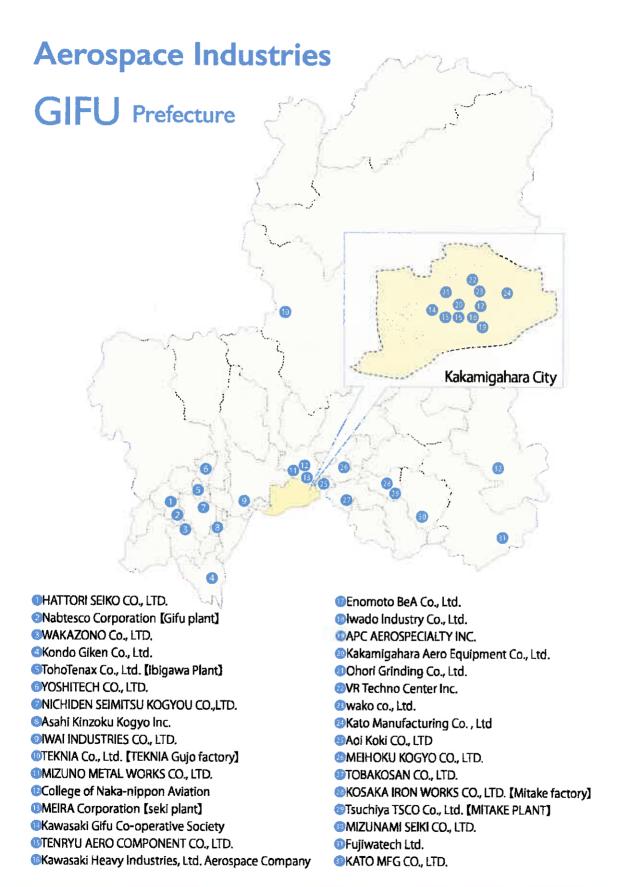


岐阜県航空宇宙産業関連企業 2016

Glfu Prefecture

岐 阜 県









HATTORI SEIKO CO., LTD.

Cutline Business

- Precision machining for aviation, space and defense.
- Manufacture of precision parts for hydraulic systems and construction machinery.
- Manufacture of parts for roller bearing.

- The process integration by multi-turret and multi-spindle machine.
- Possible consistent production of precision parts from turning process and milling process to heat treatment and grinding process.





Adress	1463 Tarui town, Gifu-prefecture, 503-2121 Japan
T e l	+81-584-22-2155
URL	http://www.hattori-seiko.co.jp
E-mail	info@hattori-seiko.co.jp
Found	Sep. 1953
Representative	Kenji Hattori
Capital	JPY 50 million
Sales	JPY 1.2 billion
Employees	90
M a j o r Customers	Mitsubishi Heavy Industries, Ltd. / Caterpillar Japan, Ltd. / Nippon Roballo Co., Ltd.

Nabtesco Nabtesco Corporation

2

Outline Business

Nabtesco operates in a range of fields related to the industry, such as people's lives and the environment by using its motion control technology to move and stop objects in a precise manner as the mainstay for its businesses. Our products and technologies are used in industrial robots, transport equipment, construction machinery and so on. We are conducting the aircraft equipment business widely, targeting both Japan's National Defense field and the japan and the global civil aviation field. Specifically we supply flight control actuation systems, the core component to control the flight attitude of aircraft, and various other equipment to the world's leading aircraft manufacturers. We also provide them with parts as aftermarket support.

Our Strength

We enjoy high market shares both in Japan and abroad for a range of products.

(Aircraft business) In the world of aviation, where safety must come first, we have accumulated the world's best production technologies and know-how. The expertise is incorporated into our products including the high voltage electric power distribution unit, which is adopted for the leading-edge Boeing 787 aircraft, along with Boeing 777X other aircraft equipment.



Adless	[Headquarters] JA Kyosai Bldg., 7-9, Hirakawacho 2-chome, Chiyodaku, Tokyo 102-0093 Japan [Gifu plant] 1110-1 Miyashiro,Tarui-cho,Fuwa-gun,Gifu,603-2192 Japan
T e l	+B1-3-5213-1165 (AEROSPACE COMPANY)
URL	http://www.nabtesco.com
E-mail	
Found	September 29 , 2003
Representative	President & CEO: Kazuaki Kotani
Capital	JPY 10 billion
Sales	JPY 187 billion
Employees	Consolidated: 5,839 (As of December 31, 2015)
M a j o r Customers	(Aircraft busines) The Boeing Company / Ministry of Defense / Mitsubishi Heavy Industries, Ltd. / Kawasaki Heavy Industries, Ltd. / IHI Corporation / Mitsubishi Aircraft Corporation etc.

WAKAZONO Co., LTD.

Outline Business

Manufacture of metal products:

(Precision components, prototypes, 3/5-axis manufacturing systems, electrical discharge, Tig welding, 3 dimensional scanners, laser scanners, CAD, CAM)

#Production and development of prototypes through general machining.

(Die cast metal, all varieties of aluminium (A2000~A7000), cast metal, stainless steel),

Our Strength

53 years have passed since the establishment of the company. We specialize in the manufacture of metal products through use of machining centres.

Our main strengths are: ① Cutting technology, ② Quality control, ③ Speed of manufacture.

① Machining technology: With a total of fourteen machines, centered on a 5-axis C40U made by the German Hermie company and a Dmu105Monoblock from the DMGMORI corporation, we produce metal components of complex forms with the latest machining technology and then deliver straight to the customer. (We are capable of machining up to a maximum size of 2000x1300x1000).

② Quality control: We operate according to ISO standards. In addition to 3D measurements through physical contact, in recent years we have also started carrying out non-contact measurements with laser scanners. We deliver the results of FARO contactless laser scans expressed as an easy-to-understand colour map to our customers, along with the results of traditional contact measurements.

