

THE HEART OF JAPANESE AEROSPACE





AICHI-NAGOYA AEROSPACE CONSORTIUM

ANAC strives for comprehensive development of the aerospace industry in Aichi Prefecture via collaboration by all sectors of the aerospace industry, such as The Aichi Prefectural Government, The City of Nagoya, local government organizations, support organizations, industry organizations and universities. Our consortium promotes the aerospace industry through various activities, such as forums, networking events, exhibiting, matchmaking, human resource development, consulting programs by various experts and support for R&D. We serve as a bridge to facilitate international business relations by collaborating with foreign government organizations and aerospace specific clusters. ANAC strives to bring together the capabilities of Aichi with the global community to create a brighter future for Aerospace.

THE HEART OF JAPANESE AEROSPACE

Aichi Prefecture is located in the central part of Japan, with a population of 7.5M centered around Nagoya City. The area boasts a GDP of 290B \$, which is an economic scale equivalent to several countries in the world. Aichi Prefecture is the No.1 aerospace industrial region in Japan where the development and production of fuselage and wings of Boeing passenger jets, aircraft engines and Japanese flagship rockets, etc. are actively carried out. In addition, some companies including startups are working on the development of next-generation air mobility technologies such as eVTOL and suborbital spaceplane.

Furthermore, Aichi Prefecture is one of the world's leading industrial manufacturing regions where various industries thrive. Many global manufacturers in automotive and machine tooling such as Toyota Motor Corporation, DENSO, AISIN, OKUMA, DMG MORI and Mazak are headquartered in Aichi Prefecture.



















