



## Corporate Profile

**IHI Rotating Machinery Engineering Co.,Ltd.**

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#### **Head Office**

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Check the information about product and service from here.

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- The content is subject to change without notice.
- The product's color may be seen different from actual product due to the print.



**IHI** Realize your dreams



We provide products and services utilizing our rotating machinery technologies to construct society and infrastructure where nature and technology work in unity.

For more than 130 years, since it first developed a reciprocating compressor in 1892, the IHI Group has been responding to various demands from customers and society, thereby expanding its product field and becoming deeply involved in the development of society.

We have contributed to society in numerous ways, such as with compressors that are key infrastructure in the industrial world for handling the compression of air and various gases, and separators that play an important role in separation processes in a great variety of fields, including sewerage treatment, chemistry, medicine, food, and new materials. Our marine turbochargers have also given ship-use diesel engines greater output and efficiency.

Today, we are looked to for a reliable response to various and quickly changing social issues, beginning with strategies to achieve carbon neutrality in relation to global warming and climate change, and including ESG management and SDGs.

IHI Rotating Machinery Engineering combines high-speed rotating machinery technology, developed over many years, with rapidly developing digital technology and other latest technologies. With that as the base of the products and services we offer, we want to help solve the issues our customers face. Through these activities, we will embody the management philosophy that the IHI Group has held for many years: “Contribute to the development of society through technology”. As we contribute to the realization of a sustainable society by constructing a society and infrastructure where nature and technology work in unity, we will uphold the trust of our stakeholders.



Keiichi Morikawa

President

IHI Rotating Machinery Engineering Co., Ltd.

森川 圭一

# 01 R&D·DESIGN

Contributes to social development by high-level R&D skill

With our highly innovative development and design capabilities established over 130 years of development of rotating machinery, we strive to improve society for generations to come!

# 05 CUSTOMER SERVICE

Service is always for the satisfaction of the scene

The services we provide do not end at delivery, but span across the whole life cycle of the machines we supply.

From installation and commissioning to maintenance, repairs and sales of spare parts.

# From R&D to Manufacture, sales, and service

# 02 ENGINEERING

The total engineering for problem-solving

In order to solve the problems our customers face in their plants, we provide comprehensive engineering solutions that contribute to energy savings, carbon footprint reduction and many more.

# 04 SALES

Preparation for timely and precise response to diverse needs

With our extensive, global sales network, we provide swift response to our clients` inquires and precisely address the needs and concerns they face in their plants.

# 03 PRODUCTION

High reliability products from innovation of technology

With the world renowned Japanese high quality, we dedicate every hour of our work to providing products our customers can trust!

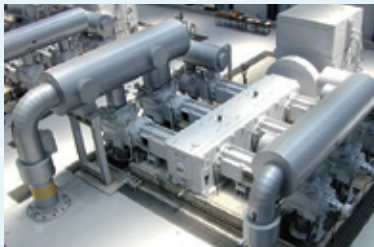


# An integral part of industries, supporting our daily lives.


While you might not directly use the products of IHI Rotating Machinery Engineering, rest assure that they are always somewhere in the background making our daily lives more comfortable, convenient, and safer, contributing to the development of society.

### Process gas reciprocating compressors

Wide range of lineup such as LNG BOG



Our world's first cryogenic suction enabled LNG BOG compressor is just one example of the wide range of applications our compressors are used it.



### Marine Turbochargers

Excellent reliability, highly efficient, high-pressure ratio



IHI's and Accelleron (Switzerland) licensed model lineup, suitable for marine internal combustion engines to meet environmental regulations and higher output to answer our customers' needs, with outputs ranging from 300kW to 2000kW per turbocharger.



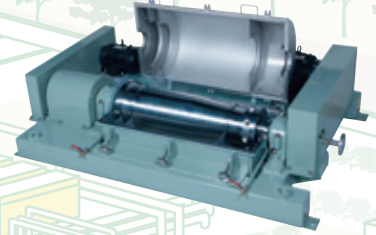
### Making new values for sustainable society

IHI group is working on social issues through our business to realize a sustainable society.




### Screw Decanter Centrifuge

High volume continuous treatment enabled.



Our Screw Decanter Centrifuge line up is very extensive and can handle as little as 1m³/hour to as large as 80m³/hour of slurry in a variety of plants such as sewage treatment and other manufacturing processes.



### Guinard Centrifuge

Enables continuously mass processing



Our Guinard Centrifuge is a fully automatic solid-liquid separator that is able to treat slurries containing coarse solids (crystallizations or synthetic resins) with the capability of washing separated solids as well.



