

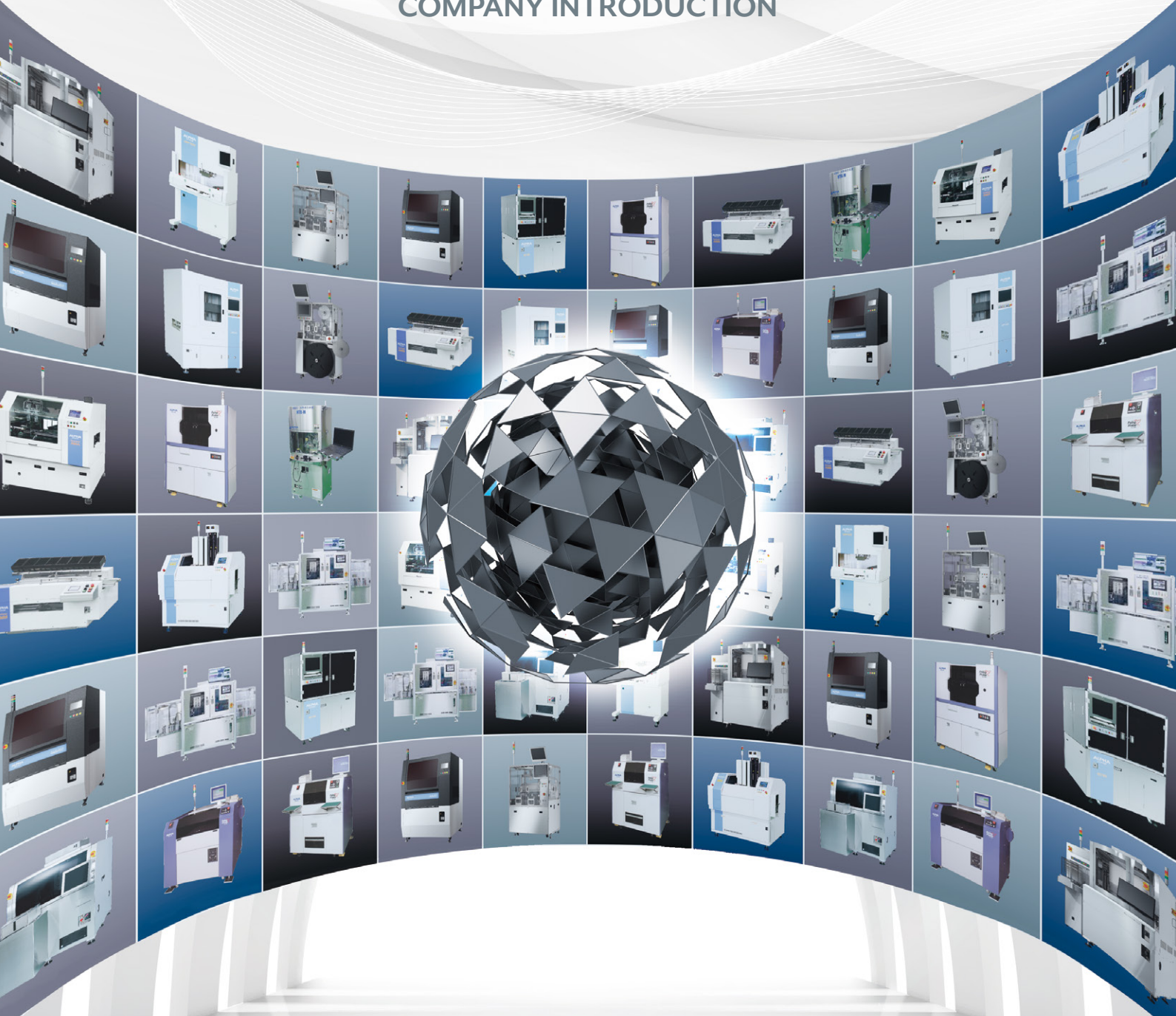
Our technical capabilities cultivated through manufacturing custom-made products make us understand your needs precisely to deliver reliable products.

