



Corporate Profile
Seiko Instruments Inc.

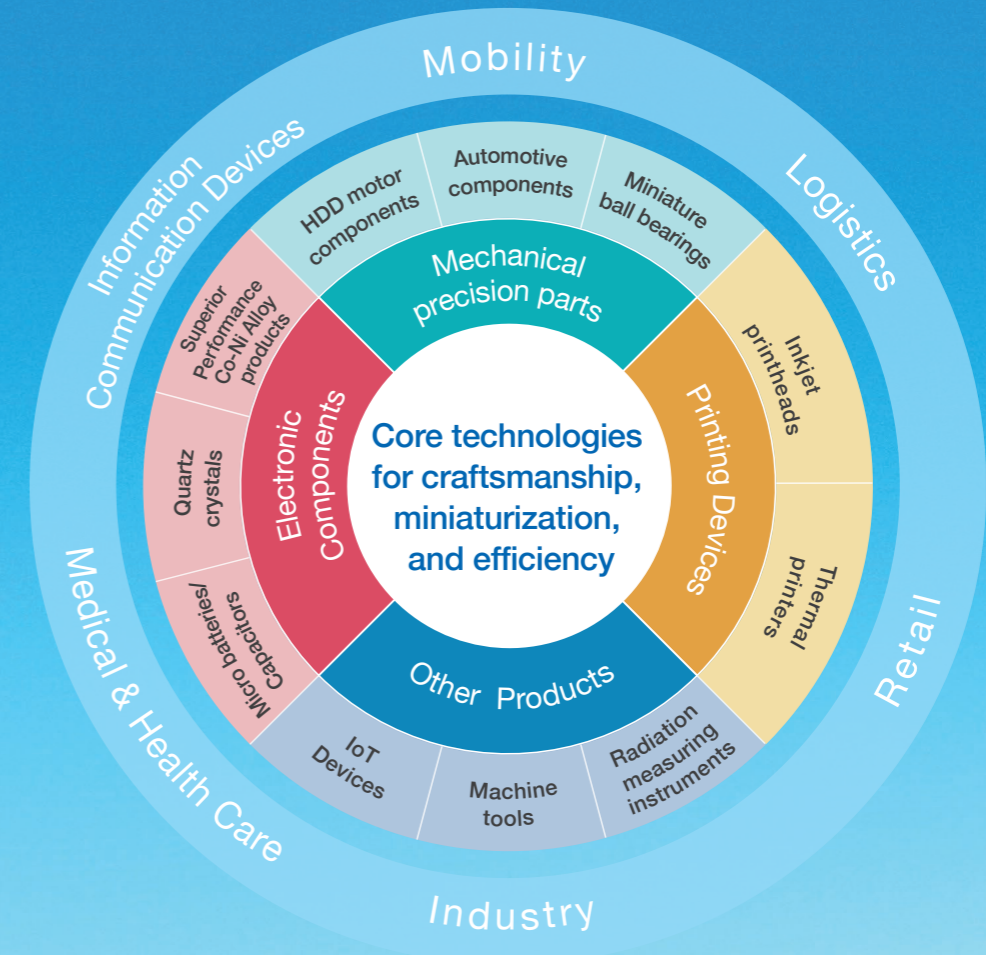
Advance the core technologies for craftsmanship, miniaturization, and efficiency to contribute to the building of a sustainable society

SII, founded in 1937 as a member of the Seiko Group specializing in the manufacture of watches, has leveraged its core competency in high precision watches to create a wide range of new products and technologies.

With the development and manufacturing of watches requiring high accuracy and precision as our base, over the years SII has developed miniature, low-power-consumption electronic components and mechanical precision parts that pride themselves on their submicron processing capability. Optimizing our extensive experience and expertise, we have since diversified into such new fields as printing devices adapted to diverse output needs.

In our surrounding environment, the state of the industries and lifestyles is changing with the evolution of technologies, including IoT, next-gen mobility, and health care.

Playing a central role in the Devices Solutions Domain of the Seiko Group, SII advances core technologies for craftsmanship, miniaturization, and efficiency to contribute to the building of a sustainable society.



