

CORPORATE --- PROFILE



with hopeful technology

HISAKA

2023 Edition

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 Executive Officer

Yoshikazu Takeshita





Philosophy System

"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.

Company Motto: Our DNA



- | | |
|--|---|
| Let's be people who have sincerity | Being people who respect others and value harmony |
| 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 |

Business Creed: Our Eternal Goals

"Taking root among the world"

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

"Pursuit of rich humanity"

We will become attractive persons with high aspirations, broad perspectives, and in-depth consideration.

Five Principles: What We Aim to Be

- | | |
|---|---|
| 1 Cooperation with Empathy | Engaging in matters together with others holding the same goal |
| 2 Enterprising and Daring | Engaging in matters pro-actively and boldly |
| 3 Profit for Yourself and Others | Your own profit is the profit of others, and contributing to others is your own happiness |
| 4 Fair and Impartial | Engaging in matters fairly and openly |
| 5 Safety and Security | Providing a sense of security through the utmost priority on safety |

Action Guidelines: Actions We Should Take

HIGHER Undertake challenges to make new discoveries

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

WIDER Expand your own possibilities

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

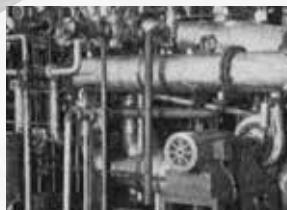
DEEPER Become experts

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

Technological capability grown from a multi-layered history

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.



1967
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.



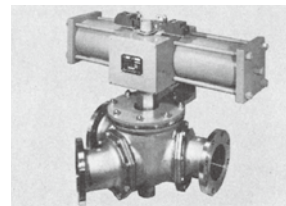
1975
Sterilizer made of Stainless steel developed

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.



1974
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.



1975
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.

1970~



2013
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.



2017
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 inner tube.



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.



2017
Diaphragm valve

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

2010~



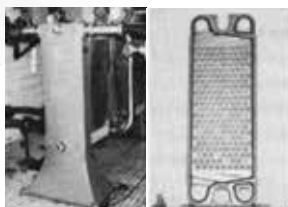
**1951
Dyeing machine**

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.



**1958
Ball valves**

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



**1955
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.

**1942
HISAKA's
founding year**

1950~

1960~



**1986
Brazed plate heat exchanger**

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



**2001
Aseptic rice cooking line**

We developed an aseptic 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.



**1996
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 as "Pioneer of JUMBO PHE".



**2007
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 piping.

1980~

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
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 quality.



**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 300°C.



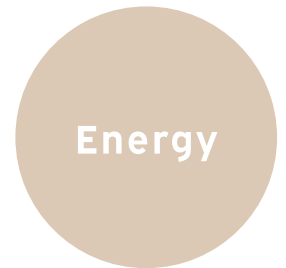
**2021
Plate heat exchanger EXOLUTION series**

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.

2020~

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.



Supporting the stable supply and effective use of energy for a sustainable society.

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.



Developing products that can reduce the environmental impact on society.

Clothing

Contributing to dyeing and value-added processing of various fiber materials that color our daily lives.

Food

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

Pharmaceuticals

Contributing to the health of people and the development of the pharmaceutical industry.