| Manufacturing process | Core technologies | Business domains | Examples of equipment and systems |
|--|--|--|---|
| Custom equipment | Semiconductor packaging process technology | Customization We provide comprehensive capabilities from design, manufacturing, to start-up, based on our high-precision mechatronics technology which has built up trust through our labor-saving and automated equipment, and our ability to respond carefully to client needs, cultivated through our custom-made products. | Custom equipment <ul style="list-style-type: none">·Semiconductor-related fields·Automotive parts-related fields·Electronic components-related fields·Molding-related fields |
| | Boardmounting process technology | Semiconductor packaging process In the semiconductor industry, where the cycle of technological innovation is extremely short, we are committed to the introduction and development of cutting-edge process technologies. With our high-level semiconductor packaging processes and high-precision mounting equipment, we are able to offer the best solutions even for next-generation manufacturing methods. | Semiconductor back-end process equipment <ul style="list-style-type: none">·Die bonder (HSDB)·Package pickers (ACT100 series)·Flip chip bonder (HSB)·Taping machines (ACT200 series)·High-precision pressure and heat bonding machines (HTB-MS/MM) |
| Standard and general-purpose equipment | Board inspection process | Board mounting process We have a lot of experience in automatic insertion systems for discrete electronic components, such as odd-shaped ones, and have established thick film coating technologies such as moisture-proof coating on electrical substrates and fluorescent and encapsulant coating on LED substrates. | Board mounting equipment <ul style="list-style-type: none">·Composite board mounting system (Board-Packer)·Press-fit machine for press-fit connectors (APF)·Moisture-proof agent coating equipment for mounting boards (ACM) |
| | | Board inspection process Using positioning technology and special probes developed over many years, we inspect printed circuit boards prior to component mounting without damage, at high speed, and with high accuracy. We can meet a wide variety of needs, from substrates for mobile devices to high value-added substrates. | Printed circuit board inspection equipment <ul style="list-style-type: none">·Flying probe·High-speed, high-precision printed circuit board inspection system |
| | Access control technology | Access control solutions Our access control platform is a technology that does not only enable facility security but also allows facility management and operation in various scenarios, and can be provided as a solution tailored to your needs. | ALPHA user management series <ul style="list-style-type: none">·Access control system·Room management systemReservation management, schedule management, etc.·Dormitory management systemResident display, bulletin board, application for staying out overnight, etc.·Facilities utilization management systemFacilities/equipment reservations, usage records, etc.·Operational support for various systems |