③Speed of manufacture: In addition to preparing a complete set of cutting edge equipment and tools, we have introduced several items of CAM software developed for 5-axis machining centers such as `CAM-TOOL` and `HyperMill`. This gives us the capability to meet short delivery deadlines.







Collections of examples of metal injection items depending on 5-axis machining: (KN500, Duralumin A7075, Titanium 64).







We keep our factory at a temperature of 23 degrees and our 3D measurement room at a temperature of 20 degrees for 24 hours 365 days a year to ensure consistency.

Adress	450 Murchara, Yoro town, Yoro county, Gifu prefecture, 503-1301 Japan
T e	+81-584-33-2230
U R L	http://www.wakazono.jp
E-mail	t_wakazono@wakazono.jp
Found	December 1963
Representative	Akito Wakazono
Capital	JPY 10 million
Sales	JPY 300 million
Employees	19
M a j o r Customers	We are trading with various domestic tier-one automobile supply companies and various manufacturers trading in components for use in aviation experiments.



Kondo Giken Co., Ltd.



Outline Business

<Products>

Automotive components, specialized parts, machine tool components, medical tools, control equipment, and precision machining of aircraft components

- <Technology>
- Design and manufacture of machine tools
- Manufacture of cutting tools and development of re-grinding methods
 - Contributing to an increase of productivity
- Use of our own inspection systems by a CMM (Coordinate Measuring Machine)
 - → Establishing an integrated system of production from raw materials to finished products
- <Equipment>
- @Five-axis NC profiler
- **©CMM** (Coordinate Measuring Machine)
- **@3D CAD/CAM**
- Others
- <Specializations and experiences>
- @Aluminum (A2017, A2024, A5052, A7075)
- Titanium (Ti-6AL-4V)
- Stainless (SUS303, SUS304, SUS316, SUS430, SUS630, 15-5PH)
- Heat-proof hook (713C, SCH21, HK30)
- <Certification>
- @IS09001 (No.4503)
- #JISQ9100 (No.A4540)





Adress	335-1, Gocho, Kaizu-cho, Kaizu city, Gifu prefecture, 503-0645 Japan
Т е	+81-584-53-0936
U R L	http://www.kondougiken.com
E-mail	info@kondougiken.co.jp
Found	1-May-80
Representative	Terumasa Kondou
Capital	JPY 24 million
Sales	JPY 950 million
Employees	60
M a j o r Customers	HIKARI SEIKO Co., Ltd. / Howa Machinery, Ltd. / Brother Industries, Ltd.



Toho Tenax Toho Tenax Co., Ltd.

5

Dutline Business

Production of composite

Development of composite

Our Strength

Toho has been manufacturing and selling the carbon fiber under the trademark "Tenax". Customers are able to select materials such as a carbon fiber, prepreg or composite materials from the rich lineup. We have been producing mainly aircraft parts and some automotive parts, medical parts at Ibigawa plant. We have capability of several molding methods such as large automobile, RTM equipment and FW equipment. Also, we have capability of machining such as trimming, drilling and inspection with NDI and final painting large parts. These continuous production process is our advantage.

Ceratification

Environment Management : ISO 14001 Safety Management : OHSAS18001

Quality Management: ISO 9001, JIS Q 9100,

NADCAP (composite) (NDT)

Main equipment

Autoclave. RTM equipment, FW equipment, Ultrasonic inspection system, 5axis NC Profiler,

Clean room, Laser projection system, Painting booth ,etc.



Head Office



Ibigawa Plant



Auto clave

Adress	[Head Office] Kasumigaseki Common Gate West Tower, 3-2-1 Kasumigaseki. Chiyoda-ku.Tokyo 100-8585 Japan [Ibigawa Plant] 1801 Godo, Godo-cho, Anpachi county, Gifu prefecture, 503-2305 Japan
T e l	[Head Office] +81-3-3506-6800 [Ibigawa Plant] +81-584-28-0576
URL	http://www.tohotenax.com/tenax/en/index.php
E-mail	https://www.tohotenax.com/tenax/contact/en_form_products.php
Found	July,1950
Representative	Akio Nakaishi
Capital	JPY 500 million
Sales	JPY 21.9 billion
Employees	594
M a j o r Customers	Kawasaki Heavy Industries, Ltd. / Mitsubishi Heavy Industries, Ltd. / Toyota Motor Corporation etc



YOSHITECH CO., LTD.



Outline Business

- Design and manufacture of anti-earthquake reinforcement construction products for bridge-girders and architectural buildings
- Design and manufacture of scaffolding for assembling aircrafts and helicopters
- Design and manufacture of can manufacturing products (square and round tanks, cradles, promenades and stairs)
- Design and manufacture of relevant equipment, molds, scaffolding, metal brackets
- Design and manufacture of architectural steel beams and relevant components
- Powder coating and surface finishing treatment (shot blasting and japanning)
- Design and manufacture of steel molds for bridge-girders and architectural buildings

Our Strength

Our company is playing an active role in the field with the aim of fostering innovation and solid technologies. Our target for quality is Striving to gain trust from our customers with better quality. nurturing human resources, and contributing to society."We have been awarded the M grade by the Ministry of Land, Infrastructure, Transport and Tourism, as well as an ISO 9001 compliance certificate.



Adress	1115-1, Shimokata, Ono city, Ibi county, Gifu prefecture ,501-0523 Japan
T e l	+81-585-34-3899
U R L	http://www.yoshitech.co.jp
E-mail	yoshitech01@yoshitech.co.jp
Found	2002/6/26
Representative	Yoshihiro Yoshida
Capital	JPY 22 million
Sales	JPY 1,200 million
Employees	62
M a j o r Customers	Dai Nippon Construction / KAWAJU GIFU ENGINEERING CO., LTD. / Murata Machinery, Ltd. / Sankyu Inc. / TAKUMA CO.,LTD.