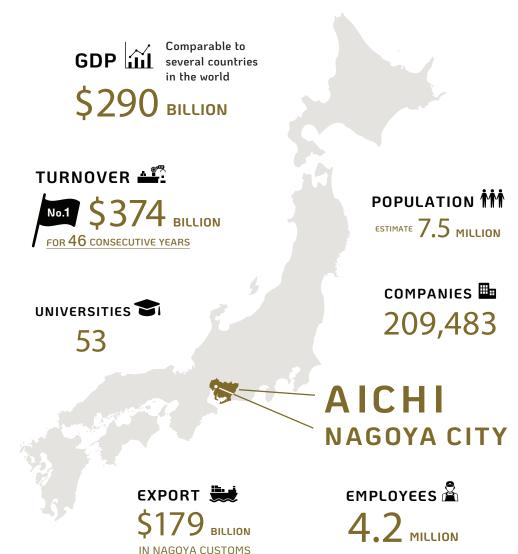








OVERVIEW



TURNOVER OF MAIN INDUSTRIES

AUTOMOTIVE

TOYOTA
DENSO
AISIN
MITSUBISHI MOTORS



\$193 BILLION

MATERIAL



METAL RUBBER PLASTIC



\$38.2 BILLION

PRODUCTION MACHINERY/POROTICS



YAMAZAKI MAZAK OKUMA DMG MORI JTEKT



\$17.3 BILLION

AEROSPACE

Aerospace Industry in the Chubu Area centered on Aichi Prefecture

34.6%

TURNOVER

DOMESTIC SHARE OF TURNOVER

B787

almost 35% of B787 body parts

\$3.2 BILLION

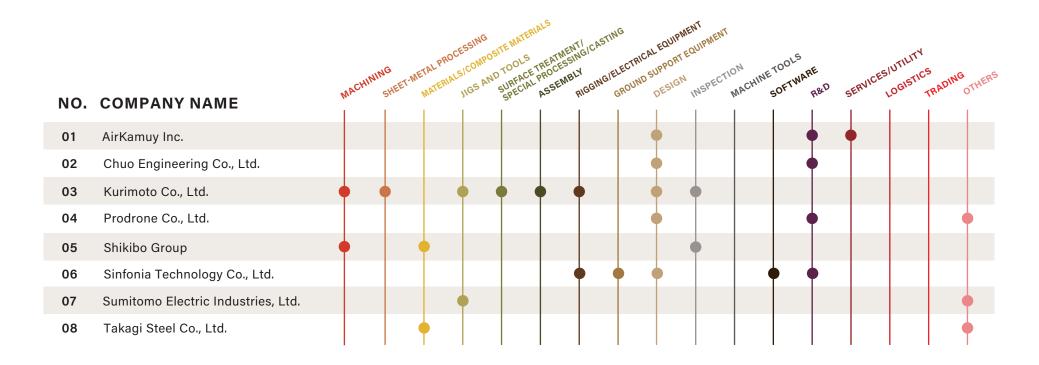
EMPLOYEES

176

COMPANIES

\$9,706

MAJOR AEROSPACE ENTERPRISES



AIRKAMUY INC. WE Air Hamuy

Address	2-1307 Uedanishi, Tempaku-ku, Nagoya, Aichi JAPAN
Tel	+81-52-385-3471
Email	pr@airkamuy.com
Website	https://airkamuy.com
Contact Person	Takumi Yamaguchi
Capability Category	UAV
Representative	Takumi Yamaguchi
Capital	42,010,000 yen
Employees	12
Established	August 19, 2022

■ BUSINESS OVERVIEW

AirKamuy Inc. is a startup specializing in the development of fixed-wing unmanned aerial vehicles (UAVs).

We develop wide-area unmanned solutions as a response to Japan's pressing security challenges and labor shortages.

Our development approach is characterized by the flexibility and agility unique to startups. We offer a range of dual-use technologies, including an in-flight wing-folding system to make it small for taking off and landing area and cost-effective cardboard drones made primarily from corrugated cardboard.





■ PRODUCTS/MATERIALS/PART SIZE/FACILITIES & EQUIPMENT

The " Σ -1": A fixed-wing VTOL UAV capable of flying up to 6 hours

The "AirKamuy 150": A fixed-wing cardboard drone capable of flying 150 km at an exceptionally low cost

■ OUR STRENGTH

- Design and manufacturing of fixed-wing unmanned aerial vehicles (UAVs)
- UAV control systems and operations
- Test flights and demonstration trials for UAVs
- Realistic C-UAS testing, training, and evaluation using low-cost, expendable UAVs.

■ NEEDS WE CAN CORRESPOND/BUSINESS PARTNERS WE WANT

We offer end-to-end support from the design to prototyping of long-range, long-endurance fixed-wing unmanned aerial vehicles (UAVs). We are also available for joint development of key technologies or partial development contracts.

Additionally, we provide testing and evaluation services for onboard equipment using costeffective fixed-wing UAVs, as well as validation support for counter-drone systems.







CHUO ENGINEERING (CHUO





Address	Nitta Building, 1-17-23 Meieki-minami, Nakamura-ku, Nagoya, Aichi, 450-0003, Japan
Tel	+81-52-611-2919
Email	contact@chuo-eng.co.jp
Website	https://www.chuo-eng.co.jp/english/
Contact Person	Toru Shitani Operating Officer, General Manager of Aerospace Division
Capability Category	Aircraft Design Engineering Services (Structural Design & Analysis, Testing)Manufacturing Testing Equipment
Representative	Yutaka Ishida, CEO & President
Sales Amount	5.7 billion yen (as of the end of March, 2024)
Capital	116 million yen (capital reserve is included)
Employees	551
Established	September 1995
Certification	JIS Q9100, ISO9001
Major Customers	MHI group, KHI group, IHI group, JAXA, SUBARU, HONDA group, Airbus Helicopters Japan

■ BUSINESS OVERVIEW

Our business is focused primarily on the design and analysis of Aircraft, Rocket and Aerospace Equipment. Especially Analysis and Additive Manufacturing Solution field, our technicians meet your demand with rich experience and skills. We also provide the design and manufacture of Test Equipment.

