
¥81,942,000,000 (consolidated)
No. of Employees
1,660

Contact
Sales Inquiry
Nagoya Sales Office, Aerospace Division
TEL
+81-52-223-3920
FAX
+81-52-223-3925
E-Mail
aerospace@mikuni.co.jp

Certification
ISO9001 (2001)
JISQ9100 (2006)
MSJ4000 (2006)

Description of Aerospace Business
Import and sales of materials and components used in aerospace engines and airframes, ground equipment, and testing devices

Business Description

● Product and Service Features
  • Mikuni Corporation quickly adapts to changes in business models and contributes to the development of the domestic aerospace industry.
  • Mikuni Corporation is now expanding its operation overseas in the area of exports and off-shore trades.
  • Main customers include IHI Corporation, Mitsubishi Heavy Industries, Ltd., Kawasaki Heavy Industries, Ltd., Fuji Heavy Industries Ltd., and Fujiwara.
  • Mikuni Corporation is a major sales agent for PCC-Wyman Gordon Group (casting and forging products), LeFiell Manufacture Co. (specially-processed tubes), Alcore Co. (honeycomb materials), PPG Japan (paints and sealants for aircraft), Hitoco, Carbon Composites, Inc. (large-size composite parts), Touchstone Research Laboratory (carbon foam materials for composite molding tools), and Huntsman Japan KK (adhesives for aircraft).

● Forte
  • Mikuni Corporation has served government agencies, heavy industry companies, and the Japanese aerospace industry through the import and sales of aerospace materials, parts, and components.
  • As a sales agent of major U.S. manufacturers, Mikuni Corporation has over 60 years of experience in the industry, supplying imported materials as well as parts made through contracted machining overseas.
  • Having overseas aerospace business locations in Los Angeles (U.S.A.), Frankfurt (Germany), and Taipei (Taiwan), Mikuni Corporation closely exchanges the latest industry information with these partners to better serve its customers.
  • Mikuni Corporation’s services are highly recognized by its customers. It won the Good Relationship Initiative with Partner Award from Mitsubishi Heavy Industries, Ltd., Aerospace Business Headquarters, Quality Assurance Group in 2013. Mikuni Corporation received, also in 2013, the Outstanding Partner Award from Kawasaki Heavy Industries, Ltd., Aerospace Company, Manufacturing Headquarters.
Description of Aerospace Business

- Manufacture and sales of silicon rubber heaters for aircraft production

Business Description

- Product and Service Features
  - Mizuho Craft provides silicon rubber heaters to fit the most complex configurations of aircraft based on customer specifications.
  - Mizuho Craft develops and sells temperature controllers required in the molding and repair of CFRP.

- Forte
  - Mizuho Craft can manufacture and deliver even a single silicon rubber heater which fits the most complex configuration of aircraft jigs.
  - Silicon rubber heaters have uniform temperature distribution properties and are suitable for molding and repair work on aircraft CFRP.
  - Mizuho Craft has delivered heaters and temperature controllers to Boeing, Japanese and overseas aircraft manufacturers, and airlines.
## Description of Aerospace Business

- Development, Production, Sales, and Customer Support for the Mitsubishi Regional Jet, or the MRJ

## Business Description

### Product and Service Features
- The MRJ is a next-generation regional jet developed by Mitsubishi Aircraft based on technology cultivated by Mitsubishi Heavy Industries, Ltd. (MHI) through its development and production of both military and commercial aircraft.
- Mitsubishi Aircraft is aiming to inherit the technical foundations of MHI and contribute to the skies to the world by offering the best solution with the next generation jet; the MRJ.

### Forte
- The MRJ is the next generation regional jet which will offer both top-class operational economy and outstanding cabin comfort.
- By featuring a game-changing engine, state-of-the-art aerodynamic design, and noise analysis technology, the MRJ will significantly cut fuel consumption, noise, and emissions.
- The MRJ will have a four-abreast seat configuration, with large overhead bins, and also feature a slim seat that offers heightened comfort to passengers.
Located in Nagoya
Nagoya Aerospace Systems Works
Address
10 Oye-cho, Minato-ku,
Nagoya 455-8515

Corporate Data
URL
www.mhi.co.jp
Representative
Shunichi Miyanaga, President & CEO
Establishment
1950
Capital
¥265.6 billion
No. of Employees
31,111

Contact
Sales Inquiry
Commercial Aviation & Transportation Systems
Integrated Defense & Space Systems
* A number of contacts are available depending on types of inquiry.
* Please use the inquiry form available from our website (mhi.co.jp).

TEL
Please use the inquiry form available from our website (mhi.co.jp).
FAX
Please use the inquiry form available from our website (mhi.co.jp).
E-Mail
Please use the inquiry form available from our website (mhi.co.jp).