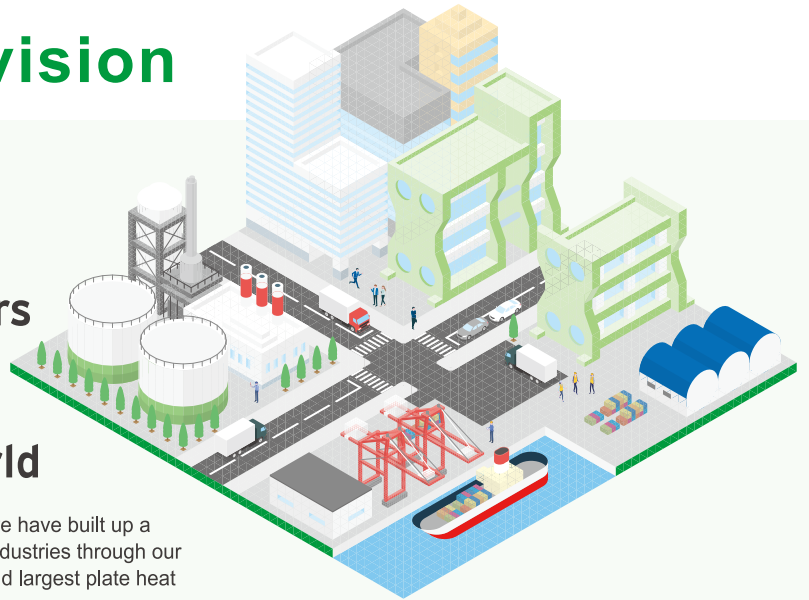
Housing

Playing a major role in the creation of comfortable spaces through air-conditioning systems.

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 exchangers.

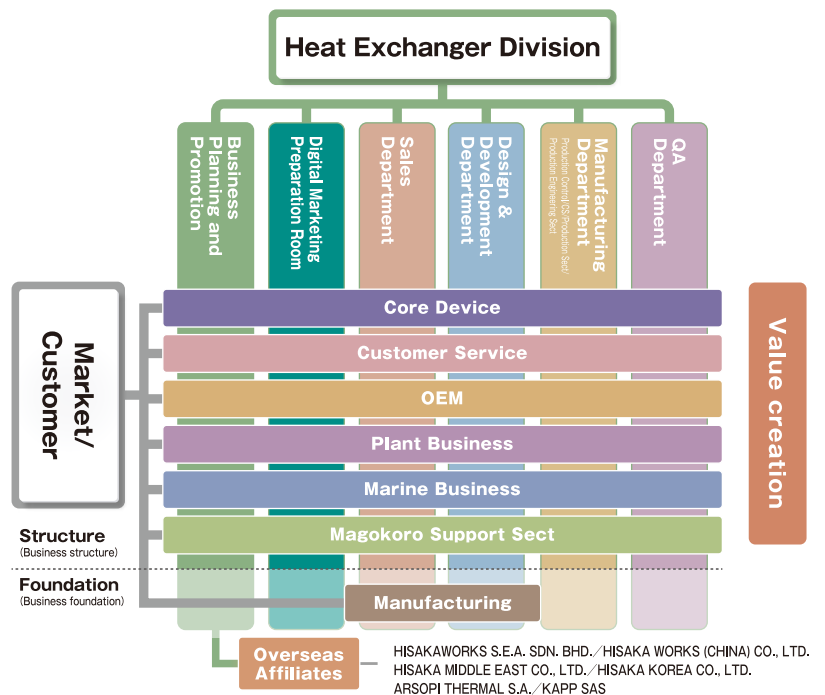
We have been expanding our business domain in response to the rapidly changing global economy and market trends, and we will further accelerate our efforts to achieve the SDGs goals by 2030 and a carbon neutral, decarbonized society by 2050.

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.

With the rapid development and introduction of various new technologies to realize a sustainable society, the matrix organization, which works horizontally and vertically, will analyze the needs of each market and application more widely and deeply, and provide products and services as optimal "thermal solutions".



Applications

Chemical
 Caustic soda, Petrochemical, Oil Refinery, Coal chemical, Pharmaceutical, Inorganic and Organic chemical

Heating Ventilation and Air Conditioning (HVAC)
 Cooling/Heating unit, Hot water supply, District heating and cooling unit, Thermal storage system, Clean room, Hot spring, Swimming pool

Metal
 Smelter cooling, Furnace cooling, Electrolytes cooling, Granulation water cooling, Sulfuric acid cooling

Heat pump cycle
 Refrigerator, Refrigeration system, Cascade condenser, Absorption heat pump

Food
 Milk, Beer, Sugar/Starch, Fermentation, Brewing, Soft drinks, Fish farming, Hydroponics

Marine
 Central cooling, LO cooling, Marine gas oil cooling

Hot water supply and Heating system
 Non-pressurized open boiler, Bath filtration system, Floor heating, Bath water heating

etc. Other applications
 Jacket water coolers for engines, transformers, rectifiers, inverters, etc., Coolers for heat-generating elements in laser, UV and similar equipment, Oil coolers in hydraulic units and similar, Fuel cells, Water-cooled refrigerator condensers, Water-cooled computers

