HISAKA WORKS, LTD.

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■ Konoike Plant 2-1-48, Higashi-konoike-cho, Higashi-osaka City, Osaka 578-0973 Japan

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■ Ikoma Plant 8916-10, Takayama-cho, Ikoma City, Nara 630-0101 Japan

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Kyushu Branch

■ Chiba Sales Office

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■ Onomichi Sales Office 14-15, Nishigosho-cho, Onomichi City, Hiroshima 722-0037 Japan

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URL: https://www.hisaka.co.jp/english/











Corporate Message

with hopeful technology

HISAKA WORKS is an industrial machine manufacturer that continues to refine our "technology". Behind that technology lies the "hopes" to support safety, comfort, and convenience, as we listen to the needs in various fields to contribute to the development of society. We set the message to express our stance of using "technology" filled with "hopes" to continue to undertake challenges in an ever-changing society and our stance to make leaps towards the future.

> See here for the special site on the corporate message





Mid-Term Business Plan "G-23" (fiscal year ending March 2024 to fiscal year ending March 2026)

"Toward the realization of a sustainable society, let's move forward with hopeful technology".

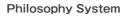
Since our founding, we have provided highly reliable products to customers around the world and have created many of the world's first dyeing machines, plate heat exchangers, pouch-food sterilizers and ball valves.

Based on our company motto "Sincerity (Magokoro)", we will contribute to the realization of a sustainable society by creating value that exceeds the expectations of our customers while respecting the "Pursuit of a richer humanity" with aim of "HISAKA, a world-class company".

Director, President and Chief Operating Officer

Toshiya Usami





"HISAKA MIND" (Renewed in April 2021)

HISAKA's corporate philosophy consists of four principles: Company Motto, Business Creed, Five Principles, and Action Guidelines. We encourage employees to take voluntary actions in line with our philosophy, and work to enhance corporate value with "HISAKA MIND" as the common value standard for all employees.

Let's make products that have sincerity

Creating satisfying products free of deception or ambiguity Let's make ours a company that has sincerity Being a company that brings happiness to everyone

Five Principles: What We Aim to Be

- Cooperation with Empathy
- 2 Enterprising and Daring
- 3 Profit for Yourself and Others
- 4 Fair and Impartial
- 5 Safety and Security

holding the same goal

Engaging in matters pro-actively and boldly

Your own profit is the profit of others

Engaging in matters fairly and openly

Providing a sense of security through

siness Creed:Our Eternal Goals

"Taking root among the world'

In January 2024,

we opened Ikoma Plant in Takayama Science Town, Ikoma City, Nara.

We will provide attractive products and services through our high-level technology, broad network, and in-depth researches.

We will become attractive persons with high aspirations, broad perspectives,

Action Guidelines: Actions We Should Take

HIGHER Undertake challenges to make new discoverie

(1) Just give it a try (2) Correct your course (3) Ask for help (4)Continue to be humble

(1) Accept differences (2) Expand the breadth of your knowledge (3) Gain a great deal of experience

(1) Refine your strengths (2) Find the interesting part of things (3)Continue perseveringly

Technological capability grown from a multi-layered history



Dyeing machine

For the first time in Japan, we developed a piece dyeing machine that used a wince tank lined with thin stainless steel plate Subsequently we successfully developed our own original high-temperature, high-pressure yarn dyeing and drying machines.



Ball valves

We made use of our unique stainless steel processing technology to develop Janan's first stainless steel hall valves (2 and 3-way). Subsequently we earned recognition as "HISAKA Valve Special Valve'



Plate heat exchanger

Embarking on development of a PHE with original technology, we perfected the "EX-2", Japan's first domestically produced PHE.



1966 Plate evaporator

We developed the plate evaporator as first commercial unit in Japan. Related technology consists of our own plate heat exchanger.



) 1960~



>> 1942 HISAKA's founding year

Brazed plate heat exchanger

) 1950~

We developed a super-compact brazed heat exchanger aimed at manufacturers of chillers and hot water supply systems



Aseptic rice cooking line

We developed an asentic rice cooking line that gives both safety and tastiness by incorporating our groundbreaking rapid food sterilizer "RIC" and achieving additive-free production of cooked rice.



World's largest plate heat exchanger "JUMBO"

For use in central cooling systems (CCS) for petroleum, LNG and chemical plants, we launched the "UX-100"-the world's largest PHE. This was the start of HISAKA's history



Semi-jacket ball valve for chocolate

We developed a ball valve with a semi-jacket that can be used in a pig system for cleaning the inside of





)> 1990~



>> 2000~



2018 Plate heat exchanger for evaporation and condenser

BRC-013 type achieved a "45% lighter weight, 100% higher heat transfer performance, and 30% reduction in-container refrigerant volume" compared to conventional models.



2019 Hi-T Seat ball valves

By compounding carbon-based fillers in PTFE at a high ratio, we developed a soft-sheet type ball valve that can be used up to a maximum operating temperature of



2019 Environmentally friendly, new liquid dyeing machine

We developed "ZERO Rapid circular" ZR with the concept of water conservation to save energy increase productivity, and stabilize



2021 Plate heat exchanger **EXOLUTION** series

We developed a plate series that can make new proposals for large-capacity vapor, contaminated fluids, and high-pressure resistance applications which were previously difficult to deal with



Through our technology, we, HISAKA has created many of the world's first developments in response to the needs of the times.

