



Hirata

The Global Production Engineering Company

Hirata is a manufacturer that provides production equipment and engineering to manufacturers in various fields, such as the automobile, semiconductor, and home electronics industries.

Since our establishment in 1951, our experience and track record in various industries blossomed into the collective strengths of Hirata's unique manufacturing capabilities, which include solution proposals, design, manufacturing, operation, and services. We are known for our reliability with top manufacturers in each industry as well as for technologies for new creation.

With a delivery record to over 40 countries in the world, we provide a production system that is best suited for varying cultures, customs, and rules of production sites in various countries.

Furthermore, under our management philosophy of "Makes the best use of its members", we wish to be an entity in which every member of Hirata can grow as a person, enhance the lives of others, and enrich their own life.

We, as a system integrator of production equipment, endeavor to be a company that can shape the needs of customers and contribute to the society with our daily efforts, responding to needs of ever-changing production sites.

Yuichiro Hirata President

► Management Philosophy

Hirata

MAKES THE BEST USE OF ITS MEMBERS.

We believe we could be perfect only if every member of Hirata can grow as person and enhance his/her capabilities to complement each other's weakness.

CHALLENGES TECHNICAL INNOVATION.

Our world changes very fast. We must be innovative to be creative and to meet ever upgrading needs.

RESPECTS HUMANITY.

We design our products to free people from jobs which can be done by machines. Human being should do what only he/she can do.

OPENS THE DOOR TO THE CREATIVE LIFE.

We want our company to be a place where we can improve ourselves and live creative lives.

CONTRIBUTES TO THE SOCIETY.

We are allowed to succeed or expand only because our society accepts us. The contribution to the society should be our standard.

MAKES OUR CUSTOMERS SUCCESSFUL.

We should be entitled to make profit only when we make our customers successful. Our profit is the result of the performance of our job, otherwise we can never get any further business from them.

► Mission Statement

We pursue technological innovation in a courageous manner, and contribute to the development of society, making personal progress and enhancing our capabilities.

▶ History

Manufacturing is making daily progress around the world.
Hirata's mission is to support manufacturing
in various industrial fields.

Manufacturing is making daily progress aiming a better life.
Hirata manufactures and markets production systems for various industrial fields,
such as the automobile, semiconductor, and home electronics industries.
Ever since our establishment, we have manufactured a variety
of production equipment in a wide range of industrial fields.
With this past performance and experience, Hirata's unique know-how
and technologies in manufacturing for various fields provide manufacturers,
which are our customers, with a high level of advice to meet their challenges.
For years to come, we will keep trying to create new value with our original ideas.

1951~

Dec. 1951 Hirata Sharyo Industrial Co., Ltd. established in Kumamoto with 1 million yen in capital to manufacture and market industrial vehicles.



Oe plant in 1956

Aug. 1958 Started manufacturing agricultural trailers.

Dec. 1959 Started manufacturing belt conveyors and slat conveyors.

May. 1964 Hirata delivered its first television assembly line.



Conveyors



Television assembly line

Jul. 1964 Ueki plant (now Kumamoto plant) built in Ueki Town, Kumamoto City, Kumamoto Pref.



Kumamoto plant in 1963

Aug. 1968 Kanto plant built in Utsunomiya City, Tochigi Pref.

Oct. 1970 Started making free-flow conveyors with newly invented chains.

1971~

Aug. 1974 Hirata Industrial Commerce and Taihei Conveyors merged to form Hirata Corporation.

Dec. 1977 Development of Cartesian coordinate robot NC control XY table "Machine Base".

Jun. 1979 First order for a transmission assembly line received from an automotive maker.

Feb. 1980 Hirata Corporation of America founded in Indiana, USA as a subsidiary.

Aug. 1980 Development of Arm Base AR-300 horizontal multi-joint 4-axis robot. Commencement of worldwide pre-sales.



SCARA-type Robot AR-300

Oct. 1980 Taihei Kosan Co., Ltd. established in Ueki Town, Kumamoto City, Kumamoto Pref.(Taihei Kosan Co., Ltd. changed its name to Taihei Technos Co., Ltd. in Apr. 2008).

Mar. 1981 Kansai plant built in Yasu City, Shiga Pref. Headquarters moved to Shinagawa in Tokyo.

Apr. 1984 Robot plant (now Kusuno plant) built in Kumamoto City, Kumamoto Pref.

Mar. 1986 Taihei Computer Co., Ltd. founded in Kumamoto City, Kumamoto Pref. (Taihei Computer Co., Ltd. changed its name to Trinity Inc. in May 2011).

Jan. 1988 Direct drive robot "AR-DD2700" given award by Nihon Keizai Shinbun.

1991~

Jan. 1991 Hirata FA Engineering (S) PTE. Ltd. founded in Singapore as a subsidiary.

Nov. 1993 Hirata Robotics GmbH founded in Germany as a subsidiary (Hirata Robotics GmbH changed its name to Hirata Engineering Europe GmbH in Jul. 2011).



Apr. 1994 Development of AR-K robot series for use in transport in clean rooms.



Clean robot AR-K400

May. 1999 Hirata Koei Co., Ltd. established in Ueki Town, Kumamoto City, Kumamoto Pref. (Hirata Koei Co., Ltd. changed its name to Hirata Field Engineering Co., Ltd. in Feb. 2007).

