

Contribute to society through creation



Corporate Guide

 **SHIHEN TECHNICAL Corporation**

Message from the president



Shihen Technical Corporation
President

松本 浩昌

Hiromasa Matsumoto

Established in 1946 through a joint venture between Daihen Corporation and Shikoku Electric Power Co., Inc., our company became the sole transformer manufacturer in the Shikoku region. We began by repairing pole-mounted transformers and thereafter built an almost eighty-year legacy of contributions to society through the supply of electric power equipment.

We strive to further improve our technology and contribute to society by supplying products in accordance with a corporate creed that calls on us to serve through creative action. Our company philosophy centers on building strong, lasting relationships of trust with stakeholders, which is rooted in the spirit of cooperation and harmony as embodied in our credo of respect, affection, and reliance, and is alive and well as evidenced by our long-standing history and rich traditions.

By consistently meeting the evolving needs of our customers with our comprehensive portfolio of wide-ranging technologies, we have today earned the trust and high acclaim of those customers. Our solutions include electric power equipment that helps to ensure a stable supply of electric energy, power supply equipment that is essential for semiconductor-manufacturing and office equipment, precision molds that make sophisticated press working tasks feasible, and electric water heaters that make comfortable living possible.

There is a strong need for companies like ours to implement comprehensive ESG management practices and pursue carbon neutrality as we seek to realize a sustainable society in response to global concerns about climate change and the need to protect the environment and otherwise address a host of societal issues.

Beyond continuously enhancing the energy efficiency of conventional electric power equipment, we are striving to create new value through our specialized technologies. Our portfolio includes electric power equipment for system storage facilities and wind farms that promote the adoption of renewable energy, transformers that use soil-safe vegetable oil as insulating oil, and environmentally friendly switchboards free of paint and welded parts.

We appreciate your continued support and advice.

Corporate philosophy

創造奉仕

Serving through creation

Shihen Technical Corporation serves society with creativity and ventures into the path of true prosperity and endless happiness through this service.

Company motto

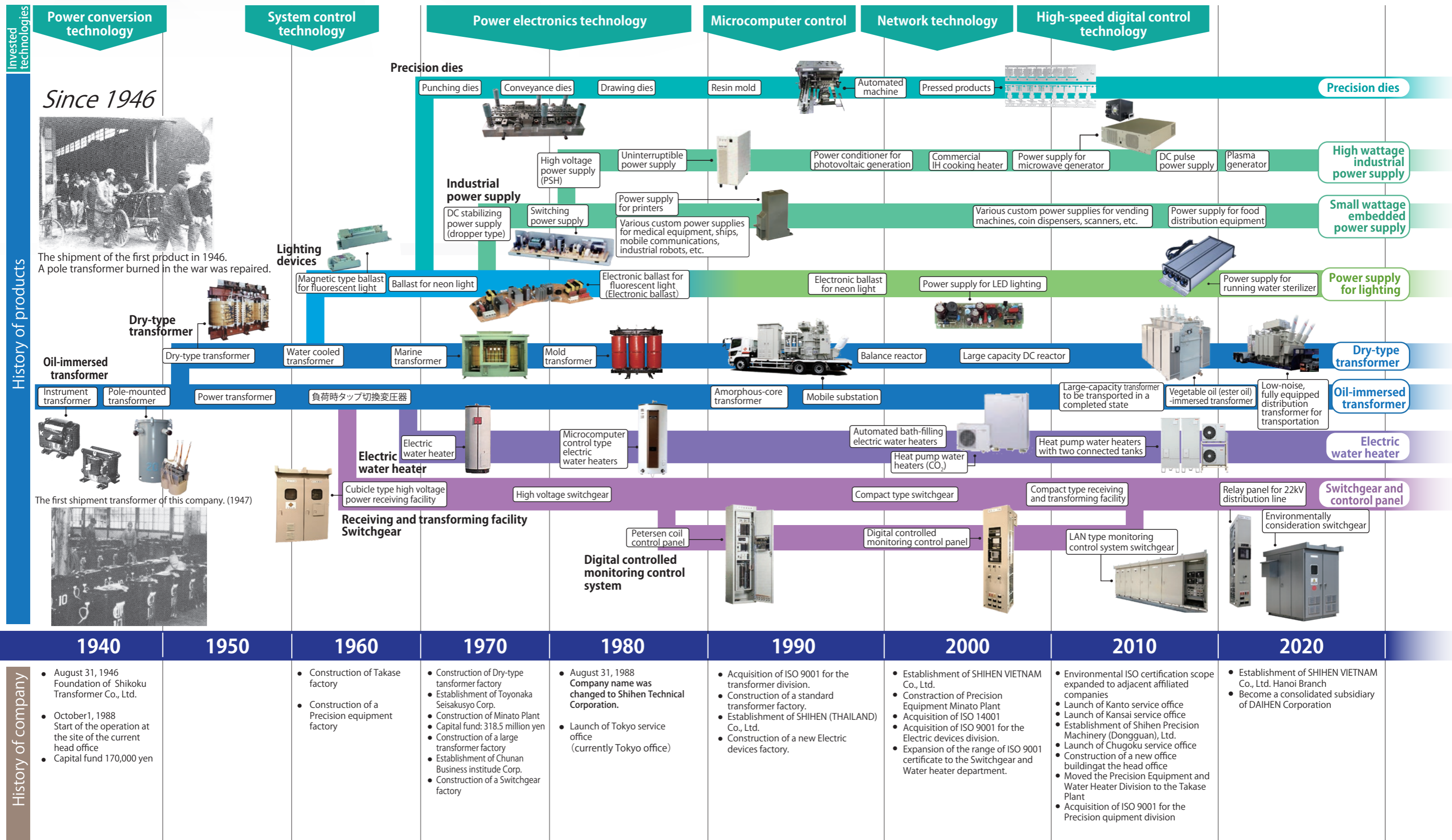
敬・愛・信

Respect, Affection and Reliance

The company cultivates relationships connected by respect, affection, and reliance to work together with society and grow and develop with local communities.