Back in the days when Japan relied on imports from the USA and Europe for most industrial machinery, HISAKA succeeded in developing Japan's first dyeing machines, plate heat exchangers (PHEs) and ball valves, using its own original technology. With our basis of technology for controlling the heat and pressure of fluids as well as our sophisticated manufacturing technology, HISAKA will continue to undertake challenges in advanced manufacturing.



World's first circular Jet dyeing machine

We developed the "Circular"-a dyeing machine with performance hugely improved over previous machines, realizing completely in-liquid processing for the first time in the world. It spearheaded our advance overseas markets – for example being introduced for the largest textile mill in USA



Sterilizer made of Stainless steel developed

Sterilizer for retort food in pouch used to be made of steel, we newly developed the sterilizer which made of stainless steel to make it cleaner and safer than ever.



World's fastest Jet dyeing machine

We developed a "Rapid Circular" Jet dyeing machine that dyed reduce one-third of process duration, and used one-half energy comparing to Previous model. We sold 6.000 units of the next two models, CUT-RA and CUT-RZ, on world markets.



Y-Type 3-way ball valve

In response to demand for a leakage free 3-way ball valve for pneumatic conveyance of powder, we developed and commercialized a "Y-Type" 3-way ball valve.





High temperature- and pressure-resistant PHE

We developed the "NX-50", that achieved long life-double previous lifespans-under high temperature and pressure operation. It performs at temperature up to 250°C and pressure in excess of 9.5 MPa.



2014 Update a record with **UX-160"SUPER JUMBO"**

The world largest, SUPER JUMBO PHE with 600 mm Dia, made new history of "Pioneer of JUMBO PHE". UX-160 has 1.5 times larger capacity than existing JUMBO PHEs.



Triple tubular continuous liquid sterilizer

We developed a tube-type heat exchanger that temperature is less uneven because the liquid is heated from both sides of the outer tube and



Diaphragm valve

We developed a PFA lined diaphragm valve that can withstand harsh operating





Eco-friendly Sterilizer

The newly developed heat sterilizer recovers waste heat and uses it to preheat the product, reducing the amount of steam by up to 50% compared to conventional models



Supporting people's lives through all kinds of industrial fields

Through our corporate activities in the Heat Exchanger Segment, Process Engineering Segment, and Valve Segment, HISAKA contributes to industries that may not be visible in daily life, but are indispensable to people's lives. HISAKA's safe and environmentally-friendly technology plays an active role in various locations.

Heat Exchanger Segment

Eyes on Dramatic

Providing the most optimal "Thermal Solution" for customers around the world to realize a sustainable society.

Process Engineering Segment

Providing No. 1 products and services that exceed customer expectations

Enriching life for people by realizing the "safety", "health" and "comfort" of lives

Valve Segment

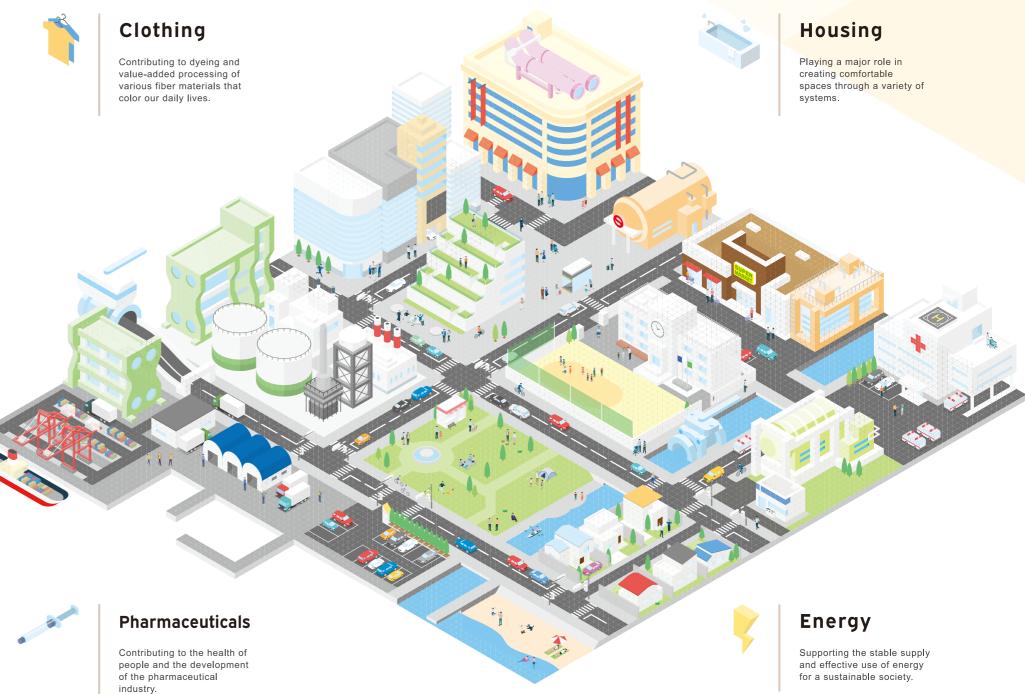
Delivering the best performance and quality for environmental safety

Contributing to fluid control in all industries by providing a variety of products that emphasize our technological development capabilities.