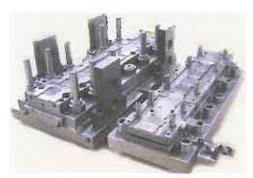
NICHIDEN SEIMITSU KOGYOU CO.,LTD.

7

Outline Business

- Design and manufacturing of high precise dieset
- Design and manufacturing of high precise dieset parts, lead frame for semiconductor and electirc parts
- Design and manufacturing of fully automated machine

- •We specialise in fabrication for difficult-to-machine material based on ultra-precision machining to the micron order and measuring technique
- We cover from design to manufacturing especially for precise dieset and parts ,and assembly for precise electric parts and complex parts
- •We design and manufacturing of fully automated machine, and can develop specialized line with labor saving machines
- @We provide attractive goods from development to sales







Adress	336-1 MITSUZUKA-CHO OGAKI-CITY, Gifu prefecture, 503-8557 Japan
T e I	+81-584-81-6321
U A	http://www.nsk-cp.co.jp
E-mail	gacct@nsk-cp.co.jp
Found	Oct, 1949
Representative	Masahiro Yoshida
Capital	JPY 88.8 million
Sales	
Employees	366 (all groups 8/2016 present)
M a j o r Customers	



Asahi Kinzoku Kogyo Inc.



Outline Business

- Aerospace Parts Manufacturing
- Auxiliary equipment manufacturing
- #High Technology R&D and manufacturing

Our Strength

Asahi Kinzoku Kogyo Inc. is one of the largest supplier of surface treatment for aircraft parts in Asia, having 65-years of tremendous know-how. In our house, we have over 50 kinds of special processes including NDT, Shot Peening, Anodizing, Plating, HVOF Thermal Spray Coating approved by Nadcap, main primes and Tier1 suppliers. Asahi also has a capability of Machining (including 5 Axis), Painting and Sub-Assembly which achieves to establish our One-Stop-Shop production.







Adress	4851-4, Maki, Anpachi town, Anpachi county, Gifu prefecture, 503-0125 Japan
T e l	+81-584-64-5433
URL	http://www.asakin.com/
E-mail	asakin@akg.co.jp
Found	1948
Representative	Yasuhiro Yamanaka
Capital	USD 995,000
Sales	USD 65.9 million
Employees	612 (as of Jul, 2016)
M a j o r Customers	MHI / Shimadzu Corp. / KHI / FH





9

Outline Business

Assembly of aircraft parts

- Assembly of keel beams and stringers for Boeing 777 aircraft
- Assembly of keel beams for Boeing 787 aircraft
- Assembly of wing stubs for Embraer 170 aircraft

Painting of aircraft parts

- ①35years achievement and experience in assembling aircraft structural parts.
- @35years achievement and experience in painting aircraft structural parts.
- Machining and sheet metal processing of general parts.
- Speedy and flexible customer service.
- ⑤ Flexible service for small lot orders.
- ®Economical and proper price.
- @Satisfying arter-sales service.



Adress	3-14-7 Ichihashi, Gifu city, Gifu prefecture, 500-8381 Japan
T e I	+81-58-276-7155
UR	
E-mail	watanabe-yukio@iwai-ind.co.jp
Found	June 16, 1964
Representative	Takayuki Iwai
Capital	JPY 40 million
Sales	JPY 1,2billion
Employees	185
M a j o r Customers	Kawasaki Heavy Industries, Ltd.



TEKNIA Co., Ltd.

10

Outline Business

TRefined Parts Machining including Difficultto-Cut Material

- For machine tools
- For aircraft and train vehicle parts
- For industrial machine part





Titanium alloy part

Aircraft part

Our Strength

TEKNIA offers highly sophisticated machining backed by the company's one hundred years of experience. We have been supplying machined parts for aircraft parts for aircraft equipment, especially for motors, generators, gear boxes and hydraulic units. TEKNIA also has started overseas plant in Thailand, which contributes to meet competitive price of part machining with efficiency.

- Machining for various materials including Difficult-to-Cut Materials
 We process high strength alloy steel (4340), stainless steel (15-5PH), titanium (Ti-6Al-4V)
 Work size: φ50mm-φ800mm (2-32 inches diameter), □50mm-□600mm (2-24 inches square)
- Extensive processing facilities and craftsmanship
 We have a series of machinery and maintain excellence in quality and technique with trained workers.
 (Machining center, NC lathe, milling, drilling machine and grinding machine)
- 3. Owned process and original equipment planning
 Our policy is to create our own tools and equipment, in the process planning, seeking for
 the fastest and the more efficient manufacturing



Head office



Aisai plant



Thai plant



Gujo plant

Adress	3-459 Ematsu, Nakagawa-ku, Nagoya city, Aichi prefecture, 454-0954 Japan [Gujo factory] 7-1716 Kakoujima,Shirotori-cho,Gujo city, Gifu prefecture, 501-5124 Japan
T e l	+81-(0) 52-303-3347
U R L	http://www.teknia.co.jp
E-mail	ishida@teknia.co.jp
Found	1912
Representative	Hiroshige Takahashi, CEO
Capital	JPY 65 million
Sales	JPY 600 million
Employees	50
M a j o r Customers	Sinfonia Technology / Asahi Kinzoku Kogyo / AIKOKU ALPHA / DMG MORI / Okuma





MIZUNO METAL WORKS CO., LTD.

Ti

Outline Business

- Machining of the aerospace product
- Assembly and overhaul of the airframe of airplanes
- Machining of the hydraulic components
- Design and production of jigs for aerospace products

Our Strength

Technique to process lamina long length aluminum material by exclusive processing machine of 10m. Technique to process titanium alloy product by self-developed high efficiency tool.

We're possessing these functions. Design and production of jigs for airplanes. Mechanical processing.