Power
 Bearing cooling water cooling, Lubricant oil (LO) cooling, Cogeneration facilities

Iron & Steel
 Cooling of blast furnace, Cooling of continuous casting, COG application, Plating application

Pumps
 Mechanical seal water coolers, Vacuum pump seal water coolers, Dry vacuum pumps

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

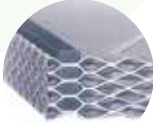
This plate heat exchanger seals the plates using gaskets. It is used in a wide variety of industries and applications, and we offer a wide lineup from small to super jumbo products that are suitable for all sorts of heat transfers.



PHE

Semi-welded PHE

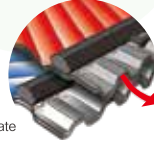
This plate heat exchanger consists of two plates joined together by laser welding. It is used for fluids that will damage synthetic rubber, dangerous fluids and high-temperature, high-pressure applications.



Semi-welded Plate

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 contamination.



Dual Wall Plate

Plate Condenser

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



Plates for Condenser

Condenser plate

EXOLUTION series DXC

The ultra-large diameter of $\Phi 650$ 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.



DXC-650

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 prevented.



double seal line

Multi Gap Plate

EXOLUTION Series GX

With the largest 20mm clearance between the channels, enabling smooth, stress-free flow for fluids containing solids and foreign. Applicable to fluids that may clog in chemical, textile, paper, food, etc.



Multi Gap Plate

Blazed Plate

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



BHE for Refrigeration

*BRC-013: Got the Parts Award in Environment, Resources, and Energy Sectors 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-TORRENDE Series of Strainers

The Hi-TORRENDE series, a strainer especially for the plate heat exchanger using seawater as coolant, removes foreign material that may cause trouble, such as algae, shellfish, small fish and garbage.



Automatic backwash strainer (HAS)



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 industrial 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.



Before

After

See here for information on the Heat Exchanger Division



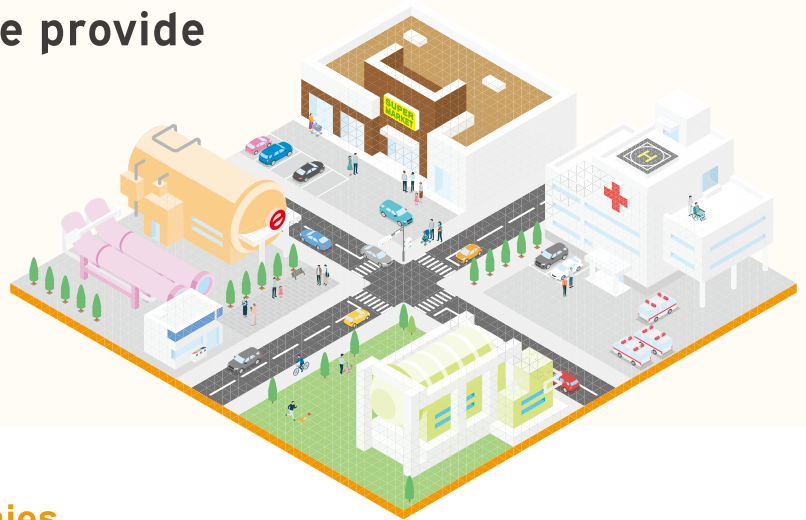
Process Engineering Division

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 daily lives.

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.



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.



MICROZERO CO., LTD.

- Plant engineering
- Sanitary valve
- In-line pig system



Food

Pharmaceutical

ASAHI INDUSTRY CO., LTD.

- Continuous steamer
- Dehydrator



Food

KOMATSUGAWA CHEMICAL ENGINEERING CO., LTD.

