Low-key yet state-of-the art.
ASAHI YUKIZAI aims to be a global top niche company.

ASAHI YUKIZAI CORPORATION

■Tokyo Head Office/21st Floor, Ueno Frontier Tower 3-24-6 Ueno, Taito-ku, Tokyo 110-0005, Japan
http://www.asahi-yukizai.co.jp/en/

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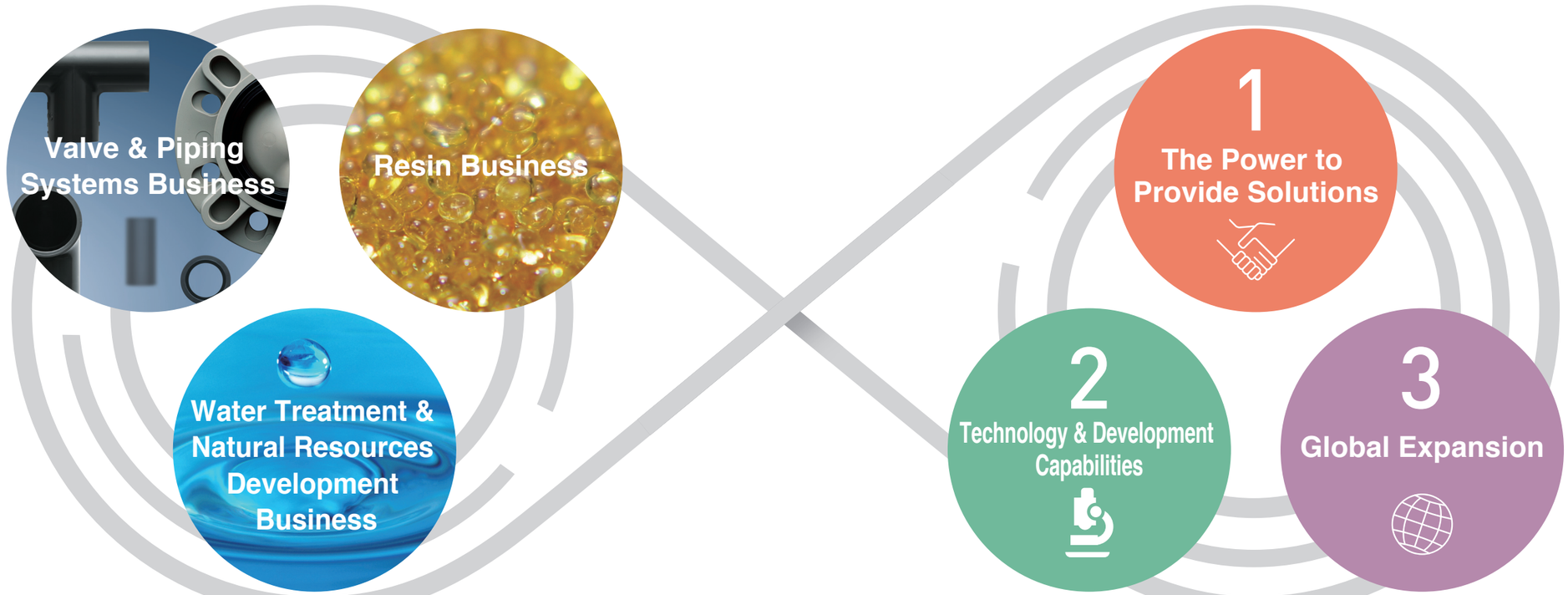
ASAHI YUKIZAI



Three promises to customers. This passion is the driving force of the Asahi Yukizai brand.

We ask ourselves the meaning for Asahi Yukizai to exist. Furthermore, we consider the best value that we can provide to our customers. In this company profile, I would like to clarify our three core businesses and the form in which they have taken as three promises to our customers.
Asahi Yukizai was founded in March 1945 as a company that built aircraft parts from wood rather than metal which was in short supply. Since then, we have continued to grow with a DNA that finds organic alternatives (wood/plastic) to metal materials. Today, we offer solutions to customers in a broad range of fields in three core businesses; the Valve & Piping Systems Business that started from the manufacturing of world's first thermoplastic valve, the Resin Business founded in the core technologies of phenol resin polymerization and synthesis technologies, and the Water Treatment & Natural Resources Development Business that pursues the potential of water resources and renewable resources.
Our corporate culture to work closely with our customers and fully solve the problems that they face is the very thing that has supported this growth for more than 70 years.
I know what we can do and what we will be able to do in the future for our customers will continue to broaden. Our corporate culture found in our commitment to these three promises and our passion to lend a hand and work closely with our customers remains the driving force pushing our three core businesses forward.
Our three core businesses and three core promises will hone our brand as a global niche company for our customers in addition to further expanding superior solutions.

Kazuya Nakano
President & Representative Director

Our tradition is to never overlook challenges.

Our guiding principle is to work closely with our customers.

We cannot overlook any of the challenges faced by our customers. This may even be called the tradition of Asahi Yukizai that has been held since our founding.
We actively visit manufacturing sites to listen to the problems that our customers are encountering while confirming these issues as quickly as possible with our own eyes to design solutions. Driven by our expertise and skill in resin accumulated for more than 70 years, we combine various peripheral technologies to develop optimal and consistent products to solve problems. Moreover, above all, we approach our customers with sincerity. These are the solutions of Asahi Yukizai.

HexaPass® Low Odor RCS solves problems in the working and surrounding environments.

Let us take a moment to introduce one example of a solution in the Resin Business. Resin Coated Sand (RCS), one of our main products, is a material used for molds when making castings. RCS is used as a mold to fire at high-temperatures above 250°C, but distinct odors are produced by conventional hexamine, which is a hardening agent. Forming and casting left a powerful irritant odor of ammonia, which would worsen the operational environment and receive complaints from people living around factories.
We have received these types of cases from several of our customers. This was the start of a development project to create a new high-quality, low-cost RCS that did not use hexamine. We looked for potential by investigating each and every type of resin and hardening accelerator as well as conducting enormous examinations of the fundamentals, such as reviews of all processes even in the manufacturing methods. Success in the development of a hardening mechanism that did not rely on hexamine brought to fruition HexaPass® Low Odor Resin Coated Sand (RCS) after several years.
Plants that have in fact used HexaPass® in their manufacturing have praised the material, commenting that “the odor is so much better than before” and “the powerful smell used to be so strong it hurt my eyes, but now I can even bring my face close to the materials” while also remarking that “there is little visible smoke which dissipates quickly.”

We provide the best solutions to each customer. This is our mission and may be our value to society.

1 The Power to Provide Solutions

2 Technology & Development Capabilities

3 Global Expansion

Our expertise show our love.

Our knowledge of materials and the experience that goes with our history bring results.

We need the highest level of technological capabilities that develops the optimal products to provide the best solutions. Let us look into what a high technological capability is. For example, if we consider our primary business of Valve & Piping Systems, we must be fully versed in resin, which is a raw material. Resin has superior properties suited for valves and piping, such as being very durability to rust and extremely lightweight which was originally adopted for pharmaceutical products. However, the strength was lower and the materials became more easily deformed under heat than metal. Taking into account these materials properties, resin was adopted to produce valves and piping that accurately functioned without breaking or leaking. Therefore, mastering the know-how to create designs in sub-millimeter units as well as the skills to shape those designs structurally is indispensable. This is why we believe when speaking about the height of technology, we are talking about the know-how and expertise in products and materials or, in other words, love. These technological capabilities have supported the DNA since our founding to find organic alternatives to metal materials.

We provide new value to our customers through technological capabilities.

As some examples from our Valve & Piping Systems Business, we have provided favorable solutions through our technological capabilities that include the Butterfly Valves Type 55IS embedded in chemical plants, the wafer check valves used in seawater lines for aquariums, and large-diameter butterfly valves adopted at power generation plants. All of these valves had once had issues such as axis leakage due to rust and the length of delivery, but we developed valves tailored to each purpose, cut the more than three-month delivery period of metal to approximately 1/3, as well as extended a lifespan that required replacement or repair every six months from ten up to 20 years.
In the Water Treatment and Natural Resources Development Business, DRICO., Ltd. possesses extrusion technology known as slant drilling technology. This technology drills 3,000 meters deep into the earth at a slant while changing the direction and slant of the well as needed during drilling to drill to the desired location in the ground with high precision. Existing wells that have been attenuated can be drilled toward a different point or dug out again.

