Founding Based on Passion and Dedication

EBARA Corporation was founded in 1912 by Issey Hatakeyama with the aim of spreading use of the Inokuty-type volute pump. Applying the volute pump research of Dr. Akiya Inokuty, a world-renowned professor at the time, EBARA sought to contribute to the modernization of Japan by producing the first domestically manufactured waterworks pumps, installing water infrastructure to prepare for natural disasters, and developing the first water purifiers for waterworks manufactured in Japan. United by this passion, members of EBARA were inspired to fulfill their mission of supplying the products and services that support society, industry, and everyday life. In this manner, EBARA has continued to be driven by its Founding Spirit of "Netsu to Makoto" (Passion and Dedication) since the time of its inception. Over the years, we have continued to accumulate technological capabilities and enhance our reliability as employees exercise this spirit. These assets are the wellspring of EBARA's growth.

Founding Spirit of "Netsu to Makoto" (Passion and Dedication)

It was not long after the founding of EBARA that the Company completed a pump of record size, a painstaking task that took place in a small factory with no crane facilities in the Nippori area of Tokyo. Founder of EBARA, Issey Hatakeyama, acted in accordance with his philosophy of approaching daily tasks with passion, dedication, integrity, and ingenuity in order to spur personal and corporate growth, and encouraged employees to adopt the same approach. The founding spirit of "Netsu to Makoto," or Passion and Dedication, has continued to drive EBARA in our efforts to hone our technological prowess and achieve greater levels of reliability. EBARA's growth into a global industrial machinery manufacturer with three core businesses—the Fluid Machinery & Systems Business, Environmental Plants Business, and Precision Machinery Business—is a result of the ongoing commitment to this spirit.

Technological Capacities

Passion and Dedication

Reliability

Water
We support water infrastructure worldwide by providing a vast lineup of products, such as water supply pumps for buildings and condominiums, pumping stations that prevent flooding, and pumps for desalination plants.

Environment
We promote efficient resource use and stable energy supply by providing pumps and compressors for energy-related facilities and constructing and maintaining municipal solid waste treatment facilities and biomass power generation plants. In addition, we supply energy-efficient and resource-conserving products in all businesses.

Air
We provide dry vacuum pumps that create clean vacuums, gas abatement systems for treating hazardous gases as well as greenhouse gases (GHG), chillers used for air conditioning, and tunnel ventilation fans to the global market.

Digital Technologies
Aiming to contribute to the realization of a super-smart society in which all things are interconnected, we support the development of cutting edge technologies by supplying vacuum pumps and various types of semiconductor manufacturing equipment, including chemical mechanical polishing (CMP) systems, that capitalize on the technologies we have fostered in the areas of water, air, and the environment.

Four Areas of Operation

Fluid Machinery & Systems Business
Pumps Business
Compressors and Turbines Business
Chillers Business

Environmental Plants Business

Precision Machinery Business

Three Core Businesses
History of Growing While Addressing the Social Issues of Every Era with Technologies and Reliability

Over the years, the EBARA Group has continued to grow by responding to the needs of society through businesses supporting social and industrial infrastructure. Behind this growth has been the constant enhancement of the Group’s technologies and reliability through the exercise of its Founding Spirit of “Neto to Makoto.” By applying, evolving, and combining the core technologies that originate from the Inokuty-type volute pump, we have developed products and services that meet the needs of every era. Going forward, we will pursue future growth by further honing our technological prowess to deliver new products and solutions.

**EBARA’s History**

**Founded as Inokuty Type Machinery Office**

- 1921: Started production of fans
- 1928: Began promoting sales of standard pumps
- 1938: Completed first domestically produced rapid filter for waterworks
- 1958: Received first order for absorption chiller
- 1968: Delivered first stoker-type refuse incinerator
- 1977: Delivered first fluidized bed incinerator for city refuse
- 1987: Commenced sales of gas abatement systems
- 1992: Delivered first plating system
- 1997: Completed sales of gas abatement systems

**Development of the EBARA Group’s Foundations**

- EBARA was founded by Issey Hatakeyama with the goal of supplying products that meet the needs of every era.
- EBARA began to sell cryogenic pumps developed and produced in-house.
- EBARA continued to contribute to the modernization of Japan by establishing overseas bases to lay the groundwork for its overseas expansion.
- EBARA was founded as Inokuty Type Machinery Office.
- EBARA’s History