Aug. 1999 Shanghai Hirata Mechanical Engineering Co., Ltd. founded in China as a subsidiary (Shanghai Hirata Mechanical Engineering Co., Ltd. changed its name to Hirata Mechanical Equipment Sales (Shanghai) Co., Ltd. in Mar. 2010).

May. 2000 Hirata Engineering S.A. De C.V. founded in Mexico as a subsidiary.

▶ Company Profile

[Company Name]	Hirata Corporation	[Stock Exchange Listings]	First Section of the Tokyo Securities Exchange (Code : 6258)
[Headquarters]	111 Hitotsugi, Ueki, Kita, Kumamoto, 861-0198 Japan TEL. 81-96-272-0555 FAX. 81-96-272-7901	[Primary Client Banks]	Higo Bank, Sumitomo Mitsui Banking Corporation, MUFG Bank, Ltd, Kagoshima Bank, The bank of Fukuoka, Kumamoto Bank, Sumitomo Mitsui Trust Bank
[Representatives]	Yuichiro Hirata, President	[Fields of business]	Manufacture and sales of various manufacturing line systems, Industrial robot and logistic equipment
[Date Established]	Dec. 29, 1951	[Subsidiary Company]	3 domestic subsidiaries 9 overseas subsidiaries
[Accounts Closed]	Mar. 31 (annually)	[Auditing Corporation]	KPMG AZSA LLC
[Capital]	2,633 million yen	[Membership]	Japan Industrial Robot Association, SEMI Japan, JETRO, Kumamoto Chamber of Commerce and Industry

2001~

Oct. 2001 Development of Head-Coater resist coating appliance with built-in spinless coating unit for FPD use.
8th generation Head-Coater resist coating appliance



Dec. 2001 Detroit office (Hirata Corporation of America) opened in Michigan, USA.

Feb. 2003 ISO14001 certification was obtained at Kumamoto and Kanto area.

Apr. 2003 ISO9001 certification was obtained at all of the divisions.

Aug. 2004 Hirata Engineering (Thailand) Co., Ltd. founded in Thailand as a affiliated company of HSL.

Oct. 2006 Hirata Automated Machinery (Shanghai) Co., Ltd. established in China.

Dec. 2006 Stock listed on JASDAQ (Tokyo Securities Exchange JASDAQ) Securities Exchange.

Dec. 2006 Taiwan Hirata Corporation established.

May. 2007 Development of 10th generation glass substrate transfer robot.



Jan. 2008 Shichijo plant built in Kikuchi City, Kumamoto Pref. to expand production capacity for FPD related production equipments.

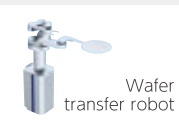
Nov. 2008 Entry into the photovoltaic manufacturing equipment market.

Nov. 2009 Development of transfer system EFEM for 450mm wafer.

Sept. 2011 Development of new FOUP opener and wafer transfer robot.



FOUP opener



Wafer transfer robot

Mar. 2012 Development of robots such as new SCARA robots and small Cartesian robots.

Dec. 2012 Hirata FA Engineering(M)Sdn. Bhd. established in Malaysia.

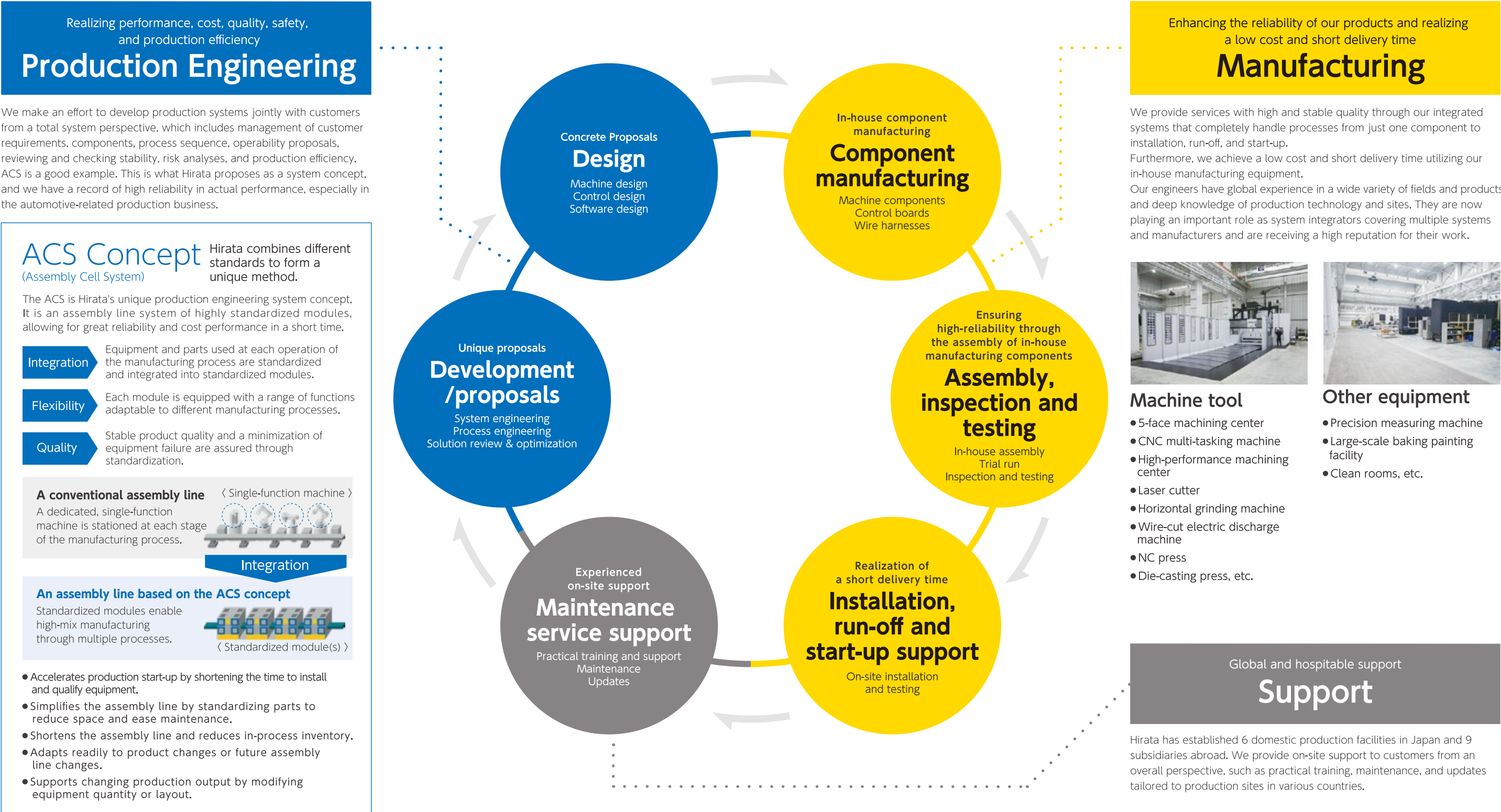
Jun. 2016 Headquarters moved to Kumamoto City, Kumamoto Pref.