- Plant engineering
- Fermenter, Emulsification equipment



Pharmaceutical

Food

Applications



Retort food
Sterilization of cooked curry, stew and rice contained in the can/bottle/pouch/plastic container



Alcoholic beverages
Sterilization of refined sake, beer, whiskey, wine, and distilled spirit



Sanitary goods/products
Sterilization of absorbent cotton, gauze and napkin



Piece dyeing
Woven 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 and industrial materials such as those of automobile interior and artificial leather



Prepared food
Boiling of beans and seaweeds concentration maceration, steaming/cooling of foods



FA system (Food)
Automation of food processing FA of retort food sterilizer and its related equipment



Medical supplies
Cleaning, sterilization, drying of medical apparatuses, Sterilization and drying of scrub and sheets



Beverages in general
Continuous sterilization/cooling/ concentration/drying of milk, various daily products and soy milk, Extraction/blending/sterilization/ concentration of coffee, oolong tea, tea, mineral water, juice, soft drink and others



Seasonings and extracts
Sterilization of soy sauce, seasoning sauce, vinegar, sauce, mayonnaise, margarine, syrup, Extraction/concentration/drying of extract from vegetable, meat and fish



FA system (Pharmaceutical)
Sterilization line automation, Production control system of sterilizing process



Yarn dyeing and drying
Scouring, bleaching, dyeing and drying of woven and knit fabric of various clothing, automobile interior material and non clothing materials such as interior concerned



Pharmaceutical products
Sterilization of injectable and instrument, Sterilization of culture media and health drink, Heating, cooling, extraction, concentration and drying of raw material of medicine and Chinese herb, pure steam, manufacturing of WFI



FA system (Dyeing)
Automatic measurement and input system of auxiliary agent and dye stuff, Unmanned transfer system of yarn and textile, Group management system of dye machine, Automatic charging and discharging device of cheese yarn and production control system of Dye Works

Products

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

See here for information on food equipment >



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

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 even temperatures.



High Temperature, High Pressure Retort Sterilizer (RCS)

Plate Heat Exchanger for Food

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.



PHEs for Food (FX Series)

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.



Rapid Preparation Retort Sterilizer (RIC)

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.

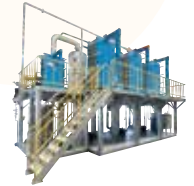


Plate Type Evaporator (LEP)

Pharmaceutical Contributing to the pharmaceutical industry by increasing the safety and reliability of pharmaceuticals and medical devices

See here for information on pharmaceutical equipment >



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.

Pharmaceutical Sterilizer

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 like.



Pharmaceutical Sterilizer (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 (Plate type)

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 operation.



Concentration Evaporator (Forced circulation plate type)

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.



Pure Steam Generator

Dyeing Coloring our life by dyeing of various fiber materials and the value-added processing

See here for information on dyeing equipment >



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.

Jet Dyeing Machine (CUT-ZR)

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



Jet Dyeing Machine (CUT-ZR)

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 fields.



Jet Dyeing Machine (CUT-SP)

Cheese Dyeing / Drying Machine

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



Cheese Dyeing / Drying Machine (LLC)

Waste Heat Recovery System

This system uses high-performance, space-saving HISAKA plate heat exchangers to contribute to energy savings and CO2 reduction at dyeing plants.



Waste Heat Recovery System

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 maintained high quality.

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) in Japan.

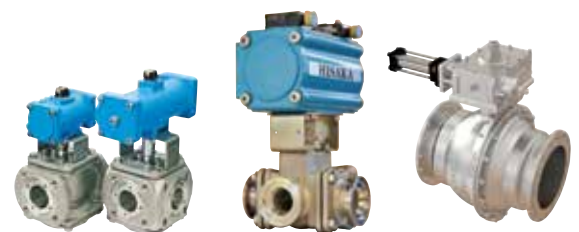
We have solved a variety of problems while sincerely addressing customer issues and created a ball valve unique to Hisaka. It has become recognized as "A high-quality special valve in Hisaka" and been active in a variety of fields in over 40 countries around the world.



Japan's first ball valve

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

*Speedy
Offer
Solution*



Applications



Chemical plants
Chemical plants for paints, plastics, polypropylene, and so on



Iron/Steel plants
Blast-furnace fuel blow, cooling, silica removal, dephosphorization, conveyance lines for pulverized coal and iron oxide



Food and beverage
Chocolate, cacao, edible oils, salts, sugars, starch, flavorings, whiskey, shochu, hops, malt, etc.



