



azbil Group Profile



Azbil Corporation

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www.azbil.com/



The azbil Group promotes environment-friendly initiatives.

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Azbil Corporation

Bringing Everyone Happiness and Fulfillment through Automation

Since its founding in 1906, the azbil Group has concentrated on automation technology. The company founder's idea was to "free people from drudgery." Based on that idea, the azbil Group's technology has brought safety, comfort, and fulfillment to buildings, factories, and families, and has contributed to preserving the environment. The azbil Group is responding to the demands of the times, meeting customer needs, and grappling with society's problems as it continues to refine its technologies and products.



History 1

Driving the development of Japanese industry with an entrepreneurial spirit that seeks to "free people from drudgery"

In 1906, Takehiko Yamaguchi, the company's founder, established "Yamatake Shokai Co., Ltd.," a machine tool import trading company out of a desire to "free the Japanese worker from drudgery." The history of the azbil Group started from here.

From that time, Yamatake expanded the products it offered, from machine tools to industrial instruments.

In the 1950s, the company sold air conditioning control systems, microswitches, and other products. Although Yamatake had only imported and sold products up to that point, it began to focus on domestic production of equipment that it developed in Japan.

Yamatake understood the importance of automation and was swift to commercialize products. Thanks to those products, the quality and scale of Japanese industry grew from the postwar reconstruction period through the high-growth period.

Closeup Growing together with Honeywell Inc.

Yamatake took on the challenge of creating new value through automation. Its important partner was the U.S. firm Honeywell Inc. At that time, Honeywell possessed the world's most advanced measurement and control technology.

In 1953, Yamatake formed a 50-50 capital alliance with Honeywell. In 1956, Yamatake changed its name to Yamatake-Honeywell Keiki Co., Ltd. Together, Yamatake and Honeywell created an era, the era of industrial automation in Japan.



History 2

Creating value for the new era while protecting the environment under the "Savemation" concept

During the period of high economic growth in Japan, Yamatake-Honeywell helped industry to develop with air conditioning control technology for large buildings and process control technology for petrochemical plants. It earned customers' trust as a comprehensive automation manufacturer. At the same time, through these achievements, Yamatake-Honeywell continued to grow. However, the first oil crisis in 1973 caused Japan's economic growth to stop.

Because energy saving had become a priority in Japan, the corporate philosophy of "Savemation"* was established, and was also beneficial for the environment. The company's clearly expressed wish was to "create unprecedented energy-efficiency and other value" and "to contribute to society through new products and services." This approach was highly acclaimed by Japan's industrial community at the time.

*Save + Automation = "Savemation"

History 3

With the goal of unending industrial progress and a continuing life of abundance, we follow a philosophy of "human-centered automation" as we continue to develop the company's businesses.

In 2006, our 100th anniversary, the azbil Group introduced a new Group philosophy of "human-centered automation."

This expresses the company's decision to provide safety, comfort, and fulfillment for people in offices, factories, and homes, and to help to preserve the environment. We intend to achieve this vision by using our expertise in advanced measurement and control technology and our energy management know-how developed over many years.

The azbil Group is taking its founding spirit to a new level. For more than a century, we have continued to take on the challenge of creating new value.

Innovating with Advanced Technology and Know-how to Create an Exciting Future

The azbil Group always strives to understand the needs of the customer and of society. We continue to reach for new horizons with state-of-the-art technology in order to build a society where people and automation co-create the future. Our control technology is evolving from analog to digital, and now incorporates the IoT and AI.

Closeup

Training engineers for excellence in the theory and application of IoT and AI technology

In the coming era, the ability to use IoT and AI technology will be commonplace. With that in mind, we have implemented a software engineer development program to train engineers to play an active role in that future. The program covers the latest research topics and case studies that apply new technology to real-world business.

The azbil Group is reinforcing its knowledge and technological capabilities so that it can continue to provide customers with high-performance software and advanced engineering and services.



Solution 1

Using state-of-the-art measurement and control technologies to create new solutions

The advent of new technology in areas like the Internet of Things (IoT) and artificial intelligence (AI) is changing many types of products, including systems, applications, networks, controllers, sensors, and other devices.

The azbil Group focuses on develop-

ing core technology in two areas, equipment and applications. Our equipment is used for measuring various factors in buildings, factories, and plants, and our applications add value to the information gathered by the equipment.