Food

Pursuing the good taste and safety of various foods that support our daily dining.



Environment

Developing products that can reduce the environmental impact on society.

Heat Exchanger Division

— Create the future with heat The Thermal Solution Company

Using our plate heat exchangers as our core technology, we provide thermal solutions to HISAKA fans all over the world

Ever since developing the first plate heat exchanger (PHE) in 1955, we have built up a long track record of deliveries for heat exchange process in various industries through our wide lineup from ultra-compact brazed heat exchangers (BHE) to world largest plate heat

We have been expanding our business domain in response to the rapidly changing global economy and market trends, and we will further accelerate our efforts to achieve the SDGs goals by 2030 and a carbon neutral, decarbonized society by 2050.

We will continue to lead the industry as a "pioneer of plate heat exchangers" and propose a wide variety of heat-related solutions with plate heat exchangers as our core technology.

Eyes on Dramatic

To see things in a big, holistic way and to see the point and essence of things.

We contribute to achieving carbon neutrality by analyzing the needs of new markets and applications widely and deeply, and providing products and services as optimal "thermal solutions".



Applications



stic soda, Petrochemical, Oil efinery, Coal chemical.



entation, Brewing, Soft drinks



cant oil (LO) cooling



eating Ventilation and Air Conditioning (HVAC)

upply, District heating and cooling unit, Thermal storage system, Clear



ntral cooling, LO cooling, Marine



Mechanical seal water coolers.

Hot water supply and

leating system

elter cooling, Furnace cooling,

iltration system, Floor heating, Bath





Other applications

acket water coolers for engines, nsformers rectifiers inverters etc. Coolers for heat-generating elemer in laser, UV and similar equipment, Oil coolers in hydraulic units and similar, Fuel cells, Water-cooled Water-cooled computers

Products

Plate heat exchanger (PHE)

The heat transfer plates are thin sheets of corrosion resistance metal such as stainless steel or titanium. The hot fluid and cold fluid flow through alternating flow paths between the plates to perform heat exchanging. With outstanding performance, light weight and a compact size, PHEs are playing an important in all sorts of industries.

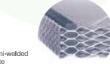
PHE

This plate heat exchanger seals the plates using gaskets. It is used in a wide variety of industries and applications, and we offer a wide lineup from small to super jumbo products that are suitable for all sorts of heat transfers



Semi-welded PHE

This plate heat exchanger consists of two plates joined together by laser welding. It is used for fluids that will damage synthetic rubber, dangerous fluids and high-temperature. high-pressure applications



Dual Wall Plate PHE

This plate heat exchanger has a double structure of stacked plates It provides safety and security for applications that prevent fluid



Multi Gap Plate

EXOLUTION Series GX

Plate Condenser

This plate condenser is exclusively for cooling and condensing large-capacity vapors and gases with large plate passage holes and







Condenser plate **EXOLUTION** series DXC

The ultra-large diameter of Φ650 enables vapor processing of up to 70.000 m3/h. The nozzle layout maximizes the heat transfer length to achieve high heat transfer efficiency, making it ideal for space-saving large-flow condensers.



Double line gasket plate **EXOLUTION Series NX**

The double-seal line structure which also provides a gasket on the outermost circumference, prevents oxidative deterioration of the inner gasket and extends the gasket life. Even in the unlikely event of leakage from the inner gasket, external scattering can be



With the largest 20mm clearance between the channels, enabling

Multi Gap Plate

smooth, stress-free flow for fluids containing solids and foreign. Applicable to fluids that may clog in chemical, textile, paper, food



Heat Exchanger (BHE) This plate heat exchanger has an

integrated structure in which parts such as heat transfer plates and nozzles are brazed with copper or nickel.

Blazed Plate

It is incorporated in familiar places such as air conditioners and hot water supply units.



部品大賞 BHE for Refrigeration

*BRC-013:Got the Parts Award in

at "Super Manufacturing Parts Award 2018"

Various Thermal Solutions

In order to respond to rapidly changing markets and customer needs, we utilize our expansive experience to provide not only individual products but also various "thermal solutions" and make proposals that will allow customers to use plate heat exchangers "surely" and "more".

Hi-TORNENDE Series of Strainers

The Hi-TORNENDE series, a strainer especially for the plate heat exchanger using seawate material that may cause trouble, such as algae, shellfish, small fish





Cyclone Type Strainer (HCS)

PHE Mail-order Website "Magokoro net"

This mail-order website has enabled us to provide a quick-delivery service that can accept orders 24 hours a day, 365 days a year. Simulators are also available on the website for designing and selecting chillers and industrials heat exchangers







Maintenance

We offer a menu of services that allow you to use our heat exchangers "longer", including the Full Service Package, a total maintenance service for ease of mind and reliability, sales of maintenance parts, on-site maintenance, and more.