■ PRODUCTS/MATERIALS/PART SIZE/FACILITIES & EOUIPMENT

· Product & Services

Design Engineering: Structure, Equipment and Jigs

Analysis Engineering: Strength Analysis, Vibration Analysis,

Motion Analysis, Thermal Analysis, Fluid Analysis and Optimization

Software Sales: HyperX R&D: Test Equipment

Additive Manufacturing: Design for Additive Manufacturing,

Manufacturing Prototype, Machining, and Evaluation

· Design Tools

CAD: CATIA V4 V5, CREO, Unigraphics NX-2, Solid Works, AUTO CAD, MICRO CAD Analysis: HyperX, Abaqus, Nastran, HyperWorks, Apex, Patran, Femap, ADAMS, Marc,

Fluent, NASGRO

· Additive Manufacturing Facilities (Partner Company)

3D Printer: EOS M290, M400-4 (250mm×250mm×325mm, 400mm×400mm)

■ OUR STRENGTH

- We are the only design company in Japan that is strong in the field of aircraft structural design analysis and is capable of high-speed structural sizing using HyperX. Sizing more than 10 times faster than conventional methods can significantly reduce costs and schedules.
- We are strong in Additive Manufacturing Engineering. We can support the whole process from selection of parts suitable for Additive Manufacturing to design proposal of new shape using topology optimization, and prototype manufacturing and evaluation.















Conventional Product Topology Optimization DfAM (Design for AM) From Topology Optimization & DfAM to AM Production

■ NEEDS WE CAN CORRESPOND/BUSINESS PARTNERS WE WANT

- · Customers who want Design and Analysis for Aerospace Vehicle.
- · Customers who want Aerostructure Stress Sizing.
- · Customers who want Additive Manufacturing Engineering Solutions.
- · Customers who want Design and Manufacture prototype by Additive Manufacturing.

■ OFFICE & PLANTS

- · Head Office (Tokyo)
- · Office (Yokohama, Nagoya, Komaki, Fukuoka, U.S.A.)
- · R&D Center (Komaki)

KURIMOTO CO., LTD. KURIMOTO

Address	6 Terada, Kitajima, Iwakura, Aichi 482-0017, Japan
Tel	+81-587-66-8801
Email	y.kato@kmkogyo.co.jp
Website	http://www.kmkogyo.co.jp/corporate/index.html
Contact Person	Yoshiharu Kato, Corporate Officer/Sales Department General Manager
Capability Category	Automotive parts, aircraft parts, robot, energy, housing equipment, etc.
	Metal parts (AM, precision cutting, sheet metal press, etc.)
	Resin parts (AM, cutting, casting, molds, etc.)
Representative	Hidetoshi Kurimoto, Representative Director and President
Sales Amount	3,200,000,000 yen
Capital	84,570,000 yen
Employees	161 (as of April 2025)
Established	September 1990
Certification	ISO9001 / ISO14001 / JISQ9100
Group Name	ONTEC CO.,LTD. / SANRITSU CO.,LTD.
Major Customers	Automobile manufacturers, Parts manufacturers,
	Aircraft parts manufacturers

■ OFFICE & PLANTS

Sales offices (Utsunomiya / Yokohama / Hamamatsu / Hiroshima)



■ BUSINESS OVERVIEW

Kurimoto Co., Ltd. Head quoter is in Iwakura City, Aichi. Since our founding, we have been investing in the latest equipment and improving our technical capabilities.

As a result, we are able to produce prototypes and mass-produced products with high quality, short delivery times, and low cost.

Recently, we have installed several of the latest 3D printers. In addition to manufacturing, we also sell 3D printer equipment.