Jun. 2017 Change of our stock market listing to the First Section of Tokyo Stock Exchange.

► Features

Hirata offers reliable production systems based on our enhanced integrated services ranging from development to installation, run-off, and start-up support, and maintenance service support.

Hirata's services are designed to be completely integrated and include R&D solution proposals, design, component manufacturing, assembly, inspection and testing, installation, run-off and start-up support, and maintenance service support. These in-house capabilities ensure quick and stable delivery of high quality and low cost products on a timely basis.



► Industries Served

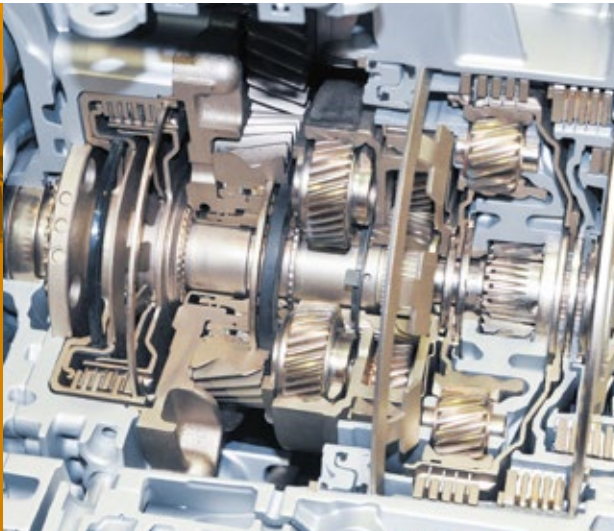
We support the manufacturing processes of our customers by providing high-quality, high-efficiency, and easy-to-use production systems.

We manufacture and deal in production systems for various fields including automobiles, semiconductors and home electronics.
We keep challenging ourselves to respond to the needs of various industries by utilizing our technologies and know-how accumulated through a wide variety of manufacturing experiences.

01

Automotive related production equipment

We manufacture and market electric vehicle related equipment, powertrains (engine, transmission, etc.), and assembly equipment for electric control machines.



04

Home appliance assembly

We manufacture and market production equipment for manufacturers of home electronics and electrical appliances such as flat-screen televisions, refrigerators, and vacuum cleaners.



02

Semiconductor related equipment & Panel manufacturing systems

We manufacture and market load ports, atmosphere/vacuum-corresponding wafer transfer robots and related integrated Equipment Front End Module.

We provide cutting systems, coater systems and lamination systems of glasses used for organic EL, LCD, and so on.



05

Transfer machine / Intelligent power module / FA unit sales

We manufacture and market power module-related products such as transfer machines, stocking systems, fully automated warehousing, production management systems, vacuum reflow machines for lead-free solder, and Hirata's standardized and versatile FA units.

03

Industrial robots

We manufacture and market controller units and various component robots of the Hirata manufacturing system.