We have gained new knowledge and experience in AI applications, networks, and system architecture. Using that knowledge, we are efficiently transforming the workplaces of our customers and boosting their growth.

Solution 2

Leveraging the advantages of our measurement technology, we are expanding in the area of MEMS sensors.

Measurement devices, the azbil Group's main stay products, contain sensors developed in-house. These sensors, which are a type of microelectromechanical system (MEMS), detect pressure, flow rate, and humidity. MEMS sensors are vital for making competitive products. It is important that the Group continue to improve the performance of MEMS

sensors and continue to produce and provide them for customers.

By increasing MEMS sensor performance, the azbil Group enables measurement on the micro (μ) and even smaller scale. Additionally, we are researching principles of measurement in a new way and developing equipment using materials never seen before. In this way, we are developing and increasing the value of our products, as well as developing new areas of business as we put our research to practical use.

Solution 3

Taking advantage of our expertise in control technology, we are expanding in the area of actuators.

The azbil Group considers smart actuator technology to be one of the most important technologies for its business, and it is working on systems and products related to this technology.

For example, the Group is now developing next-generation smart robots. Using a technology for force control, these robots are capable of fluid and graceful movement. In addition, they

possess an "explore and contour tracking" function that enables them to perform detailed work even without specific human instruction (i.e., programming). These are truly robots that move in step with human coworkers.

The Group is also researching fluid control technology for control valve and variable air flow control applications, for example.

With the application of control technology, the azbil Group is developing equipment that operates with greater sensitivity and safety, and is helping to create a society where people and machines collaborate.

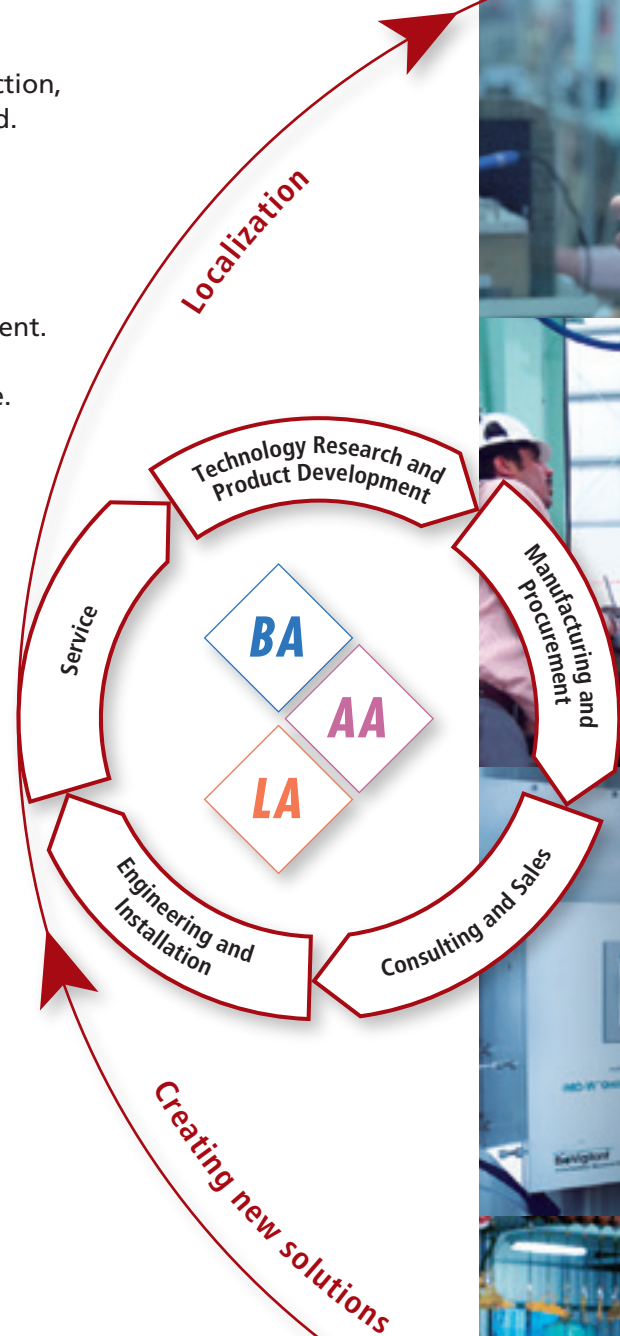
How We'll Get There

Around the World, the azbil Group Works Closely with Its Customers to Create Value.