**EBARA Technologies Responding to Social Demand**

- 1912–1920: Post-World War II Reconstruction and Japanese Postwar Economic Miracle
- 1920–1930: Modernization of Japan
- 1930–1940: Pressing Social Issues
- 1940–1950: War shortages
- 2000–2020: Centennial Anniversary and Pursuit of Future Growth

**Pressing Social Issues**

- Modernization of Japan
- Post-World War II Reconstruction and Japanese Postwar Economic Miracle
- Pressing Social Issues

**Framewoks for Future Growth**

- Energy efficiency
- Gaging new businesses
- Development of the Information & Communication Society
- Pressing Social Issues

**Centennial Anniversary and Pursuit of Future Growth**

- Expansion of semiconductor market and increased interest in climate change and ESG issues
- Growing need for pump technologies
- EBARA Technologies Responding to Social Demand

**EBARA Technologies Permeating Society**

- EBARA technologies are contributing to the modernization of the level of society.

**Development of the Information & Communication Society**

- Growth of semiconductor market and increased interest in climate change and ESG issues
INTRODUCTION

Domestic Share for Standard Pumps and Cooling Towers
To date, EBARA’s domestic factories have produced more than 18 million standard pumps. Through the widespread provision of pumps that address diverse needs, such as those pertaining to the supply of the water that is indispensable to our daily lives, we are supporting the development of industry and of comfortable living environments. We also supply equipment for air conditioning in buildings and public facilities and propose optimal solutions to customers through a system integrating everything from manufacturing to maintenance.

Global Share of Compressors for Downstream Oil and Gas Plants
Our compressors are a central component of oil refineries and petrochemical plants and are used to compress the gases emitted during crude oil and natural gas production. We offer a wide lineup of compressors matched to various customer needs and processes.

No.1 Global Share of Compressors for Downstream Oil and Gas Plants

Distinctive Presence Underscored by Technologies and Reliability

No.1 Global Cryogenic Pump Share
The primary role of cryogenic pumps is to transport ultralow temperature liquefied natural gas (LNG) liquefaction plants, which require exceptional technological prowess. EBARA boasts an exceptional global delivery track record in this field and has thus earned a position as a recognized global leader.

More than 1,000 Pumping Stations in Japan Using EBARA Drainage Pumps
EBARA supplies pumping stations across Japan with large-scale drainage pumps that protect cities from flooding by draining rainwater into rivers and oceans in the event of sudden heavy rains or typhoons. As abnormal weather events increase around the globe, EBARA is ever more committed to protecting people’s lives and livelihoods through the provision of drainage pumps and systems.

More than 80 Waste Treatment Plants under Contracted Management
EBARA is accumulating insight into the management of daily waste treatment plant operations as it performs management of more than 80 such facilities on a contract basis. Leveraging this insight, we offer technical operation support and optimization support by confirming the operating status of waste treatment plants in real time via remote support centers.

More than 2,500 CMP Systems Shipped to Date
Semiconductors are an indispensable component of computers, smartphones, and cloud systems. Increasing the performance of semiconductors requires their circuits to be made more intricate and layered. CMP systems represent a core technology for realizing these advancements. These systems are used to polish semiconductor wafers with nano-level precision, thereby helping meet the high-level demands of semiconductor manufacturing processes while supporting the evolution of semiconductors by accommodating constant technological progress.

More than 300 Waste Treatment Facilities Delivered in Japan
EBARA provides one-stop service for the design, construction, operation, and maintenance of waste treatment facilities, and we have delivered more than 300 waste treatment facilities in Japan, making for a delivery track record of more than 400 facilities when including those delivered overseas. In addition, we contribute to the local production and consumption of energy by returning the power generated through waste incineration to the surrounding communities.

More than 50 Support Bases and Overhaul Bases Worldwide
The EBARA Group is augmenting its proposal capabilities by developing support bases and overhaul bases worldwide. Leveraging cutting-edge technologies to deliver even higher-quality S&S, we offer assistance for customer business activities.