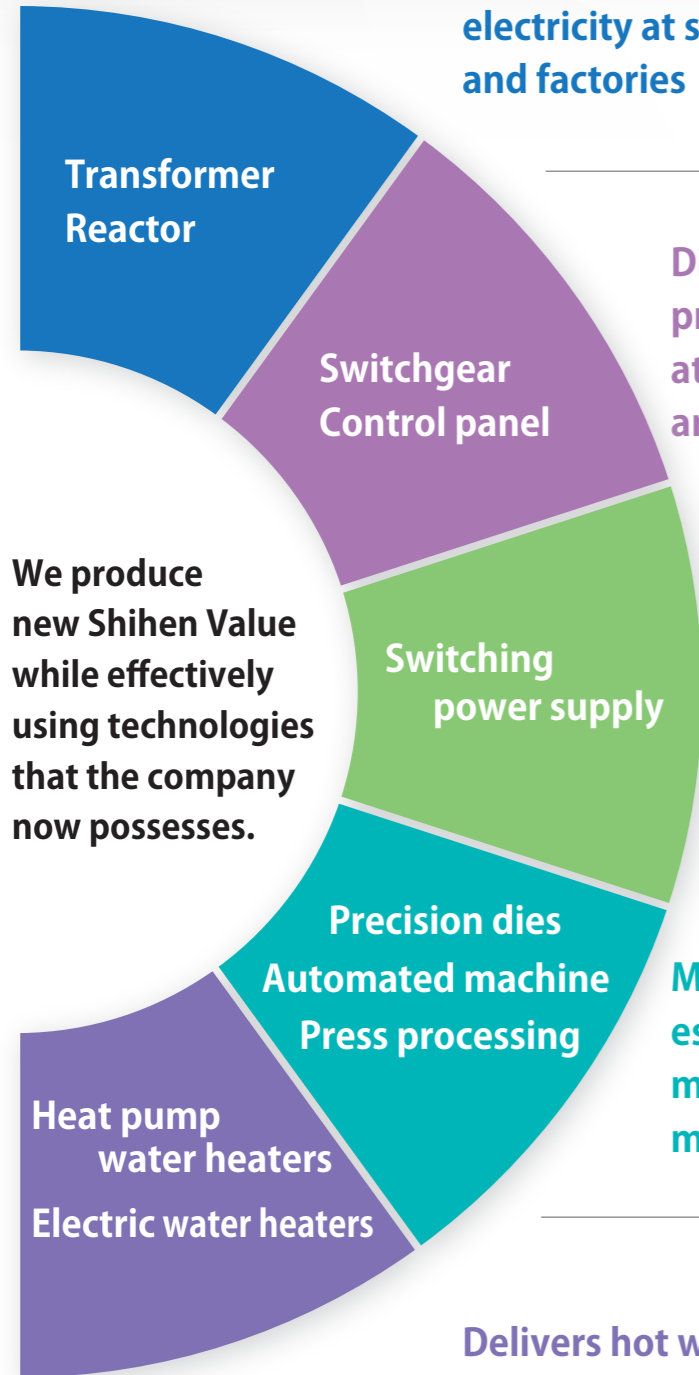
History of products

Since we started repair business for Pole-mounted transformer in 1946, we have combined new technologies with the technology we have cultivated in transformers to create new business areas such as switchgear, electronic



Range of business

Shihen Technical Corporation is working on five business domains based on technologies to ensure stable power supply that the company has accumulated throughout its history.



We produce new Shihen Value while effectively using technologies that the company now possesses.

Used for converting and controlling electricity at substations, utility poles, and factories



Large transformer



High efficiency-type (Top Runner) oil-immersed transformer



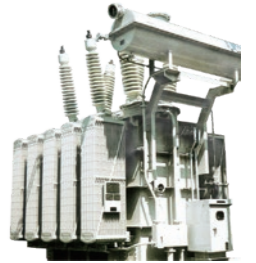
Dry-type transformer



Pole-mounted transformer



Mobile substation



Current-limiting reactor

Distributes, controls, and protects electricity at substations, factories, and offices



Digital controlled monitoring control panel



Extra-high voltage switchgear



High voltage switchgear



LAN systems for substation monitoring

Built-in power supply units support the stable operation of office appliances, LED lights, and industrial machinery



Power supply for commercial label printers



Power supply for printers



Power supply for LED downlights



Power supply for LED ceiling lights (for home use)

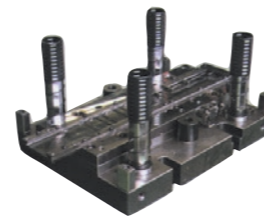


Power supply for vending machines



Power supply for AC adapters

Manufactures dies that are an essential tool in manufacturing and processes metals using these dies



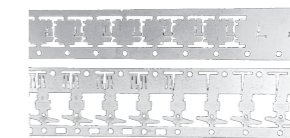
High-speed terminal dies



Conveyance dies



Automated machine and hydraulic press



Pressed products

Delivers hot water anywhere, including the home, stores, and offices



Electric water heater [Square type]



Electric water heater [Cylindrical type]



