



KOHOKU KOGYO CO.,LTD.

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About Us

Aiming to be a quality company

Kohoku Kogyo is a leading manufacturer of lead terminals for aluminum electrolytic capacitors, which are required in various electronic devices, and optical components and devices, which support the global information and communications infrastructure.

We continue to create products that are favored throughout the world with our strong individuality and proprietary technology.

Global Niche Top.

We are proudly expanding global operations for the contribution to the world.

Since the foundation in 1959, Kohoku Kogyo has manufactured and marketed lead terminals for aluminum electrolytic capacitors that are indispensable to all kinds of electronics products. Also, we expanded our business to the optical communication field by utilizing precision machining technology cultivated in our main business to endeavor the development of high value-added products. Our management philosophy focuses on "through the creation of new value and aim to become an Only One Corporation." We will continue further efforts to develop the electronics and communication industry and contribute to the future society through practice management principle where all member participate by making use of each employee's rich originality.

President and CEO
Futoshi Ishii



Management Philosophy

Respect individual diversity and practice management principle where all member participate, through the creation of new value and aim to become an "Only One Corporation"

Respect individual diversity

Aim to achieve management goals by fostering human resources which make full use of the individual employees' talent, enhance their role awareness and create a workplace where each individuality can be demonstrated.

Practice management principle where all member can participate

Create a free and open discussions, work as a team and cooperate with one another to strive to achieve the goal. Empower and give authority to the right person and create an efficient business operation system.

Through the creation of new value

Anticipate changes in society, conduct speedy research and development and always provide a unique product. Utilize knowledge and skills to actively participate in improvement activity and improvement proposal.

Aim to become an "Only One Corporation"

Aim to be the world's leading company in the niche field and realize a high value added company.

What Kohoku Kogyo is capable of

Manufacturing and marketing of lead terminals for aluminum electrolytic capacitors

Kohoku Kogyo's lead terminals for aluminium electrolytic capacitors are widely used in a diverse range of electronic devices worldwide, including in the automotive and AI server sectors. Drawing on our in-house designed production facilities and many years of expertise, we continue to meet the varied demands of numerous industries, and our production volume represents the largest global market share.

Manufacturing and marketing of optical components and devices for optical fiber communication network

Information and communications technology, which has now become a vital part of our social infrastructure, is underpinned by a global network of fiber-optic cables. Kohoku Kogyo's optical components and devices are used in these fiber-optic networks, playing a key role particularly in submarine cables, where exceptionally high reliability is required.

Manufacturing and marketing of high-purity quartz glass for various industrial equipment and specialized fibers

High-purity quartz glass products are used in a wide range of industrial applications, including semiconductor manufacturing equipment, medical equipment, optical fibers and various other industrial applications; however, they are said to be difficult to process and challenging to mold into complex shapes.

At Kohoku Kogyo, we are creating new possibilities through our proprietary 'Slurry Cast' manufacturing process.

KOHOKU'S KEYWORD

Business

Lead terminals for aluminum electrolytic capacitors

Superior manufacturing technology supports various types of devices with the global share of 60% or more

In the market for aluminum electrolytic capacitors --an essential component in all electronic devices --demand for high-performance products, characterized by high efficiency and reliability, is accelerating, particularly in the automotive sector, where electrification is advancing rapidly, and in the AI server and data center sectors.

Kohoku Kogyo, leveraging the technical expertise cultivated over approximately 70 years through the in-house development of production equipment, delivers industry-leading, high-performance and highly reliable products, thereby contributing to the improvement of the characteristics and environmental performance of aluminum electrolytic capacitors.

Furthermore, with a production capacity exceeding 5 billion units per month, we support the market with an overwhelmingly stable supply system.

Core technologies for lead terminals for aluminum electrolytic capacitors

Since our foundation, we have continuously refined the technologies required for the manufacture of lead terminals for aluminum electrolytic capacitors.

- High-speed, high-reliability welding technology for dissimilar metals, achieving a rate of 300 units per minute
- An integrated production system based on our in-house development of welding and pressing machines, as well as cleaning and chemical treatment equipment
- Achieving high-efficiency capacitors through improvements such as reduced leakage current characteristics



Business

Optical components and devices

Kohoku Kogyo's optical devices underpin the world's information infrastructure: the submarine cable network

As the world becomes increasingly borderless, submarine cable networks --which account for 99% of intercontinental data communications --are becoming ever more vital. Kohoku Kogyo's optical isolators hold a market share of over 50% worldwide, underpinning the global information infrastructure.