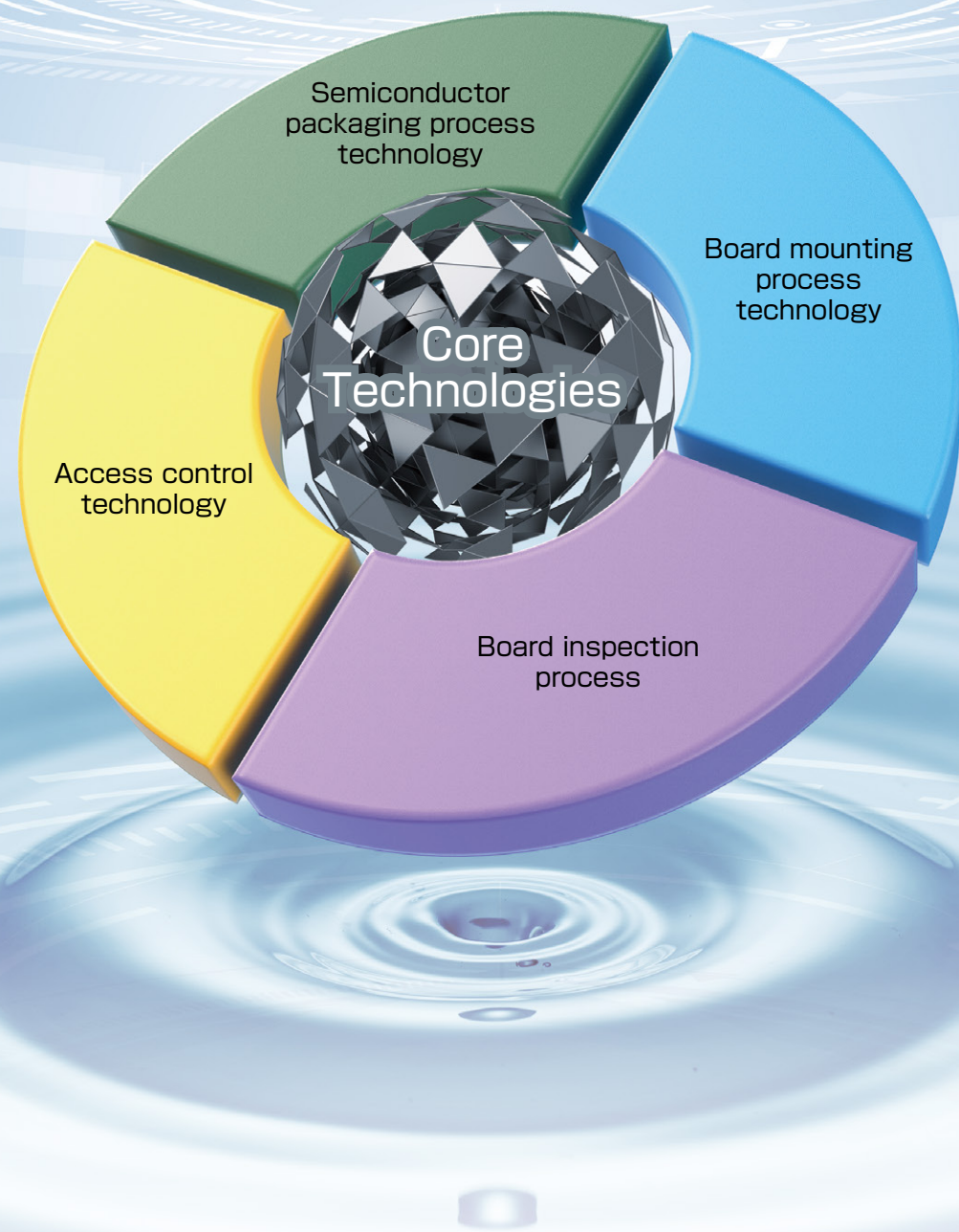


ALPHA DESIGN

COMPANY INTRODUCTION



We will continuously support the fundamental strength of industrial technology, aiming for the world’s highest level of precision.



RPA, AI, IoT, UGV, 3D, and nanotechnology—wave after wave of technological innovation is sweeping across the world. However, these may be just clues to a new stage of technology. In the midst of an era in which a new level of industrial revolution is about to begin that will fundamentally change the concept of society, we will support the new roadmap for a changing world with our accumulation of reliable technologies.

Refining and enhancing our technology based on providing **three CSs** globally.

We, Alpha Design Co., Ltd. started out in the factory automation equipment business and expanded into manufacturing equipment for automotive parts, electronic components, and semiconductor packaging, for which we have earned a great deal of trust mainly by supplying equipment for semiconductor packaging. We are now widely supplying standard products, utilizing the precision technology and know-how that we have refined through manufacturing custom-made equipment and devices and solving difficult problems in response to various requests from our customers, and have earned a solid reputation. In 2018, we became a member of the Mimaki Engineering Group in order to further develop our technology in a more comprehensive manner. This has dramatically enhanced our technical support and service systems in various regions of the world and greatly improved our international response.