■ PRODUCTS/MATERIALS/PART SIZE/FACILITIES & EQUIPMENT

· 3D Printer: 24 machines

SLS: 13machines (Stratasys, 3Dsystems, EOS)

SLA: 9machines (Stratasys, Carbon, D-MEC, CMET, 3DSystems)

FDM: 2machines (Stratasys)

- Metal 3D printer: 3 units (GF Machining Solutions / DMP Flex 350 / DMP Factory 500)
- Machining Center: 40machines (Mold production, resin, Metal Cutting)
- Spot welding line (D37m×W4m×H4m)
- Fiber laser welding (TRUMPF Tru Disk 3001)
- Laser cut (Mitsubishi Electric ML3015GX-F60)
- 3D Scanner: 2 machines (GOM ATOS II Triple Scan, Vectron VMC7000MApi)
- CT Scanner: 2 machines (Nikon MCT 225, XTH 450)
- Combined environmental tester: 2 machines (EMIC FH-40K/60)





■ OUR STRENGTH

- · Multiple units of 3-axis and 5-axis metal processing machines
- 3 metal 3D printers (500×500×500mm: 1 unit / 275×275×420mm: 2 unit)
- Multiple measuring instruments (contact type, non-destructive)
- Kurimoto manufactures parts with an integrated system that can handle from mold manufacturing to parts manufacturing.

This makes it possible to produce a wide variety of products in small quantities.

■ NEEDS WE CAN CORRESPOND/BUSINESS PARTNERS WE WANT

- Various proposals using 3D printers.
- We are able to respond flexibly even with high-mix low-volume production, meeting customer needs. Application to final products, inspection jigs, processing jigs, masking jigs, anti-vibration jigs, etc.
- Resinification of metal parts (In-house support from molds to molding is possible)
- · Proposals centered on metal AM and precision cutting.

PRODRONE CO., LTD. PRODRONE



Address	1-115 Tenpaku Nagoya, Aichi
Tel	+81-70-8717-8646
Email	kawakami@prodrone.com
Website	https://www.prodrone.com/jp/
Contact Person	Aya kawakami
Representative	Shunsuke Toya
Sales Amount	550,000,000 yen
Capital	100,000,000 yen
Employees	60
Established	January 15, 2015
Certification	ISO9001
Major Customers	KDDI Smart Drone, Mitsubishi Heavy Industry



■ BUSINESS OVERVIEW

Prodrone is a world-leading developer and manufacturer of unmanned aerial vehicles (UAVs). The company's compact yet powerful professional UAVs include PDH-GS120, a single-rotor stable drone for long military/remote emergency missions, and PD6B-Type3, a heavy duty / delivery drone that especially porpose for emergency situation.

Boasting the innovation power represented by its 130 technology patents, Prodrone is constantly pushing the technological limits to rewrite the standards for the UAV industry. Based in Nagoya City in Japan, the company also provides an array of services, including custom-design and assembly, software development, and flight certification.

■ PRODUCTS/MATERIALS/PART SIZE/FACILITIES & EQUIPMENT

Inspection drone, CFRP, Prodrone GT-M, 120cm*30cm*40cm

■ OUR STRENGTH

drone customization, one-stop through design and manufacturing

■ NEEDS WE CAN CORRESPOND/BUSINESS PARTNERS WE WANT

Small inspections with drones

■ OFFICE & PLANTS

Nagoya, Aichi

SHIKIBO GROUP Shikibo

Address	378 Maehibochosakae Konan, Aichi 483-8341 JAPAN
Tel	+81-748-25-1734
Email	y-iwasaki@shikibo.co.jp
Website	https://www.shikibo.co.jp/
Contact Person	Iwasaki Yasuhiko
Capability Category	Producing of composite parts of aircraft including paint and NDT test
	Production of metal machining, composite parts and their assembly
	and NDT test for aerospace engine parts
	Studying of advanced composite and textile reinforcement
Representative	Shiriya Masahiro
Sales Amount	38,681,000,000 yen
Capital	11,820,000,000 yen
Employees	554 / 2198 (consolidated)
Established	August 5, 1892
Certification	JISQ9100, ISO9001,
	NAS410 (UT Level3, PT Level3)
	Nadcap (CP :unitl 2021, NDT :until 2022)
	PW (BTM7 Level3)
Major Customers	Mitsubishi Heavy Industries, Ltd., IHI Corporation

■ BUSINESS OVERVIEW

Shikibo is producing aerospace component for aircraft structure and engine parts. We are providing not only metal machining parts but also composite materials such as skin panel, honeycomb sandwich panel and resin potting.

