KOHSHIN

KOHSHIN ELECTRIC CORPORATION

http://www.kohshin-ele.com/ Head Office & Honsya Works

1608-10 Mobira Kasaoka-city Okayama-pref.714-0062, JAPAN Head Office

Phone +81-865-66-2800 FAX +81-865-66-2804 Honsya Works

Phone +81-865-66-4877 FAX +81-865-66-2893

Second Works at Honsya Works 868-1 Mobira, Kasaoka-shi, Okayama 714-0062 Phone +81-865-66-3100 FAX +81-865-66-3115

Fukuyama Works 1613-52 Ekiya-cho Hojoji Fukuyama-city Hiroshima-pref. 720-2413, JAPAN

Phone +81-84-983-2070 FAX +81-84-983-2081 Sagami Works

1-1-57 Miyashimo Chuo-ku Sagamihara-city Kanagawa-pref. 252-5295, JAPAN

Phone +81-42-774-7813 FAX +81-42-779-5526

Overseas base(Subsidiary)

Kohshin Electric(Dalian)Co., Ltd. Sheng Xia Industry No.2, IA-23-4 Free Trade Zone, Dalian, China Phone +86-411-8731-7612 FAX +86-411-8731-7613

KOHSHIN

CORPORATE PROFILE



KOHSHIN ELECTRIC CORPORATION

Kohshin Electric's **Sensing Technology** to Build a Brighter Future

As a leading producer of current sensing equipment, indicating instruments, and magnetic devices, Kohshin Electric makes full use of the latest cutting-edge electronics in its magnetic mechanical technology in order to provide its customers with the solutions and products they need.

In an era where the world is undergoing drastic changes and the rate of globalization continues to increase, we strive to create class-leading guality by keeping our focus on two concepts: innovation and speed. We are always fully aware of the importance of safety, ethics, compliance, and environmental protection, which must represent the pillars of every corporation. Our ultimate goal is to contribute to the creation of a sustainable society.

Purpose (Our Value)

By merging magnetic mechanical and electronics technologies, we aspire to transform the world into a prosperous and safe place.

Challenge

Strive for Excellence - Realize your potential through work and aim for sustainable growth. - 0

>>> corporate outline

Name: Kohshin Electric Corporation Established: December 1, 1966 Capital: ¥100million Number of employees: 360

Key activities: Key activities: Manufacture and sale of current sensors, electric indicating instruments, switching power supply equipment, battery charging units, zero-phase current transformers (ZCT) and AC current sensors (CT), EMC devices, EMC cores, and various substrate products, as well as manufacture of electronic measurement control instruments Main bank: MUFG Bank Locations: (Headquarters and Honsya Works) 1608-10 Mobira, Kasaoka-shi, Okayama (Second Works at Honsya Works) 868-1 Mobira, Kasaoka-shi, Okayama (Fukuyama Works) 1613-52 Hojoji, Ekiya-cho, Fukuyama-shi, Hiroshima (Sagami Works) 1-1-57 Miyashimo, Chuo-ku, Sagamihara-shi, Kanagawa

(Overseas base (subsidiary) Kohshin Electric (Dalian) Co., Ltd.) Sheng Xia Industry No.2, IA-23-4 Free Trade Zone, Dalian, China

≫ works

Honsya Works



Located in Mobira Industrial Park in Kasaoka City facing the etonaikai National Park in the western part of Okayama Prefecture, Established in 1982, Honsya Works is a major products.

Fukuyama Works



Fukuyama Works is located in the corner of the Fukuyama North Industrial Complex, an area blessed with a rich natural environment along the mountains in the northern part of Fukuyama City, and manufactures an indicating instrument and various electrical and electric equipment

Overseas base(Subsidiary)

Kohshin Electric(Dalian)Co., Ltd.



Located in Dalian Free Trade Zone, Liaoning Province, China, it is the flagship factory of winding and assembly of zero phase current transformer (ZCT) and AC current sensor (CT)

>>> corporate history

- 1966 Established company in Joge-cho, Konu-gun, Hiroshima Prefecture through the investment of capital provided
- by Mitsubishi Electric Corporation. (Capital: ¥10million)
- 1967 Entry into production of Y type instruction electricity meter.
- 1968 Entry into production of safety breakers.
- 1970 Commenced production of Miniature Circuit Breakers (BH type)
- 1981 Increased capital to ¥100million.
- 1982 Established Kasaoka works and commenced operation.
- L type instruction electricity meter production begins.
- 1986 Commenced production of Current Sensor.
- 1996 Monthly production of 100,000 current sensors is achieved.
- 1997 The production of BH type breakers is transferred to China (Mitsubishi)
- 1999 Kasaoka and Sensor Works are integrated as Honsya Works, and operation commences.
- 2004 Power supply business begins at Joge Works.
- 2006 Monthly production of 500,000 current sensors is achieved.
- 2007 Second Works established in the Honsya Works.
- 2010 10million automobile Current sensor total achievement.
- 2013 Established Fukuvama Works and commenced a part of operation.
- 2014 Abolish Joge Works, start full operation at Fukuyama Works.
- 2015 Succeeded to the magnetic device business of Mitsubishi Electric Metecs Co., Ltd. and started business as Kohshin Electric Corporation Sagami Works.
- 2016 Cumulative total Current sensor 100 million.
- 2017 Started installing our own Hall effect ICs.
- 2020 Second Works commenced operation at Honsya Works.

manufacturing base factory for electronics products such as current sensors. With state-of-the-art machine equipment and production system are used to produce highly reliable

Sagami Works



We produce zero-phase current transformer (ZCT), AC current sensor (CT) and EMC device in Sagamihara city Kanagawa prefecture.



>>> major products

We look beyond current user needs to create a brighter future for technology.



