

# Company Profile



Our corporate color contains a wish to root in the ground (white) and develop to the sun (red) and space (dark blue).

<https://www.hosokawamicron.co.jp>



Process Technologies for Tomorrow

**HOSOKAWA MICRON CORPORATION**

# Infinite Possibilities

Many products around us contain some form of powder that has been incorporated into the manufacturing process.

Powders come in a variety of sizes, shapes and chemical components.

It has the potential for infinite possibility because various functions can be exhibited by the combination of powders with different features. The powder technology which can satisfy the demand quality to control these features has the potential for infinite possibility.

As industry works to develop new and innovative products, Hosokawa Micron is poised to meet and anticipate our customers' challenges to manipulate and create particles for advanced formulations by our dedication to the advancement of the application of powder technology.

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## Powder Technology contributes to the Society

The Hosokawa Micron Group has been providing and expanding “powder technologies” in a wide range of industries that make products we use and consume every day including food, cosmetics, pharmaceuticals, paint, fertilizers and hundreds of others as well to cutting-edge technologies used for the production of batteries and electronic components, advanced new materials and nanotechnology. The Group develops, designs, manufactures, and sells equipment and systems used for :size reduction of various materials; classification to efficiently separate powders specific micron sizes; mixing ;drying; agglomerating; collecting; feeding; discharging; transporting and measuring of powders. Our precision manufactured powder-processing equipment and sophisticated technologies are like tall mountain peaks, with the ancillary equipment, system engineering capabilities, and application expertise spreading out like supporting foothills. This “mountain range of powder technologies” analogy is our corporate vision. Our management strategies and business development plans are developed around this concept.

The Hosokawa Micron Group will continue to maintain its position as the world’s leading company in the field of “powder technologies”, and to provide new technologies and state of the art engineering expertise to meet industry’s rapidly changing demands and to be a reliable partner to our customers.



Representative Director,  
President  
Chief Executive Officer

### ■ Corporate vision

The Hosokawa Micron Group will always be the leading global company covering the mountain range of Powder Technologies. The Group will achieve peaks of excellence in the development and commercialization of advanced materials, process equipment and systems engineering.

### ■ Mission statement

The purpose of the Hosokawa Micron Group is to provide economical technical solutions to solve customer business problems for customer satisfaction and to contribute to society. The Group is committed to preserving the environment for future generations by acting in an ethical manner and adhering to sound ecological practices. The Group provides a challenging and satisfying work environment for all employees in order to ensure a reasonable return to the shareholders.

### ■ Corporate policy

#### Technology Development

Industry’s demands continue to increase for products to refine powders from millimeters to the micron and nano ranges. We continue to challenge the technological innovation and serve customers product development to improve the value of the products.

#### Globalization

Our globalization began in the 1950’s. We have continued to integrate products and technologies by merging leading American and European providers of powder technology to accelerate the expansion of global business. Our global leadership is demonstrated by our international portfolio of world renowned products.

#### Human Resources

The development of our human resources is key to our future success. We will continue to encourage ongoing education for our employees through our own unique self improvement program, study and qualification system.

### Mountain range of powder technologies

Hosokawa’s universe of technology can be envisioned as mountain peaks of superior products with a broad peripheral application of technology forming the foot of the mountain peaks.

# Moving along with the society

Since the innovation of "Micron Mill" as a fine mill which can grind a material down to micron size by unique structure, we have always focused on improving new powder technologies to meet social needs.

1916

## Foundation of the Company

Eiichi Hosokawa founded the Osaka Turbine Water Mill Company

1930

It was a trigger to promote the Japanese industry of heavy calcium carbonate.

## Development of fine grinding technology

Invention of the "Micron Mill"

1952

## Development of ultra-fine grinding technology

Invention of the "Super Micron Mill"

1955

## Development of classifying technology

Invention of the "Micron Separator"

1956

## Establishment of an International Presence

Exhibited to the overseas exhibition

1957

## Dedication of Powder Sciences

Publishment of the journal called "The Micromeritics"

1959

## Development of drying technology

Invention of the "Micron Dryer"

1960

## Establishment of overseas subsidiaries

Establishment of Hosokawa Micron International Ltd. in the UK

1962

Technologies for air pollution control by suppressing a discharge of dust and soot were required.

## Cross-licensing agreement with Pulverizing Machinery Co. in the U.S.A.

Start sales of "Mikro-Pulsaire" and Pulverizer

1963

## Cross-licensing agreement with Nauta Mix BV in the Netherlands

Introduction of internationally well-known standard "Nauta mixer"

1964

## Development of agglomerating technology

Development of the "Micron Granulizer"

1969

## Development of powder characteristics tester

Development of the "Powder Tester"

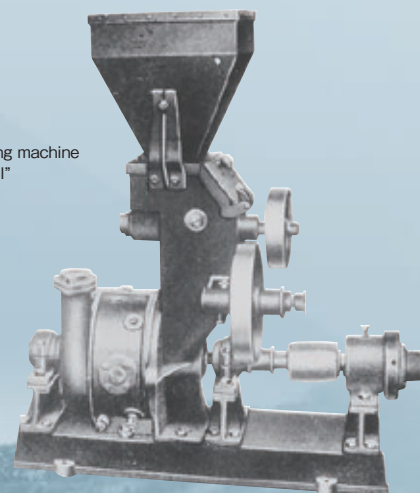
1982

## Implementation of globalization

## Acquisition of the Nauta Mix BV

Acquisition of the manufacturer of mixer in the Netherlands

Fine grinding machine  
"Micron Mill"