Full Service Package - for ease of mind and reliability

With the "Full Service Package", we take away your entire PHE to our service center, and give it a comprehensive ("full") package of maintenance programs and regasketing including disassembly and evaluating the PHE conditions and reassembly and testing of the plates before return.





See here for information on the Heat Exchanger Division



Process Engineering Division

We provide products and services that exceed customer expectations by expanding the scope of our services and maximizing the value we provide

We provide the most suitable and cutting-edge machines, systems and services to the industries producing the products that form the basis of our safe and comfortable

We will contribute to industrial development by offering our know-how and a productivity improvement plan including energy saving, automation, unmanned factory and the IoT together with our machines and systems.



Food

Collaboration with Group Companies

We provide "safe and secure" engineering services that exceed customer expectations in a wide range of fields, such as food, pharmaceuticals, and dyeing, by combining the Group's technologies and actively working to solve customer issues and offer value-added proposals.



•Plant engineering •Sanitary valve •In-line pig system ·Continuous steamer ·Dehydrator



·Plant engineering ·Fermenter, Emulsification equipment







Production Base of the Process Engineering Division Ikoma Plant opened in January 2024

Applications



Sterilization of cooked curry, stew and can/bottle/pouch/plastic container









Seasonings and extracts sauce, vinegar, sauce, mayonnaise Extraction/concentration/drying of extract from vegetable, meat and fish



Alcoholic beverages







Sanitary goods/products





FA system (Dyeing) stem of auxiliary agent and dye yarn and textile, Group manageme system of dye machine, Automatic charging and discharging device of cheese yarn and produc system of Dye Works

Voven and knit fabrics of various

clothing such as sport apparel, inner cloth and suits. Dyeing, untwisting,

relaxing and reduction in weight of secondary materials such as interlining and back fabric, interior

products such as curtain and race

Yarn dyeing and drying

ous clothing, automobile interio

naterial and non clothing materials

. and industrial materials such as those of automobile interior and artificial

Products

Pursuing the good taste and safety of various foods that support our daily dining

We provide optimum equipment and systems for various food processing processes, including the sterilization and manufacture of retort pouch foods and beverages, seasonings such as sake, soy sauce and flavored sake as well as soft





Hot Water Spray Type Retort Sterilizer

The heat is extremely uniform during the warming, heating, and cooling processes, contributing to safety and security for retort food products through sterilization with



Plate Heat Exchanger

drinks and vegetable beverages, to support our customers' production of safe and delicious foods

Plates made specifically for food provide a smooth, product-friendly liquid flow over every detail in the plate, solving the issues of food production lines.



Rapid Preparation Sterilizer

It enables even, uniform and rapid sterilization while maintaining the flavor of all solid food materials, such as food and food ingredients before packaging and sealing.



Plate Type **Concentration Evaporator**

It enables rapid heating and evaporation in a matter of seconds. Boasting high performance, a compact size and excellent maintainability, it is effective in evaporation and concentration processes.



information on pharmaceutical equipment

Pharmaceutical

Our pharmaceutical sterilizers and various systems are used to sterilize infusion bags, bottles, syringes and the like both within Japan and abroad. We also provide integrated plant engineering services covering from extraction and separation to sterilization and drying of Chinese herbal medicines, centering on preparation plants for APIs, topical drugs and the like as well as evaporation and concentration equipment.



With thorough temperature and pressure control, it can comply with cGMP (Good Manufacturing Practices for Pharmaceuticals) and is used for sterilization of pharmaceutical infusion bags. injectables, medical devices and the



Pharmaceutical (Hot water spray type)

Liquid Sterilizer

Our original heat-transfer plates and tubes achieve highly efficient processing, making this product ideal for continuous sterilization and aseptic filling of culture media products, health drinks, nutritional foods and other products.

Liquid Sterilizer



Flush Type **Concentration Evaporator**

This is a compact unitized evaporator/concentrator with fully automatic operation, capable of concentrating small volumes of liquid as well as highly effervescent liquids with completely foam-free



Pure Steam Generator It is used in various fields requiring

pyrogen-free pure steam including hospitals and laboratories as well as pharmaceutical, food and cosmetics plants.



Jet dyeing machines, our main products for dyeing apparel and industrial materials (car seats and interiors), continue to grow in response to the needs of the times, and we provide plant equipment not only for dyeing but also for a wide range of industries in the fields of high temperature, high pressure, vacuum and drying.

information on dyeing equipment



Jet Dyeing Machine (CUT-ZR)

This new, environmentally-friendly iet dveing machine that does not use excess water, contributing to further energy savings and improved productivity at dyeing



Jet Dyeing Machine (CUT-SP)

This jet dyeing machine achieves high quality perfect for dyeing and processing delicate materials in the sports, innerwear, and high fashion



Cheese Dyeing / Drying Machine

Combined with various systems this low liquor ratio dveing machine contributes not only to quality, productivity and reproducibility, but also energy saving, labor saving and environmental load reduction



Recovery System This system uses high-performance.