The azbil Group has created development, production, and service systems in various regions of the world. But whatever the region, and no matter how the times change, we remain focused on our corporate philosophy of creating safety, comfort, and fulfillment through automation, and contributing to preservation of the environment. Nevertheless, the needs of our customers change according to climate, customs, and culture. The azbil Group believes that it is important to respond to those needs in a careful and conscientious manner in order to meet the customer's needs.

Closeup Developing global leaders

The azbil Group is expanding its business in countries outside Japan. To that end, it is focusing on developing leaders who can operate on the international stage. These leaders must understand the philosophy, history, technology, products, finances, and corporate social responsibility of the azbil Group. It is also important that they acquire advanced communication skills, a sense of fairness, persistence, and logical thinking.



- Sales & service
- Product development
- ▲ Valve maintenance centers
- ◆ Production

In Japan

In China

In Rest of Asia

In Europe & the Middle East

In North & Latin America

Scene 1

We develop and produce equipment and solutions in every part of the world, in line with the needs of the region.

The azbil Group, together with its partners around the world, is building a supply chain that will enable it to address the challenges faced by customers in a thoughtful and considerate manner.

The Group believes it is important to meet the varying needs of customers in each country and region and therefore has created research and product development systems in Japan, the United States, and Europe. It is also building a supply system comprising production sites and distribution networks that extend from Japan, China, and Thailand, and across the globe to flexibly respond to increasingly higher production loads.

Scene 2

The azbil Group is a worldwide provider of top-class comprehensive services, from consulting to sales, maintenance, and repair.

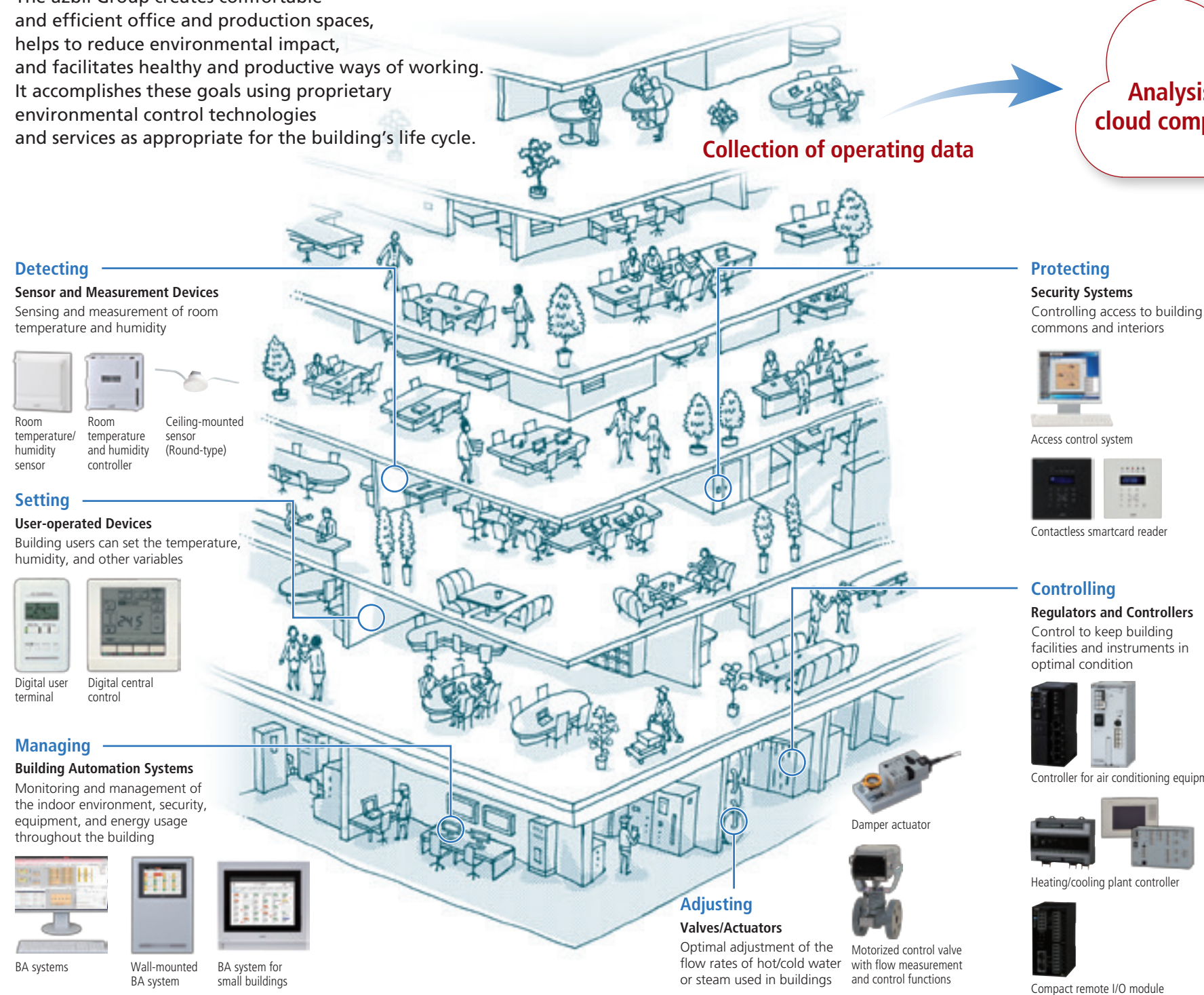
To maintain and increase the value of buildings and factories, owners and management need to set appropriate management policies and operate facilities in an optimal way in line with changes in the business environment and facility life cycles.