>>> product introduction (usage)

We concentrate on refining advanced technology. The results speak for themselves.

For automobiles



Sensors are used in electric and hybrid cars for motor drive control, direct current conversion control of motor regenerative current, and detecting charged and discharged battery current. They play a very important role as core parts for control.



For Industrial Devices Power Conditioner for Photovoltaic Generation

Mitsubishi **Electrical Indicating Instrument**





Mitsubishi Electroni ndicating Instrum

Various quantities of electricity are measured and displayed on the incoming panel, the switchboard, the monitoring board, and the cubicle. Usage is extended further through combination with the exchanger.



This clamping sensor is easy to install on existing circuits. It is suitable for These include custom power supplies for incorporation into equipment and combination with electronic equipment because of its minimal output. It is used as battery chargers for emergency generators. We design and produce custom an electric current measurement device, such as for an energy saving equipment products for various uses or solar system.

Zero phase current transformer · toroidal type AC sensor



These are used mainly as a zero phase current transformer to detect leakage currents in earth leakage breakers, and as a current meter and overcurrent detector in smart meters or air conditioners. The highly accurate characteristics fulfill an extremely important role.



These are mainly used as noise prevention in electronic devices such as air conditioners and IH cooking heaters. We have a wide variety of compact and high performance parts used in various ranges from low to high frequencies.



Medical equipment

In the use of FA equipment, current sensors play an extremely important role in power factor control and torque control in operating adjustable-speed motors for generalpurpose inverters and NC machine tools, and overcurrent destruction protection of inverter switching elements.

For power conversion use, hall effect current sensors, which offer excellent high speed response, play an important role in phase control and overload current detection for commercial frequency wave conversions of engine power generators, UPS, solar power generation and fuel cells.

Mitsubishi measurement, monitoring, and control equipment







Mitsubishi Pov

Mitsubishi Energy Measuring Unit

Various measurement, monitoring, and control equipment makes good use of electronic technology, and brings various measurement elements together compactly. The condition of equipment is monitored to promote the conservation of energy.

Clamping type current sensor (ACCT, DCCT) Switching Power Supply / Battery Charging Units



EMCdevice

EMCcore

>>> Development(creativity)

Considerable experience, challenging new technology, and unwavering research and development



>>> production engineering (production reformation)

Accumulated technology and its results Highly systematized production line

Our skilful staff and the latest machinery allow us to create superior and uo-to-date products. A combination of industrial robots and easily manipulated automated systems form a flexible FA able to produce a road range of quality goods.







>>> quality assurance (quality and reliability)





-dimensiona measuring instrument







ndicator Instrument Automatic Test Equipment

ISO9001 Certified TRUE QUALITY to satisfy the needs of the times

In order to provide our customers with the quality products they need, we pursue high guality and high reliability through the operation of a ISO9001 at each factory certified quality system, and various verification and site improvement activities from the development stage, including the testing of products.



>>> environment

Contributing to people and the earth through technology and action

In order to make sure our products and plants are environmentally friendly under the international slogan of sustainable development, we have been striving to protect and improve the environment by relying on our own technologies and encouraging our employees to take action. In September 2015, the United Nations General Assembly set 17 goals to be achieved by 2030 known as "Sustainable Development Goals (SDGs)." We support the Sustainable Development Goals promoted by the United Nations and actively contribute to the creation of a sustainable society.

SUSTAINABLE DEVELOPMENT **G** ALS

>>> personnel training

Each individual converts his or her unknown potential into the power of growth.

Various skills and technologies are learned

and put to use in a suitable environment. Offering education such as specialized on-site training at

Mitsubishi Electric's technology research center

·Providing support for obtaining various qualifications outside the company ·Providing support for acquiring national test certificates ·Enhancing knowledge through participation in seminars outside the company



>>> Public welfare

We have introduced various systems to provide environments that enhance the lifestyles of each employee. These efforts include membership in Mitsubishi Electric Corporation Blue Cross and the Mitsubishi Electric Corporation group corporate pension, as well as access to recreational facilities in a variety of locations.

Recreational facilities





UFUGOUKAN

5

ISO14001 Certified

ĩ

Kohshin Electric's Actions and Strategies to Achieve the SDGs

In addition to our existing environmental efforts, we have made a commitment to contribute to the achievement of the SDGs through our business, environmental, social, and all other activities in order to tackle current social challenges. Thus, we have set the following four priorities for our actions and strategies related to the SDGs.

AFFORDABLE AND **CLEAN ENERGY**



Creating and encouraging the use of sustainable energy

developing technologies and systems that will us reduce energy consumption, produce energy, and creat a smart society, our goal is to make sure such technologie products, and services reach as many people as possible

INDUSTRY. INNOVATION AND INFRASTRUCTURE



Promoting sustainable industrialization and expanding technological innovation on to supporting production processes throug ion of factory automation, we continu ovate our technologies and make other contributions the development of the manufacturing industry.



Head Office/ Honsya Works

- •30 minutes by car from JR Fukuyama Station
- •10 minutes by car from JR Daimon Station

Fukuyama Works

•30 minutes by car from JR Fukuyama Station •10 minutes by car from JR Ekiya Station

Sagami Works

- •7 minutes in the car from JR Sagamihara Station.
- •6 minutes in the car from JR Hashimoto Station or **KEIO Hashimoto Station**

Kohshin Electric (Dalian)Co., Ltd.

- •50 minutes by car from Dalian Zhoushuizi International Airport
- •5 minutes by car from Free Trade Zone Station on Line 3



DECENT WORK AND 8 #2504

Improving productivity through the use

of factory automation and AI technologies while creating a positive work environment

Our aim is to help improve productivity through the use of factory automation and AI technologie while also creating a positive work environment

ECONOMIC GROWTH