Waste Heat

space-saving HISAKA plate heat exchangers to contribute to energy savings and CO2 reduction at



Valve Division

Delivering the best performance and quality for environmental safety

The ball valve we developed for the first time has been repeatedly improved and

Our products have been used in chemical, steelmaking, paper/pulp, environmental, food product and electrical plants as well as various other facilities. They cover a wide variety of applications including liquids, gases, steams, and granular powder, and also operate under severe conditions such as high viscosity, high/low temperatures and high pressures.

As a specialized manufacturer of ball valves, we are pursuing the "No.1 quality and performance with environmental capabilities and safety". We will provide new products and services to meet the needs of the times as we contribute to fluid control in various industries.



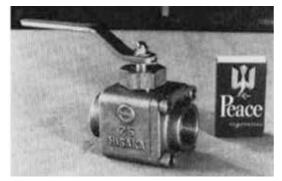
Pioneer of ball valve

In 1958, our original stainless steel processing technologies were used to develop the first 2-way and 3-way SUS304 valves (Diameters: 3/4B and 1B)

We have solved a variety of problems while sincerely addressing customer issues and created a ball valve unique to Hisaka. It has become recognized as "A high-quality special valve in Hisaka" and been active in a variety of fields in over 40 countries around the world.

Ranging from general use to special purpose, we solve your SOS of valve.





Japan's first ball valve





Applications

Environment



mical plants for paints, plastics,

Sludge, garbage and sewage treatment plants, waste plasti-recycling facilities, and so on



Iron/Steel plants Blast-furnace fuel blow, cooling,



Electricity and energy



Food and beverage Chocolate, cacao, edible oils, salts,



Secondary battery



Semiconductors

Pharmaceuticals

accine manufacturing facility,

Products

Ball valves and Diaphragm valves

Ball valves and diaphragm valves are used in a wide range of fields including chemicals, machinery, iron/steel, metals, pulp/paper, environment, foods and power generation.

General 2-way Ball Valve

Major products which are widely used in general chemicals, petrochemicals, refining, iron/steel, pulp/paper, electricity, gas, ships and food, are manufactured up to



General 3-way Ball Valve

seat structure, T-port or L-port. The fluid can be branched with a single valve, simplifying the control system.



Diaphragm Valve

This diaphragm valve with PFA lining uses a PTFE diaphragm (membrane) as the sealant and is excellent in airtightness, corrosion resistance and durability of the valve seat





Special/Limited application ball valves

We provide original ball valves for special applications by adding customizations to meet customer's needs and applications.

Metal Touch Ball Valve

This ball valve is sealed with a metallic ball seat and can be used under severe conditions, such as high temperature, high viscosity fluids and abrasive powders and



Jacketed Ball Valve

A jacket is welded to the body and a heat medium or refrigerant is applied to the inside to ensure heat insulation and cooling. There is no risk of pressure loss or remaining fluid in the piping lines due to the



Semi-jacketed Ball Valve

These jacketed ball valves have reduced weight and size and can be used with a pig system for piping cleaning. We have a lot of supply records with chocolate production

2-way Ball Valve CH1-AD-50A



Y Type 3-way Ball Valve

This ball valve for switching used in air transport lines, such as for powder and pellets, allows for smooth branching without residual





Tank-bottom Ball Valve

The ball valve used at the bottom of reaction tanks allows for uniform agitation of the fluid due to the ball surface being at approximately the same location as the bottom of the



Hi-T Seat Ball Valve

This ball valve uses a soft seat that can be used up to a maximum operating temperature of 300°C, and has superior cost performance compared to metal seats and carbon seats.

Ball Valve HF5 (HT)



Valve for Shield Machines

It is used in the line for draining mud water (water with dirt/sand) discharged during tunnel construction, and it is possible to reduce the increase in the operating torque due to mud water





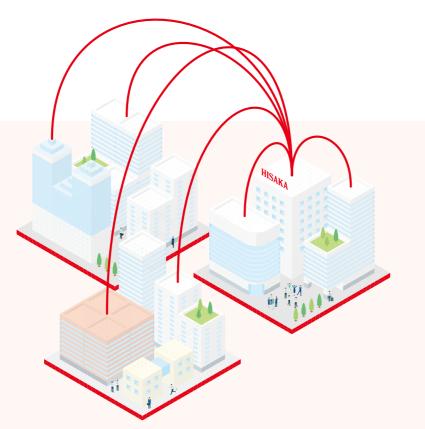
See here for information on the Valve Division



Companies

Service Network to Meet Customer Needs

HISAKA has established a stable service network with domestic and foreign group companies in order to respond to customers' requests from all angles.



Domestic Group Companies







HISAKA PRODUCTS, LTD.

HISAKA PRODUCTS, LTD.

Manufacturing and sales of teflon diaphragm valves with sophisticated sanitary technology - also carrying out engineering and plant installation - aimed mainly at the dairy, beverage and healthcare industries Manufacturing and sales of fully automatic continuous sterilization cooler and food processing machines mainly at the food market.

Head Office / Plant: Ome City, Tokyo



KOMATSUGAWA CHEMICAL ENGINEERING CO., LTD.