The azbil Group seeks to be a good long-term partner for its customers and society. With that in mind, the Group takes responsibility for the entire value chain. That means that it performs all the work of consulting and sales, engineering, installation, and maintenance internally.

Our service-providing network is spreading throughout Japan and into overseas markets. We strive to maximize the value of facilities throughout their life cycle, and are developing new equipment and solutions based on know-how acquired around the world.

BA Building Automation Business

The azbil Group creates comfortable and efficient office and production spaces, helps to reduce environmental impact, and facilitates healthy and productive ways of working. It accomplishes these goals using proprietary environmental control technologies and services as appropriate for the building's life cycle.



We provide life-cycle appropriate services by combining building automation with new areas of technology like the IoT.

Total Energy Management Service

We efficiently manage the energy use of buildings, helping our customers to reduce their energy consumption. To that end, we update and improve various types of facility at the proper time, and we operate an energy service business for the improvement of building energy use.



Comprehensive Building Management Service

We handle building operation and management through remote monitoring on a 24-7-365 basis, helping to create comfortable building environments and more efficient building management.



Cloud Services for Buildings

We leverage IoT technology to increase the efficiency of the energy and facility management of buildings. This reduces management costs and provides a comfortable indoor environment.



Total Building Automation System Maintenance

Through remote data collection and analysis, we provide reliable building and facility operation and reduce operational costs through preventive maintenance.