Moreover, we have been developing textile reinforcement and their composite manufacturing process for next generation aerospace component.

■ PRODUCTS/MATERIALS/PART SIZE/FACILITIES & EQUIPMENT

Composite Materials (CFRP, GFRP...), Autoclave Curing(Φ3.2×9m), Resin Transfer Molding, Filament Winding, Pultrusion, Machining

Textile Reinforcements (3D, 2D, UD laminate)

■ OUR STRENGTH

- Shikibo has already installed production equipment for composite materials such as A/C curing process, RTM and others to provide aerospace parts. The improvement of process reduction method is also carrying out.
- Shikibo is developing tailored textile reinforcement and their composites that can be aligned ideal fiber distribution for next generation aircraft parts.

■ NEEDS WE CAN CORRESPOND/BUSINESS PARTNERS WE WANT

We are looking for the partner company that can develop new materials for aircraft parts by using our textile reinforcements at FRP and CMC.

■ OFFICE & PLANTS

Yokaichi Plant, Onomichi Plant, Nagano Plant

SINFONIA TECHNOLOGY CO., LTD. SINFONIA

Address	Meieki Daiya Meitetsu Bldg.,1-1-17, Meieki, Nishi-ku, Nagoya, Aichi 451-0045, JAPAN
Tel	+81-52-581-9726
Email	aero@sinfo-t.jp
Website	https://www.sinfo-t.jp/eng/index_a.htm
Contact Person	Tomohiro Fujinami, Aerospace Systems Sales Department
Capability Category	①Electrical Component for Aerospace
Representative	Shinichi Hirano
Sales Amount	¥102,657 million
Capital	¥10,156 million
Employees	3,700
Established	August, 1949
Certification	JIS Q 9100, ISO27001 : JIS Q 27001, ISO14001 : JIS Q 14001
Group Name	ICS Co., Ltd., SINFONIA ENGINEERING CO., LTD.
Major Customers	JMoD, MHI, KHI, IHI Aerospace

■ BUSINESS OVERVIEW

Sinfonia developed windmill-type generator for aircraft in 1929 and has been contributing to the aerospace industry for more than 100 years with motion control technology and small/light, high precision, environmentally resistant products. We have 100% share in JMoD domestic aircraft generator system. For Test Bench, in response to the trend of electrification of various types of mobility, Sinfonia supports advanced development by providing a large number of high-speed dynamometers, powertrain test equipment, and high-voltage battery simulators that utilize high-speed rotation, ultra-low inertia, and high-precision control technology. In particular, we have the No. 1 market share in Japan for dynamometers used to evaluate automobile traction motor.

■ PRODUCTS/MATERIALS/PART SIZE/FACILITIES & EQUIPMENT

High Power Density Motor for Electrified Aircraft Propulsion

Output:500kW Density:5kW/kg Torque:2,513Nm(@1,900rpm)

Input Voltage:750-100V

Large-capacity/Ultra-high-speed Dynamometer

Output:300kW Torque:500Nm Speed:25,000rpm Output:400kW Torque:700Nm Speed:20,000rpm

High-voltage/Large-current Battery Simulator

Output:700kW Input Voltage:1000V 1000A

Output:1050kW Input Voltage:1000V 1500A

Inverter Load Simulator

Up to 1200Hz, Up to 585Vrms, Up to 400Arms







High Power Density Motor





■ OUR STRENGTH

- · Provide custom designs according to each customer's needs
- · Propose as a system including controllers and software
- · Integrated production system from design, manufacturing, evaluation, to quality assurance.
- · Able to do environmental tests such as temperature, altitude, vibration, and EMI in-house

<Facilities>



EMI



Combined Environmental Test

■ NEEDS WE CAN CORRESPOND/BUSINESS PARTNERS WE WANT

Sinfonia would propose Electrical Components and Test Benches that evaluate high efficiency motors and inverters for next generation aircraft such as Electrified and Hydrogen Aircraft.