Manufacturing and sales of food and chemical machinery and culture tank, also conducting plant engineering business.

Head Office: Chivoda-ku, Tokyo Plant: Mitaka City, Saitama / Narita City, Chiba



AUTOMATIC SYSTEM RESEARCH CO., LTD. 15R



Developing and manufacturing sensor elements such as oxygen sensors and turbidimeters required for culture equipment, and the systems that control the culture equipment itself.

Head Office: Chiyoda-ku, Tokyo Plant: Mitaka City, Saitama

Overseas Group Companies

Malaysia

HISAKAWORKS S.E.A. SDN. BHD.

Strategically deployed as an ASEAN headquarters, providing new unit sales, genuine spare parts and maintenance service of HISAKA plate heat exchangers in ASEAN region.

Completed the S.E.A. second plant with main facilities of large size Forming Press and Trimming Press in June, 2016.

Head Office / Plant: Kuala Lumpur Branch Offices: Johore

HISAKA WORKS (THAILAND) CO., LTD.

As one of subsidiaries under HISAKAWORKS S.E.A., providing new unit sales, genuine spare parts and maintenance service of HISAKA plate heat exchangers in Thailand, Not only HISAKA plate heat exchangers, but also providing new unit sales of HISAKA ball valves as well.

Head Office: Bangkok Branch Office: Sattahip

Indonesia

PT. HISAKA WORKS INDONESIA

As one of subsidiaries under HISAKAWORKS S.E.A., providing new unit sales, genuine spare parts and maintenance service of HISAKA plate heat exchangers in Indonesia. Not only HISAKA plate heat exchangers, but also providing new unit sales of HISAKA ball valves as well.

Head Office: Jakarta

China

HISAKA WORKS (CHINA) CO., LTD.

Providing full line of HISAKA products, which are HISAKA plate type heat exchangers, HISAKA food processing & textile machines and HISAKA ball valves, genuine spare parts and servicing in China.

Head Office: Changshu Branch Offices: Shanghai / Guangzhou

United Arab Emirates

HISAKA ARABIA HEAT EXCHANGER TRADING - L.L.C - O.P.C

Providing new unit sales, genuine spare parts and maintenance service of HISAKA plate heat exchangers in United Arab Emirates.

Head Office: Abu Dhabi

South Korea

HISAKA KOREA CO., LTD.

Providing new unit sales, genuine spare parts and maintenance service of HISAKA plate heat exchangers in South Korea.

Head Office: Seoul Branch Office: Busan

Philippines

HISAPINO (Representative Office)

Representing HISAKAWORKS S.E.A., assists entire HISAKA users in Philippines and providing technical support about HISAKA plate heat

Office: Manila

Singapore

HISAKAWORKS SINGAPORE PTE. LTD.

As one of subsidiaries under HISAKAWORKS S.E.A., providing new unit sales, genuine spare parts and maintenance service of HISAKA plate heat exchangers in Singapore.

Head Office: Singapore

HISAKAWORKS VIETNAM CO., LTD.

Representing HISAKAWORKS S.E.A., assists entire HISAKA users and providing new unit sales, genuine spare parts and maintenance service of HISAKA plate heat exchangers in Vietnam.

Head Office: Ho Chi Minh

Saudi Arabia

HISAKA MIDDLE EAST CO., LTD.

In order to strongly support to whole HISAKA users in Near and Middle East region, focusing on providing genuine spare parts and maintenance service, especially for existing thousands of jumbo units, which HISAKA ever delivered. HISAKA ME is capable enough to cover its massive demands.

Head Office / Plant: Dammam Branch Office: YANBU

HISAKA ALSHARQ ALAWSAT TRADING AND MAINTENANCE LLC

As one of subsidiaries under HISAKA ME providing new unit sales, genuine spare parts and maintenance service of HISAKA plate heat exchangers in Middle East region.



From Japan to Asia From Asia to the world The expansion of HISAKA global network

Since beginning full-fledged export activities in the 1960s, HISAKA has been developing technology by keeping its focus on the global market, and has won great reviews for the supplied products from customers all over the world.

In recent years, we have set up affiliate companies in various global locations. Through these and other efforts, we now have in place a network able to provide swift responses tailored to customers' needs, from equipment introduction through to maintenance.









ikoma Plant (Nara) | Ikoma Plant Opened in January 2024



- Head office (Osaka Osaka city)
- Tokyo branch
- Nagoya branch
- 4 Kyushu branch (Fukuoka Fukuoka citv)
- 5 Kitakyushu branch 🁍 Ikoma Plant (Fukuoka Kitakyushu city)
- 6 Hokkaido Sales Office ome Plant (Hokkaido Sapporo city)

Saitama Sales Office 10 HISAKA PRODUCTS, LTD. (Tokyo Ome City)

111 KOMATSUGAWA CHEMICAL

RESEARCH CO., LTD.

12 AUTOMATIC SYSTEM

ENGINEERING CO., LTD.