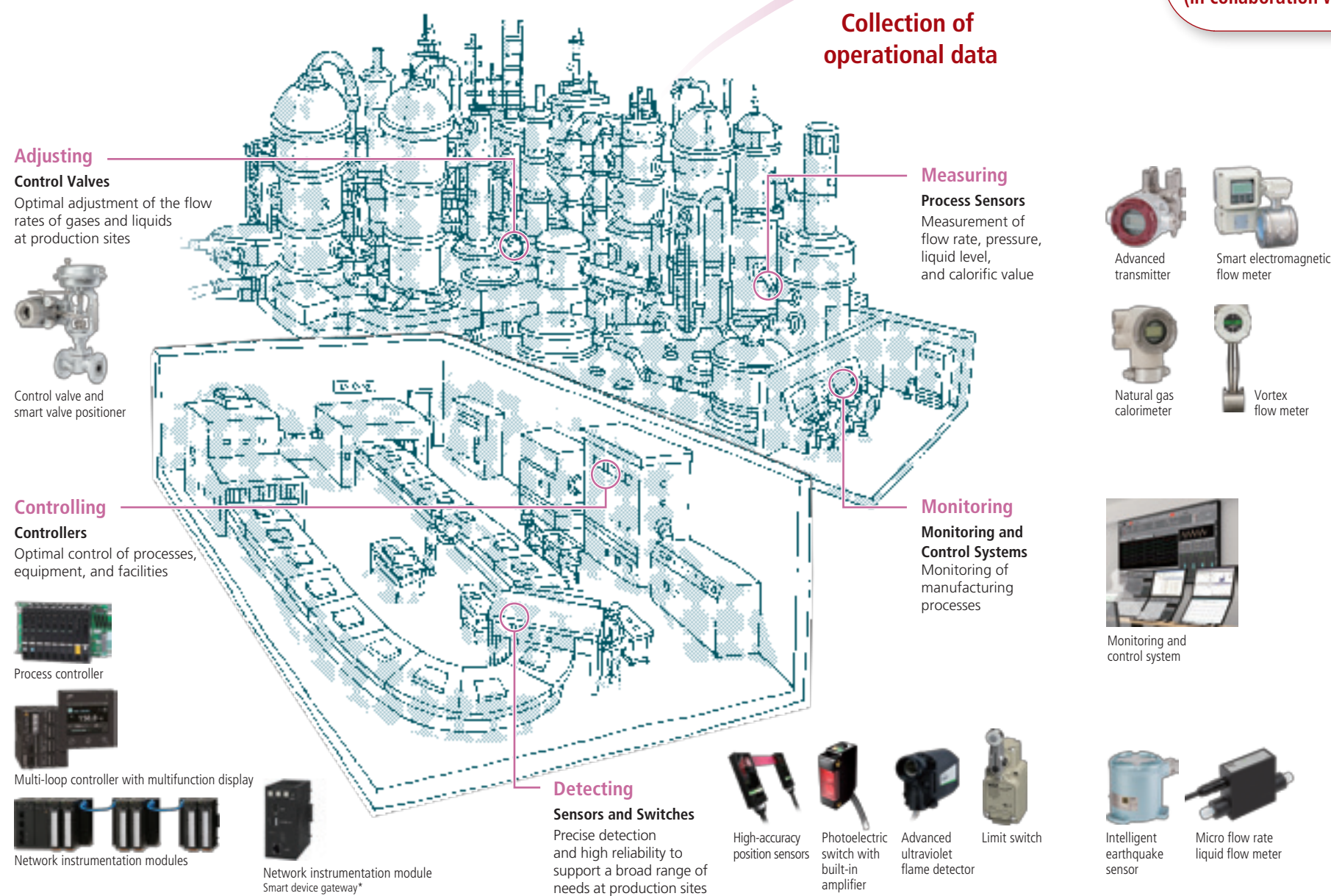


We develop and produce building automation systems, automatic control instruments, and applications that facilitate building management.

We develop new products and services by leveraging the expertise and know-how gained at worksites.

AA Advanced Automation Business

The azbil Group provides products and solutions, instrumentation, engineering, and maintenance services to achieve optimal equipment and facility operation and solve problems at manufacturing sites.
By applying the technology of the IoT, AI, and big data, we assist in energy conservation and stable and safe production.



* A communication gateway that allows the interchange of information between various kinds of control device without programming, enabling smarter development work.

LA Life Automation Business

The azbil Group provides automation technology to respond to people's needs in everyday life, including the problems faced by an aging population, environmental issues, safety, security, and the need to lead an abundant and comfortable life. We work to ensure safety, comfort, and energy-efficiency in a wide range of fields: essential services such as gas and water, living spaces made comfortable by home air conditioning systems, human health, pharmaceuticals, and health care.

Life Science Engineering

► Azbil Telstar, S.L.U.

Azbil Telstar, S.L.U. provides lyophilizers, sterilizers, and clean environment equipment for pharmaceutical plants and research laboratories. It has built an integrated system for development, engineering, installation, sales, and after-sales service. It also conducts R&D to improve safety and product quality in pharmaceutical manufacturing processes.

Pharmaceutical Manufacturing Equipment



Barrier systems

Lyophilizer

Gas and Water Meters

► Azbil Kimmon Co., Ltd.

Azbil Kimmon Co., provides city gas meters, LP gas meters, and water meters, as well as safety equipment (alarm equipment, automatic shutoff valves) and various regulators. By providing services using a low-power wide-area (LPWA) communication method or the Cloud, we contribute to energy-efficiency and better living.