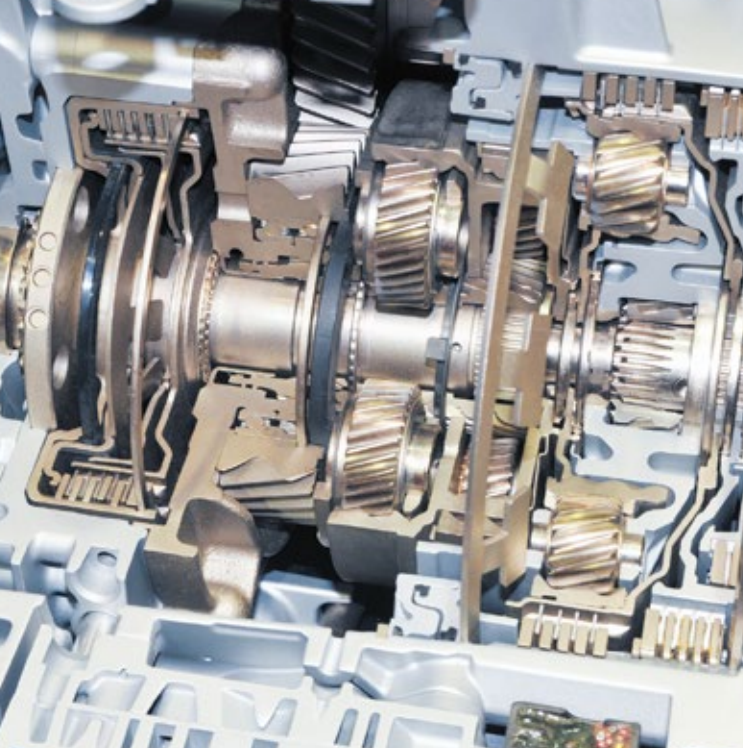


06

Medical / Chemistry & Physics device Other industries

We manufacture and market medical/chemistry and physics devices for use in the development of new medicines, etc.





01

Automotive related production equipment

Hirata has long been involved, and domestically and internationally valued, in the automotive industry. We design, produce, and sell assembly equipment ranging from electric vehicle related business, powertrains such as transmissions and engines to more specific components like computerized control systems, sensors, air compressors, and ABS brake modules.



We provide a consistent solution for all processes. Operation can be confirmed before delivery and maintenance is also simple.

We completely handle devices and equipment for electric vehicles, engines, transmissions, and component-related products. Comprehensive tests are run before delivery to ensure correct operation, and preparation and maintenance become a simple matter with our use of standardized solution.

Electric Vehicle related equipment

- Drive unit
- Battery package
- Motor assembly
- Inverter power module assembly

Engine related equipment

- Complete engine assembly
- Cylinder block assembly
- Valve assembly installation
- Crank shaft assembly
- Cold tester
- Cylinder head assembly
- Piston assembly
- Valve cotter mounting
- Leak tester
- Piston insertion machine

Transmission related equipment

- CVT assembly
- DCT assembly
- Manual transmission assembly
- Manual clutch assembly
- Torque converter insertion
- Automatic transmission assembly
- Differential gear assembly
- Automatic clutch assembly

Parts related equipment

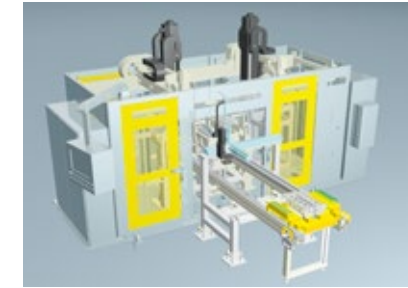
- Airbag inflators assembly
- ECU electric device assembly
- Common rail injection assembly
- Crash sensor assembly
- Starter assembly
- Seat recliner assembly
- Sorting and stocking system
- Air compressor assembly
- Speedometer assembly
- Seat rail assembly
- Tire production module
- Material handling device

Engine related equipment

We are capable of handling the full range of equipment that is used in assembling engines including engine assembly equipment, cylinder head assembly equipment, and piston assemblies for powertrain products.



Piston insertion equipment



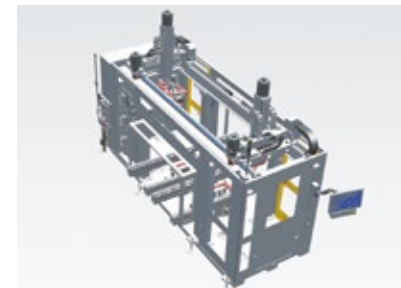
Valve assembly equipment



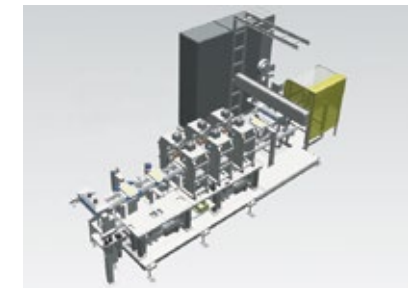
Cold tester
Test under the condition of non-combustion

Electric Vehicle related equipment

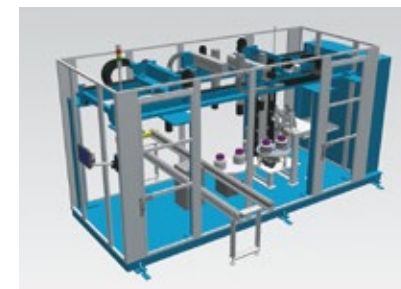
We are capable of handling equipment that is used in assembling motor including stator and rotor, electrical drive unit, battery module and pack line.



EDU assembly station



Tab cut bend device



Rotor magnet insertion



IGBT assembly equipment

Component related equipment, others

We respond to various needs such as electronic devices for vehicles, ABS, compressors, motors for hybrid vehicles, and inverters utilizing in-house standard robots and standard modules.