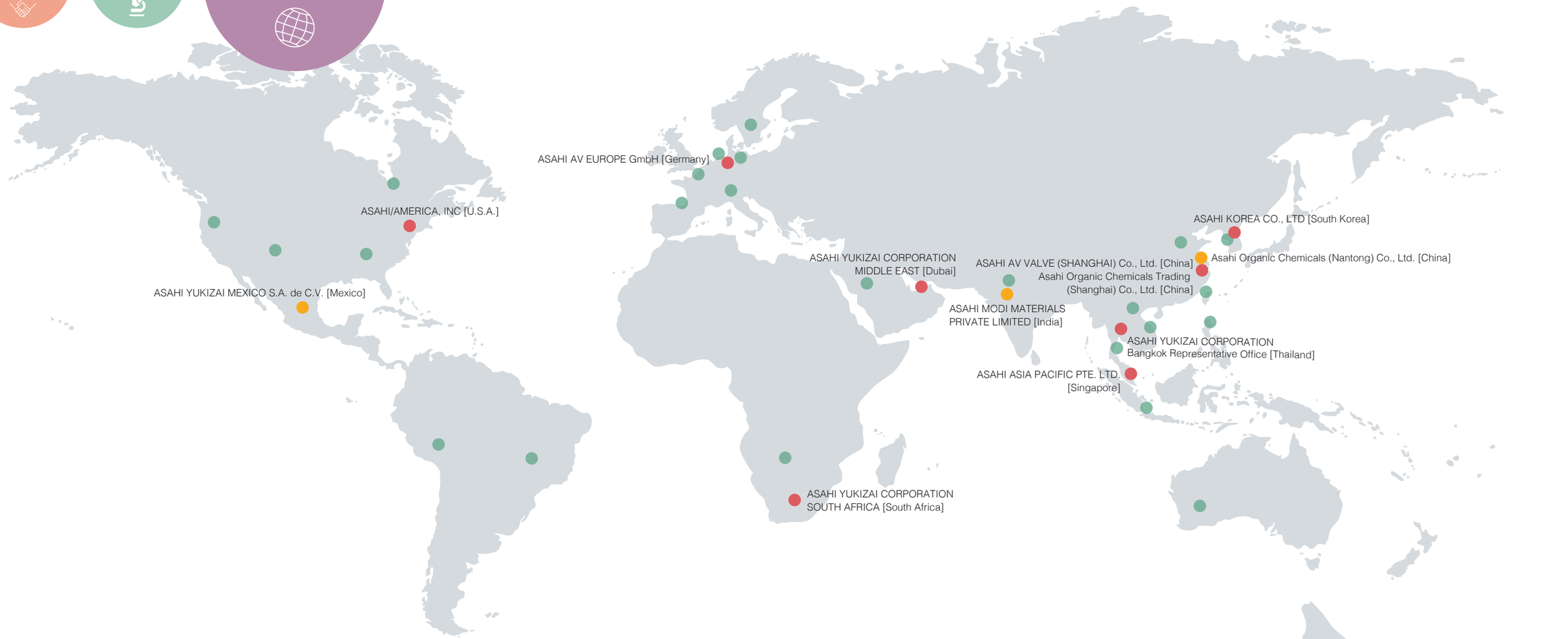
This solution has provided even greater value than ever before to our customers. Asahi Yukizai knows this value is thanks to its high technological capabilities and love.

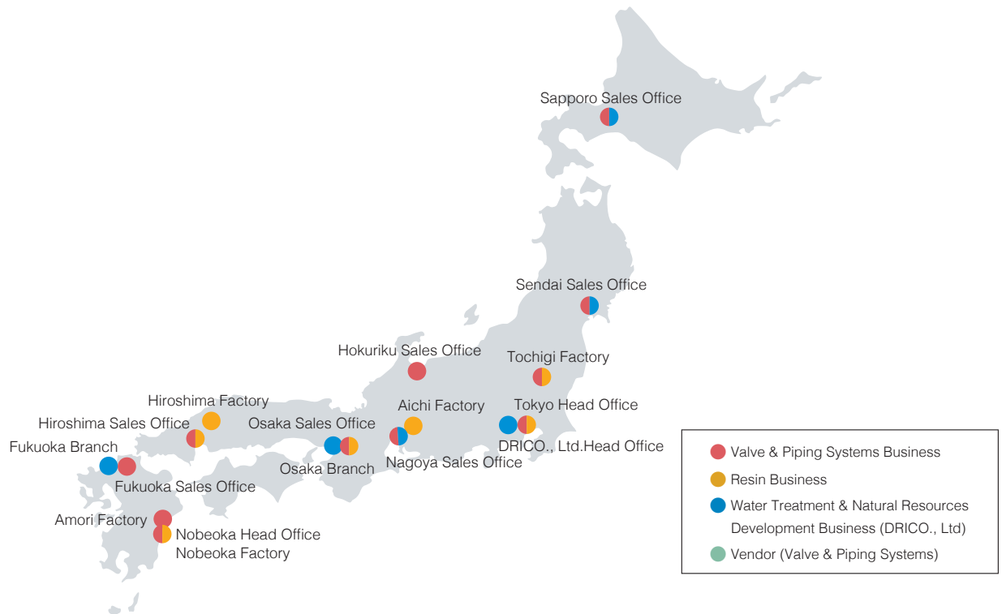
1 The Power to Provide Solutions

2 Technology & Development Capabilities

3 Global Expansion

Globalization Strategies for Solutions.





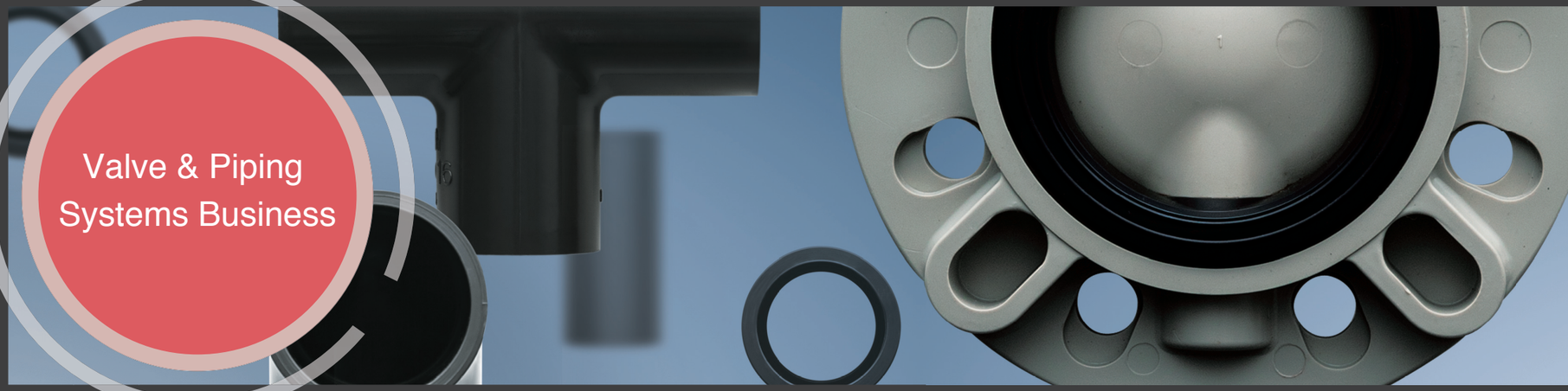
To Asia, the Middle East and Africa. Ongoing expansion overseas is underway.

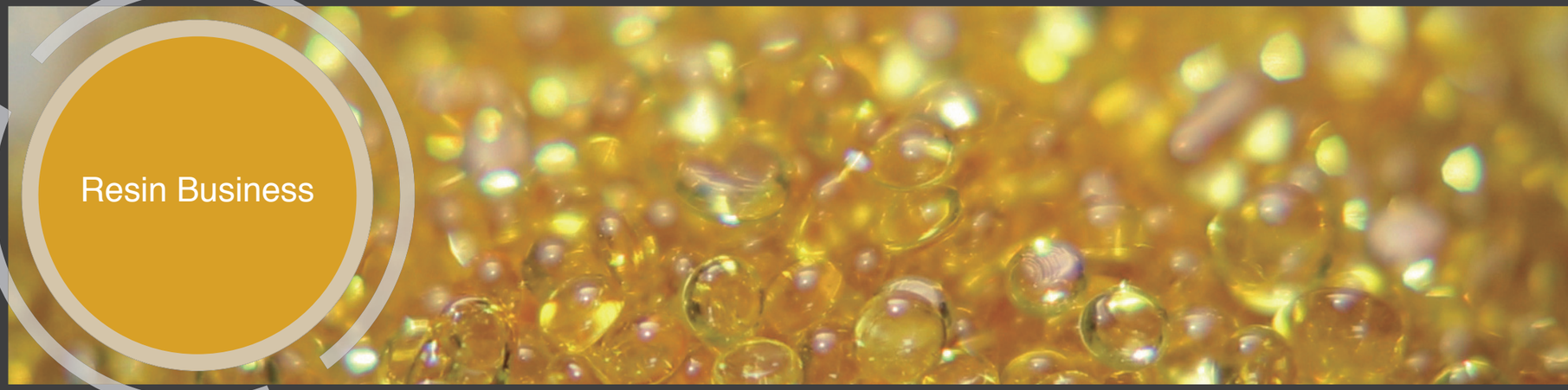
We are actively advancing our global activities to provide the same high-level solutions in Japan everywhere around the world.
In our Valve & Piping Systems Business field, we have transitioned from conventional sales through trading companies in Japan to direct sales in addition to deploying employee representatives overseas. We have also built a system able to fully grasp overseas market information and the actual situation in each sales area. Furthermore, we are actively working on the innovation of sales channels and logistics, such as directly exporting products to over 50 countries worldwide from Nobeoka. We are also opening avenues to new markets by delivering large butterfly valves to seawater desalination plants in Saudi Arabia as our foothold in the Middle East and Africa. In Singapore, we have established a base to strengthen support to customers in all Southeast Asian regions while also expanding our sales routes.
In our Resin Business field, we lead the global share in Resin Coated Sand (RCS) used in molding and casting production, such as for automotive components. We also started conducting business in China and India and Mexico in 2018.
In addition, we are optimizing production between plants in Nantong, China and Aichi while contributing to the reduction in costs for our customers with the best purchasing based on raw material prices in the phenol market as well as optimum production.