Certification
ISO9001 (1997)
JISQ9100 (2002)

Description of Aerospace Business
- Development and manufacture of defense aircraft, aircraft engines, missile systems, underwater/warship equipment, space equipment, etc.
- Development and manufacture of commercial aircraft components
- Manufacture of the MRJ (Mitsubishi Regional Jet)
- Development and manufacture of launch vehicles; and providing launch services

Business Description
- Product and Service Features
  - Of over 700 product families offered by MHI, Nagoya Aerospace Systems Works responds to a wide range of customer needs in the areas of commercial aircraft, defense aircraft, and space equipment.
  - It is our vision to consolidate the MRJ production system, commercialize next-generation defense aircraft, and support continuing success in launch services.

- Forte
  - MHI possesses advanced technological abilities to support the development and manufacture of aircraft and space equipment.
  - MHI has a high level of integration capabilities to assemble numerous components into aerospace equipment products.
Mitsubishi Corporation RtM Japan Ltd.

Description of Aerospace Business

- Domestic sales of aluminum alloys for aerospace equipment

Business Description

- Product and Service Features
  - Mitsubishi Corporation RtM Japan Ltd. is responsive to the needs of stakeholders and the community and offers "value-added" products and services in metal resources trading.

- Forte
  - Mitsubishi Corporation RtM Japan Ltd. utilizes offices in Japan, its international headquarters in Singapore, as well as the Mitsubishi Corporation’s network to serve its customers.
  - Utilizing close cooperative relationships with metal suppliers in order to provide strong support to aircraft manufacturers.

Located in Nagoya
Nagoya Branch
Address
Nagoya Daiya Ichigo-kan 7F,
3-16-22 Meieki, Nakamura-ku,
Nagoya 450-0002

Corporate Data
URL
http://www.mitsubishicorprtm.com/
Representative
Kenji Tani, President and C.E.O.
Establishment
1947
Capital
¥3,143,062,500
No. of Employees
307

Contact
Sales Inquiry
Aerospace Material Team, Nagoya Branch
TEL
+81-52-588-0178
FAX
+81-52-565-0199
E-Mail
Please refer to "Contact" page on our website

Certification
ISO14001 (2000)
ISO9001 (2006)
ISO9100 (2006)
Mitsuwa Electronic Co., Ltd.

Description of Aerospace Business

- Aircraft design (basic design, detailed design, maintenance design)
- Analysis (strength, vibration, fluid, thermal, kinematic, and fatigue analyses)
- Design, selection, and specification building of hardware associated with programs for components’ systems; software design
- Testing and research, production engineering, maintenance, and other engineering support

Business Description

- Product and Service Features
  - Mitsuwa Electronic is a team of expert engineers specializing in cutting-edge technologies for aircraft. The high engineering abilities of Mitsuwa Electronic have won strong trust and a high reputation amongst its customers.
  - Aerospace Business Unit consists of the Design Group, Analysis Group, Electric/Electronics Group, Research Group, Production/Production Engineering Group, and Maintenance Group. Project teams are assembled with members appropriate to the contracts with aircraft manufacturers.

- Forte
  - Based on its management policy, “A corporation is only as good as the people who work for it”, Mitsuwa Electronic secures outstanding human resources. We are confident that Mitsuwa Electronic possesses unrivaled levels of engineering abilities.
## Description of Aerospace Business

- Import and sales of components, machining tools, and other equipment associated with aircraft and aircraft production

## Business Description

### Product and Service Features

- Murakami Jitsugyo is a trading company specializing in aircraft and offers specialty machines, hand tools, GSE, components, parts, materials and everything else associated with aircraft.
- Cost, quality, and delivery timing are the three pillars of our business. We maneuver effectively to respond to customer needs.

### Forte

- Over 50 years of experience as a trading company specializing in aircraft. Murakami Jitsugyo has in-depth knowledge of products and their engineering characteristics as well.
- Murakami Jitsugyo optimizes its overseas subsidiaries as valuable resources in order to provide customers with the latest information in the industry. Murakami Jitsugyo is also able to undertake contracted work to process aircraft parts overseas.
## Meinan Machinery Works Co., Ltd.

### Description of Aerospace Business
- Manufacture of machined parts for aerospace use
- Design and manufacture of jigs and parts for aircraft assembly

### Business Description

#### Product and Service Features
- Meinan Machinery Works machine-processes aerospace parts according to CATIA data provided by customers, and designs and manufactures jigs in-house.
- Meinan Machinery Works excels in machining of aluminum, titanium, and other hard-to-cut materials as well as 3D profiling.
- Meinan Machinery Works plans to install a five-axis machining center, a thermostatic chamber, and 3D measurement device in its plant.

#### Forte
- Taking advantage of the good location of its offices and plants, Meinan Machinery Works can respond to rush orders.