Pharmaceuticals
Vaccine manufacturing facility, Refrigerant equipment



Environment
Sludge, garbage and sewage treatment plants, waste plastic recycling facilities, and so on



Electricity and energy
Ash treatment, boiler equipment and other items for thermal power stations



Secondary battery
Lithium-ion batteries, Nickel-metal hydride, Battery production facilities



Semiconductors
Exhaust gas treatment equipment, Chemical supply equipment, Monosilane gas line

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 300 A.

General 2-way
Ball Valve HF5



General 3-way Ball Valve

There are two types of four-sided seat structure, T-port or L-port. The fluid can be branched with a single valve, simplifying the control system.

General 3-way
Ball Valve H45



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.

Diaphragm
Valve HD1



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 slurries.

Metal Touch
Ball Valve
HF5 (M1)



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 full bore structure.

Jacketed
Ball Valve HJ5



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 plants.

Semi-jacketed
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 powder.

Y Type 3-way
Ball Valve
HY1/HY2



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 tank.

Tank-bottom
Ball Valve TB5



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.

Hi-T Seat
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.

Valve for
Shield Machines
HF5 (SH)



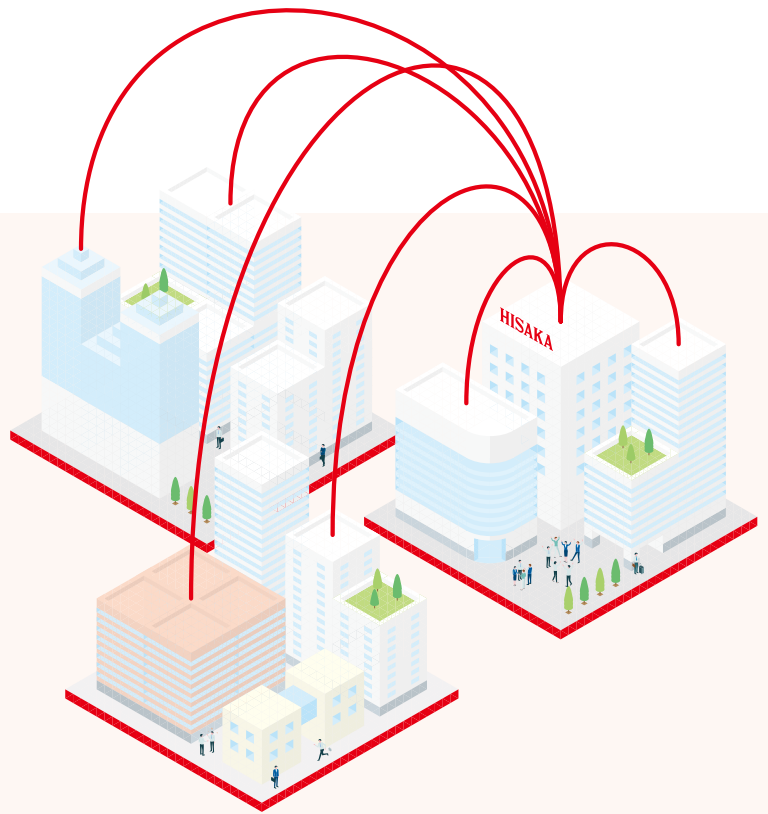
See here for information on the Valve Division >



Group 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



MICROZERO CO., LTD. **MICRO ZERO** MICROZERO CO.,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.

Head Office: Tachikawa City, Tokyo Plant: Ome City, Tokyo



ASAHI INDUSTRY CO., LTD. **ASAHI INDUSTRY**

Manufacturing and sales of fully automatic continuous sterilization cooler and food processing machines mainly at the food market.

Head Office / Plant: Ome City, Tokyo

MICROZERO CO., LTD. and ASAHI INDUSTRY CO., LTD. plan to merge in October 2023.