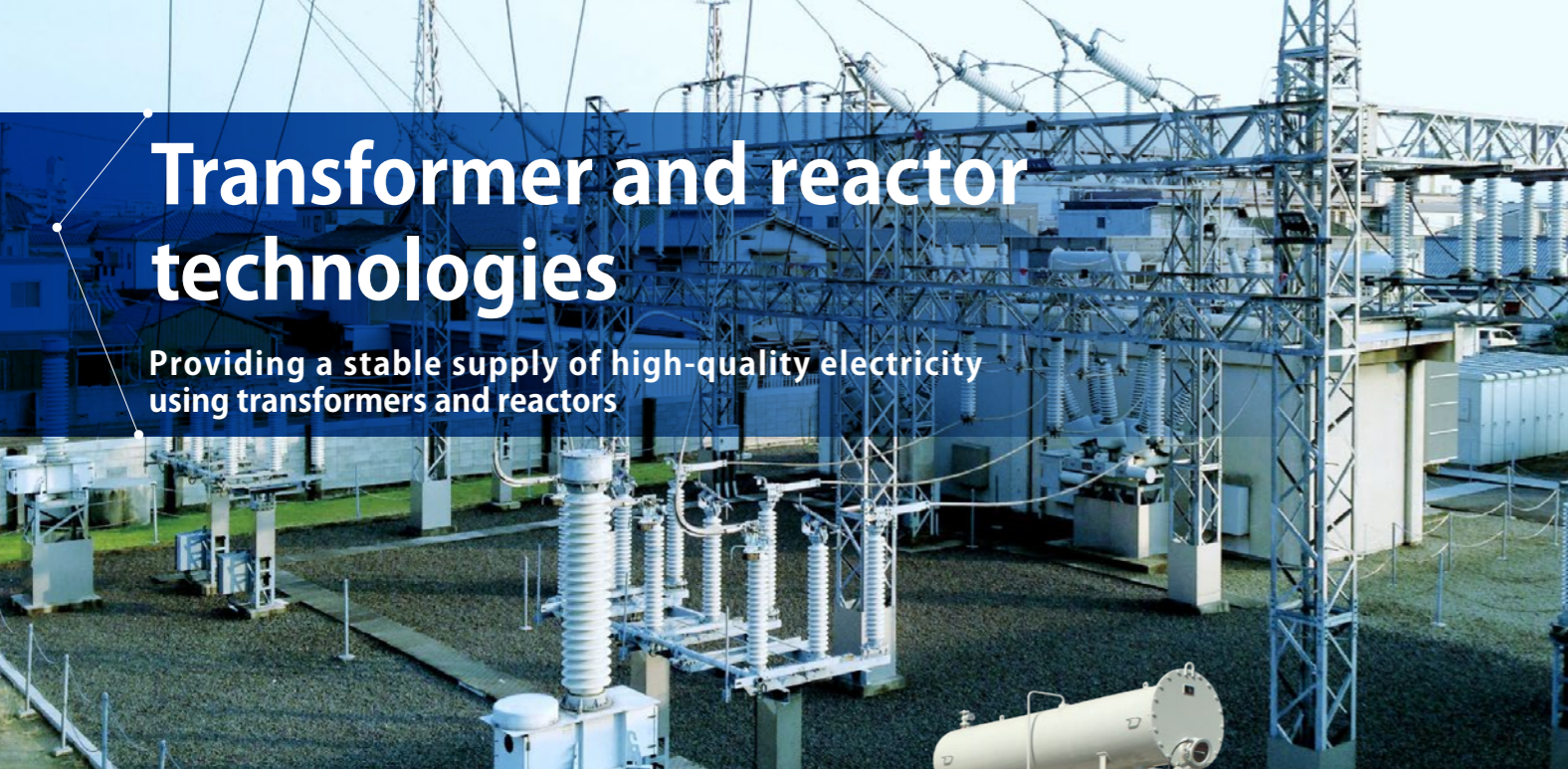
Electric water heater [Small kitchen type]



Heat pump water heaters (CO₂)

Transformer and reactor technologies

Providing a stable supply of high-quality electricity using transformers and reactors

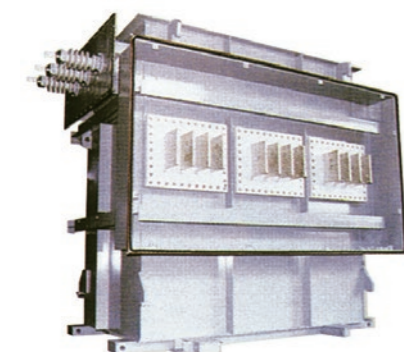


Customized design and technology based on high efficiency type as its standard

- Large-capacity oil-immersed transformers, mold transformers, and type-H dry transformers have the same level of efficiency as high efficiency-type (Top Runner) transformers.
- We can design transformers that achieve the highest levels of efficiency for the expected equivalent load factor of the transformers that our clients use.



66 kV class oil-immersed transformer



Forced-oil water-cooled transformer for a thyristor unit

Technologies for designing transformers for thyristors and inverters

- We design and produce thyristor transformers for such circuits as bridge connections and double star connections as the power supply for rectifiers.
- We also have technologies to design and manufacture output transformers for multiplex inverters to reduce high-frequency wave interference and transformers for IGBT converters of large variable-speed systems.



Installing a transformer



Repairing a switchgear

Support system

Support system for transformers and switchgears

We quickly respond to problems to ensure a stable supply of electricity.

Switchgear and control panel technologies

Supporting industrial development with an integrated production system encompassing everything from the design and manufacture of switchgears and control panel to their installation



33 kV insulation technology

We can design and produce substation equipment used for 33 kV extra-high-voltage circuits.

Developing environmentally friendly products

In answering the clarion call expressed in the Declaration of Carbon Neutrality, we developed environmentally consideration switchgears using paint-free and weld-free structures and eco-friendly electrical wires in response to the demand for environmentally friendly products in the category of power-distribution equipment.