Cantilever conveyors



Gripper transfer assembly for automotive parts

Transmission related equipment

We are capable of assembling cases, pulley valves, torque converters, etc. for CVT (Continuously Variable Transmission), automatic transmission, DCT (Dual Clutch Transmission), and EV drive division.



CVT case assembly equipment



Carrier assembly equipment



Clutch assembly equipment

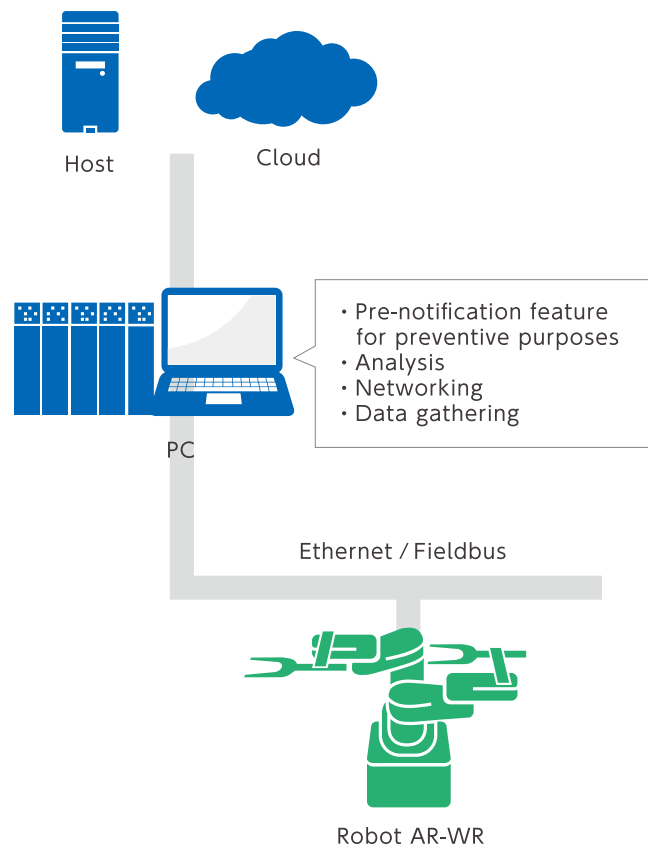
02

Semiconductor related equipment & Panel manufacturing systems

We manufacture and market platforms for manufacturing systems, transfer systems, and heat treatment systems in the front-end process of semiconductor manufacturing, and in the assembly and testing process, mainly manufacture and market in-process transfer systems. In the panel manufacturing system, we help customers to make a suitable plan for plant layout and distribution, such as coater and laminating systems for flat panels and base plates used for organic EL, LCD, and systems for cutting, transfer, division, and shifting of glass.

System architecture utilizing long years of experience and know-how, and the addition of predictive maintenance function on robots. Performing maintenance at a proper timing based on robots status. Controls by Ethernet, PC, PLC and so on are available in semiconductor products.

【Predictive maintenance system】



Semiconductor related equipment

In the field of semiconductor-related production equipment, we manufacture and market the load port which transfers silicon wafers to individual processing equipment, wafer transfer robots(atmospheric type and vacuum type), EFEM which integrates the load port and wafer transfer robots, and vacuum platform. We also manufacture and market road ports, transfer robots and related integrated Equipment Front End Module for FOPLP*.



300/450mm Equipment Front End Module /Sorter series



Load ports 300/450mm KWF series



Wafer transfer robot AR-WR series (atmospheric)



300/450mm vacuum platform (OEM/ODM)



150/200/300/450mm prealigner



Wafer transfer robot AR-WnV Series (low & high vacuum)



Transfer robot for FOPLP



Load port for FOPLP

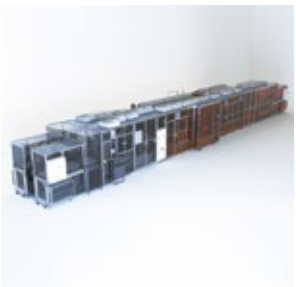
*Fan Out Panel Level Packaging

Panel manufacturing systems

In the panel manufacturing systems, Hirata provides cutting systems, coater systems and lamination systems of glasses used for organic EL, LCD, and "Auto-loader systems", which utilize transfer robots.