KOMATSUGAWA CHEMICAL ENGINEERING CO., LTD. **KCE**

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

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



AUTOMATIC SYSTEM RESEARCH CO., LTD. **ASR**

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

Vietnam

HISAVINA (Representative Office)

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

Office: Ho Chi Minh

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

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

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 exchangers.

Office: Manila

Thailand

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

Saudi Arabia

HISAKA MIDDLE EAST CO., LTD.

In order to strongly support to whole HISAKA users in 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



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.



A Konoike Plant (OSAKA)



B Ikoma Plant (Nara)

Ikoma Plant to be completed in fall 2023



- ★: Headquarters / Production Base (Japan) ☆: Group Company / Production Base
- : Branch Office (Japan) ●: Group Company and Local Office
- : Capital Alliance

List of Domestic Offices and Group Companies

- | | | |
|--|--|---|
| ① Head office
(Osaka Osaka city) | ⑥ Hokkaido Sales Office
(Hokkaido Sapporo city) | ⑩ MICROZERO CO., LTD.
(Tokyo Tachikawa city) |
| ② Tokyo branch
(Tokyo Chuo-ku) | ⑦ Saitama Sales Office
(Saitama Saitama city) | ⑪ ASAHI INDUSTRY CO., LTD.
(Tokyo Ome city) |
| ③ Nagoya branch
(Aichi Nagoya city) | ⑧ Chiba Sales Office
(Chiba Ichihara city) | ⑫ KOMATSUGAWA CHEMICAL
ENGINEERING CO., LTD.
(Tokyo Chiyoda-ku) |
| ④ Kyushu branch
(Fukuoka Fukuoka city) | ⑨ Onomichi Sales Office
(Hiroshima Onomichi city) | ⑬ AUTOMATIC SYSTEM
RESEARCH CO., LTD.
(Tokyo Chiyoda-ku) |
| ⑤ Kitakyushu branch
(Fukuoka Kitakyushu city) | ★ Konoike Plant
(Osaka Higashiosaka city) | |
| | ★ Ikoma Plant
(Nara Ikoma city) | |
| | ★ Ome Plant
(Tokyo Ome city) | |

Overseas Group Companies

- | | | |
|--------------------------|--------------------------|----------------------------|
| ① Malaysia
Johor | ⑥ Singapore | ⑪ Saudi Arabia
YANBU |
| ② Philippines
Manila | ⑦ Indonesia
Jakarta | ⑫ South Korea
Seoul |
| ③ Vietnam
Ho Chi Minh | ⑧ China
Shanghai | ⑬ South Korea
Busan |
| ④ Thailand
Bangkok | ⑨ China
Guangzhou | ★ Malaysia
Kuala Lumpur |
| ⑤ Thailand
Sattahip | ⑩ Saudi Arabia
Dammam | ★ China
Changshu |

Capital Alliance

- | | | |
|-------------------|------------------------------|----------------------|
| ① China
Yantai | ② Portugal
Vale De Cambra | ③ France
Brignais |
|-------------------|------------------------------|----------------------|



★ Ome Plant (TOKYO)



★ HISAKAWORKS S.E.A. / Kuala Lumpur



★ HISAKA WORKS (China) / Changshu

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.**
- 2 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.**



Environment



Social



Governance

See here for more information
Sustainability Promotion Activities Page >



New Business Promotion Department



Toward the 100th anniversary of our founding in 2042, we will gather our heat and pressure-control technologies for fluids, our core technologies, and promote the search for and commercialization of new businesses and products that contribute to solving social issues. We aim to realize a sustainable society by implementing business activities that emphasize ESG and SDGs.

Environmentally-friendly Products



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.