Assembly and overhaul of the airframe of airplanes. We have a system that an integrated production of aircraft parts will be done.



Adress	4539-10 Kurachi, Seki city, Gifu prefecture, 501-3936 Japan
T e l	+81-575-21-5511
U R L	http://www.miztec.jp
E-mail	info@miztec.jp
Found	FEB.10 1951
Representative	PRESIDENT Tatsuhiro Mizuno
Capital	JPY 48 million
Sales	JPY 2.7 billion
Employees	198
M a j o r Customers	Kawasaki Heavy Industries, Ltd. / Mitsubishi Heavy Industries, Ltd. / KYB Corporation / Fuji Heavy Industries, Ltd. / NIPPI Corporation



College of Naka-nippon Aviation

12

Outline Business

College of Naka-nippon Aviation (CNA) has been training for engineers who are active in the fields of aerospace industry. Installation 3Departments of Aviation Maintenance department, Aviation Production department, and Airport Service department. Graduates 11,925 alumni (as of March, 2016). It is active in related companies and government aerospace nationwide.

Our Strength

The Education Philosophy of the CNA*We take pride in building great people, not just great technicians*, to focus on humanity and practical science education, is the aviation technical school of Japan's largest. It is one of the few educational institutions in the nation that can be obtained in the field test exemption in the student as "Minister of Land, Infrastructure and Transport specified airman training facility designated school*an airplane and helicopter aviation mechanic qualifications in aviation mechanic training. Also in the aviation production technology fields and airport business areas, Japan highest level of educational environment, we are developing a practical science education utilizing equipment. As a profession practice specialized courses installation schools, we have to train the humanity rich aviation workers through the introduction and overseas training of interns system by industry-academia-government collaboration to each department both



Adress	1577-5 Kittabora Hazama seki city,Gifu prefecture, 501-3924 Japan
T e	+81-575-24-2521
U R L	http://www.cna.ac.jp
E-mait	goto@cna.ac.jp
Found	1970
Representative	Koji Ando
Capital	
Sales	
Employees	
M a j o r Customers	



MEIRA Corporation

13

Dutline Business

Precision threaded parts and Cold foging parts for automobile, Fasteners, Mahining parts and Rod assembly for aerospace, orthopedic implants and instrumens.

Our Strength

Product and Service Features

Meira supplies materials, and offers one-stop manufacturing and quality assurance which covers machining, heat treatment, non-destructive inspection, surface treatment, coating/painting, and assembly.

©SPECIAL PROCESS

Meira is NADCAP-certified in heat treatment, surface treatment, non-destructive inspections, and shot peening.



(Seki Flant)



[Seki 2nd Plant]



[Seki 3rd Plant]

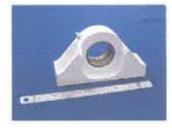


[Seki 4th Plant]













Adress	17-15,Tsubaki-cho,Nakamura-ku,Nagoya city. Alchi prefecture, 453-0015 Japan [Seki Plant] 81-1 Shinhazama, Seki-City, Gife-Prefecture, 501-3923 Japan
Те	+81-52-459-1276
URL	http://www.meira.co.jp
E-mail	miyashita@meira.co.jp
Found	1932/6/1
Representative	Makoto Ohashi, Representative Director President
Capital	JPY 330 million
Sales	JPY 23,146 million
Employees	681
M a j o r Customers	JDA / MHI / KHI / FHI / IHI / ShinMaywa / Nippi / JAMCO / Shimazu / Nabtesco / KYB / NEC / Mitsubishi Electric Corp etc.



Kawasaki Gifu Co-operative Society

14

Outline Business

- •We are a business co-operative society established in accordance with the Small Medium-Sized Enterprise Cooperatives Act, handling the operation of finance, training, personnel management, health and welfare for our members.
- •We are a key supplier group of Kawasaki Heavy Industries (KHI) and receive orders from domestic and overseas customers mostly through KHI.

Our Strength

Contract manufacturers for Kawasaki Heavy Industries, Ltd. Gifu Plant founded the association in 1951. Since then, we have been tackling new possibilities for the aerospace industry by taking advantage of the organizational strength.

We are ready for the system of "Integrated Production" which performs a sequence of the manufacturing process from the parts manufacturing to the surface treatment and the assembly by the contract manufacturers.

We are also ready to receive an order for parts and assemblies by collaborating with clusters in other regions in the future.





Adress	1-17-1 Koa-cho Sohara Kakamigahara city, Gifu prefecture, 504-0814 Japan
T e I	+81-58-382-2175
U R	
E-mail	
Found	Dec. 8, 1951
Representative	Norio Fukunishi
Capital	JPY 50 million
Sales	JPY 19.8 billion
Employees	8
M a j o r Customers	Kawasaki Heavy Industries, LTD. / NIPPI Corporation Other





TENRYU AERO COMPONENT CO., LTD.

15

Outline Business

- Aircraft parts manufacture (sheet metal parts and composite parts)
- Airframe assembly
- Design / development and manufacturing of aircraft components (various types of seats, containers and racks)

Our Strength

We can perform the planning of the process and the tool fabrication by receiving the drawing and the specification from the customer and it makes us possible to complete the production process from the part manufacturing (forming press and special process) to the assembly without outsourcing.

In addition, as for the special process (surface treatment, heat treatment and painting) on the parts manufacturing, we have increased the capability of our facilities and established the system of integrated production among the local manufacturers and are ready to receive an order from domestic manufacturers, which are existing business partners, as well as overseas manufacturers.