### Leaf Filters

Most suitable for High-mix filtration




IHI's Leaf Filter boasts excellent filtration performance and can automatically operate the entire process up to the cake discharge. This state-of-the-art technology filter can process residual liquids, which posed many issues with conventional pressurized filters. In addition, by equipping this filter with an inverter motor drive, we managed to reduce its OPEX (operating expense) even further for the benefit of our customers.




### Turbo compressors (f-series)

High efficiency, large flow compressor Energy saving by consolidation

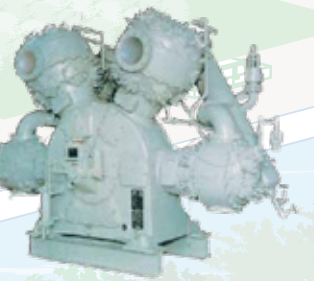


For more than half a century this has been one of the bestselling models in our line-up. Highly customizable compressors designed to meet the specific needs our clients in air separation, steel manufacturing and fuel boosting applications.




### Reciprocating Air Compressor

Ideal for high pressure compressed air



WN series is our highly reliable reciprocating compressors that demonstrate excellent energy-saving performance under partial load contributing to lowering OPEX and ensuring stable operation of the plant. By arranging the compressors in multiple strings, the air can be boosted up to 4.5MPaG, the pressure range necessary for PET bottle manufacturing process.



### Turbo-compressors (T-Series)

High capacity, large efficient, custom energy saving enabled.




Ideal to provide large volumes of clean air for semiconductor, painting and other manufacturing industries. Highly efficient if compared to other models. In 2021 The TRA series compressor received The Japan Society of Industrial Machinery Manufacturers' Excellent Product Award. T series are highly evaluated due to the fact they handle high capacities of air for the lowest CAPEX (capital expenditure).




### IHI FUNDABAC Filter

Easy to enlarge by simple mechanism



Fully automatic filter utilized in chemical, medical, and food production processes. In this filter, resin for wetted parts can be used and is recommended for the treatment of slurries, in which highly corrosive fluids or metal contamination are present.




### Water-Flooded Oil-Free Screw Compressor (GP-Series)

Clean air by water lubrication



Since no lubricating oil is used in our GP series water-flooded screw compressors, it is ideal for applications which require highest quality clean air. (Class 0 oil free certification acquired) Thanks to its structure this compressors boast highest efficiency in the oil-free class.





Company name

IHI Rotating Machinery Engineering Co., Ltd.

Established

September, 1965

Capital

JPY 1,033,500,000

Shareholder

IHI Corporation (100%)

Sales

JPY 43.7 billion (result for fiscal period through March 2024)

Description of business

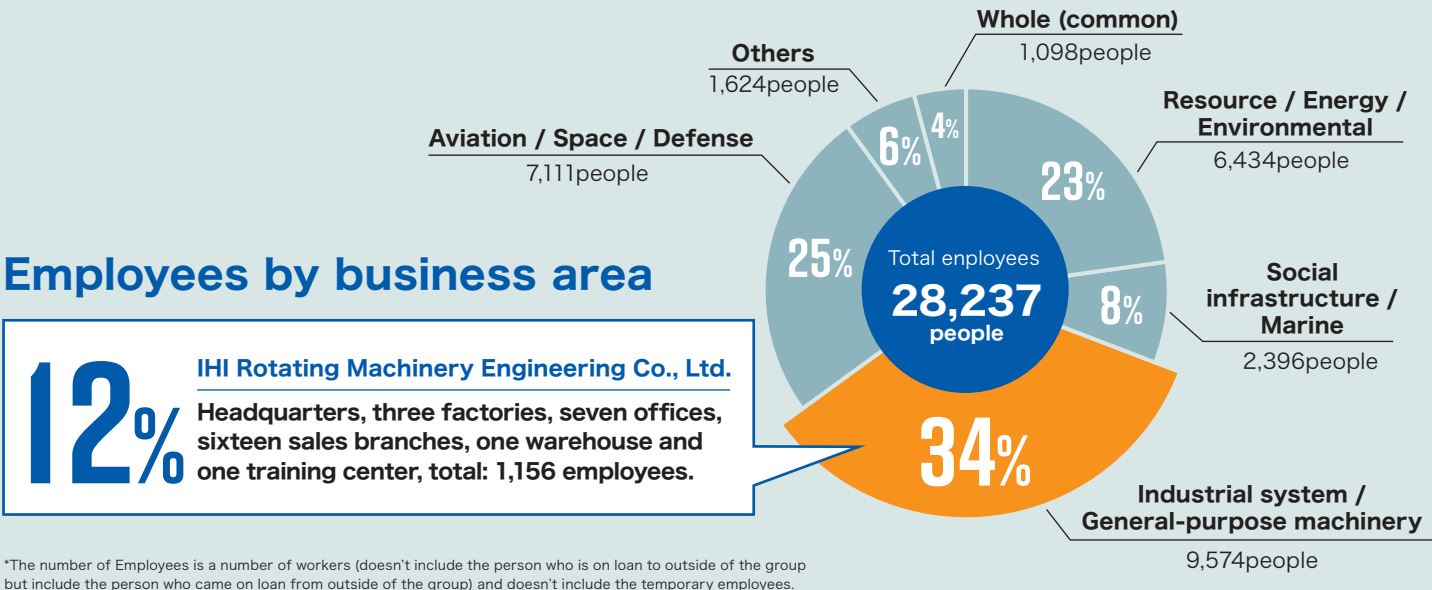
Development, production and sales of compressors, separators, marine turbochargers and gear devices.  
Plant engineering, installation, maintenance, after-sales service, etc.