We have achieved high reliability and quality with 25 years of maintenance-free operation, whilst continuing to pursue technological development to meet the demands of expanding data communication capacity.

Our efforts in manufacturing

- We have entered the fields such as undersea cables and data centers at an early stage and achieved the trust of our customers with many records.
- We have established high-quality products and reliability with integrated manufacture from element production to device assembly.



Core technologies for optical components and devices



We manufacture and distribute optical components such as optical fiber terminals and optical devices such as optical isolator based on the following core technologies:

- An optical device platform capable of 25 years of maintenance-free operation at a depth of 8,000 meters
- Technology combining high-performance optical elements with precision assembly and alignment

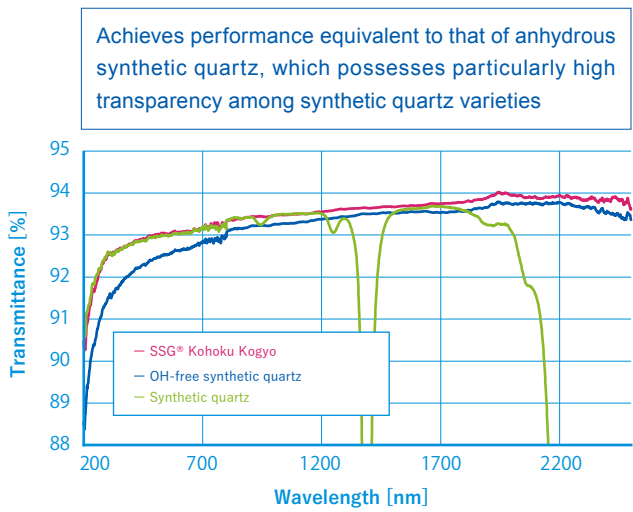
Business

The "SSG®" High-Purity Quartz Glass Business

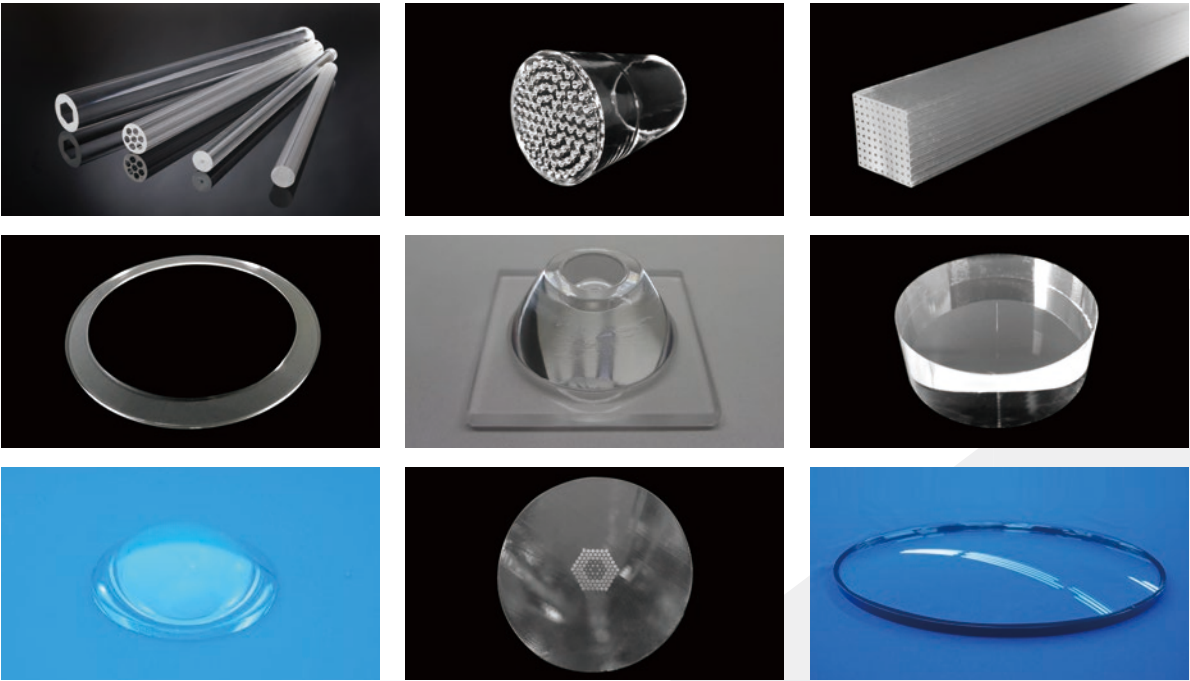
Towards a new pillar of growth

Through the development of our proprietary molding process, the 'slurry casting method', we have significantly enhanced our molding capabilities and are pioneering new markets for high-purity quartz glass.