[Main facilities]

Autoclave 2

Seat Impact Test Machine

Heat Treat Furnace 2

Surface Treatment Facility

Painting Equipment





Adr#ss	1-1 Sohara, Koa-cho Kakamigahara city, Gifu prefecture, 504-0814 Japan
T e l	+81-58-382-6431 (The main number)
URL	http://www.tenryu-aero.co.jp/
É-mail	
Found	October 1st 2009
Representative	A representative director: Makoto Fukunishi
Capital	JPY 95 million
Sales	JPY 4,271 million (Year 2014)
Employees	391 employees
M a j o r Customers	Kawasaki Heavy Industries, Ltd. / Mitsubishi Heavy Industries, Ltd. / Shinmeiwa Industries, Ltd. / Honda Aircraft Company, LLC.



Kawasaki Heavy Industries, Ltd.

Aerospace Company

16

Outline Business

The Gifu plant of Kawasaki Heavy Industries, Ltd. is an integrated aerospace-hardware factory, developing, manufacturing, and repairing aerospace-related products including large and small sized aircrafts, helicopters, and guided weapon systems.

Our Strength

We provide innovative products and services that can meet a wide variety of needs all over the world by utilizing integrated high technologies in the fields of Mobility Systems (rail-marine-air) ", Energy", and Industrial Equipment". At the same time, we are striving to contribute to a society with a green vision.



Adress	1 kawasaki-cho, kakamigahara city. Gifu prefecture, 504-8710 Japan
T e	058-382-5712
U R L	https://www.khi.co.jp/
E-mail	tougo_t@khi.co.jp
Found	1896
Representative	Yoshinori Kanehana President
Capital	JPY 104,484 million
Sales	JPY 1,486,123 million
Employees	35,471
Major	Municipality / Ministry of Defense / JAXA / BOEING / EMBRAER /
Customers	AHD

Outline Business

- •Manufacture of aerospace-related components and design, produce, fixtures for machining.
- Develop, design, manufacturer and provide machine protection products.
- Research, develop, manufacture and provide environment-related projects and products.

- •We stand out amongst our competitors by specializing in many state of the art double column machining centers and large sized 3-axis and 5-axis machines.
- •We currently have a sufficient number of skilled NC programmers and can react quickly to increase CAD/CAM (Catia) systems when necessary.
- Due to our 60 years of accumulated experience in the aerospace industries, our excellent technology to perform highly difficult precision manufacturing and quality assurance systems are highly appreciated by leading heavy industries.
- •We develop our own machine protection products including (chip conveyors and telescopic way covers) which lead the market with a share of over 30% in Japan.
- @We locate in Kakamigahara, Gifu which is a major aerospace industry center in the Tokai district.





Adress	5-10.Soharakoamachi,Kakamigahara city, Gifu prefecture, 504-8551 Japan
T e l	+81-58-389-7433
U A L	http://www.enomotoweb.com
E-mail	e.hr@enomotoweb.com
Found	August 1951
Representative	Naohiro Enomoto
Capital	JPY 10 million
Sales	JPY 5,607 million
Employees	323
M a j o r Customers	Kawasaki Heavy Industries, Ltd. / Mitsubishi Heavy Industries. Ltd.



lwado Industry Co., Ltd.

Dutline Business

- Assembling airframes
- Repairing and renovating buses
- Manufacturing metal sheet components for buses and machine tools
- <Aircraft products>
 - ·B787 pressure deck
 - ·B777 large cargo door
 - ·B767 large cargo door
 - ·C-2 ·P-1 ·F-2 ·CH-47 ·BK-117

Our Strength

Since 1966, we have provided a high technology of assembling airframes.

Our technology meets the demand for strict standards and high quality to assure safety.



4 axis CNC machine







Adress	2-10 Unuma, kawasaki-cho.Kakamigahara city, Gifu prefecture, 509-0147 Japan
Т е	+81-58-383-8111
U R L	http://www.iwado.co.jp
E-mail	kikaku@iwado.co.jp
Found	July 1957
Representative	Representative Director Makoto Inou
Capital	JPY 45 million
Sales	JPY 2,040 million (Aircraft: JPY 1,270 million, Other: JPY 770 million)
Employees	213 people (Aircraft:142people, Other:71 people)
M a j o r Customers	Kawasaki Heavy Industries, Ltd. Aerospace company







Outline Business

Our contribution to aerospace industry, starting with antirust packaging of valuable aircraft components and

Refurbishment of aero-engine parts, have expanded to include airframe assembly, repair, and its painting.

We also have been providing contract machining service specializing in aero-engine components machined by Electrochemical machining centers (ECM), and heavy-duty containers for transportation and storage of delicate and precision aerospace components and equipment.

Our Strength

⊕ECM

The hardest heat-resistant alloys are machined electrolytically to castings, blades, disks and other aero-engine components through ECM process, which are provided to domestic and foreign aero-engine manufacturers. ECM best suits the need for the mass production of complex shapes that are too difficult or time consuming for traditional machining process. We also design and develop ECM to meet the specific needs of our customers.

Containers for aerospace equipment

Heavy duty containers protect valuable or sensitive equipment against impact and damage during transportation and storage. Based on the accumulated data we have acquired for many years we design and build high performance containers specially used for aerospace and satellite applications.





Adress	4-26 Unumaasahi-machi, Unuma, Kakamigahara city, Gifu prefecture, 509-0145 Japan
T e T	+81-58-370-5711
U A L	http://www.apc-aero.co.jp/
E-mail	t1sales@apc-aero.co.jp
Found	December 1957
Representative	Ichirou Yamashita
Capital	JPY 210 million
Sales	JPY 5.2 billion
Employees	436
M a j o r Customers	Ministry of Defense / Kawasaki Heavy Industries, Ltd. / Fuji Heavy Industries, Ltd. / IHI Corporation / Mitsubishi Heavy Industries, Ltd.



Kakamigahara Aero Equipment Co., Ltd.