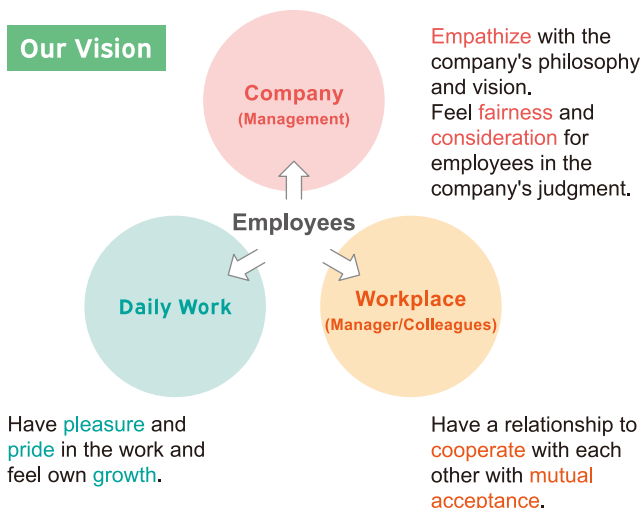
Solar Power Generation Project



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



Our Vision



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

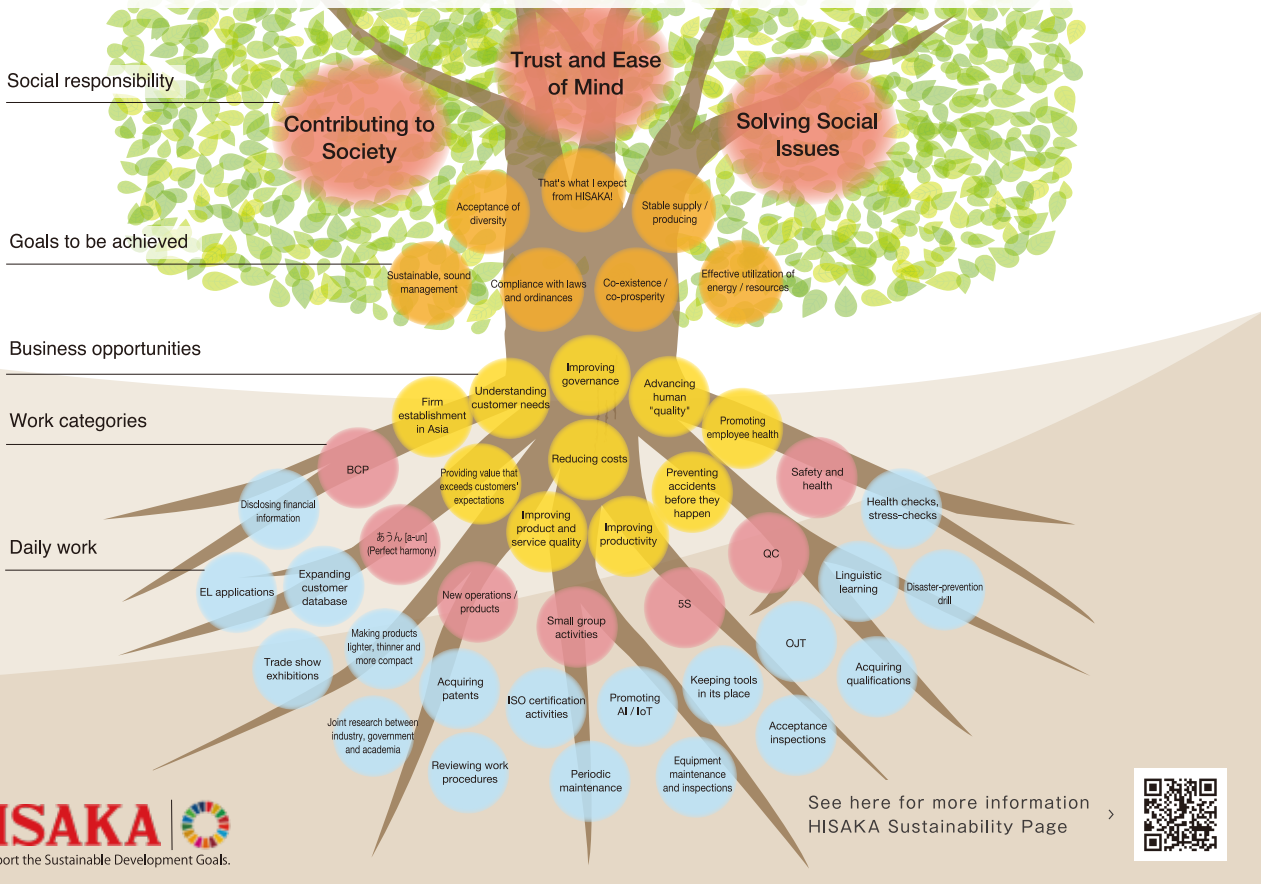
Thoughts on "Tree of CSR" ~The CSR Vision of the HISAKA Group~

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.