- 8 Chiba Sales Office (Chiba Ichihara city)
- Onomichi Sales Office (Hiroshima Onomichi city)
- Konoike Plant

- 1 Malaysia
- 2 Philippines
- 3 Thailand
- 4 Thailand
- 5 Singapore
- 6 Indonesia

13 United Arab Emirates 7 Vietnam

China

12 Qatar

10 Saudi Arabia

Saudi Arabia

- - South Korea 8 China
 - South Korea
 - Malaysia Kuala Lumpur

Capital Alliance

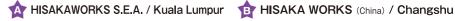
2 Portugal













ESG Initiatives

Basic Sustainability Policy

Setting our Business Creed, namely, "Taking root among the world" and "Pursuit of rich humanity" as our eternal goals, we aim to act with a long-term perspective to fulfill our role and responsibility as a public institution in society as well as to achieve sustainable increases in our corporate value by both contributing to society and growing our business.

- 1 We will contribute to solutions for global environmental issues through our business activities.
- We will strive to maintain positive relationships and solve social issues through dialogue with diverse stakeholders, including employees, business partners, local communities and shareholders.
- 3 We will promote corporate governance through honest business management.











See here for more information Sustainability Promotion Activities Page



New Business Promotion Department









Toward 2042, the 100th anniversary of our founding, we are promoting the creation of new businesses and products that plan to solving social issues such as "energy saving" and "labor saving" by bringing together our core technologies. Our first R&D section is launched in FY2025 to establish new core technologies and strengthen the development of new products that contribute to the core business.

We provide products that contribute to reducing the burden on the global environment by saving resources, reducing the amount of CFC filling, reducing CO2 emissions and more.

See here for more information Environmentally Friendly Products Page

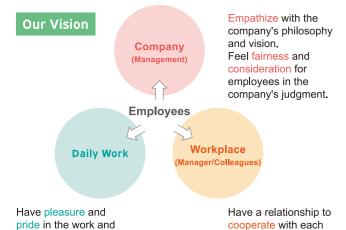


Enhance Well-Being Section



In today's stress society, it has become an important issue to create a society where all people can continue to play an active role in good health and live with peace of mind.

For our company's sustainable growth, we believe that it is essential for our employees to be in a physically, mentally and socially good condition (well-being), and we promote the mental and physical health of our employees.



other with mutual

acceptance.

feel own growth.

Solar Power Generation



We are contributing to environmental conservation by promoting the spread of renewable energy through a solar power generation using the rooftop of the Konoike & Ikoma Plant.



Corporate Governance



HISAKA aims to appropriately implement the five general principles of "Securing the Rights and Equal Treatment of Shareholders", "Appropriate Cooperation with Stakeholders Other Than Shareholders", "Ensuring Appropriate Information Disclosure and Transparency", "Responsibilities of the Board" and "Dialogue with Shareholders", and by doing so, to aim for further improvement of our corporate value as well as constructing and maintaining a decision-making structure that can swiftly respond to changes in the management environment, with all stakeholders in mind.

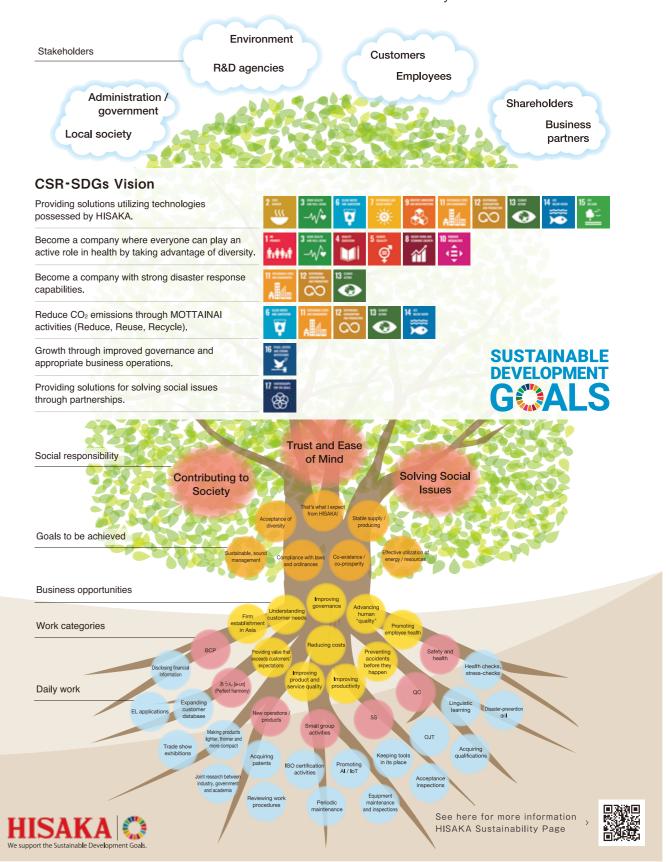
See here for more information Corporate Governance Page



HISAKA Sustainability

Thoughts on "Tree of CSR" ~The CSR Vision of the HISAKA Group~

As part of Sustainability promotion, we have selected SDGs and set 6 "CSR-SDGs Visions" to be a company that can solve social issues and contribute to the realization of a sustainable society.