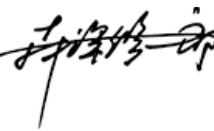
Our goal has always been to respond quickly and steadily to requests for “a little more” in order to achieve technological excellence and provide superior solutions, and the three CSs:

- Customer Success
- Customer Satisfaction
- Customer Support















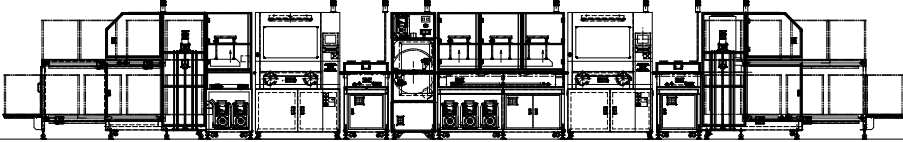
have been the norm in our thinking and actions. The driving force to make these CSs a reality is the motivation and happiness of each and every employee. Only by enhancing the quality of the CSs will our technology become more reliable, and our credibility in the international market will deepen. As a company that supports the foundation of global industry, we will continue to strive to enhance our human and technological capabilities and contribute to the development of the world.



CEO



PRODUCT LINEUP

| | | | | | |
|---|--|---|--|--|--|
| Moisture-proof agent coating equipment for mounting boards: ACM Series  ACM-400 | Press-fit machines: APF Series  APF-100 | Composite board mounting system: Board-Packer  AMXz | Transfer and mounting machines: ACT Series  ACT-210 (Taping Machine) |  ACT-400 (Tray to Tray) | |
| High-precision semiconductor packaging system series  HSDB-200C (high-precision die bonder) |  HSB-300/300U (high-precision semiconductor packaging machine) |  HTB-300W (Multi Head TCB Equipment) |  Model 5880 | AIC Series for social information infrastructures  AIC-RW200 (IC card reader for doors) |  AIC-RW400 (IC card reader for access control and room management) |
| Factory automation (FA) equipment (related to automotive parts, electronic components, and molding)  Automatic screw tightener | | | |  AIC-RW1000 (IC card reader for clock-in/out management) |  AIC-1100 (IC card reader for attendance management) |
|  | | | | | |

ABOUT US

Corporate name : Alpha Design Co., Ltd.
Headquarters : 2211-3 Shigeno-ko, Tomi-shi, Nagano 389-0511, Japan
Tel +81 (268)64-0088/Fax +81 (268)64-0080
E-MAIL info@alpha-design.co.jp
WEB SITE https://www.alpha-design.co.jp/
Established : January 19, 1989
Capital : 30 million JPY
Representative : Shujiro Morisawa, Representative Director
Business : Development, manufacturing and sales of equipment for factory automation, high-precision semiconductor packaging, board mounting, and board inspection

Corporate name : Alpha Systems Co., Ltd.
Headquarters : 2211-3 Shigeno-ko, Tomi-shi, Nagano 389-0511, Japan
Tel +81 (268)64-7188/Fax +81 (268)64-0028
Established : July 2015
Capital : 60 million JPY
Representative : Shujiro Morisawa, Representative Director
Business : Development, manufacturing and sales of FA equipment
Contract manufacturing of FA equipment