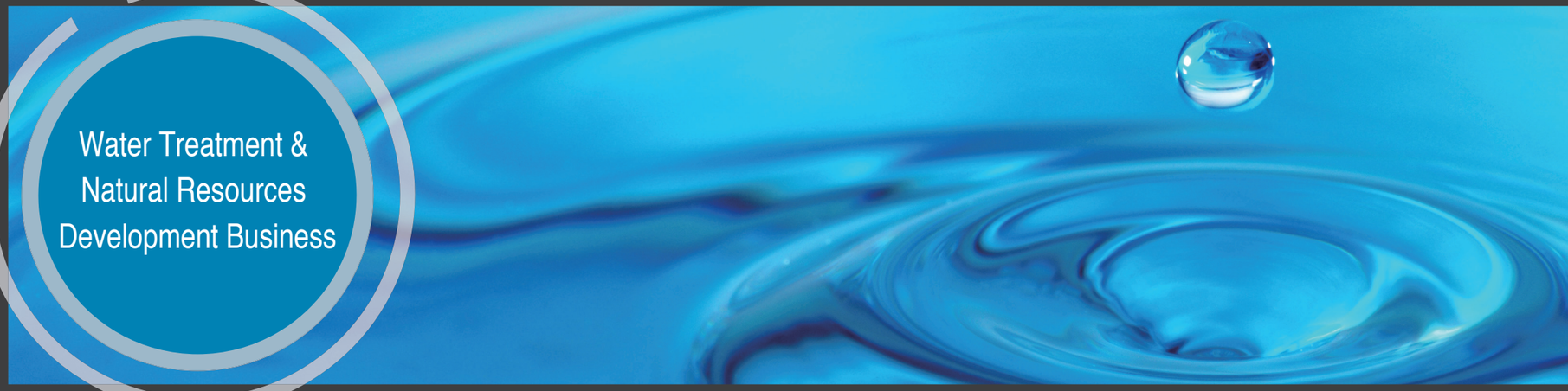
In the future, we will strive to provide friendly services by increasing our bases overseas in addition to building global solution systems unique to Asahi Yukizai, including contributions to customers from a cost perspective via inventory and logistic strategies.

Three Core Businesses

We engage in a Valve & Piping Systems Business, which supports a variety of industries with the thermoplastic valves developed as a pioneer in the industry at the core, the Resin Business, which has pursued the possibilities of phenol resin and expanded business regions, and the Water Treatment and Natural Resources Development Business, which strives to develop resources with advanced prospecting and drilling technologies.
We respond to the needs of our customers in all these fields with top-class technological capabilities to bring new value and contribute to building prosperous lives for a variety of industries and people.







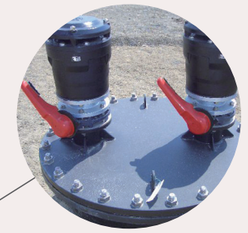
Valve & Piping Systems Business

Since manufacturing the first industrial thermoplastic valves in the world in 1956, our products have been used around the globe as products indispensable to manufacturing. From iron and chemical factories to aquariums and semiconductor plants and we have lead the industry in technological development and solutions.
We have resolved the problems our customers face with richly experienced sales, highly knowledgeable technical support as well as maintenance and services based on the safe and secure sealing technology cultivated for over 60 years, proven fluid conduit design technologies and innovative resin alloy technologies.

Low-key yet state-of-the art.

Asahi Yukizai is even used here.

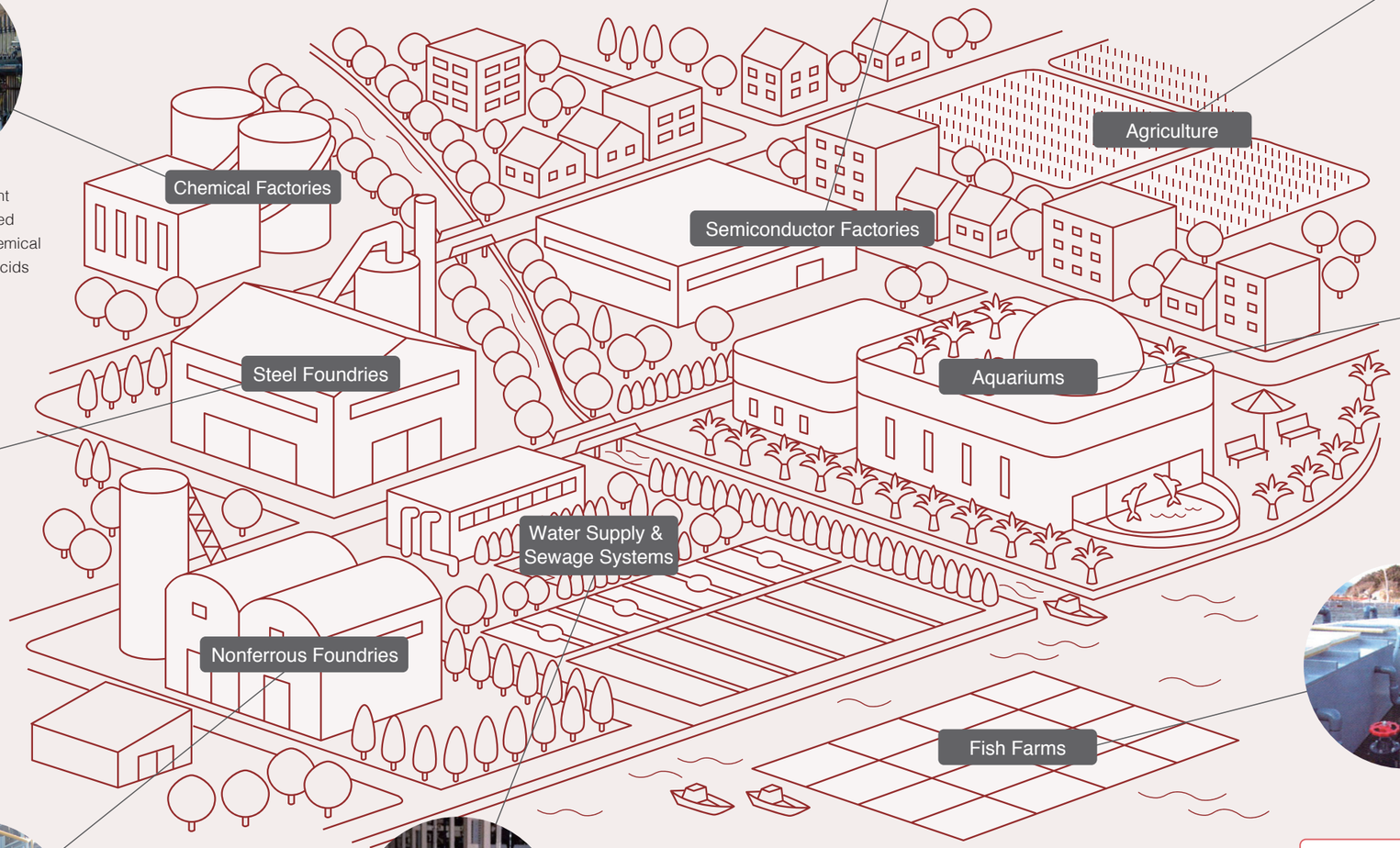
We pursue high corrosion resistance and precise fluid control technology in semiconductor and liquid crystal manufacturing processes.

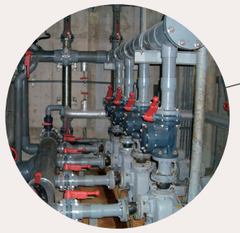


Our products have been adopted by agriculture from highly-durable and corrosion-resistant resins to irrigation pipes, gate valves, purge valves and automatic hydrants.

We provide corrosion-resistant specifications that can be used under strict conditions for chemical factories that handle strong acids and alkalis.

Thermoplastic valves, pipes and fittings that do not corrode in seawater and prevent leakage of metal ions hated by fish and other sea life are indispensable to aquariums.





We pursue high corrosion resistance and operational reliability for not only the fluid conduit of chemical solutions but also the outside surface, such as lines to wash steel with acid.

Our products are used in aquaculture facilities for fish, oysters and other sea life for corrosion resistance and long-term operational stability in sea water.

We pursue high corrosion resistance for strong acid and alkaline solutions used in metal refining processes of underground resources.

We pursue high accuracy, high reliability, and high durability in chemical solution lines used in sterilization processes.