Kohoku Kogyo has successfully developed a manufacturing technology for high-purity quartz glass using the 'slurry casting method', in which the material is injected into a mold in liquid form and subsequently vitrified. As the range of applications requiring high-purity quartz glass expands - including semiconductor manufacturing equipment and specialty fibers -- 'SSG®', which offers properties similar to those of anhydrous synthetic quartz, is attracting attention from various industries.



Examples of Kohoku Kogyo high-purity quartz glass "SSG®" products



Research & Development

Examples of Research and Development

Theme: Reliability in 'Extreme Environments'

Optical devices for satellite communications

We develop devices designed to operate in extreme environments, such as those involving vacuum, radiation and extreme temperatures, and supply samples to research institutions and satellite equipment manufacturers both in Japan and overseas.



WDM Filter



Optical isolator

Theme: Development of Next-Generation Materials

'PLZT'* - A Material for Ultra-High-Speed Communication Devices

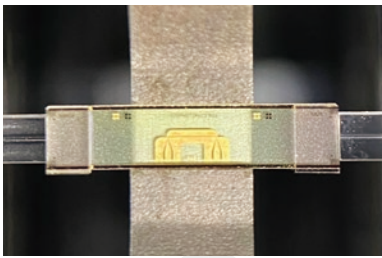
We have developed single-crystal PLZT thin films with excellent electro-optic properties and high light transmittance. These are expected to serve as optical waveguide substrates that will contribute to improved computational performance and reduced power consumption in next-generation AI servers and optical quantum computers.



PLZT Thin Single-Crystal Wafers



Optical Modulators



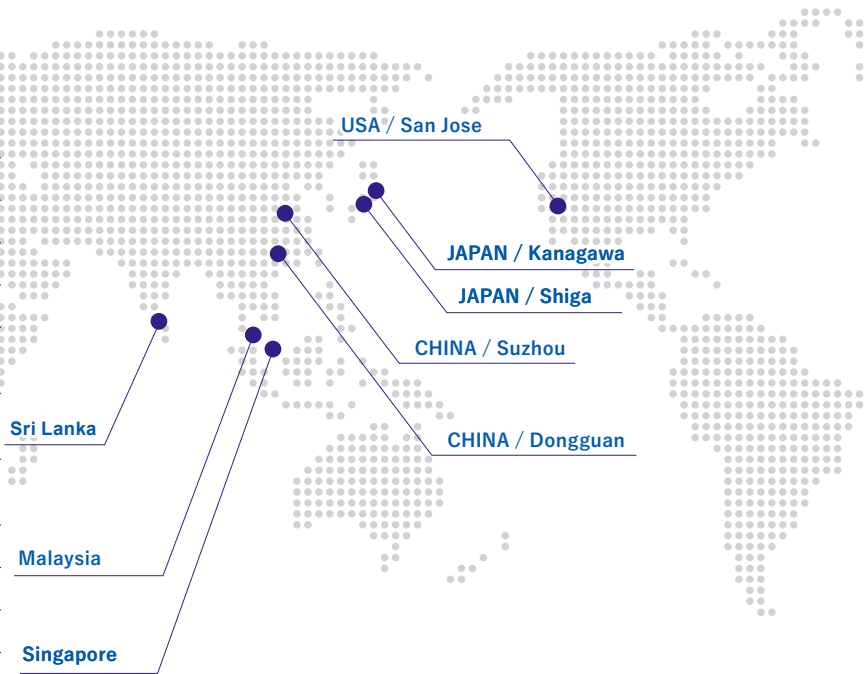
Optical Modulator Chip

* PLZT: Lead Lanthanum Zirconate Titanate

Company Profile

Company Profile

Name	KOHOKU KOGYO CO.,LTD.
Foundation	August 8, 1959
Representative	Futoshi Ishii
Capital	350 million yen
Location of the Headquarters	1623, Takatsuki, Takatsuki-cho, Nagahama-shi, Shiga, 529-0241, Japan
Business	Manufacturing and marketing of lead terminals for aluminum electrolytic capacitors Manufacturing and marketing of optical components and devices for optical communication
Group companies	KOHOKU ELECTRONICS (S) PTE.LTD. KOHOKU ELECTRONICS (M) SDN.BHD. DONGGUAN KOHOKU ELECTRONICS CO.,LTD. SUZHOU KOHOKU OPTO-ELECTRONICS CO.,LTD. KOHOKU LANKA (PVT) LTD. EpiPhotonics CO.,LTD. EpiPhotonics USA, Inc.