HISTORY

- 1989 Established Alpha Design Co., Ltd. (in the FA equipment business). Initial capital: 15 million JPY
- 1992 Acquired a site and built the headquarters building (currently used as the First Factory). Increased capital to 48 million JPY.
- 1995 Built the Second Factory (for OEM production of PET bottle blow molding machines). Started development, manufacturing and sales of equipment related to semiconductor packaging.
- 2004 Established Shanghai Branch Office.
- 2005 Established Tokyo Branch Office (for development and sales).
- 2006 Established Osaka Branch Office (for development and sales). Acquired a site and built the Third Factory (currently used as the Headquarters Factory).
- 2007 Absorbed processing subsidiary Denno Kogei Plus Co., Ltd. Increased capital to 195 million JPY.
- 2008 Took over the board packer business from Citizen. Established Fukuoka Branch Office (as a sales base for Asia and for joint development with semiconductor research institutes in Kyushu).
- 2009 Established Yonezawa Branch Office (for sales and design). Took over the business of Tonami Corporation Ltd., a company for processing large items, and started business under the same name in September.
- 2010 Acquired the factory of the former Frome Co., Ltd. in Yonezawa City. Reorganized the Yonezawa Branch Office into Alpha Tec, Co., Ltd. and started operations. Separated our processing division as the Nagano Branch of Tonami Corporation Ltd.
- 2011 Transferred the manufacturing division to the Nagano Branch of Tonami Corporation Ltd. Established Alpha Design (Dalian) Co., Ltd. Established Alpha Design (Hong Kong) Co., Ltd. Established a demonstration center office in Itoshima City, Fukuoka.
- 2012 Closed Osaka Branch Office.
- 2014 Established Alpha Design Automation Technology (Shenzhen) Co., Ltd. Established Utsunomiya Office (took over PCB inspection equipment business from Amada Miyachi).
- 2015 Established Alpha Systems Co., Ltd. by spinning off Tonami Corporation's Nagano Branch. Reorganized Shanghai Branch Office as Shanghai Branch of Alpha Design Automation Technology (Shenzhen) Co., Ltd.
- 2017 Established the Tokyo Branch Office of Alpha Design Group.
- 2018 Became a wholly owned subsidiary by Mimaki Engineering Co., Ltd.
- 2019 Transferred Yonezawa Factory to Alpha Systems Co., Ltd.

NETWORK

●Alpha Design Co., Ltd.
Headquarters/Factory
2211-3 Shigeno-ko, Tomi-shi, Nagano 389-0511, Japan
Tel +81 (268)64-0088/Fax +81 (268)64-0080
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Osaka Office
3-36-15 Tarumi-cho, Suita-shi, Osaka 564-0062, Japan
Tel +81 (6)7653-7484/Fax +81 (6)-6388-8265
Fukuoka Office
5-11-15 Yoshizuka, Hakata-ku, Fukuoka-shi, Fukuoka 812-0041, Japan
Tel +81 (92)612-1365/Fax +81 (92)612-1366
Utsunomiya Office (for board inspection)
2579-8 Tako, Kaminokawa-machi, Kawachi-gun, Tochigi 329-0524, Japan
Tel +81 (285)38-7577/Fax +81 (285)38-7571
Alpha Design (Dalian) Co., Ltd.
No.15-14 Koushin Supporting Enterprise Park, No.27, Liaoning Street, Economic and Technological Development Zone, Dalian 116600, China
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Alpha Design Automation Technology (Shenzhen) Co., Ltd.
16Block3, Fubao Guihuayuan, 254 Ronghua Road, Fubao Street, Futian District, Shenzhen 518380, China
Tel&Fax +86(755)8382-5326
Shanghai Branch Office
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Tel&Fax +86(0)21-3363-9018
Mimaki Engineering Group's Overseas Offices
China, Taiwan, Thailand, Singapore, Indonesia, Australia, India, Lithuania, Turkey, Italy, Germany, Netherlands, U.S.A., Brazil

●Alpha Systems Co., Ltd.
Headquarters/Factory
2211-3 Shigeno-ko, Tomi-shi, Nagano 389-0511, Japan
Tel +81 (268)-64-7188/Fax +81 (268)64-0028
Yonezawa Factory
3-4452-20 Hachimanpara, Yonezawa-shi, Yamagata 992-1128, Japan
Tel +81 (238)29-0720/Fax +81 (238)29-0721

GROUP

Mimaki Engineering Co., Ltd.
2182-3 Shigeno-otsu, Tomi-shi, Nagano 389-0512, Japan
Tel +81 (268)64-2281/Fax +81 (268)64-2285
Development, manufacturing and sales of industrial inkjet printers, cutting plotters, software and supplies

Tonami Corporation Ltd.
636 Yagi, Tonami-shi, Toyama 939-1317, Japan
Tel +81 (763)33-2145/Fax +81 (763)33-2147
Medical equipment (X-ray fluoroscopic tables)/ construction machinery frames/elevator sub-assemblies/automotive body parts/machining center tool storage boxes, ATC, transfer equipment/reducers for construction machinery and multistorey car parks/agricultural management machinery/lawn care machinery