Features of Valve & Piping Systems Business

Safe sealing technologies

Our safe-sealing technologies (O-rings, packing, etc.) built on 60 years of manufacturing know-how, ensure the safety and wellbeing of the environment and human lives.

Reliable flow technology

Huge improvements have been made to existing and newly developed products d based on the needs of the customers, such as adopting unique body construction gate valves, which was not adopted even for metal valves.

Array of our products

To meet the needs of our customers, we have arrayed 50,000 types of products, even including valves with nominal sizes of 1200 mm (48"), that are in accordance with established world standards like JIS, ANSI, DIN, etc.

The answer to satisfaction

Our highly experienced sales and technical staff ensure customer satisfaction. We offer not only products but also services like engineering and installation of comprehensive pipeline systems.

Our technology is one step ahead. Asahi Yukizai supports industry worldwide as a pioneer of thermoplastic valves.

Product Deployment

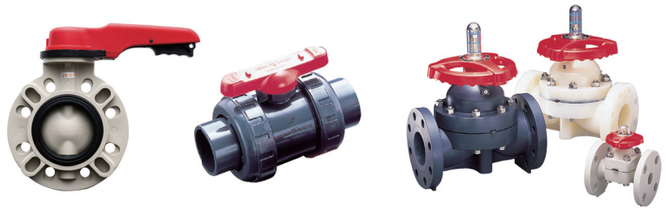
We offer a wide range of resin products as well as products with added high functionality, such as high heat resistance and high strength to be chosen for the applications of our customers. We also bring products with a blend of new added functionality as well as precision flow and stopping via fluid control technologies cultivated over many years.

ASAHI AV

Long lasting products not only highly reliable but also strong that do not rust.
Unique plasitic valves and piping from Asahi Yukizai pack superb features.

Manual Valves

Our line-up of products that comply with various sizes and standards include butterfly valves, ball valves, and diaphragm valves.



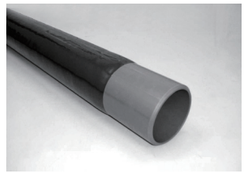
Automatic Valves

These valves integrate light, compact actuators (drives) into the thermoplastic valve unit.
These valves are driven by compressed air or an electric motor.

Piping/Fittings

PVC Pipes/Fittings
We provide pipes and various fittings such as vinyl pipes and perforated pipes.

PP Piping/Fittings
Our piping and fittings provide superior low-temperature shock resistance, chemical resistance and heat resistance.



PVC/FRP Composite Piping
PVC and PP piping is reinforced with FRP to achieve piping that has high thermal resistance and strength.

Various Secondary Supplies

We provide a vast line-up of secondary supplies, including packing, bolts, nuts, saddles, AV gauge flanges and diaphragm-type pressure gauges.

Dymatrix™

We also provide small precision valves for manufacturing lines that produce semiconductors and liquid crystal displays.

Small Precision Valves

These valves offer powerful pinch performance for solid particles and contaminates via a structure embedding a tube (pinch seal).

AVPV SERIES

These constant-pressure valves allow stable fluid control by restraining pressure fluctuations such as ripples from the pump.

AVHPR SERIES

Our stirring control units integrate a pinch valve, flow gauge and control to respond to needs for greater miniaturization in precision control.

FALCONICS™

Service Introduction

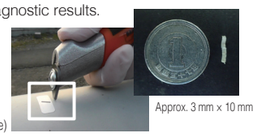
We have prepared various maintenance services with over 60 years of experience and strength in big data to contribute to a longer lifespan of the piping materials that our customers use.
Furthermore, we have built a design and installation team internally that uses piping materials to address the issues that our customers face.

Maintenance Service

■Infrared Degradation Inspection

We gather a sample of the piping and measure the renewal period. A thin scraping of the surface material is taken from the piping while the line is still in operation. We then report back to our customers about three weeks after acquiring the sample with the diagnostic results.

Diagnostic Procedure
❶Select the piping to inspect.
❷Take a sample.
❸Analyze the sample.
❹Receive a report of the diagnostic results.
(About three weeks after acquiring the sample)



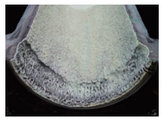
Approx. 3 mm × 10 mm

[Piping for Inspection]

●PVC pipes (U-PVC/VP, VU) ●Shock-resistant PVC pipes (HI-PVC)
●Heat-resistant PVC pipes (C-PVC)

■Ultrasonic Piping Inspection

We also provide a service to conduct inspections that include the thickness of the piping and whether there is separation between the two layers of PVC+FRP piping without removing piping that has concerns of deterioration after many years of use, and then provide a numerical report.



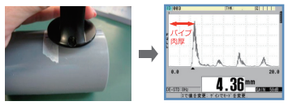
Thinning due to chlorine butter

Separation between two-layered piping

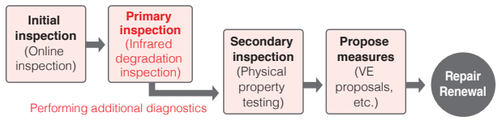
Installation defects

Diagnostic Procedure
❶Select the piping to inspect.
❷Conduct measurements locally.
❹Receive a report of the diagnostic results.
(About three weeks after acquiring the sample)

We provide degradation examples and the health status by inspecting thickness conditions of piping and separation between two-layered piping, such as U-PVC+FRP, from the diagnostic results.



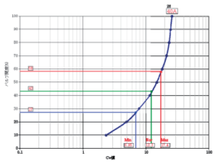
■Flow of Infrared Degradation Inspection/Ultrasonic Inspection of piping

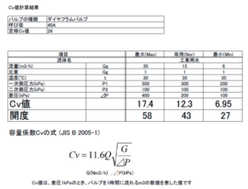


Please see the renewal period as reference for a maintenance plan.
The inspection items can be stepped up as necessary.

■Valve Sizing Software

We provide a service to display the Cv value and degree of valve openings by choosing the valve to use, entering the conditions, and then pressing the calculation key. Users can download the dedicated software after registering as a user on the website below.
http://aoc-sp.asahi-yukizai.co.jp/signup/





項目		最大(Max)	常用(Nor)	最小(Min)
流量(m3/h)	Qg	30	15	6
比重	Gg	1	1	1
温度(℃)	T1	30	30	30
一次側圧力(kPa)	P1	300	300	200
二次側圧力(kPa)	P2	100	100	100
差圧(kPa)	ΔP	400	300	100
Cv値		17.4	12.3	6.95
開度		58	43	27

容量係数Cvの式 (JIS B 2005-1)

$$Cv = 11.6Q\sqrt{\frac{G}{\Delta P}}$$

■Demo Truck

Understanding the quality and functionality with simply a catalog is difficult. The Demo Truck was born as an ASAHI AV campaign vehicle to respond to feedback from those customers. This truck is used in various scenes to provide various demonstrations of the actual water flow, product briefings as well as study sessions among other things.

1 **The truck has built in demo piping. Check functions of various products in detail.**
2 **Demonstrates pressure tests of piping. Please see the strength of our resin piping for yourself.**
3 **Describes the structure of valves with cut samples. Experience disassembly and assembly as well.**
4 **Actually experience the installation of PVC and PP piping.**
5 **Conduct testing that addresses requirements such as pressure tests and sealing tests.**
6 **Hold valve and piping consultations. Please consulate with us about any daily concerns.**

Engineering Services

We leverage the superiority of our full expertise in resin valve and piping materials to deliver total solutions from piping designs to piping installations in a broad range of industrial fields.

We have brought together a line-up of PP tanks that can stand up to acids and alkalis.

Resin Business

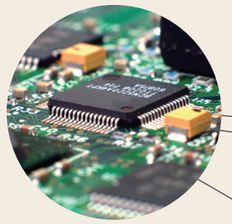
The Resin Business that began from molding materials addresses the various requirements of customers by expanding phenol resin polymers and alloy technologies in the general industry field, such as refractory material and tires, casting field, which is the core of the business today, and leading-edge electronic materials as well as on-site foam insulation materials as core technologies based on our own established high assessment technology.
Especially in the casting field, we are the largest manufacture in Japan producing both casting resins and resin coated sand that are indispensable to the automotive industry while responding in detail according to various casting properties.

Low-key yet state-of-the art.

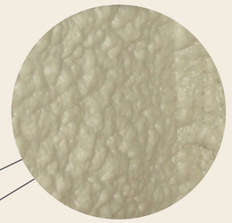
Asahi Yukizai is even used here.

Resin for electronic materials used as raw materials for components such as semiconductors, liquid crystal displays, and printing plates.