Facilities

The Konoike Plant and Ikoma Plant - central hub of HISAKA WORKS, LTD.'s manufacturing - has introduced facilities with original technology and is moving ahead with drastic raising of the efficiency of its manufacturing processes. As the HISAKA Group's mainstay factory possessing sophisticated manufacturing technology that creates high quality products recognized around the world, we aims for tireless progress in the future as before



40,000-ton automated press line

This 40,000-ton automated press line - the largest class in the world - is composed of a forming press, crack detector and conveying devices. It produces various different types of large size titanium plates for use in LNG plants and similar.



Continuous vacuum furnace

This is one of the world's largest continuous vacuum furnaces, boasting a maximum processing load of 2,000 kg. It is used for brazing the brazed heat exchangers



High precision automatic welding machine for stainless steel

This high precision automatic welding machine plays an active role in making sterilization, disinfection and dyeing equipment. We were the first in Japan to develop and successfully apply this type of machine in the manufacturing of pressure vessels. It can also weld many high quality materials such as super stainless steel.



5-axis vertical type multi-functional machine

This numerically-controlled multi-functional machine fabricates the main bodies of large size valves. It can machine multiple surfaces, eliminating useless work and enhancing dimension precision



20,000-ton automated press line

This state-of-the-art totally automated, unmanned press line achieves productivity 1.5 times higher than previous lines. It can cope with plate sizes ranging widely from medium



Dedicated clean assembly space

This is a dedicated area for assembly of sterilizers and other devices requiring high cleanness and safety, for delivery to the pharmaceutical industry.



Bending rolls

This equipment can accurately bend stainless steel plates of a wide variety of thicknesses This bending technology, indispensable for fabricating sterilization, disinfection and dyeing equipment, supports our high quality products.



Multi-task processing machine

This multi-task processing machine can manufacture ball valves using unmanned operation. It can operate 24 hours a day, shortening the delivery time.

R&D

Boasting world-class technology, we at HISAKA WORKS, LTD. continually conduct research and development for increasingly diverse and sophisticated needs by utilizing advanced technology. In the future as before, HISAKA makes much effort to launch products that are No. 1 in the world using our development labs with versatile equipment.



Heat exchanger development & testing lab

Inheriting the frontier spirit that developed the HISAKA original PHE, this lab continues to research PHEs by further expanding and evolving the technology we have cultivated up



Dyeing development & testing lab

This lab carries out tests brought in by customers as well as development tests for dyeing machines and development of new products. Many dyeing techniques for various fashions and new synthetic fibers were born here.



Food & pharmaceutical development & testing lab

This lab develops new devices and systems to materialize customer needs through trial-and-error. Customers can bring their own test items here to conduct R&D to pursue



Valve development & testing lab

This lab carries out customization of valves according to customers' needs. Using installed testing equipment of various kinds, it is proceeding with development of the

Environmental conservation activities

ISO 14001

HISAKA WORKS, LTD. acquired ISO14001 certification in December 2007. By means of this, we hope, as a "corporation that contributes to the global environment through its business activities, products and services", to grow into a company that, to a higher degree than ever before, enjoys ease of mind and trust from all who are concerned with it.

Environmental policy

Promote environmental activities with company motto "Sincerity (Magokoro)" as basic philosophy. Manufacture products that are "people and environment

Make the company "people and environment friendly." Become "people and environment friendly" Corporate Citizens.

Environmental Declaration / Action Guidelines

As an environmentally considerate company, HISAKA WORKS, LTD. will promote six Action Guidelines as following statements.

- 1 To observe the law and regulations of the environment and agree on the social
- 2 To promote the development and sales of environmentally-conscious products based on
- 3 To make efforts to save resources and energy by preventing environmental contamination and activities to reduce environmental impact.
- **4** To offer service that contributes to the reduction in environment impact for customers.
- **5**To carry out corporate activities that harmonize environment, quality, safety and cost control, and sustainability.
- **6** To continuously improve environmental activities and integrate with full participation with the region

Certification acquired

ISO 9001

This international standard aims to the continuous management, improvement, and maintenance of quality management systems that provide high-quality products and services to ensure customer satisfaction.

In HISAKA, we place top priority on the safety and security of our customers, and have built an original quality management system that incorporates leading-edge testing equipments

Konoike plant

Japanese PV code class 1 ASME "U" stamp

Ikoma plant

ISO 45001

This international standard aims to continuously improve occupational health and safety by establishing a safe and healthy work environment and preventing occupational accidents.

Since our founding, HISAKA had been conducting its original activities, and now has acquired this certification at the Konoike Plant and Ikoma Plant.

For our customers, we will continue to provide the safe products with full of sincerity (Magokoro).

Code and Standard

Japanese PV code class 1 ASME "U" stamp

Heat Exchanger Division——— ClassNK Approval of Manufactures Process Engineering Division ---- China Special Equipment Manufacture License Valve Division Japan High Pressure Gas Safety Act authorization, API 6D CERTIFIED

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In January 2024, we opened Ikoma Plant in Ikoma City, Nara, as a production base for the Process engineering division and New business promotion department.