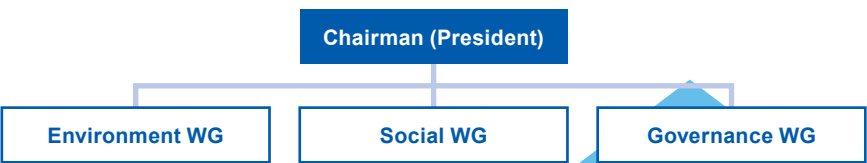
Company History

August, 1959	Founded at 8 Takatsuki-cho, Nagahama-City.
May, 1961	Relocated a new facility at the current place.
August, 1974	Extended a new manufacturing facility for lead terminals.
December, 1987	Established a subsidiary KOHOKU ELECTRONICS (S) PTE. LTD. in Singapore.
July, 1991	Completed new building for administrative office and R&D at the Headquarters.
September, 1994	Established a subsidiary KOHOKU ELECTRONICS (M) SDN. BHD. in Malaysia.
November, 1997	ISO 9001 certification.
May, 1998	Completed the extension at the Headquarters' facility.
September, 2000	Started Optical Components and devices Business Division.
December, 2000	Established a contract manufacturing factory, Kohoku Electronics (CD) (current DONGGANG KOHOKU ELECTRONICS CO., LTD.) in Dongguan, China.
June, 2002	Established a subsidiary SUZHOU KOHOKU OPTO-ELECTRONICS CO., LTD. in Suzhou, China.
August, 2005	ISO 14001 certification.
October, 2012	Reorganized Kohoku Electronics (CD) into an independent corporation, leads to a subsidiary company DONGGUAN KOHOKU ELECTRONICS CO., LTD.
February, 2015	Received assignment of the optical component business of FDK Corporation and its subsidiary company FDK LANKA (PVT) LTD. (current KOHOKU LANKA (PVT) LTD.).
November, 2015	ISO / TS16949 (Current IATF 16949) certification.
December, 2021	Listed on the Second Section of the Tokyo Stock Exchange. (Standard market from April 2022.)
July, 2023	Relocated SUZHOU KOHOKU OPTO-ELECTRONICS CO., LTD., our manufacturing subsidiary in Suzhou, China, to a new factory.
July, 2023	Commenced mass production of aspherical lenses for ultraviolet applications as part of the high-purity quartz glass business.
April, 2024	Acquired EpiPhotonics CO., LTD., which has PLZT technology, as a subsidiary.
November, 2024	Entered into a capital and business alliance with Warp Space Co., Ltd. to develop optical systems for the space communications sector.
January, 2025	Entered into a capital and business alliance with ARIEL Photonics Assembly Limited, a laser systems development company.
December, 2025	Commenced sales of single-crystal PLZT thin-film wafers

Initiatives in Non-Financial Activities

Kohoku Kogyo aims to contribute to the realization of a sustainable society through its business activities, whilst striving to enhance corporate value from a medium- to long-term perspective. Furthermore, in promoting sustainability, we will focus on the materiality issues identified by our Group, centering on the pillars of 'Environment', 'Social' and 'Governance', and practice responsible sustainability management.

Sustainability Committee



Examples of Activities

- Promoting energy efficiency in manufacturing processes
 - Utilizing renewable energy
 - Developing new, high-efficiency products
- Support for nature conservation and the promotion of biodiversity
 - Support for education and culture in local communities, and for sports and cultural



Support for the restoration of vegetation on Mt. Ibuki



Nature conservation activities at the Yamakado water source



Support for elementary school soccer teams

About our corporate mark

Our corporate mark shapes the philosophy of our company and represents our will and spirits.

The diamond shape succeeds the “parallel crosses” which came from the old company emblem, and also imitates the letter “K” of the company initial.

It succeeds the entire philosophy from company foundation, which is to find a point of agreement for the trinity of “customer needs,” “benefits to the employees” and “benefits to the company.”