Liquid Crystal Displays

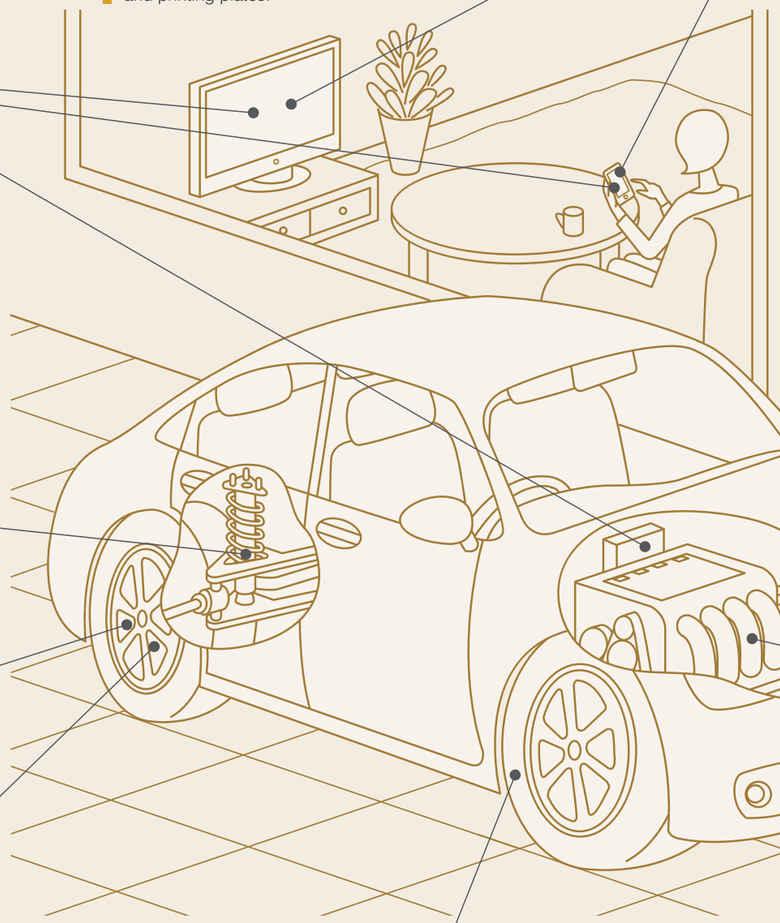


Semiconductors

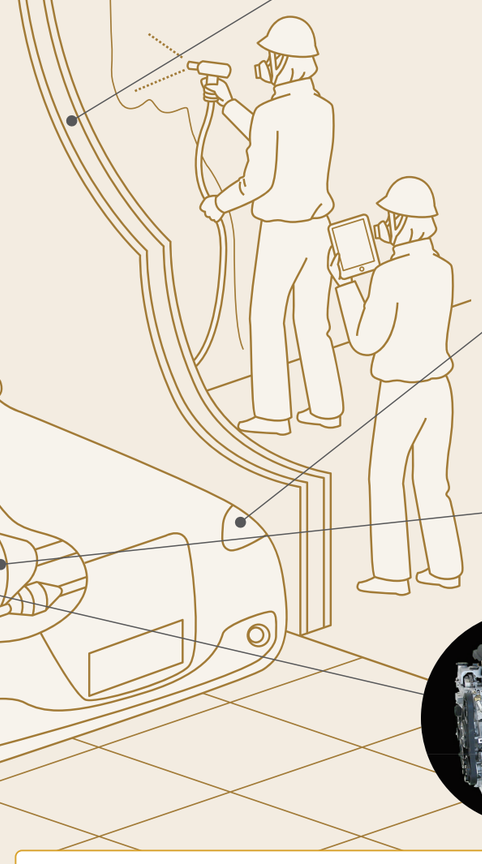


Thermal materials

Resin for foaming materials is used for heat insulation in residential housing.



Resin is used in various manufacturing processes for automotive components familiar to our everyday lives, in improving strength, and for lighter components used as alternatives to metal.

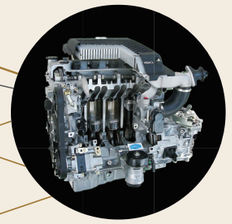


LED

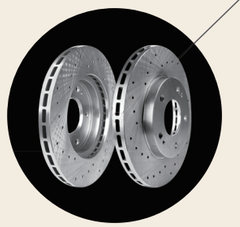
Suspension

Transmissions

Brake pads



Engines

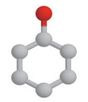


Disc brakes

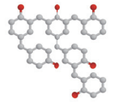
Tires

Phenol Resin

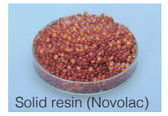
We configure a solid or fluid appropriate for the application by creating composites with phenol as a raw material. In addition to general applications such as superior heat resistance and strength as well as handles for kettles, these composites are used in cutting-edge fields of various industries for the new attributes brought to the attributes of conventional phenol resin.



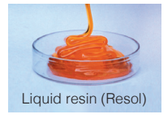
Phenol



Phenol resin



Solid resin (Novolac)

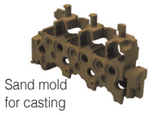


Liquid resin (Resol)

Heat resistance

Handles/latches of kettles, etc.

Adhesion/ collapsibility



Sand mold for casting

Made possible only by resin. Expanding the potentials with advanced technologies.

Product Expansion

We have met the needs of our customers by releasing several products from the pursuit of the possibilities of phenol resin in the Resin Business, which proudly holds the top industry share in the casting field.
The section introduces products in our five main fields.

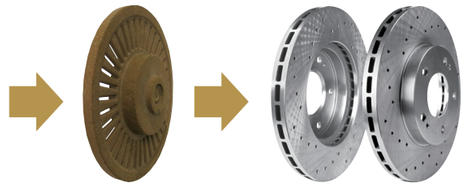
Casting Field

Shell Mold Resin

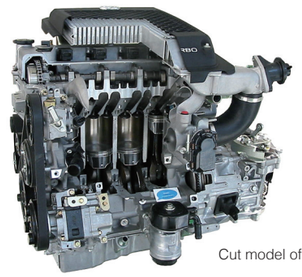
Sand molds are used in manufacturing processes for precisions casting and molding. Phenol resin is used for the binder of this sand.
We support various processes, such as igh intensity, low expansion, rapid hardening, low residue, and low odor types of processes, with a broad line-up of products tailored to the required performance of our customers.

Resin Coated Sand (RCS)

Sand molds bond with sand used in manufacturing processes for casting and molding are made with Resin Coated Sand (RCS) that clads (coats) natural sand or artificial aggregates in resin for casting and molding.
Asahi Yukizai, which manufactures RCS and casting/molding resin, can control both properties to dynamically realize customer needs.



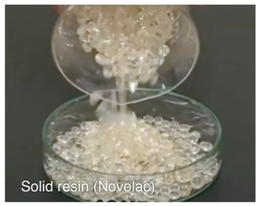
Disc brake core (Sand Mold) Disc brake



Cut model of engine

Industrial Field

Phenol resin is a material with superior heat resistance, fire resistance, durability, and friction properties in addition to excellent adhesion performance.
This material is used in a wide range of products to employ these attributes in the industrial resin field from frication material for components such as brakes and clutches to fire-resistant bricks, fire-resistant construction materials, grindstones and rubber compounds.
Asahi Yukizai provides liquid, powder and solid resin geometries to meet the needs of our customers.

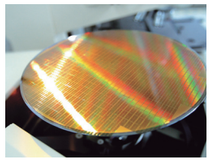


Brake pads

Tires

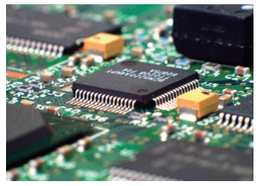
Electronic Material Field

Novolac resin and phenol derivatives are used as raw materials in photosensitive resists (photosensitive resin), which is employed in semiconductors, liquid crystal displays, printing plates and other manufacturing processes.
This field requires materials that contain very little metal, and we have been able to reduce that below parts per billion (ppb) through our unique technology.
We are supplying resin for electronic materials to the world through our Aichi-China dual site manufacturing system.



Silicon wafer

Liquid crystal



Semiconductors

Foaming Material Field

Polyurethane foam is used in various areas of our everyday lives to change properties by innovating the formulation and molding techniques while also being a chemical substance that hardens quickly.
We have been researching and developing polyurethane foam with emphasis on heat insulation applications over many years. In 2010, we released Zero-Freon® ER that contains no Freon while providing high heat insulation performance.
In addition, our products are utilized in a wide range of fields from our development of polyurethane foam that improves fire resistance by leveraging our phenol technology to the position of sodium silicate as a primary material and the release of AGSR® as a foam solidification material to prevent collapses when drilling tunnels that features high permeability.

Heat insulation for buildings/ condominiums

AGSR® solidification material

Molding Material Field

Phenol resin molding materials offer superior heat resistance, dimensional stability, electric insulation, and mechanical strength.
The high strength type greatly contributes to light weight automobiles as an alternative to metal parts while the heat resistant sliding type contributes to a reduction in the environmental impact, such as a transition to oil-less mechanical components. Furthermore, diallylphthalate resin molding materials are widely used in electronic product applications to provide superior electric properties in hot, humid environments.