Environmentally consideration switchgear

Accommodating reductions in the size of distribution substations

By using compact transformers, switchgears, and aluminum-packaged control panels, we have been installing (single-line) distribution substations within tower sites (approximately 260 square meters each) used with 66 kV transmission lines.



66 kV transmission tower



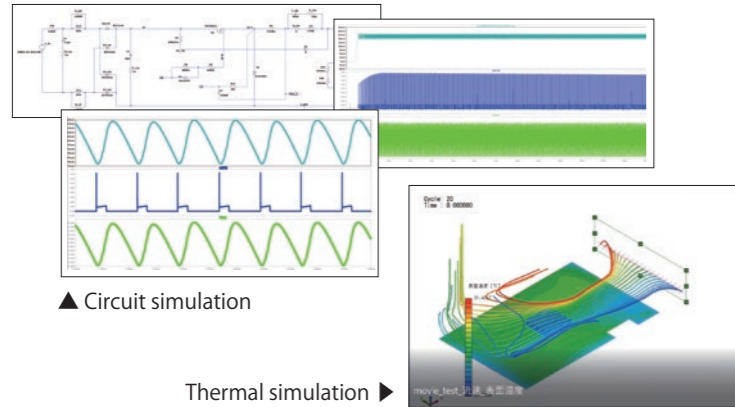
A substation on the site of a transmission tower

Switching power supply technologies

Supporting power supply with optimal designs to meet the low-capacity to high-capacity needs of customers by harnessing our extensive knowledge and experience

Electronic circuit design and verification technologies

We can shorten development cycles and achieve optimal designs by using circuit simulation software, thermal simulation software, shielded rooms, and more.



▲ Shielded room

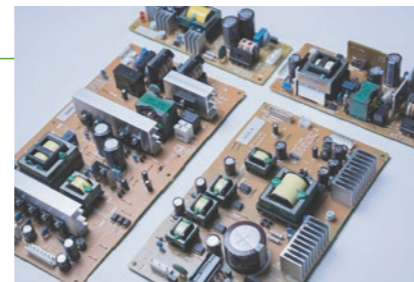
Measurable test items

- Noise terminal voltage
- Radiated noise electromagnetic field strength
- Noise power



DC stabilizing power supply

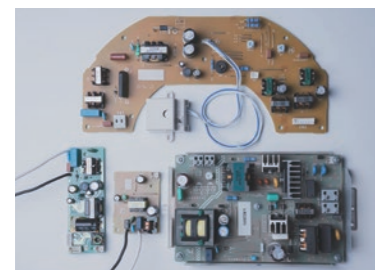
- We can design and produce power supply for various purposes. We engage in optimal design work for not just electric circuits but also switching transformers.
- We provide products that satisfy the standards of an energy-saving program thanks to designs that minimize power consumption during standby.
- By ensuring compliance with safety standards applicable in countries around the world, we achieve global compatibility.



DC stabilizing power supply

Power supply for LED lighting

- We harness DC stabilized power supply technologies cultivated over many years to reduce costs and realize compact designs.
- Our proprietary microcontroller software design allows us to offer various lighting fixture functions, including dimmer control and wireless connectivity.
- We provide products for outdoor lighting with waterproof and dustproof features.



Power supply for LED lighting

Power supply for semiconductor manufacturing

- Know-how pertaining to inverter and control technology cultivated over many years makes it possible for us to design high-voltage power supply.
- By applying advanced system design technologies, we optimize circuit and software design.



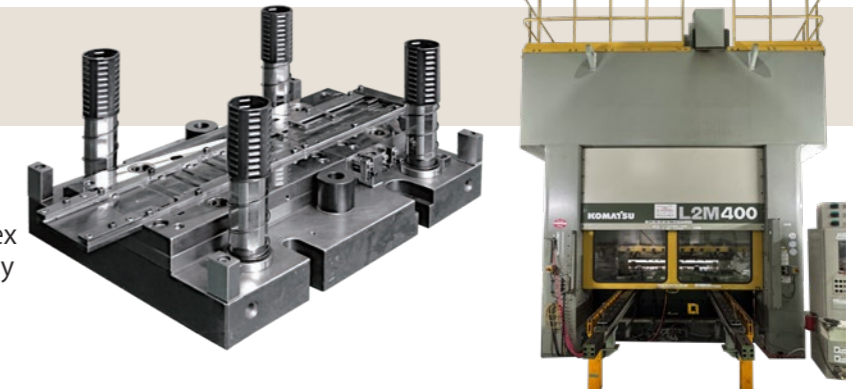
Power supply for semiconductor manufacturing

Precision dies, Automated machine, Press processing

Realizing high-precision, complex precision press dies with proven technological capabilities and craftsmanship

Precision press dies technologies

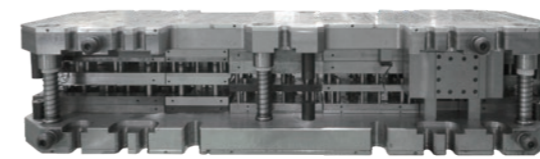
In 1970, we began producing precision press dies. We now provide high-precision, complex dies reflecting the accumulation of many years of technology.



400 ton press machines

Progressive press dies

Progressive press dies are high-value-added dies that can be used to achieve higher working speeds, labor savings in downstream processes, and improved yield rates. Dies up to and including the 400-ton class of dies (die sizes of 2,400 mm) can be manufactured. We also propose solutions to help improve our customers' productivity with our suite of outstanding technological capabilities, including in-mold bonding for which multiple coil materials are harnessed.