Core technologies for craftsmanship, miniaturization, and efficiency

- Craftsmanship to create new value with fine skills and know-how
- Miniaturization to produce smaller products with precision processing and high-density mounting technologies
- Efficiency to make efficient use of materials, energy, and other resources

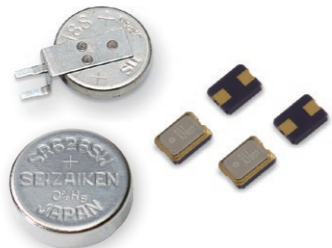


Electronic Components

Based on our achievements cultivated through watch development and manufacturing, we provide miniature, high-quality electronic components for a wide range of applications, such as information and communication devices, industrial equipment, automotive equipment, and medical devices.

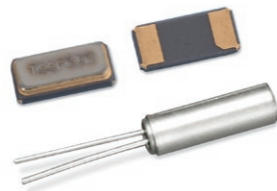
Micro Batteries/Capacitors

Our high-quality silver-oxide batteries and lithium rechargeable batteries are used in various devices, including IoT devices and medical devices.



Quartz Crystals

The features of tuning fork quartz crystal resonators are their miniature size and low power consumption. With the growth of IoT in recent years, they are now used in a variety of devices.



Superior Performance Co-Ni Alloy Products (SPRON)

This alloy is used for such applications as watch springs, industrial valves, and medical equipment, making full use of its various qualities, such as high elasticity and high corrosion resistance.



Rare Earth Magnets (DIANET)

Possessing excellent corrosion resistance and heat tolerance, these magnets are widely used in various applications, including magnetic sensors and automotive products.



Topics



Development of the world's first MS lithium rechargeable battery compatible with reflow mounting

We successfully developed MS (manganese-silicon) lithium rechargeable batteries which, compared with the ML (manganese-lithium aluminate alloy) batteries previously used for reflow mounting, have higher voltage, greater capacity, and a superior charge/discharge cycle. This development enables automatic mounting on circuit boards, contributing to the reduction of manufacturing lead time and consistency of quality.

Topics

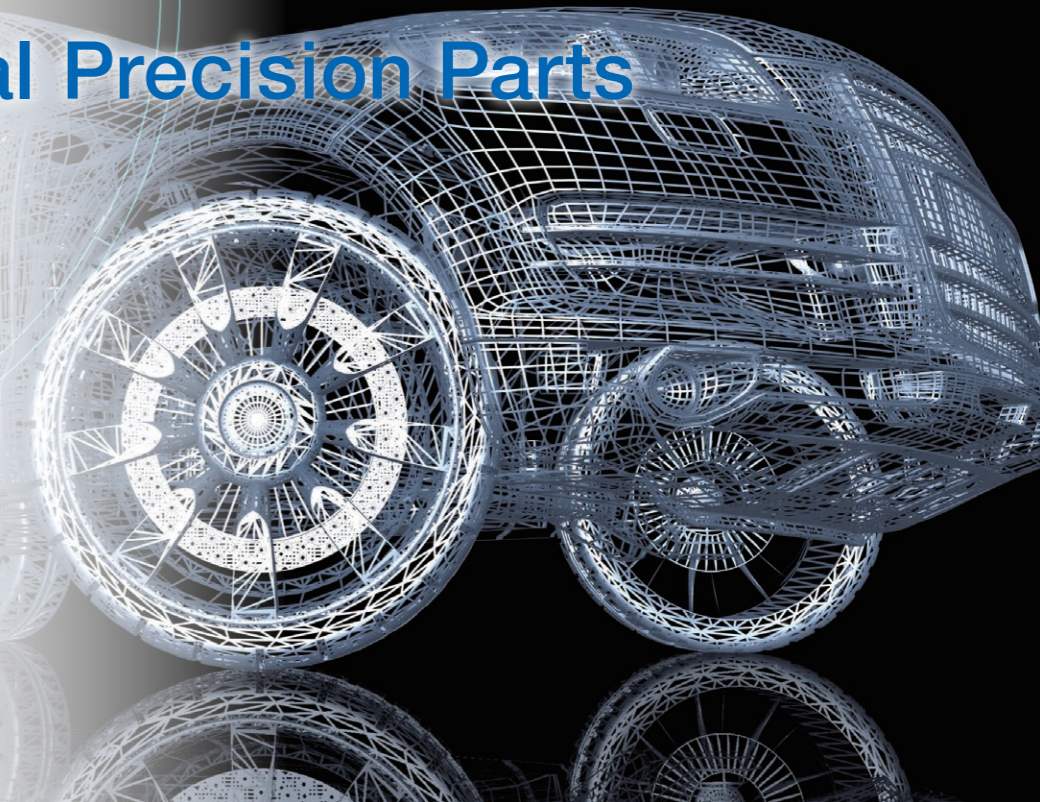


Establishing advanced skills and technology in bearing manufacturing through more than 50 years of developing manufacturing equipment