Automotive components

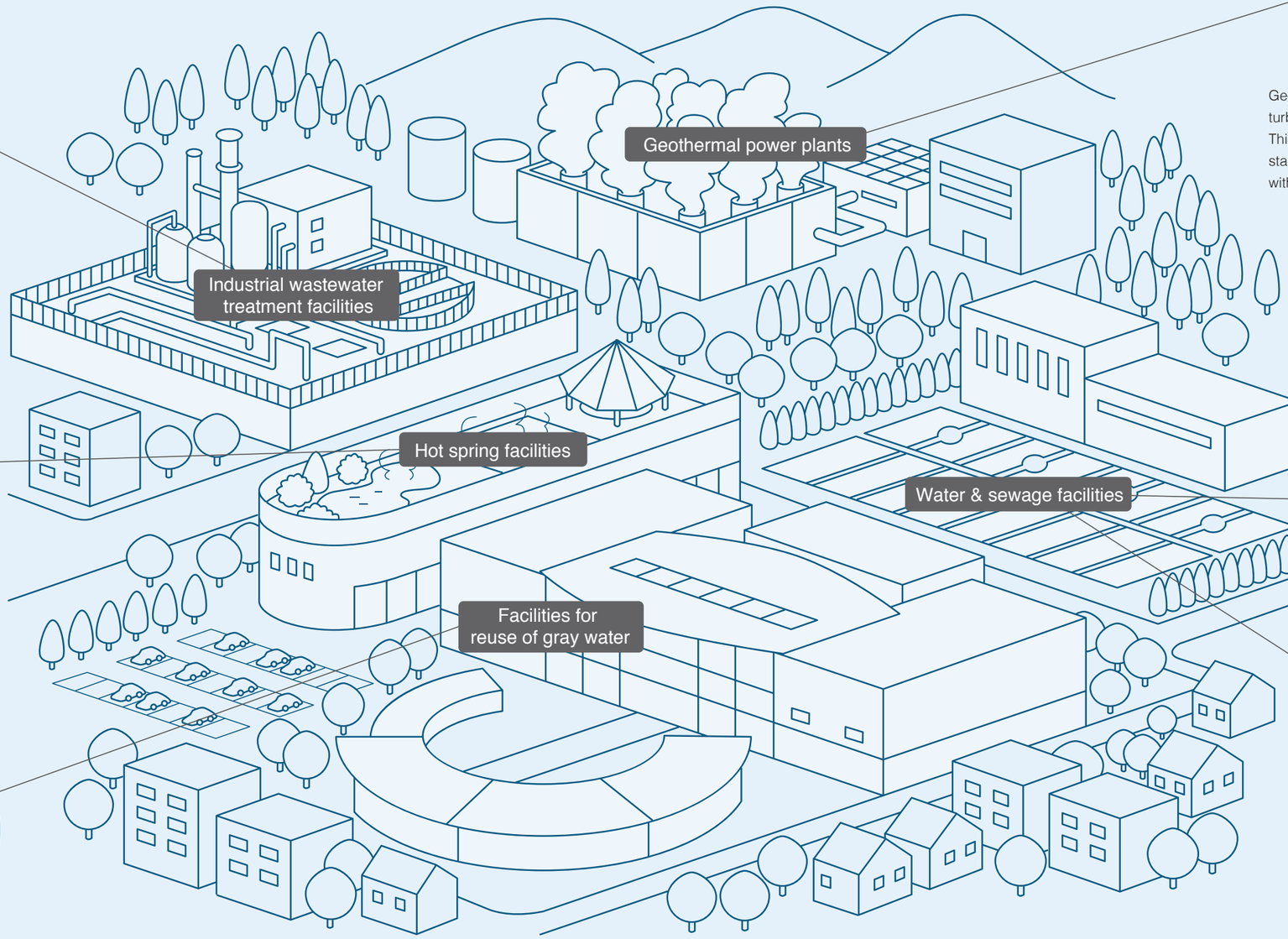
Water Treatment & Natural Resources Development Business

Our Water Treatment & Natural Resources Development Business has pursued the creation of water values and been involved in the life and living of people with Drico., Ltd., a member of the Asahi Yukizai Group since September 2013.
As a pioneer of underground resource development, we have actively worked to cultivate resources, such as our track record in the development of the many hot springs in Japan and geothermal development highlighted by green energy in addition to our aim to establish an environmentally-friendly, recycling-oriented society.

Low-key yet state-of-the art.

Asahi Yukizai is even used here.

We provide total water engineering that includes the treatment of industrial water and waste water at factories and other industrial facilities.

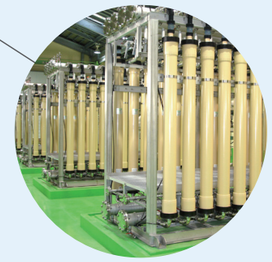


Geothermal power is generated by turning a turbine with steam heated by geothermal energy. This type of power generation is expected to be stable renewable energy that does not fluctuate with weather conditions.

We are involved in all aspects of hot spring development from hot spring surveys and excavation as well as drilling, design and construction of hot water systems, treatment of wastewater as well as maintenance and management.

DRICO., Ltd. holds the top share in gray water systems that reuse water that was once used in buildings and commercial facilities.

We contribute to building comfortable living through the design and construction of waterworks and sewage treatment facilities.



DRICO., Ltd. http://www.drico.co.jp/

Aiming for a reuse aware society. We contribute to the life and living of people with our unique technology.

Business Expansion

We are expanding our businesses with our know-how in water treatment that we have accumulated internally for more than 60 years as well as our resource development technology, such as hot spring development and geothermal power generation. We have even gone so far as putting in place maintenance services internally that conduct ongoing maintenance and management of the systems that we have worked on while delivering advanced solutions to customers through our total capabilities in water treatment.

Natural Resources Development Business

We are expanding several businesses in Japan in the field of drilling, such as the development of geothermal power generation and hot spring development.

Water Treatment Business

We design and construct various water and sewage facilities with emphasis on facilities to reuse gray water that recycles the wastewater of buildings.

Environmental Chemical Business

We are developing chemical agents, such as deodorizers and fat and oil decomposition agents necessary for water and gray water treatment processes.

Maintenance Business

We are fully supporting customer systems by providing maintenance and management services internally for various systems that we have designed and constructed.

Natural Resources Development Business

Well Drilling/Geothermal Development

DRICO., Ltd. has built an extensive track record in the well drilling field since its founding.
In the geothermal development field, we are also expanding business center upon drilling of survey wells, production wells, and injection wells to supply high-pressure, high-temperature steam used in geothermal power generation, which has been gaining attention in recent years as renewable energy.

Steam jet of geothermal well

Drilling site of geothermal well

Hot Spring Development

DRICO., Ltd. provides all-inclusive services including hot spring surveys and excavation, design and construction of systems of use, hot spring wastewater treatment, maintenance and management.
It has drilled more than 300 hot spring wells with a total excavation length of 350 km, contributing to regional revitalization.

A hot spring gushing out

Leisure resort facility Spa LaQua (Bunkyo-ku, Tokyo)

Water Treatment Business

Waterworks facilities

We provide full-fledge services from proposals to the design, construction, maintenance and management of optimal waterworks facilities based on water quality and the needs of our customers.

Facilities for reuse of gray water

We contribute to effective use of water resources and a reduction in water rates by researching and developing systems to collect, process, and reuse wastewater from commercial buildings in cities as well as from factories.

Sewage facilities

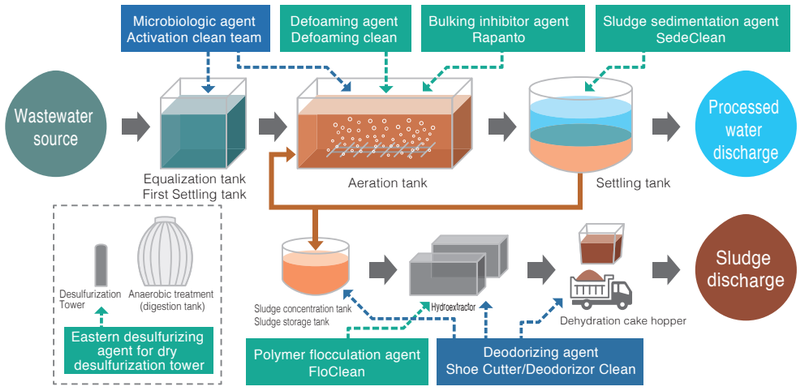
We also possess a broad construction track record even in the field of public sewage facilities and contribute to building conformable living environments through design and construction technology.

Industrial water and wastewater treatment facilities

We propose systems to provide the right water quality based on the application while considering the economics, such as sea and salt water desalination plants and water for manufacturing from ultra-pure water to electronic, pharmaceutical and food industries.

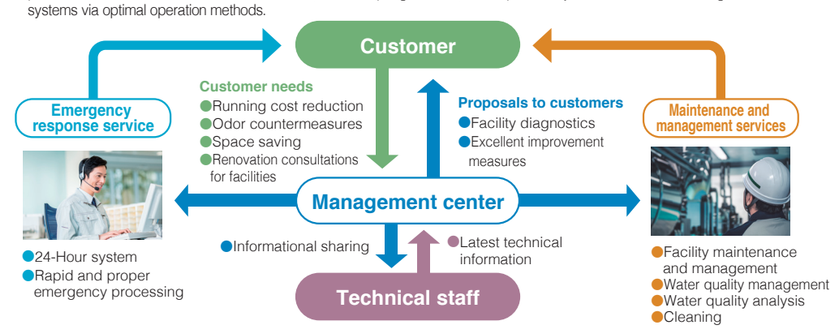
Environmental Chemical Business

We handle chemical agents such as hydrogen sulfide and methyl mercaptan as well as chemical agents used to solve problems such as deodorizers that deal with various odors as well as foam countermeasures to sludge and sedimentation in addition to chemical agents to improve water treatment of micro-organism compounds independently developed for waste water.