■ OFFICE & PLANTS

Headquarter: Tokyo

Office: Tokyo, Nagoya, Osaka

Plants: Toyohashi, Ise

SUMITOMO ELECTRIC INDUSTRIES, LTD.



Address	HQ : 4-5-33, Kitahama, Chuo-ku, Osaka, Japan BO : 6-1, Nagoya Lucent Tower 36F, Ushijima-cho, Nishi-ku, Nagoya-shi, Aichi, Japan
Tel	+49 2154 4992 0
Email	info@sumitomotool.com
Website	https://www.sumitomotool.com/en/
Contact Person	Keizo Tanaka
Capability Category	Development, manufacture and sales of cemented carbide, CBN and sintered diamond cutting tools
Representative	Osamu Inoue
Sales Amount	4,402,814 million yen
Capital	99,737 million yen
Employees	293,266
Established	April 1897
Certification	ISO9001, ISO14001
Group Name	Sumitomo Electric Hardmetal Corp. SUMITOMO ELECTRIC Hartmetall GmbH
Major Customers	Manufacturers of aircraft engines, fuselage, landing gear, bearings, fasteners, actuators, etc., automobile manufacturers, etc.

■ BUSINESS OVERVIEW

R&D, production, providing technical service of cutting tools (Carbide, CBN, Diamond). Developing of precious and high precision machining.

■ PRODUCTS/MATERIALS/PART SIZE/FACILITIES & EQUIPMENT

Turning, Milling, Drilling tools for Aerospace engine, fuselage, landing gear, bearing, fastener, actuator component made of Titanium, Nickel based alloy, Aluminum alloy, CFRP etc.

■ OUR STRENGTH

Innovative Technology Development

Sumitomo is at the forefront of technology, offering high-performance cemented carbide and unique super hard materials. In Europe, our European Design and Engineering Center specializes in developing best solutions and tools, custom-made in Germany to meet your specific needs.

Tailored Manufacturing Excellence

Sumitomo Electric Hardmetalfabrik GmbH as well as other plants in US, Japan and Asia excels in producing special tools with unmatched flexibility, speed, and precision. Our commitment to quality ensures that every tool meets the highest standards of accuracy.

Sustainable Regrinding Services

To promote environmental sustainability, we offer comprehensive regrinding services throughout plants, extending the life and performance of your tools.

■ NEEDS WE CAN CORRESPOND/BUSINESS PARTNERS WE WANT

Machining company for Jet engine, fuselage, landing gear, bearing, fastener, actuator, other Aerospace parts.

■ OFFICE & PLANTS

Sales Network

Japan (16 locations)

Germany, France, Italy, Poland, UK, Turkey, US, Canada, Mexico, Brazil, Thailand, Singapore, India, Indonesia, Philippins, Malaysia, Australia, Taiwan, China

Production Network

Japan(5 locations), Germany, Czech Republic, US, Thailand, Indonesia, China

Tool Engineering Center

Japan (6 locations), Germany, US, Thailand, Indonesia, India, China











Address	3-308 Fujimae Minato-ku Nagoya Aichi 455-0855, Japan
Tel	+81-52-301-1801
Email	t-takagi@takagi-steel.co.jp
Website	www.takagi-steel.co.jp
Contact Person	Tomohide Takagi, President and CEO Kazutaka Yamashita, Nagoya Sales Manager
Capability Category	Sales and distribution of materials for aircraft
Representative	Tomohide Takagi, President and CEO
Sales Amount	1,300 million yen
Capital	50 million yen
Employees	33 people
Established	April 8, 1955
Certification	JIS Q9100 (obtained in February 2022) ISO9001/14001 (obtained in January 2021)
Major Customers	AISIN SIN'EI Co., Ltd., DENSO Co., Ltd., AMANO Corporation, ALPHA Corporation, FDK Corporation, Konica Minolta, Inc., JTEKT Corporation, THK Co., Ltd., Tsukiboshi Manufacturing Co., Ltd., FUKUI BYORA Co., Ltd., NITTO KOGYO Corporation, Nitta Corporation, HAMANAKODENSO Co., Ltd., HAMANA PARTS INDUSTRY Co., Ltd., Hirose seikou Co., Ltd., NIPPON POP RIVETS AND FASTENERS Ltd., MIWA LOCK Co., Ltd., Musashi Seimitsu Industry Co. Ltd., MEIRA Corporation, UNICRAFT NAGURA Corporation, YKK Corporation