Precision dies for automotive connector cases



Precision dies for power equipment

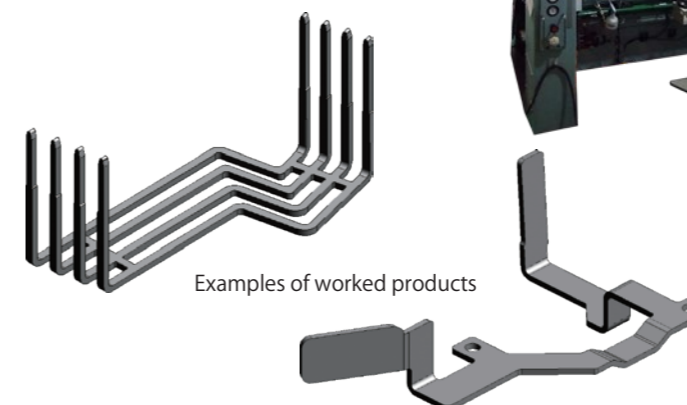
Press processing

We possess around 40 press machines that weigh between 3 and 400 tons and that meet all your needs, including progressive processing, single-hit processing, deep drawing, and high-speed processing.

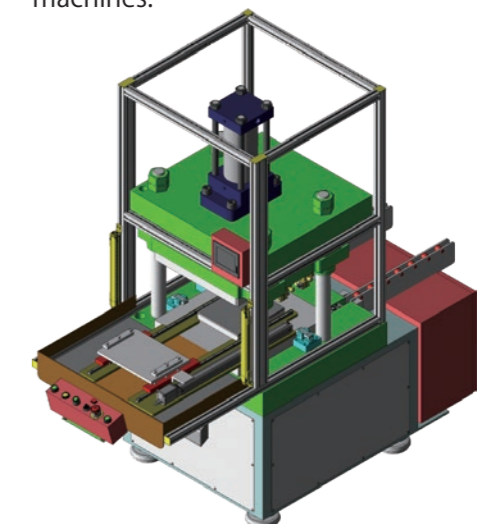


Press machine and automated machine

We provide automated labor-saving, high-value-added, custom-made press machines, and automated machines.



Examples of worked products



Providing heat pump water heater and electric water heater

Safe, clean, and economical
Helping people lead comfortable lives
with electrically heated hot water



A clean and efficient integrated production line

We engage in highly efficient production operations using know-how based on many years of experience and reliably produce affordable, high-quality products that satisfy the needs of our customers.



Designing and producing customized products

Lower-floor hot water supply system

This system provides hot water to a lower floor by improving the strength of the tanks rather than implementing measures for air valves that are at risk of damage when a water heater supplies hot water to a lower floor.

Commercial parallel hot water supply system

Multiple electric water heaters are connected in series to enable the supply of hot water for extended periods of time at hospitals and other large facilities. Water heaters connected in parallel enable large amounts of hot water to be secured at public baths and other such facilities where large volumes of hot water are needed at once.

Pursuing high quality

We are developing highly efficient, long-lasting products by using our know-how and conducting tests over and over again with the latest equipment to ensure high levels of efficiency and durability under various environmental conditions, such as those that are defined in terms of ambient temperature and water quality.



Commercial parallel hot water supply system



Environmental durability testing using a thermostatic chamber

Products and services that are helping to solve social issues

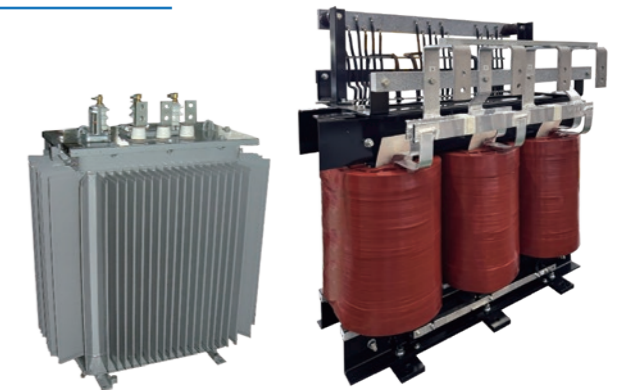
We are meeting the needs of society through the provision of products and services that can help deal with global warming and other environmental issues.

High efficiency-type (Top Runner) transformer

When transforming electricity into a usable voltage, a conversion loss—albeit a very small amount—occurs. A portion of the power ends up being converted into heat that is released into the atmosphere. This conversion loss causes the following adverse effects.

- Wastefully causes CO₂ to be generated during power generation
- Power that is lost through conversion loss is included in the electricity bill

High efficiency-type (Top Runner) transformers are transformers for which conversion losses fall below values set forth by the Act on the Rational Use of Energy. We are continuing to develop such transformers with a view to complying with the Third Judgment Standard, which is to be revised in 2026.



High efficiency-type (Top Runner) oil-immersed transformers

Molded high efficiency-type (Top Runner) transformers

Vegetable oil-immersed transformers

Whereas conventional transformers use a mineral-based insulating oil, these are transformers that use an insulating oil primarily derived from rapeseed oil. They offer the following benefits:

- Since carbon dioxide in the atmosphere is absorbed through photosynthesis as rape blossoms grow, the amount of carbon dioxide that is emitted is one-sixth that of mineral-based oil over the life cycle of the rapeseed plants.
- Since rapeseed oil is broken down by microorganisms in the soil, the environmental impact is minimized even if the oil were to leak from the damage caused by a disaster.
- High flash point lowers the risk of ignition
- Long service life as an insulating oil



Transformer equipped with a 66 kV on-load tap changing

Environmentally consideration switchgear

- Using highly corrosion-resistant plated steel sheets to achieve a paint-free finish that inhibits volatile organic compound (VOC) emissions
- Using a fully weld-free structure to significantly reduce emissions during the manufacturing process
- Using polyethylene resin-coated wires rather than conventional vinyl-coated wires to facilitate recycling



Electric power equipment for renewable energy



We provide transformers and switchgears tailored to the specific characteristics of such renewable energy-generating facilities as solar power plants and wind farms as well as grid-linked storage facilities.