Deposition equipment for OLED



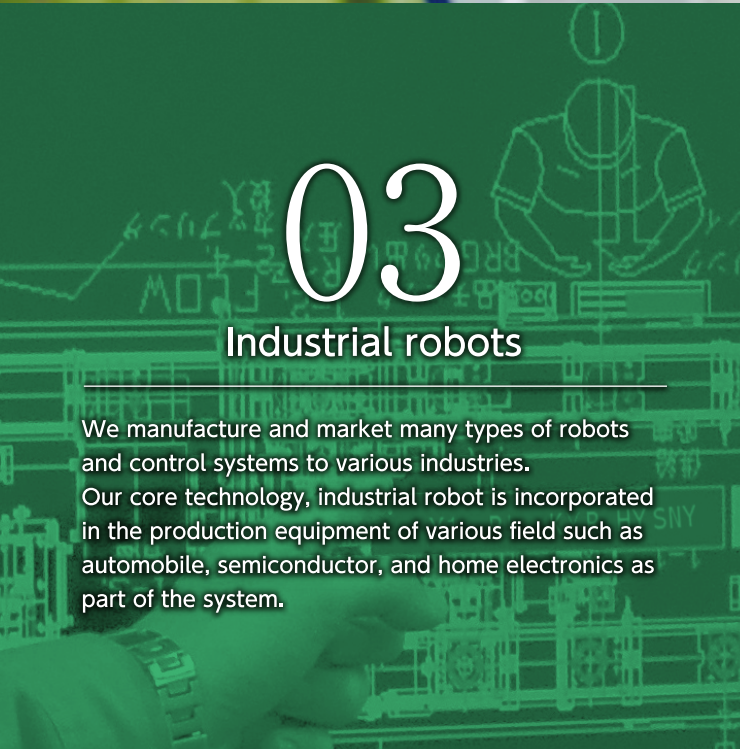
Coating and lamination systems for in-car monitor



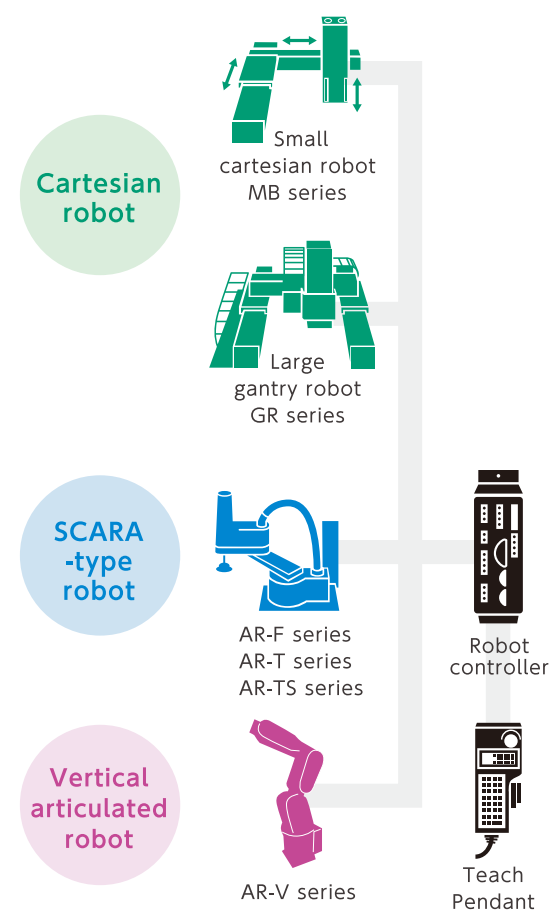
Coater systems Head Coater HC series



Laser glass odd-shaped processing system for 3 to 8 inch



From small to large size robots with usability and safety as well as high speed and high accuracy.



Vertical articulated robot AR-V series



Suspended SCARA-type robot AR-T series



SCARA-type robot AR-TS series



SCARA-type robot AR-F series



Small cartesian robot MB series



Gantry robot GR series



3D machine vision HV-P108



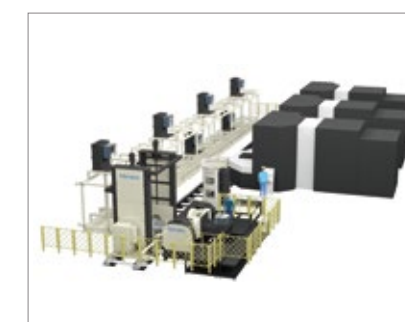
Robot controller HNC-X8M



Automatic chamfering machine



Automatic parts feeding systems



Automatic large pallets feeding systems

04

Home appliance assembly



We manufacture and market production equipment for manufacturers of home electronics and electrical appliances, in which Hirata has the longest history. We globally offer services related to component manufacturing to final assembly of the fast-evolving home electronics products such as mobile devices including smartphones and tablets as well as high-quality displays and high-performance vacuum cleaners by efficiently utilizing Hirata group's transfer, robot, and clean/precision technologies.



Home electronics component assembly system

An example of the most appropriate base machine utilized for the assembly of small components of home electronics. A wide variety of work is possible by using two in-house SCARA-type robots.



Mobile equipment assembly system ACS-MD

An assembly line system for mobile devices such as smartphones. This is a flexible standard module that supports high-speed production and needs less space, and is equipped with our SCARA-type robots.



Resin molding system

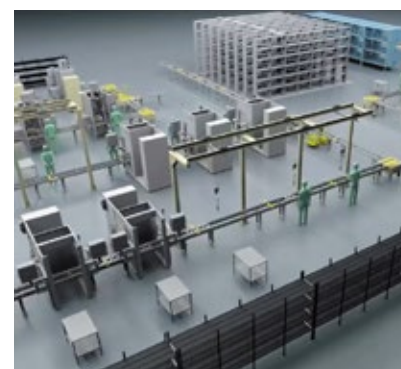
System for withdrawing from resin molding machine and secondary processing. This system incorporates high rigidity robots and precision machining to accommodate high-precision resin parts.