Maintenance Business

We conduct diagnostics of the water quality and various equipment for measure related to water, such as gray water plants, purification tanks, industrial wastewater facilities, and hot spring facilities, encompassed by maintenance and management systems via optimal operation methods.

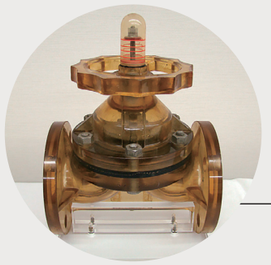


History

We have grown as a leading company that provides top-class technology in three fields while pursuing the potential of resin since the start of Asahi Yukizai.

Started manufacture of Resin Coated Sand (RCS)

1963



1959

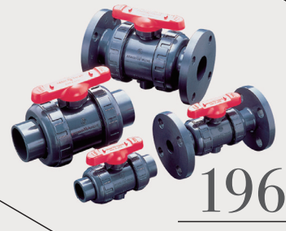
Started manufacture of diaphragm valves.

1954

Started manufacture of shell mold resin

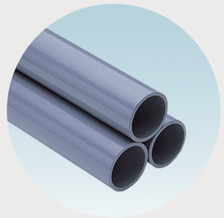
1969

Started manufacture of butterfly valves.



1965

Started manufacture of ball valves.

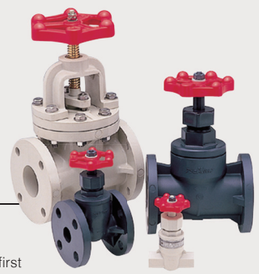


1974

Started manufacture of PVC pipes in Kitakata (current Nobeoka City).

2001

Adopted a dual head office system.

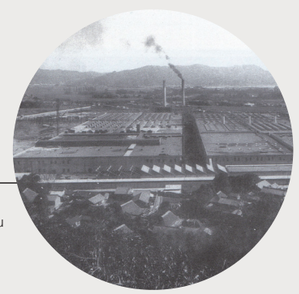


1956

Started manufacture of stop valves and gave birth to the ASAHI AV valve, the world's first thermoplastic valve for plastic molding.

1946

Started manufacture of AV LITE molding materials.



1945

Established Nicchitsu Kozai Kogyo Co., Ltd. with a capital of two million yen as a subsidiary of Nicchitsu Chemical Industry Co., Ltd. (currently known as Asahi Kasei Corporation) to manufacture reinforced synthetic plywood for aircraft applications.

2010

Started manufacture of Zero-Freon® ER foam insulation materials for large buildings.

2013

Acquired all stock of DRICO., Ltd, and started the Water Treatment & Natural Resources Development Business.

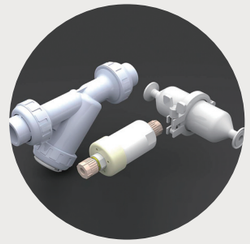
Water Treatment & Natural Resources Development Business

Resin Business

Valve & Piping Systems Business

2012

Started manufacture of new axial mixer.



2000

Started manufacture of Dymatrix™ series.

1945 ■ Established Nicchitsu Kozai Kogyo Co., Ltd. with a capital of two million yen as a subsidiary of Nicchitsu Chemical Industry Co., Ltd. (currently known as Asahi Kasei Corporation) to manufacture reinforced synthetic plywood for aircraft applications.
■ Changed the trade name to Asahi Veneer Industry Co., Ltd. and shifted to the manufacture and sale of phenol resin molding materials, synthetic resin molding products, and plywood.

1946 ■ Started manufacture of molding materials.

1951 ■ Constructed Nobeoka Factory at the present site.

1954 ■ Started manufacture of shell mold resin

1955 ■ Registered as a construction company (plumbing business).

1956 ■ Started manufacture of stop valves.

1959 ■ Started manufacture of diaphragm valves.

1960 ■ Debuted stock on the Tokyo Stock Exchange.

1961 ■ Listed stock in the second section of the Tokyo Stock Exchange.

1963 ■ Started manufacture of Resin Coated Sand (RCS)

1965 ■ Started manufacture of ball valves.

1968 ■ Constructed Aichi Factory and started manufacture of shell mold resin and Resin Coated Sand (RCS).

1969 ■ Started manufacture of butterfly valves.

1974 ■ Listed stock in the first section of the Tokyo Stock Exchange.
■ Started manufacture of PVC pipes in Kitakata (current Nobeoka City).

1979 ■ Opened Europe representative office in Germany.

1983 ■ Increased capital to 5.0001 billion yen by free issue of shares.

1989 ■ Constructed labor saving factory at Nobeoka.

1991 ■ Constructed Laboratory and Research Center at Nobeoka.
■ Constructed Hiroshima Factory and started manufacture of Resin Coated Sand (RCS).

1996 ■ Opened Singapore Office.
■ Constructed Tochigi Factory and started manufacture of Resin Coated Sand (RCS).

1998 ■ Started manufacture of PVC pipes at the Tochigi Factory.

1999 ■ Acquired all stock of Asahi/America, Inc. (consolidated subsidiary).

2000 ■ Constructed Amori Factory (Amori-machi, Nobeoka) and transferred the Engineering Division from inside the Nobeoka Factory.
■ Started manufacture of Dymatrix™ series.

2001 ■ Established a dual head office system (Nobeoka Head Office and Tokyo Head Office), and adopted the two business division system (Valve & Piping Systems business and Resin business).

2002 ■ Opened Shanghai Office.
■ Established AOC Assemble Co., Ltd. (consolidated subsidiary).

2004 ■ Constructed Aichi Research Laboratory.

2005 ■ Completed construction of a local factory of the RCS manufacture in Thailand to which our technology was granted.
■ Established Asahi Organic Chemicals Trading (Shanghai) Co., Ltd. (consolidated subsidiary).

2006 ■ Established Asahi Organic Chemicals (Nantong) Co., Ltd. (consolidated subsidiary).

2008 ■ Closed Singapore Office and opened Thailand Office.
■ Established ASAHI AV VALVE (SHANGHAI) Co., Ltd. (consolidated subsidiary).

2010 ■ Started manufacture of Zero-Freon® ER foam insulation materials for large buildings.

2011 ■ Started manufacture of Zero-Freon® Fit foam insulation materials for wooden houses.
■ Start sales of Falconics™
■ Merged Asahi-Yuki Sales (Central) Co., Ltd. into Asahi-Yuki Sales (Tokyo) Co., Ltd., both of which were our wholly-owned subsidiaries (consolidated subsidiary).

2012 ■ Established ASAHI MODI MATERIALS PRIVATE LIMITED.
■ Started sales of Hexapass® that realizes a reduction in odor produced during casting.
■ Started manufacture of new axial mixer.

2013 ■ Merged Asahi-Yuki Sales (West) Co., Ltd. into Asahi-Yuki Sales (Tokyo) Co., Ltd., whose trade name has been changed to Asahi AV Japan Corporation. (consolidated subsidiary).
■ Established a phenol resin factory for electronic materials at Asahi Organic Chemicals (Nantong) Co., Ltd.
■ Established a resin factory for molding/casting at Asahi Organic Chemicals (Nantong) Co., Ltd.
■ Acquired all stock of DRICO., Ltd. (consolidated subsidiary).

2014 ■ Newly-established section in the Water Treatment & Natural Resources Development Business, and adopted the three business division system.
■ Established ASAHI KOREA CO., LTD. (consolidated subsidiary).
■ Established ASAHI AV EUROPE GmbH (consolidated subsidiary).

2016 ■ Established ASAHI ASIA PACIFIC PTE. LTD. (consolidated subsidiary).
■ Changed the trade name to ASAHI YUKIZAI CORPORATION
■ Established ASAHI YUKIZAI MEXICO S.A.de C.V. (consolidated subsidiary).

2017 ■ Acquired stock of DAIWA KOUSAN CORPORATION (consolidated subsidiary).

2018 ■ Acquired stock of ASAHI AV TRADING CO., LTD. (consolidated subsidiary).
■ Merged Asahi AV Japan Corporation and ASAHI AV TRADING CO., LTD., both of which were our wholly-owned subsidiaries, into AViTOP CORPORATION.
■ Opened ASAHI YUKIZAI CORPORATION Middle East Branch.