ESG management initiatives

Promoting ESG management in order to continue to serve society

We promote ESG management (Environmental, Social, and Governance) in order to protect the global environment and fulfill our social responsibilities to stakeholders. We will continue to engage in activities in this area with the aim of realizing a sustainable society.



E Environment Environmental conservation initiatives

Since acquiring environmental ISO14001 certification in 2005, we have been evaluating and working to reduce the impact of manufacturing on the environment. In order to address the constantly growing scope of environmental issues, we will continue to gather information and look into effective initiatives.

Acquired ISO14001 certification

Our entire factory complex, which includes not just our company but also affiliated companies involved in our manufacturing process (Shikoku Kosho Co., Ltd., and YOSHINO DENKI KOGYO Co., Ltd.), are working to mitigate our environmental impact.



Initiatives for achieving carbon neutrality

Having ratified the United Nations Framework Convention on Climate Change, Japan has set targets for reducing greenhouse gas emissions (whereby the country should achieve a 46% reduction in emissions by 2030 compared to 2013 levels and carbon neutrality [net-zero emissions] by 2050). To this end, we began by operating factory equipment according to energy-saving principles and have otherwise been working on a number of initiatives, including by making capital investments in a variety of energy-saving equipment, reducing fuel oil consumption through electrification, and utilizing renewable energy.

We harnessed factory rooftop space to install 3,216 250 W solar panels. These panels provide renewable energy with an aggregate maximum generation capacity of 666 kW.



Solar panels (shown in blue)



Working to reduce waste

Our ongoing waste-separation efforts to date have reduced the amount of waste generated by approximately 30% compared to a decade ago. While we promote daily separation activities, improvements in recycling rates have more or less plateaued because of the increase in the volume of waste that is considered difficult to separate. We will continue to undertake new initiatives, such as those that concern plastic separation, and will promote activities to reduce amounts of incinerated waste and waste that is sent to landfills.



For the protection of the local environment

We engage in various activities in order to protect the local environment and build positive relationships with the community.



Volunteering to plant trees



Volunteering to clean up beaches



Cleaning up local rivers

through creative actions

S Social Supporting the growth of a sustainable society

In 1971, the year we commemorated the 25th anniversary of our founding, we changed our corporate motto from "Serve through quality" to "Serve through creative action." Since then, we have been taking on the challenge of serving society through creative action and have continued working to this end.

In response to the increasing sophistication of SDGs and other international initiatives, we are proactively working to reduce our carbon footprint and address human rights.



Establishing a temporary disaster evacuation site

We have concluded an agreement concerning the use of our head office as a temporary evacuation site in the event of a disaster (designated emergency evacuation site) with Tadotsu Town, which is where our head office is located.

We have prepared our three-story main building for use as a temporary evacuation site by local residents in the event of a tsunami or other disaster. The introduction of Daihen Corporation's V2X system (*) has allowed us to supply electricity to the temporary evacuation site from electric vehicles and large-scale storage batteries if a power outage were to occur.

(※) V2X : Vehicle to Everything
System supplying electricity to facilities from electric vehicles



Temporary evacuation site

Supporting activities by organizations making social contributions

Matsumoto Mitsuharu Shoten Co., Ltd., has developed the Ecowa Project, a service for harnessing proceeds from the sale of valuable items to support the activities of organizations making social contributions, including the operators of cafeterias for children.

We also support this initiative and have been participating in it as an Ecowa Corporate Partner in order to contribute to the local community through recycling.



Participating in local events

We regularly participate in the Shikoku Omotenashi Henromichi Walk, an event hosted by the NPO Network for Shikoku Henro Pilgrimage and Hospitality. We walk the approximately 1,200-kilometer-long Shikoku 88 Temple Pilgrimage in sections and conduct inspections of the path for safety, signage, rest areas, and restrooms.



G Governance Aiming to engage in sound corporate management

- Aware of the importance of earning the trust of society, we are committed to reinforcing corporate governance in accordance with the Companies Act (and its enforcement regulations) in order to carry out business activities that are lawful, proper, and efficient. We ensure sound management in connection with the execution of duties by everyone—from the president on down—by ensuring the effectiveness of governance by way of oversight by the Board of Directors and audits by the auditors and by having established an internal audit department.
- We are promoting compliance in management by having enacted the Shihen Technical Code of Conduct and Compliance Guidelines and established the Compliance Promotion Committee and a consultation service desk.
- We engage in initiatives based on the CSR activity policies of Shikoku Electric Power Co., Inc., and Daihen Corporation as a member of the DAIHEN Group and the Yonden Group.

Domestic locations

We render service promptly with an efficient system of production with factories set up near our head office.