Outline Business

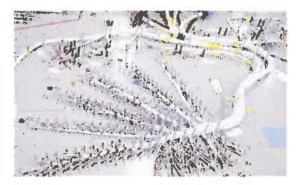
- Manufacture of wiring harnesses for aircraft, helicopters and missiles
- Manufacture of extremely high-quality wiring harnesses
- Wiring harness build-up for quick installation on aircraft
- Design and manufacture of ground support equipment

- Based on our technical skills outlined below, we strive to meet customers' needs with excellent technologies and reliability.
- Production of wiring harnesses with superior protection against the environment and electromagnetic interference
- Production at low cost with short delivery time based on high reliability and technologies









3-6 Sohara Koua-machi Kakamigahara city, Gifu, 504-0814 Japan
only e-mail
http://www.kae-gifu.co.jp
k.kiyama@kae-gifu.co.jp
April 18, 1968
Shigeaki Hashimoto, President
USD 84,000
USD 9,834,000
150
Kawasaki Heavy Industries / Mitsubishi Heavy Industries / Fuji Heavy Industries / Nippi Corporation"





Ohori Grinding Co., Ltd.

Outline Business

We serve as your partner for grinding in production development, and offer ideal processing and grinding solutions

- 1, Grinding processing by expert craftsmen.
- 2, Measurement of product with multiple inspection facilities.
- 3, Various products(air-plane actuators, bearings, measurement devices, gauges, main spindles of industrial machines.)
- 4, Materials and manufacturing (Fe,SUS,AL,Ti,FC,CFRP,Cu,Inconel,etc),(From 1 to 100 pieces)



Adress	1-9 Terajima-cho,Sohara,Kakamigahara city,Gifu prefecture. 504-0842 Japan
T e	+81-58-389-1811
URL	http://www.chorikenma.co.jp
E-mail	ohorikenma@sky.plala.or.jp
Found	1968
Representative	Ken Ohori
Capital	USD 66,000 (1 $\$$ = $\$120$)
Sales	USD 4,200,000
Employees	50
M a j o r Customers	KHI / Meira / Asahi Kinzoku Kogyo Inc.



VR Techno Center Inc.

22

Outline Business

- Human resource development: nurturing aircraft engineers, conducting a 3D CAD training course for young engineers in relevant industries, and holding a skill-up training seminar for job applicants
- Planning and development: RT robot development, system development with image recognition technology, and development of mobile inspection support systems, etc.
- Local informatization development projects: setting-up, operation, and maintaining relevant providers and network systems with the aim of reducing regional disparity
- Tenant projects: handling tenant relations, *We have 33 tenants in total.

- As one of the core facilities in the region, we are conducting product development and research activities through collaboration between the governmental, industrial and academic sectors. Our activities aim to advance the industry by applying VR robot technologies.
- We also focus on relevant projects for human resource development in the aviation industry. With this background, we will continue to conduct training programs; 3D CAD programs to meet the needs for the local engineers, and skill-up seminars with the aim of creating jobs etc. We also handle research and development relations of VR robot products in collaboration with local aircraft enterprises, and then engage in technology transfers to the private sector. We are striving to develop the local industry and create job opportunities by completing a wide variety of projects with the wireless automatic identification device used for the D-NET 2 systems that JAXA has been developing.





Adress	1-1 Technoplaza, Kakamigahara city, Gifu prefecture, 509-0109 Japan
T e l	+81-58-379-2277
URL	http://www.vrtc.co.jp/
E-mail	webmaster@vrtc.co.jp
Found	1993
Representative	Representative director Naomi Sera
Capital	JPY 2.3 billion
Sales	JPY 383 million
Employees	23
M a j o r Customers	Gifu Prefecture / JAXA / Ministry of Economy Trade and Industry / Municipality

wako co., Ltd.

Outline Business

(aerospace)
manufacturing of sheet metal parts,
sub-assembled parts, tooling
(rolling stock)
manufacturing of sheet metal component,
sheet metal air duct, roof etc.

Our Strength

sheet metal trimming, bending, stamping, machining welding (for tooling and rollingstock component)









Adress	2-33 Technoplaza, Kakamigahara city, Gifu prefecture, 509-0109 Japan
T e I	+81-58-322-3135
URL	http://www.wako-gifu.co.jp/
E-mail	a-hashimoto@wako-gifu.co.jp
Found	1972
Representative	Yasuyo Hashimoto
Capital	JPY 10 million
Sales	JPY 700 million
Employees	73
M a j o r Customers	Kawasaki Heavy Industries Aerospace Company / Kawasaki Heavy Industries Rollingstock Company KGM, KGE / J-TREC (Japan transport engineering company) / NARITA MFG

Kato Manufacturing Co., Ltd

Outline Business

We construct machines for the manufacture of aerospace components and design and manufacture jigs.

We are a company specialized in the field of aerospace machinery.

We are siming to achieve maximum efficiency in production for all sizes of order and item, through the introduction of a 5-axis machining centre and an emphasis on our flexible manufacturing system. Additionally, in April 2015 we entered into an aviation components' manufacturers' association. Through consolidating all production processes with corporations within the association producing small to medium parts for civil aviation, such as Boeing US and MRJ, we are also aiming reduce cost and time until delivery, creating a more competitive production chain for our products.

Occupying a unique position within the domestic market for aviation components, we are working towards a corporate structure that can handle a large number of orders from both international and domestic airplane manufacturers.





Adress	82-20.5-Chome Kakamihigashi-machi Kakamigahara City Gifu prefecture, 509-0103 Japan
T e I	+81-58-379-0111
URL	http://www.katoseisakusho.co.jp/
E-mail	maeda-t@katoseisakusho.co.jp
Found	04/1947
Representative	CEO Takashi Kato
Capital	JPY 10 milion
Sales	
Employees	117
M a j o r Customers	Mitsubishi Heavy Industries,Ltd. / Kawasaki Heavy Indudtries,Ltd





Aoi Koki CO., LTD

25

Outline Business

- Sheet-metal processing of Alminum Plate
- Processing of the Alminum Plate by machining Center
- Cutting processing by Waterjet

Our Strength

- [Check and Straight]
 - We've been working to rely on feeling transmitted to the hand since its founding. We are a professional group of craftsman of the Alminum sheet metal.
- •We have two Waterjet machine which does not matter of material and provide CFRP which is hard to process, metal stuff, Glass stuff, Rubber product with high quality, Qick delivery and Low price!
- TRY FIRST!