Note: Shares were calculated by EBARA.
Social Value Created by EBARA

EBARA products are amalgamations of the technologies it has accumulated thus far. These products are used under a variety of circumstances in our everyday lives, supporting social infrastructure around the world and contributing to safe, secure, and fulfilling lifestyles.

1. Water Supply Units
   - Supplying water for everyday use to buildings and condominiums

   Water supply units are a crucial element of the facilities of buildings, condominiums, factories, and other structures for realizing a stable supply of water for everyday use.

2. Agricultural Pumps
   - Watering crops in fields

   Agricultural pumps are used for watering crops and vegetables, supporting the growth of agricultural products and ensuring a stable supply of food.

3. Water Drainage Pumps
   - Protecting against typhoons and concentrated heavy rains

   Water drainage pumps are used to protect residential areas, agricultural land, and other areas against flood damage by efficiently removing rainwater from structures with less risk of flooding due to heavy rains.

4. Seawater Circulation Pumps
   - Efficiently transporting seawater

   Seawater circulation pumps are used for circulating seawater inside of aquarium tanks, enabling them to be used for circulating hot spring water and chemicals.

5. Fans
   - Ventilating tunnels

   Fans are used for ventilation in tunnels or other environments, ensuring ventilation and circulation of air and preventing the accumulation of harmful gases.

6. Chillers
   - Maintaining comfortable temperatures in buildings, large-scale commercial facilities, and factories

   chillers are used in the air conditioning equipment of large-scale commercial facilities and factories to be utilized for cooling or heating entire structures. They help appropriately maintain the air environments of tunnels while securing evacuation routes in the event of a tunnel fire.

7. Gas Abatement Systems
   - Detoxifying hazardous gases

   Gas abatement systems prevent pollution by detoxifying the hazardous gases used in semiconductor manufacturing and other processes.

8. Boiler Feed Pumps
   - Offering “behind-the-scenes” support for power generation

   Boiler feed pumps supply high-temperature water to boilers to create high-pressure steam.

9. Compressors
   - Playing a central role in power plants and oil refineries worldwide

   Compressors play a central role in oil refineries and petrochemical plants by compressing the gases produced from crude oil and natural gas.

10. Cryogenic Pumps
    - Safety transporting LNG

    Cryogenic pumps are used to transport and store LNG at temperatures of –162°C and have superior technologies and impeccable safety.

11. Municipal Solid Waste Treatment Plants
    - Generating power using woody biomass fuel

    We offer construction, operation, and management services for biomass power generation plants, leveraging the characteristics of internally circulating fluidized-bed boilers designed to use woody biomass as fuel and capable of achieving high-energy efficiency. Through these services, we are contributing to the popularization of renewable energy and the prevention of climate change.

12. Biomass Power Generation Plants
    - Generating power using water for agricultural purposes

    By utilizing water for agricultural purposes, we contribute to the promotion of sustainable lifestyles and ecological sustainability.

13. Dry Vacuum Pumps
    - Realizing the optimal clean environments necessary for semiconductor production

    Dry vacuum pumps are used to create the vacuum needed in the semiconductor production process.

14. CMP Systems
    - Supporting semiconductor production with nano-level-precision polishing technologies

    CMP systems polish the surface of semiconductor wafers with nano-level precision using polishing solutions.

Environment
Contributions to a Sustainable Society by Promoting Effective Energy and Resource Usage

Digital Technologies
Support for the Evolution of Lifestyles with Cutting-Edge Technologies

Air
Creation of Comfortable Environments While Combating Climate Change

Water
Wide-Ranging Support for Society and Infrastructure Ensuring Stable Water Supplies and Preventing Water Damage
Unending Support for Society Based on the Spirit of “Netsu to Makoto”

The EBARA Group has continued to develop its business based on “Netsu to Makoto” (Passion and Dedication), the Founding Spirit that we have valued since our inception. Throughout our history of over 100 years, we have proceeded to hone our exceptional technological capabilities in order to deliver products and services that support society, industry, and everyday life. This is the very meaning of our existence. Going forward, the EBARA Group will pursue ongoing growth by capitalizing on the strength of its proven technological prowess as it contributes to the development of a sustainable society by exercising its passion in the global supply of products and services that support fulfilling lifestyles.


Never satisfied, EBARA will climb to new pinnacles in its quest to support the safety and security of society, industry, and everyday life with its products and services.