05

Transfer machine / Intelligent power module / FA unit sales

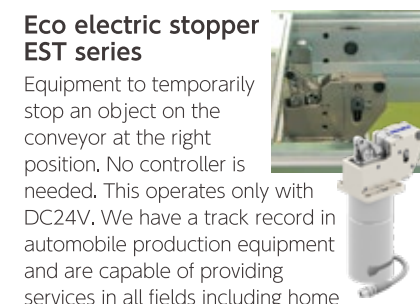


We manufacture and market transfer equipment such as automated warehousing systems with high general usability, rackless stockers with no restrictions on existing shelf size or clearance, electric-powered conveyors and stoppers, intelligent power module related equipment such as environmentally-conscious fluxless vacuum reflow machines for lead-free solder, and Hirata's standardized and versatile FA units can be used for wide range of application. We provide services to a wide range of fields with our excellent track record in the automotive and home electronics industries.



Production management system

This is a traceability system that monitors carrier status, provides automating transportatoin direction, manages inventory, and links production information and product itself. We provide the above system to many customers.



Eco electric stopper EST series

Equipment to temporarily stop an object on the conveyor at the right position. No controller is needed. This operates only with DC24V. We have a track record in automobile production equipment and are capable of providing services in all fields including home electronics.

ECO electric DC conveyor (ECV series)

This DC24V conveyor with built-in Blue Motor which Hirata developed is based on its free flow conveyor of year's experience with safety and easy-to-use.No driving board is needed. This is an eco-friendly and smart conveyor moving only by DC24V.

Mounter ACS-PM series for Intelligent Power Modules

High speed and precision placing of Power Modules including IGBT tips, solder sheets, and insulated substrates. Machine bases are standardized and designed for dispensing and screw tightening.



Formic Acid Vacuum reflow oven HVMR-G series for Intelligent Power Modules

Removes oxide film by heating under the formic acid atmosphere after vacuum reduction. Non-contact heating with lamp heater enables fast heating.

06

Medical / Chemistry & Physics device Other industries



We manufacture and market medical/chemistry and physics devices that are used in the healthcare field and in the development of new medicines. We endeavor to contribute to society by providing products that are easier to use and have high reliability.



Fully automatic continuous slicer Tissue-Tek Smart Section Sakura Finetek Japan Co., Ltd.

This equipment enables automatic production of pathological specimens by slicing the specimens such as cancers into the thickness of a few microns. The system contributes to the medical field not only by its efficiency but also precise operation.



Multi-specimen cell disruption device

The equipment allows you to disrupt cells to extract DNA, RNA, and proteins. The equipment is operative with a single press of a button and comes in compact and desktop size.



Filtration membrane breakage monitoring system

The system condenses fine particles in water and acquires them only a few microns in size that flow through when the filter membrane breaks, and detects them by image processing. 24-hour real-time, remote monitoring is also possible.

► Global Capabilities

Hirata ensures delivery of services by maximizing our experience in over 40 countries and know-how with extensive knowledge of our production sites.

Hirata's customer base spreads out to over 40 countries in the world including Japan.
We deploy 9 subsidiaries in North America, Europe, South East Asia, China, and Taiwan, where we can provide quick and flexible responses to inquiries for new businesses as well as operation, support, maintenance, and updates.
Anywhere in the world, we provide production systems complying with customers' production philosophies and taking into account practical issues such as local labor practices and safety standards.

Overseas Subsidiaries

We deploy 9 subsidiaries in North America, Europe, South East Asia, China, and Taiwan.