We committed to work always in the spilit of challenge and offer a proposal that would lead to customer-satisfaction.





Adress	566-2 Ohari Sakahogi Cho Kamo Gifu, 505-0072 Japan
T e l	+81-574-25-7089
URL	http://aoikoki.co.jp
E-mail	info@aoikoki.co.jp
Found	25.Dec.1980
Representative	Satoshi Nodo
Capital	JPY 10 million
Sales	JPY 18.6 million
Employees	27
M a j o r Customers	Tenryu Aero Component Co.,LTD / Kaiko Sangyo Co.,LTD



MEIHOKU KOGYO CO., LTD.

26

Outline Business

Our company produces and sells steel wire for use in automobile parts and cold heading. We mainly deal in materials that become important parts of safety equipment in automobile engine movements and rotations.

Using a manufacturing process consisting of heat treatment, pickling & coating and a drawing process, the company has been manufacturing wire aimed at use in aviation fasteners (nuts and bolts), circular rods, square rods and hexagonal rods for the last five years. Recently we have also begun to trade in PH stainless steel and from August have begun production of cut steel rods.

Our Strength

We can import the appropriate materials from overseas, and cut them to our customers' specifications.

We have PH stainless steel (15-5PH, 17-4PH) of 30 size.

We are able to provide items with a diameter of between 5mm and 70mm.

We are able to deliver within 1-2 months of receiving an order because we hold stock in our warehouses.

In addition we have acquired the JISQ9100, essential to the aerospace industry, and were recently awarded the Deming prize to recognize our success in quality control.

As a member of the Kobe Steel Group we are also able to receive support with regards to titanium and aluminum.

We are applying the same level of quality control that we cultivated in the automobile industry to the aerospace industry.





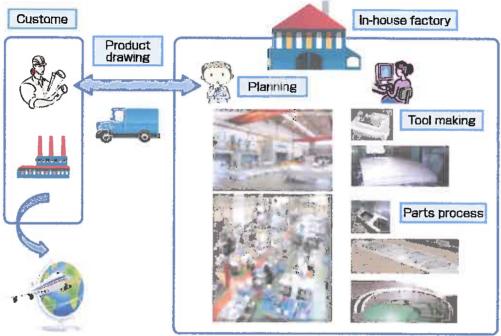
Adress	1-8-1, Hachiyadai, minokamo city, Gifu prefecture, 505-0039 Japan
T e	+81-574-24-0622
URL	http://www.meihoku-kogyo.co.jp/
E-mail	hi.hayashi@meihoku-kogyo.co.jp
Found	1947
Representative	Yasukazu Fukunishi
Capital	JPY 60 million
Sales	JPY 14.3 billion
Employees	171
M a j o r Customers	MEIDO / MEIRA / OWARISEIKI / TERAUCHISEISAKUSYO / MINEBEA

Outline Business

- 1. Sheet metal parts for Aircraft and other parts processed by machine.
- 2.Stamping Dies (ZAS, FC, Steel) for Aircraft.
- 3.Stamping Dies (ZAS, FC, Steel) for Prototype and Mass production.
- 4. Plastic injection molds (ZAS, FC, Steel) for Prototype and Mass production.
- 5. Stamping parts, Assemblies of sheet metal parts, Body assembly (BIW).
- 6.Plastic injection parts government aerospace nationwide.

Our Strength

We will meet customer's needs with our consistent production system and deliver the expected products.



We will meet customer's needs with our consistent production system and deliver the expected products.

Adress	4-1-5 Himegaoka Kani-shi, Gifu-prefecture, 509-0249 Japan
T a I	+81-574-60-1500
URL	
E-mail	y-kaba@tobakoken.co.jp
Found	1958/9/1
Representative	Shigeo Sobajima
Capital	JPY 90 million
Sales	JPY 9 billion (Year of 2014)
Employees	420
M a j o r Customers	KHI / MHI / FHI / NIPPI / Domestic and abroad automobile company



KOSAKA IRON WORKS CO., LTD.

Outline Business

- Manufacture airplane's precision parts.
- Mass-production of turbine blades grinding mounted on the aircraft engine.
- Machining rocket engine parts.
- Manufacture prototype developed products for rockets.

- @We specialize in machining small precision parts. The parts sizes are about a fingernail to hand size, and the cutting has wide variety.
- We will deal with any urgent order.
- We will challenge any project using the technology we've grown from 1958.









Adress	4-26 Kaname-cho, Minami-ku,Nagoya city,Aichi prefecture, 457- 0802 JAPAN [Mitake factory] 2188-62 Minamiyama,Mitake,Mitake-cho,Kani- gun,Gifu 505-0116 Japan
T e l	+81-574-67-1908
URL	http://www.kosakaiw.com/
E-mail	kosakaco@poplar.ocn.ne.jp
Found	May 1958
Representative	CEO Hirotaka Kosaka
Capital	JPY 20 million
Sales	JPY 1.1 billion (2015)
Employees	95
Major Customers	Mitsubishi Heavy Industries,Ltd. and more.



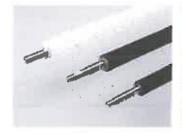
Tsuchiya TSCO Co., Ltd.