Telephone reception hours
09:00 to 17:00
(excluding Saturdays, Sundays, and national holidays)

Contact via email
inquiry@shihen.co.jp



Domestic service offices and plants



Head office area map

Transformer Minato Plant,
Precision Equipment Minato Plant

Takase Plant



Head office / Tadotsu plant

Products handled Transformer, switchgear, and switching power supply

1-97 Sakuragawa 2-chome, Tadotsu-cho, Nakatado-gun, Kagawa 764-8507
TEL: +81-877-33-1212 (main line)

Transformer, switchgear

Electric power equipment business unit sales dept. enterprise sales section #1
TEL: +81-877-33-2525
FAX: +81-877-56-6067

Switching power supply

Electronics products business unit sales dept. sales section
TEL: +81-877-33-2323
FAX: +81-877-33-0775



Takase Plant

Products handled Precision dies, Electric water heater

200-1 Hiji, Takase-cho, Mitoyo-shi, Kagawa 767-0004
TEL: +81-875-72-4111 (main line)

Precision dies

Precision equipment division and sales division
TEL: +81-875-72-4111 FAX: +81-875-72-4110

Electric water heater

Water heater department, sales department
TEL: +81-875-72-4300 FAX: +81-875-72-4302



Transformer Minato Plant

30 Nishiminatomachi, Tadotsu-cho, Nakatado-gun, Kagawa 764-0017
TEL: +81-877-33-1212 (Head office)

Contents of manufacturing Repairing a pole-mounted transformers

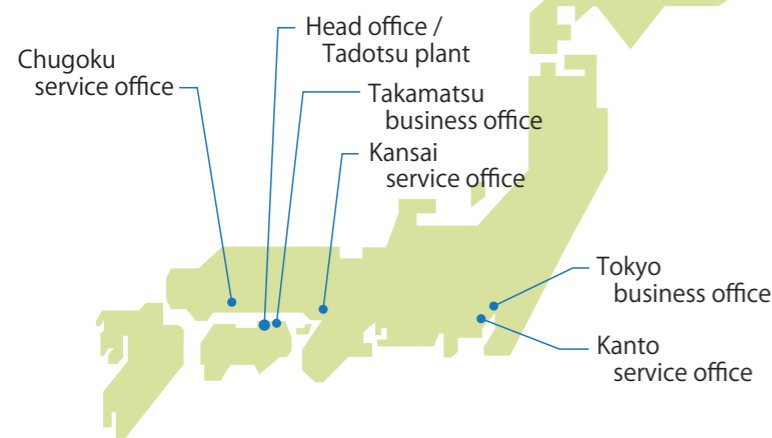


Precision Equipment Minato Plant

16-13 Nishiminatomachi, Tadotsu-cho, Nakatado-gun, Kagawa, 764-0017
TEL: +81-875-72-4111 (Takase Plant)

Contents of manufacturing Pressing and assembly of parts

Sales offices



Tokyo business office

Products handled Transformer, Switchgear

7F, Eagle Hamamatsu-cho Building, 2-7-17 Hamamatsucho, Minato-ku, Tokyo 105-0013
TEL: +81-3-3578-1641 FAX: +81-3-3578-1645

Takamatsu business office

Products handled Transformer, Switchgear

3F, Yonden Building Main Wing, 2-5 Marunouchi, Takamatsu-shi, Kagawa 760-0033
TEL: +81-87-851-1691 FAX: +81-87-823-2493



Kanto service office

4129-2 Tana, Chuo-ku, Sagami-hara-shi, Kanagawa

Kansai service office

25-11 Sangamaki 1-chome, Takatsuki-shi, Osaka

Chugoku service office

2-22 Hikino-cho 2-chome, Fukuyama-shi, Hiroshima

Shihen Tech Group

Promptly supplying low-cost, high-quality parts and services with our proprietary technologies.

Subsidiaries



Shikoku Koshu Co., Ltd.

<https://shikokuk-k.com/>



1-82 Sakuragawa 2-chome, Tadotsu-cho, Nakatado-gun, Kagawa 764-0012
TEL: +81-877-32-2653 FAX: +81-877-32-2681

Contents of business

Manufacturing small oil-immersed transformers; fabricating transformer cores; designing, manufacturing, and fabricating sheet metal for power receiving and distribution equipment; and fabricating conductor, metal, and resin products



TADOTSU UNSO Corporation

<http://www.tadotsu-unso.co.jp/>



1-94 Sakuragawa 2-chome, Tadotsu-cho, Nakatado-gun, Kagawa 764-0012
TEL: +81-877-33-4001 FAX: +81-877-33-3629

Contents of business

Transporting vehicles in general cargo; collecting and transporting industrial waste; and delivering, installing, and disassembling transformers and switchgears



Shihen Metal Works Co., Ltd.

<https://www.shihen-mw.co.jp>



769 Hijidai, Toyonaka-cho, Mitoyo-shi, Kagawa 769-1501
TEL: +81-875-62-2327 FAX: +81-875-62-2214

Contents of business

Manufacturing electrical machinery and equipment parts, manufacturing transformer parts, and otherwise press working metal products

Affiliated companies



YOSHINO DENKI KOGYO CO., LTD.

<https://yoshino-dk.com/>



1-74 Sakuragawa 2-chome, Tadotsu-cho, Nakatado-gun, Kagawa 764-0012
TEL: +81-877-32-3049 FAX: +81-877-32-3040

Contents of business

Manufacturing small and medium-sized transformer windings and assemblies and various types of electrical equipment and installing, adjusting, and otherwise maintaining electrical equipment



Minami Electric Co., Ltd.

<http://www.minamidenki.co.jp/>



15 Nishimatomachi, Tadotsu-cho, Nakatado-gun, Kagawa 764-0017
TEL: +81-877-33-4224 FAX: +81-877-32-7286

Contents of business

Producing transformer cases, fabricating sheet metal, and applying various types of coating



Shikoku Tosou Corporation

1-40 Sakuragawa 2-chome, Tadotsu-cho, Nakatado-gun, Kagawa 764-0012
TEL: /FAX: +81-877-32-3746

Contents of business

Painting transformers and switchgears



Tadotsu Chuzo tekkosho Corporation

<http://tadotutyuzou.web.fc2.com/>



5-79 Kitagamo 3-chome, Tadotsu-cho, Nakatado-gun, Kagawa 764-0022
TEL: +81-877-33-2244 FAX: +81-877-33-4282

Contents of business

Fabricating and assembling sheet metal and fabricating and assembling presses

Overseas Locations

Our overseas factories achieving superior levels of both quality and cost and making our foray into the giant Asian market



SHIHEN (THAILAND) CO., LTD.