### Contact

**Sales Inquiry**

**TEL**  
+81-52-823-2810

**FAX**  
+81-52-824-4107

**E-Mail**  
seisankanri@meinan-kikai.co.jp

### Certification

- ISO9100 (To be certified in 2014)
- MSJ4000
Meiho Electronics Co., Ltd.

Description of Aerospace Business

- Import and sales of connectors for aerospace use

Business Description

- Product and Service Features
  - Meiho Electronics imports and offers connectors used in aircraft as an official Japanese sales agent for Aero-Electric Connector.
  - Meiho Electronics manufactures and sells wire harnesses using connectors for aircraft-use with excellent hostile-environment resistance.

- Forte
  - Aero-Electric Connector offers high-performance and high-reliability connectors with mil-spec standards.
  - In addition to Aero-Electric Connector products, Meiho Electronics also offers products made by Souriau, Glenair, Hermetic Seal, Lemo, and other makers.
Description of Aerospace Business

・ Manufacture and sales of bolts and nuts for aerospace use
・ Manufacture and sales of rod assemblies for aerospace use
・ Manufacture and sales of precision machined parts for aerospace use

Business Description

● Product and Service Features
  • Meira offers one-stop manufacturing solutions which include material procurement, machining, heat treatment, non-destructive inspections, surface treatment, coating/painting, assembly, and even special processes.

● Forte
  • Meira has various heat treatment facilities including; vacuum quenching furnace for low alloy steels and ultra-high-strength steel; vacuum furnace for solution and extraction of heat-resistant high-corrosion-resistant steels, ultra-high-heat-resistant alloy steels; aluminum heat treatment furnace; solution furnace for titanium; tempering and extraction treatment furnace; sub-zero furnace; and stress relief furnace.
  • Meira is able to perform a variety of surface treatments including; cadmium plating, nickel zinc plating, hard chromium plating, aluminum anodizing, aluminum chemical conversion coating, titanium etching, passivation, Black Oxide Coating, and shot peening.
Description of Aerospace Business

- Manufacture of specimens for aerospace engineering testing
- Design and manufacture of jigs and tools for aircraft production

Business Description

Product and Service Features
- Yamashita is committed to manufacturing high-precision products such as wind tunnel models, jig molds, jigs, and specialty components for aircraft.
- Yamashita ensures the high reliability of its products through integrated manufacturing, which includes design and development, as well as the uncompromising pursuit of quality.

Forte
- Yamashita responds to all custom-made jig and mold needs; whether small or large, or for research, prototype, or mass production.
- Yamashita offers one-stop services for jigs and molds, covering design, manufacture, and inspection/testing.
Located in Nagoya
Central Japan Sales Division
Address
Nagoya Prime Central Tower 3F,
2-27-8 Meieki, Nishi-ku,
Nagoya 451-0045

Corporate Data
URL
http://www.jp.yusen-logistics.com
Representative
Hiromitsu Kuramoto, President
Establishment
1955
Capital
¥4,301,000,000
No. of Employees
19,192 (consolidated) (as of March 31, 2014)

Contact
Sales Inquiry
Sales Promotion Section, Central Japan Sales Division
TEL
+81-52-308-3522
FAX
+81-52-308-3533
E-Mail
yljpnsp@jp.yusen-logistics.com

Certification
JISQ9100 (2010, Japan)
JISQ9001/ISO9001 (1996, Japan)
TAPA (2005, Japan)
AEO (2013, Japan)

Yusen Logistics Co., Ltd.

Description of Aerospace Business
- Logistics services such as international transport, domestic transport and delivery, customs clearance, inventory control of aerospace components
- Providing solutions to optimize procurement and distribution

Business Description
● Product and Service Features
- Yusen Logistics is the comprehensive logistics company of NYK Group, undertaking contracted logistics seamlessly covering air/ocean freight forwarding, procurement, and distribution and offering various logistics solutions.
- Certified JISQ9100, the first in the logistics industry in Japan. In addition to inventory management service for aircraft parts and materials, Yusen Logistics is now able to offer services such as kitting and shipment inspection.

● Forte
- Yusen Logistics global network spreads to 478 locations, 293 cities in 40 countries with the total warehouse floor space of 2,010,000 m². It handles annual cargo of 300,000 t in air freight and 600,000 TEU in ocean freight. Yusen Logistics offers total logistics services by maximizing its global resources and business scale.
- In addition to over 30 years of experience in aircraft-related industry logistics services, Yusen Logistics has a network of expert teams specializing in the aircraft industry located in Japan and abroad. Maximizing its expertise and resources, Yusen Logistics is able to respond to emergency transport such as AOG (Aircraft On the Ground).
- Expert knowledge in tax incentive applications associated with procurement and import, as well as customs clearance involved in import/export of aircraft parts and materials.
- In order to prevent loss and theft during product transport and storage, Yusen Group companies in Japan and overseas have acquired CLASS A, the highest security class, of the storage and security standard, TAPA.
Description of Aerospace Business

- Development, manufacture, and sales of flat panel displays
- Development, manufacture, and sales of aircraft equipment
- Development, manufacture, and sales of space equipment
- Development, manufacture, and sales of ground support equipment

Business Description

Product and Service Features

- Yokogawa provides seamless services covering development through manufacture of products used in the aerospace industry. Yokogawa’s aircraft components products include flat-panel display, flight and navigational instruments, engine instruments, fuel gauge systems, and various control equipment. Yokogawa also provides ground support equipment, control equipment for rockets, and high reliability and environmental durability avionics equipment.