Since 1967, we have been providing bearing manufacturers with grinding machines and bearing FA assembly machines, contributing to the expansion of the industry. Based on this manufacturing technology, we commenced manufacturing and sale of ball bearings in 2000. We produce high quality products assembled in the industry's most state-of-the-art high-level clean rooms (Class 100, ISO Class 5).

Mechanical Precision Parts

Using precision processing technologies developed with watch manufacturing, we provide HDD components, miniature ball bearings, and automotive components that require high precision and high quality.



Automotive Components

We provide high-quality, high-reliability ABS brake components, engine components, electric vehicle components, and other components that meet the automotive industry international quality standard IATF 16949.



HDD Motor Components

Utilizing our strength in high-precision machining, we provide HDD motor parts for data centers that are continually expanding their capacity.



Pivot Assembly

We provide the global market with components used for the pivots of HDD actuators fitted with magnetic heads.



Miniature Ball Bearings

We provide miniature ball bearings for devices such as miniature fan motors, which can expect to see increased demand with the increasing implementation of ICT and IoT.



Thermal Printers

Thermal printers, which print by applying heat to thermal paper, are compact, extremely quiet, and easy to maintain. Because of these features, they are widely used in devices such as POS registers and payment terminals.



Mobile Printers

Mobile printers are compact and lightweight, making them easy to carry about. Through the expansion of the smart device market, these products are helping to spread new work styles.



POS Printers

The first in the industry to adopt a cube concept, with stylish design and functionality, these printers can accommodate various printing needs.



Smart Label Printer

A label printer that supports restick linerless labels. It also supports printing on regular labels with liner and receipt paper.



Printer Mechanisms

We provide optimal low-voltage operation printer mechanisms for electronic payment terminals, etc., and optimal printer mechanisms for POS systems, etc.



Topics



Reducing the environmental burden by eliminating waste from liners

The SLP720 series of smart label printers supports printing on linerless labels that can be restuck again and again. Since waste from liners is eliminated and label length can be adjusted to the quantity of printed information, there is no waste of paper and the burden on the environment is reduced.

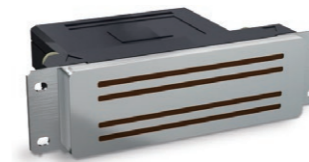
Inkjet Printheads

By developing and providing industrial inkjet printer heads that perform printing by accurately projecting tiny droplets of ink, we are helping to improve productivity and quality in industries such as the building materials and advertising board industries.



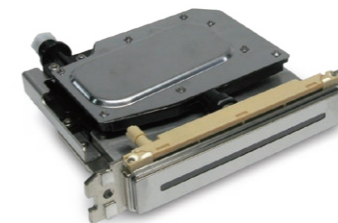
RC1536 Series

This is our flagship model that is driving the building material and package markets with its large-capacity ink ejection and compatibility with a wide variety of ink types.

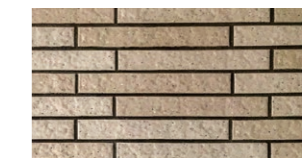


510GS Series

This is our standard model that supports productivity through its long-term reliability and stable continuous ejection.



Applications



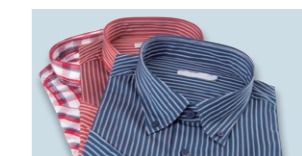
Ceramic tiles

Capable of printing multicolor patterns onto building tiles and exterior boards with uneven surfaces.



Sign graphics

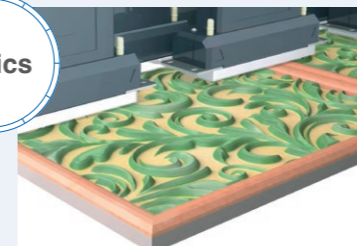
Used for high-resolution, high-durability, large-scale signage printing, etc.