Water Meter



Battery-operated electromagnetic water meter

LPWA-capable electronic water meter

Gas Meter and Regulator



City gas
Intelligent city
gas meters

Ultrasonic
gas meters

LP gas
LPWA-capable
smart membrane
gas meter

Ultrasonic
gas meters

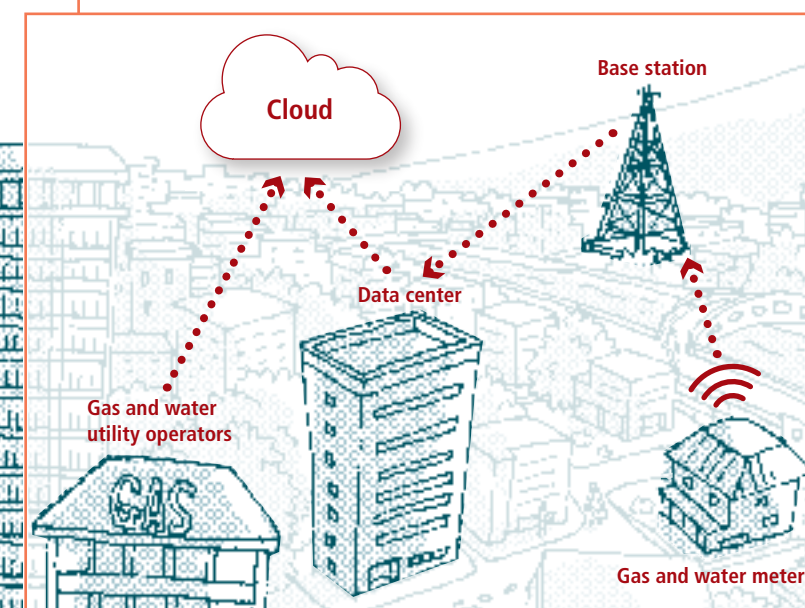
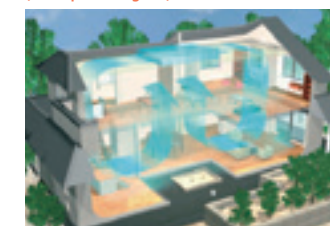
High-pressure
regulator

Residential Central Air-conditioning Systems

► Azbil Corporation

Azbil Corporation provides central air-conditioning systems that ensure comfort throughout the entire home. A single air-conditioning system provides cooling, heating, ventilation, air purification, and dehumidification for your home. We create a comfortable environment in each room, automatically controlling the airflow and temperature separately for each room while also saving energy. This is achieved by applying our building air-conditioning technology.

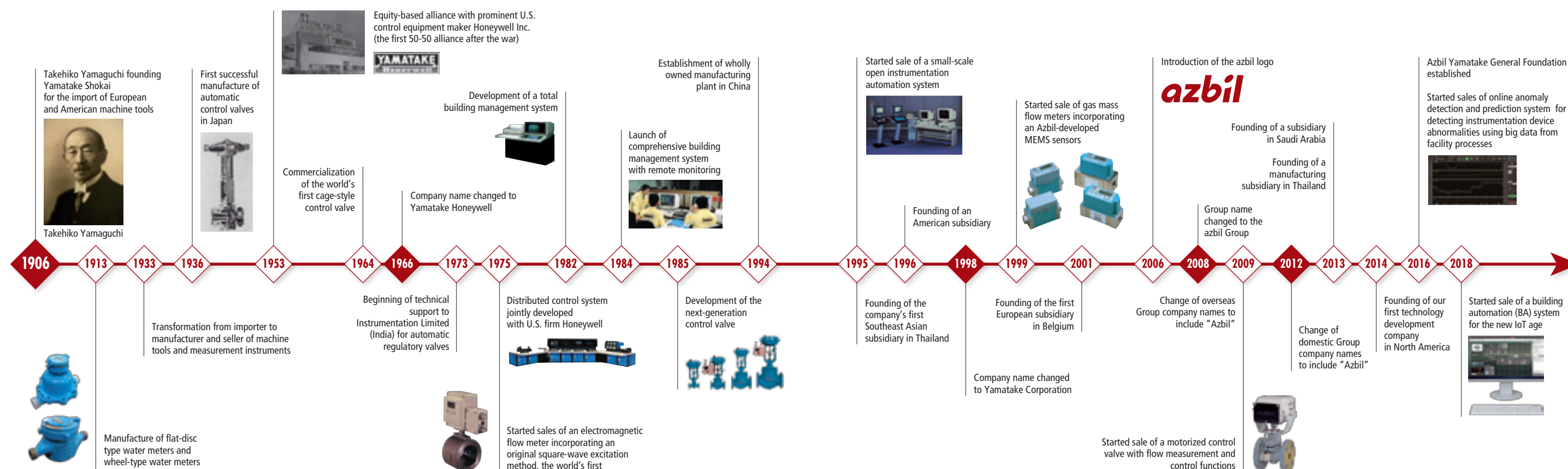
Central Air Conditioning System (Conceptual Diagram)