Forte

- Yokogawa provides high quality display systems that are used under such unfavorable conditions like nighttime, direct sunlight, and so on. In the future, Yokogawa will develop an advanced pilot interface system incorporating sensor and network based displays to reduce pilot workload and to improve aircraft safety. Yokogawa will contribute to the modernization of the cockpit.
Ryoyu Systems Co., Ltd.

Description of Aerospace Business

- Analyses, design, and testing associated with aircraft/space equipment
- Development of systems to support analyses and design associated with aircraft/space equipment
- Providing support in implementation of IT facilities used in analyses and design of aircraft/space equipment

Business Description

- Product and Service Features
  - High capabilities in fluid analysis, structural analysis, and impact analysis in the area of aircraft and space equipment design. Ryoyu Systems combines the understanding of physical phenomena and the use of its analysis server and analytical software in order to provide precise and accurate analyses.
  - Uses CAD software such as CATIA and Pro/E in designing structures, equipment, and electrical devices of aircraft and space equipment.
  - Ryoyu Systems first gains an accurate understanding of customers’ operations in order to provide proposals and support in implementation of IT facilities associated with analyses, design, and manufacture of aircraft and space equipment.
  - Ryoyu Systems develops automation systems and support systems which can increase efficiency in analysis and design operations associated with aircraft and space equipment.
  - Ryoyu Systems participates in development projects of new aircraft and space equipment in order to support the maiden flight of the MRJ.

- Forte
  - Over 30 years of experience in the aerospace industry and the ability to capture the precise needs of customers in design requirements.
  - Offers optimum services by integrating analysis, design, and IT solutions.
  - Ryoyu Systems strives to maintain customer trust as a MHI Group company and uphold the corporate social responsibility as a listed enterprise.
Wada Engineering Co., Ltd.

Description of Aerospace Business

- Dispatching engineers to aircraft manufacturers and undertaking contracted work

Business Description

- Product and Service Features
  - Wada Engineering offers engineering support in design, production engineering, and quality assurance associated with aircraft.
  - Wada Engineering undertakes projects involving design, modeling, mock-up production using a 3D printer, and prototyping in the manufacturing and development phases.
  - In collaboration with group companies which perform aircraft assembly and parts production, Wada Engineering offers services as a Tier 1 company which can handle integrated orders of aircraft assembly and production.

- Forte
  - The parent company, Wada Seisakusho, has years of experience in aircraft assembly. Wada Engineering ensures high-quality services through experts with in-depth knowledge of what goes on in an aircraft production site.

Located in Nagoya
Headquarters
Address
Dai-yon Ryoko Bldg. 2F, 6-18 Oecho, Minato-ku, Nagoya 455-0024

Corporate Data

URL
http://www.wadae.jp/
Representative
Noriyuki Wada, President
Establishment
1999
Capital
¥10 million
No. of Employees
65

Contact

Sales Inquiry
Aircraft Product Division
TEL
+81-52-825-4731
FAX
+81-52-825-4732
E-Mail
v5@wadae.jp

Certification
JISQ9001 (2012)
JISQ9100 (2012)
Description of Aerospace Business

- Design and manufacture of jigs and gauges for precision machining used in the production of aerospace equipment parts

Business Description

- Product and Service Features
  - Built-to-order production of jigs and tools – both attachment jigs for machining tools and inspection/measurement jigs – used in manufacturing of turbine blades inside the engine.
  - Built-to-order production of stress-rupture specimens for aerospace equipment.

- Forte
  - Turbine blades are “in 3-dimensional complex configurations”, “thin”, and “easily deformable”. This is why a high-level of production techniques are required to make tools used in turbine blade grinding. Testing and measurement gauges used on turbine blades after the grinding process require even higher techniques such as high-precision positioning.
  - Capable of precision grinding for high-precision gauges and masters, such as serration gauges with 0.002 degrees of contour.
  - Equipped with a full line of electric discharge machines, allowing us to perform machining in unconventional gauge configurations.
  - Capable of making products of uniform quality in batches of 100, such as stress-rupture test specimens for aerospace equipment.
  - Capable of designing and manufacturing pitch gauges, flatness measurement gauges, and other general measurement gauges.