Textiles

Enables on-demand production adaptable to various materials and purposes.

Topics



Industry's top-class high-flow ink circulation structure

The RC1536 Series adopts a structure that enables high-flow circulation of ink. Even for fast-drying inks, drying at the nozzle is suppressed so that even when using inks with high pigment concentrations, the risk of blockage is greatly reduced. It is also capable of stable continuous ejection, from small to large droplets. This enables the creation of industrial printers that can provide highly-reliable, high-speed, high-density printing.

IoT Devices & Solutions

We provide IoT devices such as wireless sensor network devices and beacons to contribute to the development of a wide range of solutions.

Wireless Sensor Network

Network devices used to visualize levels such as temperature, humidity, CO₂, and gas, and control Modbus devices using the 920 MHz frequency band.



Beacons

Information transmission devices powered by solar energy and that use Bluetooth Low Energy technology.



Radiation Measuring Instruments

We provide sale and support of cutting-edge radiation measuring instruments within Japan, helping people to live in safety and peace of mind.

Food and Environmental Radiation Measuring Instrument

This is a system designed to perform food and environmental gamma-nuclide analysis for food product manufacturers, inspection agencies, health institutions, and electric power companies.



Beta Radiation Measuring Instrument

This is a system for quick and easy analysis of radioactive strontium and other beta nuclides.



Machine Tools

Our internal grinders are used by manufacturers in various areas, including automotive parts and bearings, and contribute to high-precision manufacturing.

CNC General-Purpose Internal Grinders

Compact and energy-efficient grinders. Using our company's own high-rigidity spindles, these units enable high-precision, high-efficiency grinding.



High-Frequency Spindles

Possessing ultra-high precision, high-output, and high-rigidity spindles are capable of a range of work, from high-speed roughing to precision finishing.



Metronomes & Tuners

To help numerous people take up music, we provide musical instrument accessories that combine ease of use and appealing design.

Metronomes

These devices are used to help keep time when playing a musical instrument. We have a wide range of metronomes, from pendulum types to electronic types.



Tuners

These are meters used to indicate the pitch of sound by a needle or number when tuning an instrument. We have a wide variety to suit various types of musical instruments.



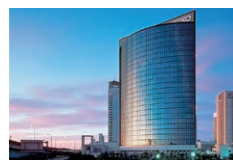
Global Network

Creating New Future with a Global Vision

SII, with its factories, offices and employees around the world, operates on a global scale. In today's increasingly borderless world, SII is focused on responding to customer needs with a global vision. Our international perspective drives the creation of new SII technologies, products, and services.



Japan Sites



Head Office & Makuhari Unit



Ohno Unit



Takatsuka Unit



Sendai Unit



Akita Unit



SII Crystal Technology Inc.

Overseas Sites



Seiko Instruments U.S.A., Inc. (U.S.A.)



Seiko Instruments GmbH. (Germany)



Seiko Instruments Singapore Pte. Ltd. (Singapore)



Seiko Instruments (Thailand) Ltd. (Thailand)



Seiko Instruments Trading (H.K.) Ltd. (Hong Kong)



Seiko Instruments (Shanghai) Inc. (China)



Seiko Instruments Technology (Shanghai) Inc. (China)



Dalian Seiko Instruments Inc. (China)