Europe

Hirata Engineering Europe GmbH (Germany)
Est.1993
<http://www.hirata.de>

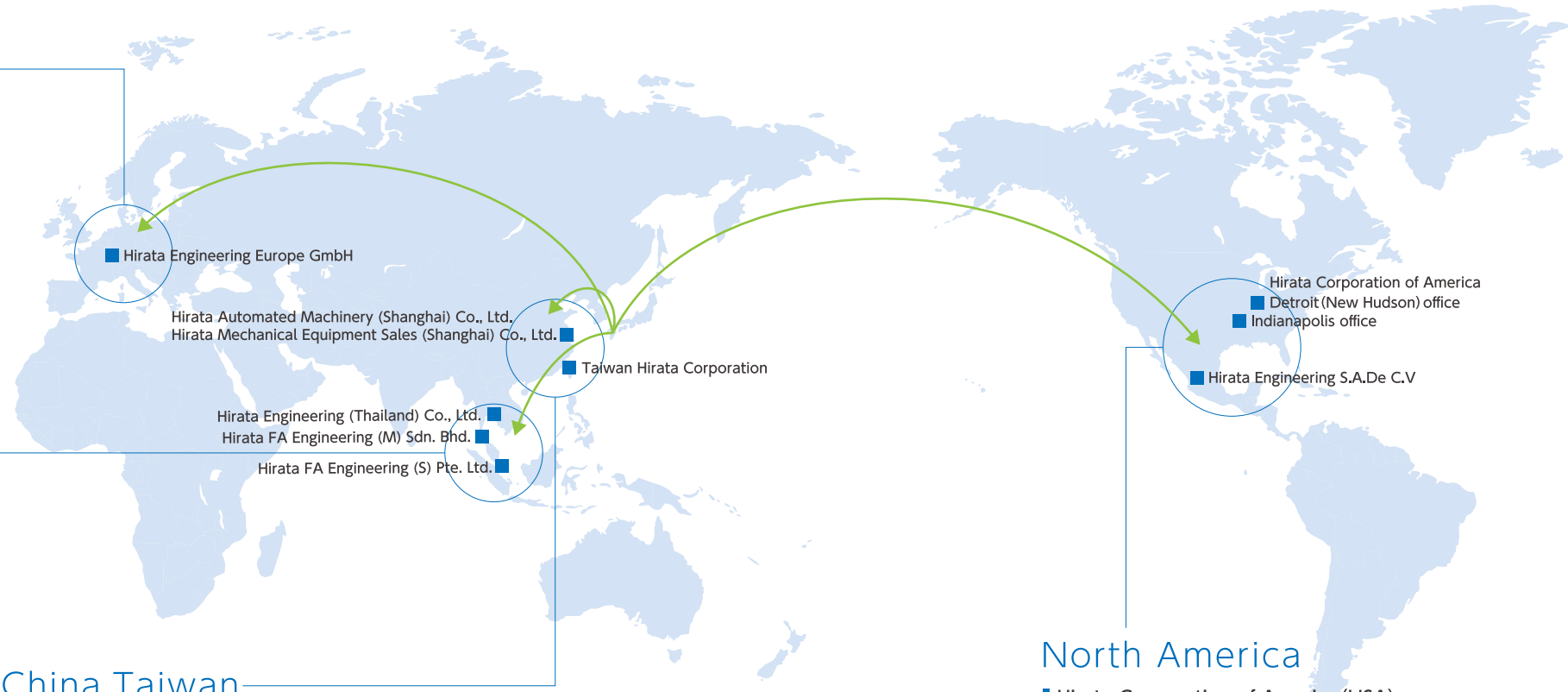


South East Asia

Hirata FA Engineering (S) Pte. Ltd. (Singapore)
Est.1991
<http://www.hirata.com.sg>

Hirata Engineering (Thailand) Co., Ltd. (Thailand)
Est.2004

Hirata FA Engineering (M) Sdn. Bhd. (Malaysia)
Est.2012



China, Taiwan

Hirata Automated Machinery (Shanghai) Co., Ltd. (China)
Est.2006
<http://www.hirata-cn.com>



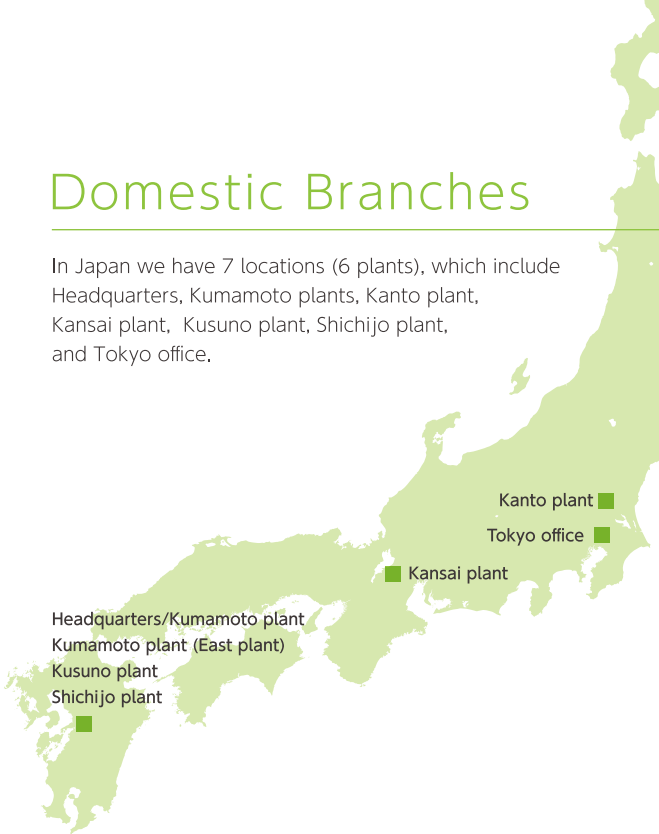
Hirata Mechanical Equipment Sales (Shanghai) Co., Ltd. (China)
Est.1999
<http://www.hirata-hme.com>

Taiwan Hirata Corporation (Taiwan)
Est.2006
<http://www.hirata.com.tw/>



Domestic Branches

In Japan we have 7 locations (6 plants), which include Headquarters, Kumamoto plants, Kanto plant, Kansai plant, Kusuno plant, Shichijo plant, and Tokyo office.



Headquarters/ Kumamoto plant
Est.1964



Kumamoto plant (East plant)
Est.1988



Kusuno plant
Est.1984



Shichijo plant
Est.2008



Kanto plant
Est.1968



Kansai plant
Est.1981



Tokyo office
Est.2016



Domestic subsidiaries

Domestic subsidiaries with knowledge of "Hirata-ism" work closely with us in various fields of industry.

Taihei Technos Co., Ltd.
Est.1980
<http://www.taiheitechnos.co.jp>



Hirata Field Engineering Co., Ltd.
Est.1999 <http://hirata-fe.com>



Trinity Inc.
Est.1986
<http://www.3inc.jp>



North America

Hirata Corporation of America (USA)
Est.1980



Indianapolis office



Detroit (New Hudson) office

Hirata Engineering S.A.De C.V (Mexico)
Est.2000