■ BUSINESS OVERVIEW

In the business area, we have partnership with over 200 companies in over 60 years for sales of materials mainly for special steels and tool steels. We have advantage that be able to do parts completion to one-stop by collaboration with partners and utilizing our own factory. In line with the acquisition of JIS Q9100 certification, we have established a specialized department "Aviation Group" across sales, management and warehouse. As a result, the quality inspection and control system for handling aircraft materials has been strengthened.

■ PRODUCTS/MATERIALS/PART SIZE/FACILITIES & EQUIPMENT

[Handling material]

Aircraft Materials: A286, 17-4PH, 17-7PH, 15-5PH, PH13-8Mo, Nimonic80A, Inconel 718, Waspaloy, PWA 92, Hastelloy, Ti6A4V, 17-22A, H-11, Greek-Ascoloy, 4130, 4140, 4330, 8740, A2017, A2024, A6061, A7075

Special steel materials: SKH51, SKH55, SKH57, HAP, YXR, DURO, SLD-i, SLD-MAGIC, SKD11, SKS, SK, DAC-MAGIC, SKD61, HPM, NAK, SUS, SC, SCM, SNCM [Major equipment]

Cutting machine, Machining center, NC grinding machine, three-dimensional measuring machine, three-dimensional CAD / CAM.

■ OUR STRENGTH

We can sales the only drawbench materials (about aeronautical field) produced by Japan domestic. We provide production scheme with "Hitachi Metals, Ltd." a major manufacturer of aviation materials in Japan and a drawbench processing. This method is in demand for heat resistant steels such as A286 and Inconel 718.

■ NEEDS WE CAN CORRESPOND/BUSINESS PARTNERS WE WANT

- We offer various service such as arranging purchase parts, designing, manufacturing and inspection, which can save your labour. (We have achieved 40% cost reduction from target price.)
- We offer service with low-cost, high quality and short delivery time. (3days is the fastest delivery after your order)
- We offer KAIZEN (e.g. cost reduction by design changes)

■ OFFICE & PLANTS

Headquarters: 3-7-19 Nishiki, Naka-ku, Nagoya, Aichi 460-0003, Japan Nagoya Office: 3-308 Fujimae, Minato-ku, Nagoya, Aichi 455-0855, Japan

Toyohashi Office: 51-1 Motoyashiki, Mitsuya-cho, Toyohashi, Aichi 441-3114, Japan

Seto Factory: 16 Higashiyasudo-cho, Seto, Aichi 489-0053, Japan













Central Japan Aerospace Total Encouragement Center







Nagoya Industries Promotion Corporation







Nagoya Chamber of Commerce & Industry



Japan External Trade Organization(JETRO) JETRO NAGOYA









AICHI-NAGOYA AEROSPACE CONSORTIUM

CONTACT

Next Generation Mobility Division, Bureau of Economy and Industry, Aichi Prefectural Government 3-1-2 Sannomaru, Naka-ku, Nagoya, Aichi 460-8501, Japan TEL +81-52-954-6349 E-mail jisedai@pref.aichi.lg.jp URL https://aichi-nagoya-aerospace.jp/

Aichi Prefectural Government / City of Nagoya / Central Japan Aerospace Total Encouragement Center / Aichi Industry Promotion Organization / Nagoya Industries Promotion Corporation / Chubu Bureau of Economy, Trade and Industry / Komaki City / Nagoya Chamber of Commerce & Industry / Japan External Trade Organization (JETRO) JETRO NAGOYA / Greater Nagoya Initiative Center / Nagoya University / Chubu University / Aichi Prefectural University

