Since this company opened in 1996 as the site of our first overseas plant, it has accumulated production technologies over many years and supplies high-quality products in a stable manner.

527 Moo2, Klongjig, Bang Pa-in, Ayutthaya, 13160, Thailand
TEL +66-35-352591 FAX +66-35-352594

Items produced

Power supply for LED lighting, switching power supply, and small transformers



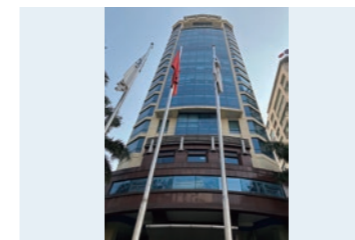
SHIHEN VIETNAM CO., LTD

Since it was established in 2007, Shihen Vietnam has been carrying out production activities as our second overseas plant. With a very competent workforce, the company produces low-cost, high-quality products in a stable manner.

Lot 2, Road TS7, Tien Son Industrial Park, Tam Son Ward, Bac Ninh Province, Vietnam
TEL +84-222-3734-246 FAX +84-222-3734-249

Items produced

Power supply for LED lighting, switching power supply



Hanoi Branch, SHIHEN VIETNAM CO., LTD

We design electric power equipment and products under the guidance of our technical staff.

VIT Tower 14F, 519 Kim Ma, Ngoc Khanh, Ba Dinh, Ha Noi, Vietnam
TEL +84-243-2019-389

Items produced

Designing electric power equipment and products

VIT Tower (14F)



SHIHEN Precision Mold Trade (Dongguan) Co., Ltd.

Founded in 2013, this company is based in Guangdong province, home to many automobile manufacturers and a large market for molds.

Room 610, Mingdian Building, No. 118 Changzhong Road, Chang'an Town, Dongguan City, Guangdong Province, China

TEL +86-769-8702-9980 FAX +86-769-8258-5935

Items produced

Purchasing and selling dies (precision dies and resin mold) and die parts

Mingdian Building (6F)

Profile

As of July 1, 2025

■ Overview of the company

Company name	Shihen Technical Corporation
Address of the head office	1-97 Sakuragawa 2-chome, Tadotsu-cho, Nakatado-gun, Kagawa
Establishment	August 31, 1946
Nature of business	Main operations include the production, repair, sales/purchase, and import/export of transformers, other electric machinery and equipment, mechanical equipment in general as well as design and contracting of electrical constructions. Freight forwarding business. Generation and sale of electricity from renewable energy sources.
Capital fund	318.5 million yen
End of fiscal year	End of March (once a year)
Banks	Chugoku Bank, The Hyakujushi Bank, MUFG Bank, Mizuho Bank and The Iyo Bank
Number of employees	465
Lot space	121,121 m ²
Building	48,236 m ²

■ Permission for specified construction business

Permission number	#3641, permitted by the governor of Kagawa (Special-3)
Date of the permission	November 28, 2021 (valid until November 27, 2026)
Type of construction business	Electric work

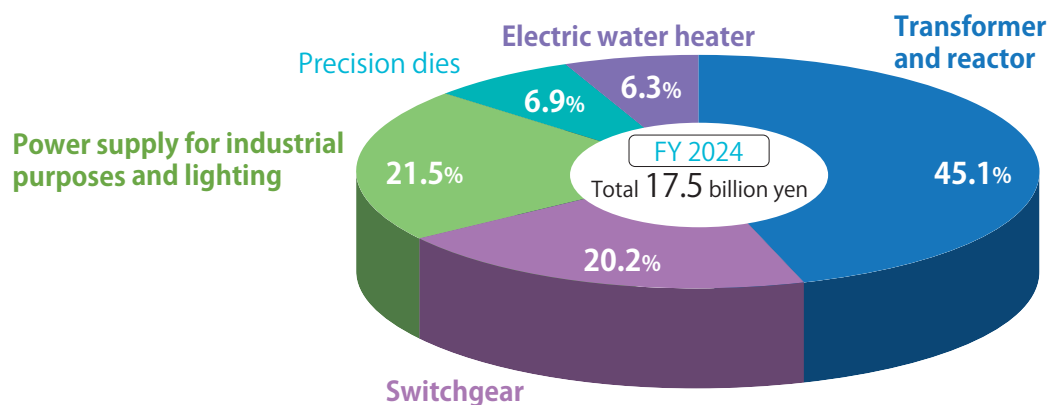
■ Registration, etc.

Electric construction work (general purpose, electric construction for in-house uses)	Governor of Kagawa registration #13010
Type I cargo transportation work	Shikoku Transportation Bureau Shikoku Transportation Cargo #343
Electric heating device manufacturing work	Director of Shikoku Economy and Industry Bureau
AC electric machinery and equipment production work	Director of Shikoku Economy and Industry Bureau

■ Board members

Tadashi Kojima, Chairman	Yasutaka Okada, Director
Hikomasa Matsumoto, President and Chief executive officer	Hideshi Saiga, Director
Shingo Wada, Senior Managing director and Representative executive officer	Kazuo Kamo, Director
Katsuhiko Fujiwara, Senior Managing director	Seiji Miyazaki, Director
Katsuyuki Matsubo, Managing director	Kazuki Kondo, Director
Takeshi Yamamoto, Managing director	Ichiro Tokai, Auditor
Hiroshi Takai, Director	Atsushi Nakano, Auditor
Yuji Katayama, Director	

■ Ratio of sales by equipment





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