CSR-SDGs Vision

Providing solutions utilizing technologies possessed by HISAKA.	2, 3, 6, 7, 9, 11, 12, 13, 14, 15
Become a company where everyone can play an active role in health by taking advantage of diversity.	1, 3, 4, 5, 8, 10
Become a company with strong disaster response capabilities.	11, 12, 13
Reduce CO ₂ emissions through MOTTAINAI activities (Reduce, Reuse, Recycle).	6, 11, 12, 13, 14
Growth through improved governance and appropriate business operations.	16
Providing solutions for solving social issues through partnerships.	17



Facilities

The Konoike 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, the Konoike Plant aims for tireless progress in the future as before.



Heat Exchanger Division 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.



Heat Exchanger Division 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 to large size.



Heat Exchanger Division 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.



Process Engineering Division Dedicated clean assembly space

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



Process Engineering Division 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.



Process Engineering Division 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.



Valve Division 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.



Valve Division 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 until now.



Food 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 the best sterilization recipe for various products.



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.



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 valves.

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 friendly."
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 agreement.
- ② To promote the development and sales of environmentally-conscious products based on customer needs.
- 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.

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

Code and Standard

■ Konoike plant

Japanese PV code class 1
ASME "U" stamp

■ Division

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

Contact Information

Japan

Heat Exchanger Division

Sales Dept.

Osaka TEL : +81-6-6363-0020
Tokyo TEL : +81-3-5250-0760
Nagoya TEL : +81-52-217-2491
Hokkaido TEL : +81-11-868-8010
Chiba TEL : +81-436-24-3322
Onomichi TEL : +81-848-21-2750
<https://www.hisaka.co.jp/english/phe/>

Process Engineering Division

Food Machinery Sales Dept.

Osaka TEL : +81-72-966-9621
Tokyo TEL : +81-3-5250-0780
Nagoya TEL : +81-52-217-2492
Kyushu TEL : +81-92-432-8011
Hokkaido TEL : +81-11-868-8012
<https://www.hisaka.co.jp/english/food/>

Pharmaceutical Machinery Sales Dept.

Osaka TEL : +81-72-966-9621
Tokyo TEL : +81-3-5250-0780
<https://www.hisaka.co.jp/english/pharmacy/>

Dyeing & Finishing Machinery Sales Dept.

Osaka TEL : +81-72-966-9631
<https://www.hisaka.co.jp/english/textile/>

Valve Division

Sales Dept.

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Nagoya TEL : +81-52-217-2493
Kitakyushu TEL : +81-93-531-1151
Saitama TEL : +81-48-650-8870
Chiba TEL : +81-436-20-1660
<https://www.hisaka.co.jp/english/valve/>

MICROZERO CO., LTD.

Sales Dept.

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

ASAHI INDUSTRY CO., LTD.

TEL : +81-428-31-6841
<https://www.asahiindustry.co.jp/e/>

KOMATSUGAWA CHEMICAL ENGINEERING CO., LTD.

TEL : +81-3-3862-0515
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AUTOMATIC SYSTEM RESEARCH CO., LTD.

TEL : +81-48-956-7811
<http://www.e-asr.co.jp/>

Overseas

Malaysia

HISAKAWORKS S.E.A. SDN. BHD.
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Johor Branch

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Guangzhou Branch
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Saudi Arabia

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YANBU Branch

South Korea

HISAKA KOREA CO., LTD.
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Busan Branch
TEL : +82-51-747-0265



The showroom at the Konoike Plant was renovated in April 2020.

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- **Ome Plant** 2-9-3, Suehiro-cho, Ome City, Tokyo 198-0025 Japan
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- **Tokyo Branch** 1-19-8, Kyobashi, Chuo-ku, Tokyo 104-0031 Japan
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URL: <https://www.hisaka.co.jp/english/>



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