Number of employees

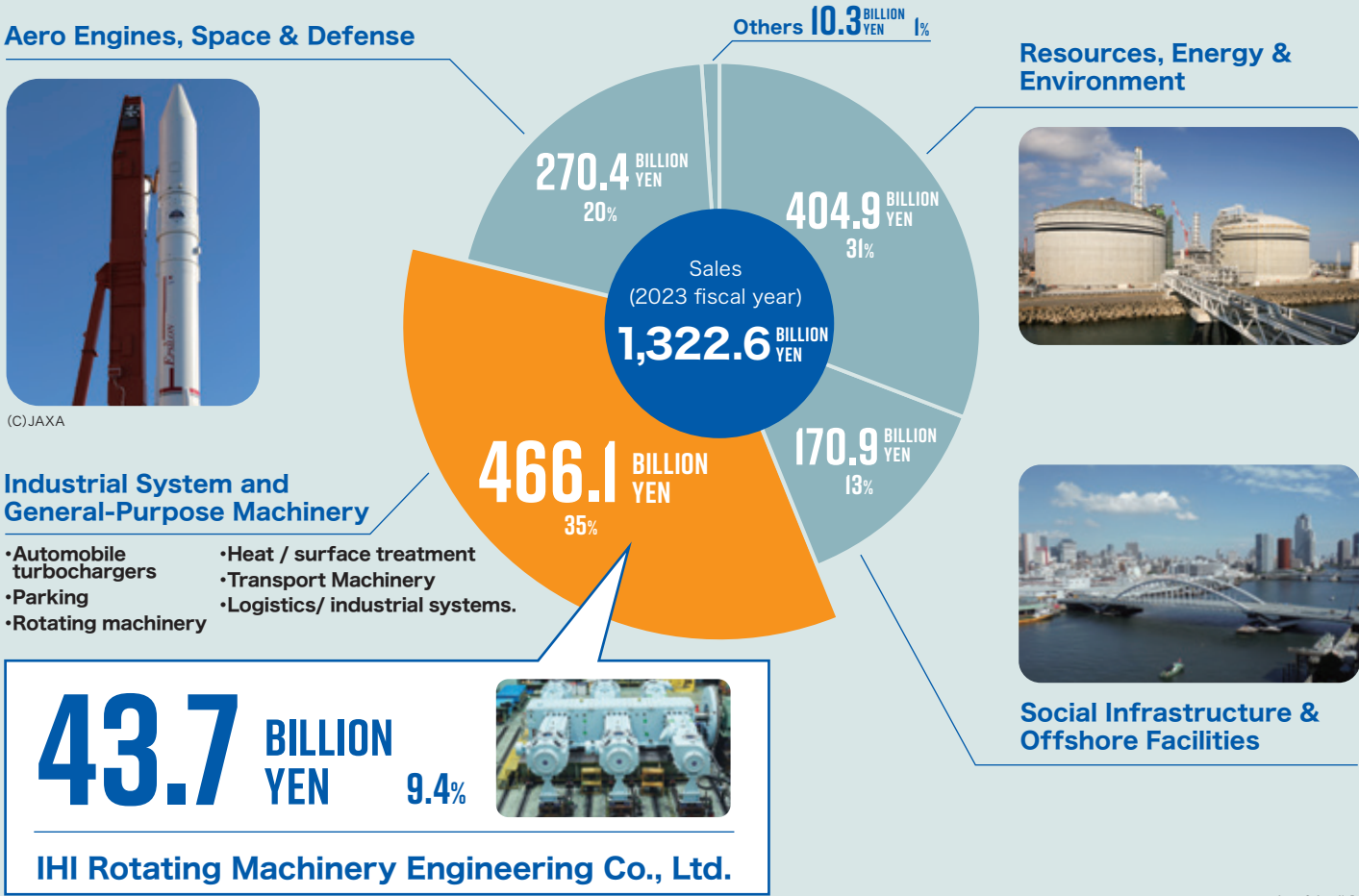
1,156 people. (as of April 1, 2024)

Offices

28 offices throughout Japan



Consolidated sales by business segment of IHI Group.