Outline Business

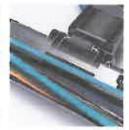
We provide precision pile products for copiers & printers, vehicles, houses & buildings, aircraft etc. by high processing technology and our original materials. The examples of our products are airtight for aluminum sashes, brush for copier & printers, static brush, cleaning brush for vacuum cleaner, vehicle door airtight, and airtight for cooling box of airplane.

Our Strength

We are developing new products by the close cooperation with customer, so we can provide the products that meet their advanced requirement. Including conductive fiber, we are developing many original functional materials in cooperation with the specialty material manufacturers. The textile product has the image as an old technology, but we can supply highly precise products as the industrial function parts. In the field of airplane, we are developing the parts that fit severe nonflammable standard.















Adress	43-1, Ura-Jinkiri, Ushita-Cho, Ciryu-City, Aichi-Prefecture, 472-0007 Japan [MITAKE PLANT] 2188-58 Aza Minamiyama, Mitake-cho, Kani-gun, Gifu prefecture, 505-0116 Japan
T e I	+81-566-82-831
URL	http://www.tsuchiya-group.co.jp/tsco/en/index.php
E-mail	tsco-info@tsuchiya-group.co.jp
Found	1970
Representative	Yasuyuki Ohara
Capital	JPY 125million
Sales	
Employees	233
M a i o r Customers	LIXIL / YKKap / Canon / Ricoh / dyson / Kawasaki / JAMCO

MIZUNAMI SEIKI CO., LTD.

Outline Business

Aircraft components: Machining and Assembling Home Use Sewing Machines: Developing and Assembling Industrial Sewing Machines: Machining and Assembling Automotive parts: Machining and Assembling.

Our Strength

Aircraft components

We have over 50 years of machining achievement. We can make delivery time shorter as Jigs used are self-designed and produced. Also, every single assembled parts are done by our certificated stuff with high skills of craftsmanship.

Apparel Machinery

These are our inception business, we are mainly manufactures home-use, and industrial use sewing machines now a days. Especially Home-use sewing machines are developed by our self. To achieve low cost products, we manufacture and procure parts at overseas plant.

Automotive parts

We've been producing critical Item over 50 years without serious complaints. The concept of Just In Time" parts supply for auto parts are introduced to aircraft machining lines to improve productions.



Head office factory (Production for aircraft component)



Oversea factory (Taiwan)



Domestic sewing machine (Overlock sewing machine)

Adress	1040, Terakawado-cho, Mizunami city, Gifu prefecture, 509-6121 Japan
T e I	+81-572-68-2101
U A L	http://www.mizunami-seiki.co.jp
E-mail	info@mizunami-seiki.co.jp
Found	1951
Representative	President & CEO Kazutada Miyai
Capital	JPY 72,86 million
Sales	JPY 2.7 billion
Employees	130
M a j o r Customers	Mitsubishi Heavy Industries, LTD. / Brother Industries, LTD. / Mitsubishi Motors Corporation



Outline Business

Manufacture of aircraft parts, medical equipment parts and precision equipment parts.

Our Strength

We are good for the precision machining of any kind of high quality small quantity product. And we can metalworking in any process at aluminum, steel, stainless and sand casting parts.

- 1) milling
- 2) lathing
- 3) cutting

and more.

5 axis machining and composite lathe use to milling/lathing the metal. In measuring use a three dimensional measuring machine.





Adress	1878 Kamiyahagi-cho, Ena city, Gifu prefecture , 509-7506 Japan
T e l	+81-573-47-2856
U R L	http://www.fujiwa-t.co.jp/
E-mail	ito.t@fujiwatecnos.com
Found	28-Nov-97
Representative	Akinari Ita
Capital	JPY 7 million
Sales	JPY 100 million
Employees	13
M a j o r Customers	Enakiki Co., Ltd. / Aichi tokei denki Co., Ltd. / Komori gokin, Ltd.



KATO MFG CO., LTD.

Outline Business

We fabricate items related to the aircraft and automotive industries; solar panel systems; ventillation machinery; housebuilding soundproofing and sundry other products.

- 1. Established in 1888 and faithfully serving our clients needs for 128 years to the current time.
- 2. We are in lida Aerospace Project company member.
- 3. We have extensive experience in serving the aircraft and automotive industries providing high quality products at competitive prices and to strict deadlines, in recent years, we have had a growing involvement with the aircraft manufacturing industry achieving JISQ9100(ISO9001) certification. We have widespread OEM experience and expertise in welding, metal forming, sheet metal pressing and general fabrication.
- 4. Our hydraulic presses can be adapted to complex and deep forms or shapes. Therefore we can make a large variety of shaped products in various sizes in large or small quantities. Not only are we proud of our products finish, final appearance and the precision of our work, we are able to minimise the number of operation involved in the process and thereby reduce costs and time of delivery.
- 5. We advise our clients about the cost and value of a product according to VA and VE analysis when discussing their needs, 20% savings can be achieved by choosing a hydraulic press process over a 'cut and grind" process.
- 6. We are able to provide inventory and dispatch management services.
- 7. Our company is staffed by emplyees from a mature demographic with experience, expertise and this enables us to maintain high quality products and services at competitive prices in international market place whilst serving the social needs of our local Japanese community.





Adress	447-5 Komanba, Nakatsugawa city. Gifu prefecture, 508-0011 Japan
T e l	+81-573-65-4175
URL	http://www.katog.co.jp/en
E-mail	kkato@katog.co.jp
Found	1954
Representative	Keiji Kato, Representative director / President
Capital	JPY 20 million
Sales	JPY 1,361 million
Employees	105
M a j o r Customers	MITSUBISHI HEAVY INDUSTRIES, LTD. / Mitsubishi Motors Corporation / Mitsubishi Electric Corporation Nagoya Works, Nakatsugawa Works / TOYOSETCO.,LTD / GAC CORPOLATION/NGK INSULATORS / LIXIL,LTD.