■Office Information

Valve & Piping Systems Division	Sapporo Sales Office	8th Floor Sapporo-Kitaguchi Bldg. 4-17-1 Kita 7 Jonishi, Kita-ku, Sapporo-shi, Hokkaido 060-0807, Japan TEL: +81-11-746-7710 FAX: +81-11-746-7714
	Sendai Sales Office	2nd Floor Nippon Life Insurance Sendai Kotodai-Nishi Bldg. 12-30 Aoba-ku, Sendai-shi, Miyagi 980-0802, Japan TEL: +81-22-213-3911 FAX: +81-22-213-3912
	Tokyo Sales Office	21st Floor, Ueno Frontier Tower 3-24-6 Ueno, Taito-ku, Tokyo 110-0005, Japan TEL: +81-3-5826-8829 FAX: +81-3-3834-7592
	Nagoya Sales Office	4th Floor KDX Nagoya Nichigin-Mae Bldg. 1-4-16 Nishiki, Naka-ku, Nagoya-shi, Aichi 460-0003, Japan TEL: +81-52-222-8533 FAX: +81-52-222-8233
	Hokuriku Sales Office	3rd Floor IMS Bldg. 2-13-1 Kurose-Kitamachi, Toyama-shi, Toyama 939-8216, Japan TEL: +81-76-425-2531 FAX: +81-76-422-3465
	Osaka Sales Office	7th Floor Imon Kawaramachi Bldg. 4-5-9 Kawaramachi, Chuo-ku, Osaka-shi, Osaka 541-0048, Japan TEL: +81-6-4707-1080 FAX: +81-6-4707-1088
	Hiroshima Sales Office	9th Floor Hiroshima Inarimachi Dai-ichi Seimei Bldg. 2-16 Inarimachi, Minami-ku, Hiroshima-shi, Hiroshima, 732-0827, Japan TEL: +81-82-506-0195 FAX: +81-82-264-3313
	Fukuoka Sales Office	8th Floor Hakata-Eki Minami Bldg. 1-8-13 Hakata-Eki Minami, Hakata-ku, Fukuoka-shi, Fukuoka 812-0016, Japan TEL: +81-92-413-8700 FAX: +81-92-413-8722
Resin Division	Foundry Material Sales Department (East Japan Group)	1840 Asa-Higashiyama, Kami-Ishigami, Otawara-shi, Tochigi 324-0037, Japan TEL: +81-287-29-1881 FAX: +81-287-29-2828
	Foundry Material Sales Department (Central Japan Group)	Shinzu 26-4 Minamiyana, Fuso-cho, Niwa-gun, Aichi 480-0105, Japan TEL: +81-587-92-9111 FAX: +81-587-92-9110
	Foundry Material Sales Department (West Japan Group)	9th Floor Hiroshima Inarimachi Dai-ichi Seimei Bldg. 2-16 Inarimachi, Minami-ku, Hiroshima-shi, Hiroshima, 732-0827, Japan TEL: +81-82-568-5503 FAX: +81-82-263-5105
	Foaming Material Sales Department (East Japan Sales Group, Market Development Group)	21st Floor, Ueno Frontier Tower 3-24-6 Ueno, Taito-ku, Tokyo 110-0005, Japan TEL: +81-3-5826-8833 FAX: +81-3-3834-7592
	Foaming Material Sales Department (West Japan Group)	7th Floor Imon Kawaramach Bldg. 4-5-9 Kawaramachi, Chuo-ku, Osaka-shi, Osaka 541-0048, Japan TEL: +81-6-4707-0365 FAX: +81-6-4707-0366
	Electronic Materials Sales Department, Molding Materials Sales Group	21st Floor, Ueno Frontier Tower 3-24-6 Ueno, Taito-ku, Tokyo 110-0005, Japan TEL: +81-3-5826-8834 FAX: +81-3-3834-7592
Factories	Nobeoka Factory	2-5955 Nakanose-cho, Nobeoka-shi, Miyazaki 882-8688, Japan TEL: +81-982-35-9374 FAX: +81-982-35-9353
	Aichi Factory	Shinzu 26-4 Minamiyana, Fuso-cho, Niwa-gun, Aichi 480-0105, Japan TEL: +81-587-93-1030 FAX: +81-587-93-8850
	Tochigi Factory	1840 Asa-Higashiyama, Kami-Ishigami, Otawara-shi, Tochigi 324-0037, Japan (RCS) TEL: +81-287-29-1881 FAX: +81-287-29-1711 (Pipe) TEL: +81-287-29-1879 FAX: +81-287-29-1729
	Hiroshima Factory	5088-61 Aza-Oji, Shinjocho, Shobara-shi, Hiroshima, 727-0004, Japan TEL: +81-824-72-8011 FAX: +81-824-72-8003
	Amori Techno Center	1176-1 Amori-cho, Nobeoka-shi, Miyazaki 882-0071, Japan TEL: +81-982-23-5800 FAX: +81-982-23-5810
Japanese Affiliates	AViTOP CORPORATION	4th Floor, Matsumura Bldg. 6-16-20 Ueno, Taito-ku, Tokyo 110-0005, Japan TEL: +81-3-6284-2591 FAX: +81-3-6284-2592
	DRICO., Ltd.	3rd Floor Nihonbashi Sunrise Building 2-13-10 Nihonbashi, Chuo-ku, Tokyo 103-0027, Japan TEL: +81-3-6262-1421 FAX: +81-3-6262-1431
	DAIWA KOUSAN CORPORATION	7-19-18 Hirai, Naka-ku, Okayama-shi, Okayama 703-8282, Japan TEL: +81-86-277-5111 FAX: +81-86-277-5118
Overseas Subsidiaries/ Affiliate Companies	ASAHI YUKIZAI CORPORATION Bangkok Representative office	323 United Center Building, Unit 3004B, 30th Floor, Silom Road, Silom, Bangrak, Bangkok 10500, Thailand TEL: +66-0-2-631-1100 FAX: +66-0-2-631-1103
	ASAHI YUKIZAI CORPORATION Middle East Branch	6WB344 Dubai Airport Free Zone, Dubai, 371674, UAE TEL: +971-50-377-2970
	ASAHI/AMERICA,INC	655 Andover, St. Lawrence, MA 01843, USA TEL: +1-781-321-5409 FAX: +1-978-685-3010
	Asahi Organic Chemicals Trading (Shanghai) Co., Ltd.	Rm 405, East Tower, Sun Plaza NO.88 Xianxia Road, Changning District, Shanghai, 200336, China TEL: +86-21-6278-7862 FAX: +86-21-6278-7892
	ASAHI AV VALVE (SHANGHAI) Co., Ltd.	No.18, Shanghai Malu Fengdeng Industry City, 615 Fengdeng Road, Malu Town, Jiading District, Shanghai 201818, China TEL: +86-21-6139-2600 FAX: +86-21-6139-2606
	Asahi Organic Chemicals (Nantong) Co., Ltd.	No.21 Tong Wang Road, Nantong ETDZ, Jiangsu, 226017, China TEL: +86-513-8359-2400 FAX: +86-513-8359-3400
	ASAHI AV Europe GmbH	Kaiser-Friedrich-Promenade 61 D-61348 Bad Homburg, Germany TEL: +49-6172-9175-0 FAX: +49-6172-9175-25
	ASAHI MODI MATERIALS PRIVATE LIMITED	802, 8th Floor, MATRIX, Near Divya Bhaskar Press, Corporate Road, Prahlad Nagar, Ahmedabad - 380015, Gujarat, India TEL: +91-79-40081200
	ASAHI ASIA PACIFIC PTE. LTD.	209 Woodlands Avenue 9, #05-57/58, 738959, Singapore TEL: +65-6755-8033 FAX: +65-6754-7033
	ASAHI KOREA CO.,LTD	#805-D Digitalempire office, 16, Deogyeong-daero 1556 beon-gil, Yeongtong-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Korea TEL: +82-31-203-2050 FAX: +82-31-203-2880
	ASAHI YUKIZAI MEXICO S.A. de C.V.	Lote 25, Manzana 2, Carretera PANAMERICANA Sur, Parque Industrial FINSA Aguascalientes Cond., Aguascalientes, CP 20393, Mexico TEL: +52-449-129-3252

Basic Philosophy

ASAHI YUKIZAI CORPORATION & Our Group's commitment to offering new values with a spirit of “Challenge, Create and Change” allows us to enrich people's lives.

Philosophy of Business Management

For people

It is our belief that people are the most important asset and we aim to become a company in which people could enjoy working.

For our customers

We offer products and services with the aim to satisfy our customers, provide appropriate information for our stakeholders, enhance our reliability and become a highly profitable company.

For new and original technology

We always explore new fields with our proprietary technologies and aim to develop innovative products in time to meet needs.

For the transformation info a global business

We aim to develop businesses with our expertise and marketing strategies and make them known to the international society.

For safety and ecological preservation

We proactively promote safety activities.
We also aim for development of environment-friendly products and manufacturing processes.

For abiding by laws and social norms and moving forward hand in hand with society

We aim to carry out our corporate activities in a highly ethical manner and to be model corporate citizens.

■Corporate Overview

Business Name: ASAHI YUKIZAI CORPORATION
President & Representative Director: Kazuya Nakano
Established: March 12, 1945
Capital: 5,000,100,000 yen
Employees: 1,355 (as of ended March 2018. Consolidated)
Head Office: Tokyo Head Office/21st Floor, Ueno Frontier Tower 3-24-6 Ueno, Taito-ku, Tokyo 110-0005, Japan
Nobeoka Head Office/2-5955 Nakanose-cho, Nobeoka-shi, Miyazaki 882-8688, Japan