SUSTAINABILITY

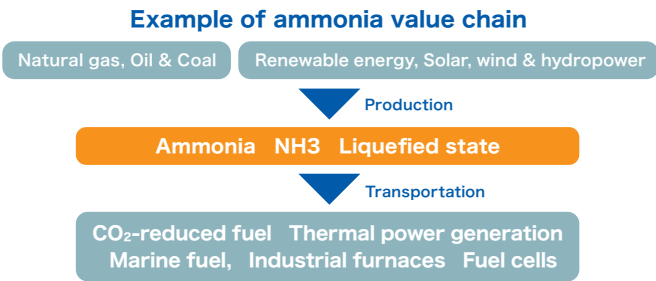
Creating a society that harmonizes nature and technology

Responding to climate change

Realizing carbon neutrality

The IHI Group is broadly involved throughout the ammonia value chain namely production, transportation, storage, and use of ammonia as fuel. We are developing technology for gas-handling equipment that can reduce the burden on the environment, and we will respond to climate change by aiming to contribute to the reduction of CO<sub>2</sub> emissions to realize carbon neutrality.

\*Gas-handling is the process of managing and controlling gases, such as the compression, transportation, storage, and use of any kind of flammable, toxic or corrosive gas, such as nitrogen, hydrogen, oxygen, carbon dioxide, liquid hydrogen, LNG, LPG, ammonia, propylene, ethylene and various hydrocarbons.



Hydrogen Supply Chain

By applying our technological know-how gained over decades of development and supplying of our cryogenic LNG BOG compressors, we are working on the world's first liquified hydrogen (LH<sub>2</sub>) BOG compressor that could be utilized in the liquified hydrogen transportation / storage application. Being part of the NEDO subsidy project, in 2021, we conducted a test run on the reciprocating compressor capable of handling ultra-low temperature hydrogen gas at - 250 °C. With this technology, the power consumption was reduced to approximately one-seventh if compared to compressors in which LH<sub>2</sub> is preheated to ambient temperatures at suction.



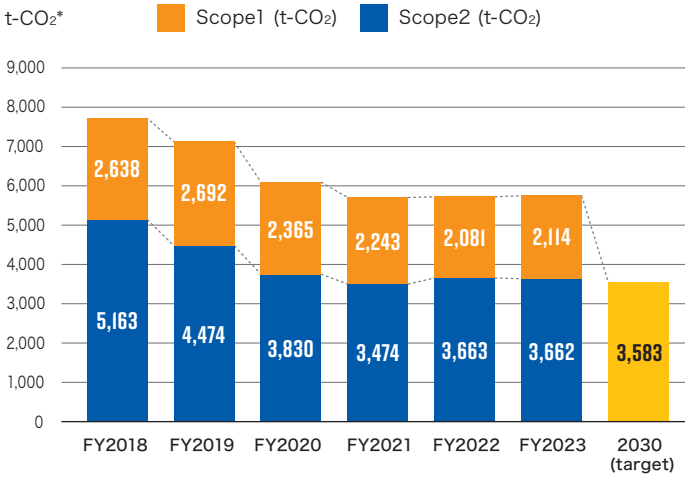
\*BOG: Boil off gas  
\*NEDO: New Energy and Industrial Technology Development Organization

Energy conservation for improved manufacturing

The lighting in our three factories in Yokohama in Kanagawa Prefecture, Tatsuno in Nagano Prefecture, and Otsu in Shiga Prefecture has all been changed to LED lighting as a carbon neutrality initiative. With the aim to reduce CO<sub>2</sub> emitted via manufacturing activities by 50% compared with FY2019 by 2030, we are working to improve productivity and to systematically introduce energy-conserving and decarbonizing facilities.



GHG (greenhouse gas) Emissions Over Time



\*We aim to reduce emissions by more than 350 t-CO<sub>2</sub> each year by continuing to advance carbon-neutral initiatives like conversion to low-carbon fuel, the introduction of renewable energy and improved energy conservation  
\*t-CO<sub>2</sub>: 1 ton of carbon dioxide



Overseas Subsidiary Companies

IHI DALGAKIRAN MAKİNA  
SANAYİ VE TİCARET A.Ş. / Turkey

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IHI-Sullair Compression Technology  
(Suzhou) Co.,Ltd. / China

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Domestic Offices / Works



Offices

- Iwaki Branch
- Akita Branch
- Niigata Branch
- Utsunomiya Branch
- Gunma Branch
- Chiba Branch
- Yokohama Branch
- Shizuoka Branch
- Hokuriku Branch
- Toyohashi Branch
- Keiji Branch
- Kurasiki Branch
- Takamatsu Branch
- Ohita Branch
- Miyazaki Branch
- Okinawa Branch

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