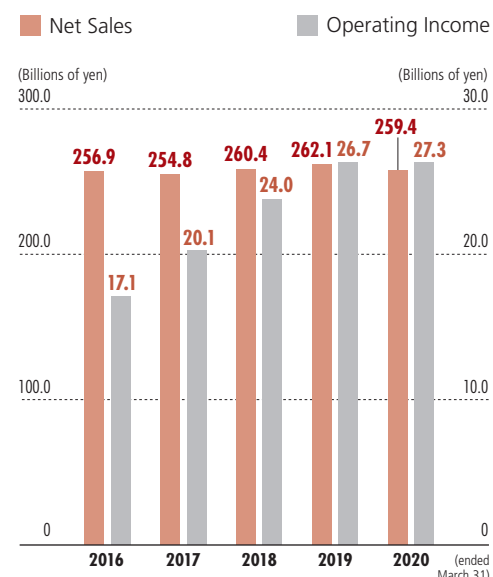
Our Profile | Company Data

The azbil Group, operating on the basis of its philosophy of “human-centered automation,” has been in business for over a century. The Group strives to fulfill its responsibilities as a member of society, to solve the problems faced by its customers, and to proactively contribute to society through the operation of its core businesses.

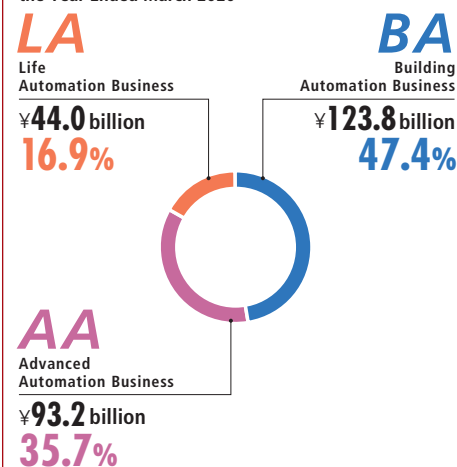
The azbil Group seeks to enhance personal and societal well-being through automation, actively contributing not only to industrial and economic development, but also to the preservation of the natural environment.



Net Sales and Operating Income



Share of Net Sales by Segment for the Year Ended March 2020



Company Data

Azbil Corporation

Founded
December 1, 1906

Incorporated
August 22, 1949

Paid-in Capital
¥10,522,716,817

Employees
5,369
9,897 (in consolidated companies)

As of March 31, 2020

azbil Group in Japan

Azbil Corporation
Azbil Trading Co., Ltd.
Azbil Yamatake Friendly Co., Ltd.

Azbil Kimmon Co., Ltd.
Azbil Kyoto Co., Ltd.

Azbil TA Co., Ltd.
Azbil Taishin Co., Ltd.
Tem-Tech Lab.

azbil Group Overseas

Asia Pacific

Azbil Korea Co., Ltd.
Azbil Taiwan Co., Ltd.
Azbil Kimmon Technology Corporation
Azbil Vietnam Co., Ltd.
Azbil India Private Limited
Azbil (Thailand) Co., Ltd.
Azbil Production (Thailand) Co., Ltd.
Azbil Philippines Corporation
Azbil Malaysia Sdn. Bhd.
Azbil Singapore Pte. Ltd.
PT. Azbil Berca Indonesia

Azbil Control Instruments (Dalian) Co., Ltd.
Azbil Information Technology Center (Dalian) Co., Ltd.
CECEP Building Energy Management Co., Ltd.
Azbil Control Solutions (Shanghai) Co., Ltd.
Shanghai Azbil Automation Co., Ltd.
Yamatake Automation Products (Shanghai) Co., Ltd.
Azbil Hong Kong Limited

North America

Azbil North America Research and Development, Inc.
Azbil North America, Inc.

Azbil VorTek, LLC

Central America/Latin America

Azbil Mexico, S. de R.L. de C.V.

Azbil Brazil Limited

Europe

Azbil Europe NV
Azbil Telstar, S.L.U.

Middle East

Azbil Saudi Limited

As of June 2020

Handling of products and services described in this azbil Group Profile may differ by country or region.