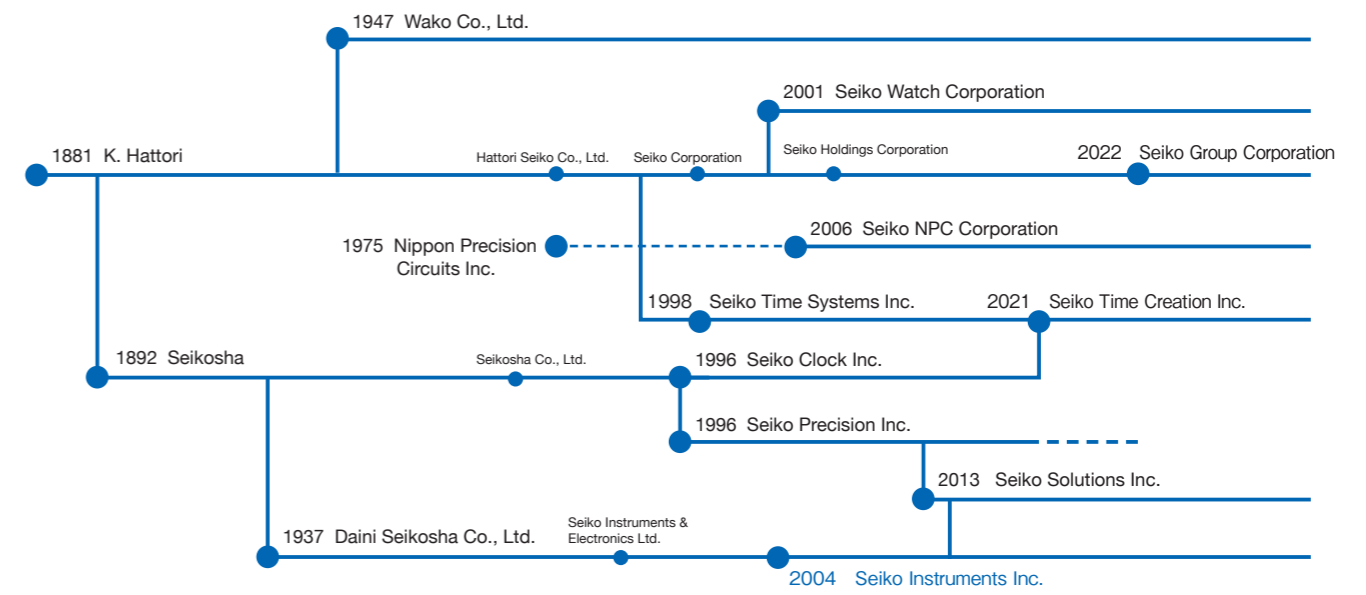


Seiko Instruments Taiwan Inc. (Taiwan)

History

- 1937** Daini Seikosha Co., Ltd. (currently Seiko Instruments Inc.) was established as the wristwatch manufacturer for K. Hattori & Co., Ltd.
- 1939** Completed head office factory in Kameido, Tokyo.
- 1964** Served as Official Timer for the Tokyo Olympics.
- 1968** Established Precision Engineering Ltd. as the electronic components manufacturing company (currently Seiko Instruments (H.K.) Ltd., selling electronic components).
- 1970** Released the world's first quartz watch using a CMOS IC.
- 1973** Established Singapore Time Pte. Ltd. (present-day Seiko Instruments Singapore Pte. Ltd.) as the watch manufacturing company (currently manufacturing thermal printers).
- 1981** Established Seiko Instruments U.S.A., Inc. as sales company of diversified products in North America.
- 1983** Established Seiko EG&G Co., Ltd. as a joint company between Seiko Instruments Inc. and EG&G Inc. (currently Perkin Elmer Instruments).
- 1983** Established Seiko Instruments GmbH in Germany as sales company of diversified products in Europe.
- 1983** Company name was officially changed to Seiko Instruments & Electronics Ltd.
- 1984** Established Seiko Precision Co., Ltd. as the electronic components sales company (currently Seiko Instruments Taiwan Inc.).
- 1988** Established Seiko Instruments (Thailand) as the watch components manufacturing company (currently manufacturing HDD components, etc).
- 1989** Established Dalian Seiko Instruments Inc. as the watch components manufacturing company (currently manufacturing watch components and automotive components).
- 1990** New corporate brand name " SII ● " adopted as official acronym of Seiko Instruments Inc.
- 1993** SII Head Office was relocated to Makuhari.
- 1997** Company name was officially changed to Seiko Instruments Inc.
- 2001** Established SII Printek Inc. as the manufacturing and sales company of printhead products.
- 2005** Established Seiko Instruments (Shanghai) Inc. as the electronic components sales company.
- 2006** Established Seiko Instruments Technology (Shanghai) Inc. as the electronic components manufacturing company.
- 2009** Became a wholly-owned subsidiary of Seiko Holdings Corporation (currently Seiko Group Corporation).
- 2013** Established SII Crystal Technology Inc. as the manufacturing company of quartz crystal products.
- 2020** Transferred the watch business to Seiko Watch Corporation.

Genealogy of Seiko Group





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