"The Micromeritics"



Classifier  
"Micron Separator"



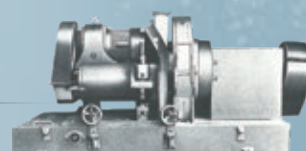
Pulsjet collector  
"Mikro-Pulsaire"



Dryer  
"Micron Dryer"



Mixer  
"Nauta mixer"



Agglomerator  
"Micron Granulizer"

Powder Property Evaluation  
"Powder Tester"



# Innovation for opening the future of industry

1985

## Acquisition of U.S. Filter Systems Inc.

Acquisition of the largest manufacturer of powder processing and dust collection equipment in the U.S.A.

1986

## Establishment of the new company emblem and CI color



This emblem symbolizes global company. English name of company is written in the center of the earth and previous emblem is drawn under the company name. Our corporate color contains a wish to root in the ground (white) and develop to the sun (red) and space (dark blue).

1987

Technologies for development of new materials depending on the progress of IT, and manufacturing process of superior toner were required.

## Development of nano composite manufacturing technology

Invention of the "Mechano Fusion"

## Acquisition of the Alpine AG

Acquisition of the largest German manufacturer of powder processing equipment in Europe

Introduction of the "Fluidized Bed Opposed Jet Mill"

1989

## Listed on the Osaka Stock Exchange (Listed on the Tokyo Stock Exchange in 1992)

Improvement of the corporate value

1992

## Acquisition of the Bepex Corp. Group

Acquisition of the manufacture of dryer and agglomerator in the U.S.A.

Introduction of the "Solidaire"

1995

## Implementation of a strategy for growth in Asia

Establishment of Hosokawa Micron Malaysia Sdn. Bhd. (1995), followings, in Korea, China, and India.

2004

Development and sales of products applying nano technologies were spotlighted.

## Commercialization of nano composite materials

Development and marketing of PLGA nano composite products

Establishment of the Hosokawa Micron Cosmetics Corporation in 2014

2007

## Preparation for basis of business

Completed construction of the head office building in 2007  
the Tokyo office in 2013  
the Alpine factory in Germany in 2014

2016

## 100th anniversary

Continuing innovation for the next 100 years

2020

## Taking over Solids Solutions Group, Hosokawa Powders Corporation established

2021

## Completion of new Osaka factory

2022

## Moved to the TSE Prime Market

2023

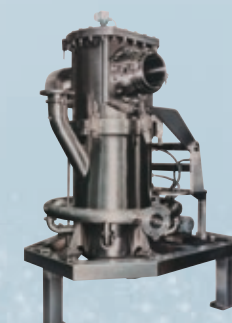
## Joint venture NEXOPART GmbH&Co. KG. established (Hosokawa Alpine's measuring and laboratory equipment business is transferred.)



Nano composite  
manufacturing equipment  
"Mechano Fusion"



Indirect heating dryer  
"Solidaire"



Ultra-fine grinding machine  
"Fluidized Bed Opposed Jet Mill"



PLGA nano composite products  
"Nano Cryshere"



New Osaka factory

# Our technologies supporting the society

Hosokawa Micron Group applied powder technologies of size reduction, classification, mixing, particle design, drying, agglomeration, feeding/discharging, particle measurement, clean room, containment and blown film manufacturing to allow our customers to create products for sustainable future across all industries.

## Batteries

- LIB cathode materials : Cobalt based, Phosphate based, Precursors of cobalt based manganese
- LIB anode materials : Graphite, Silicon



## Automobiles

- Bumpers : Talc
- Tires : Carbon black, Rubber
- Metallic powder coating material : Aluminum powder



## Toner, Magnet, Electric materials

- Toner : Polymer, Silica
- Graphite crucibles for silicon production : Graphite
- Neodymium magnet : Materials of rare earth magnet
- Sealant of semiconductor : Epoxy resin, Silica
- Multi layer ceramic capacitors : Barium titanate



## Minerals

- Building materials : Plaster, Fly ash, Cement of ultra-fine particles
- Fillers : Precipitated calcium carbonate, Ore, Clay
- Dental materials : Ceramics



## Foods

- |                |                               |
|----------------|-------------------------------|
| • Rice flour   | • Ground green tea            |
| • Flour        | • Spices and Herbs            |
| • Sugar        | • Coffee beans                |
| • Grains       | • Legumes                     |
| • Fish meal    | • Okara (Soy pulp)            |
| • Cacao        | • Dietary fibers              |
| • Starch       | • Thickener (Carrageenan)     |
| • Tomato paste | • Instant foods (Soup, Cocoa) |
| • Baby foods   | • Milk powders                |



## Pharmaceuticals

- Injection : Drugs, Stabilizers, Buffering agents
- Powders : Drugs, Excipients, Disintegrants
- Tablets, Orally disintegrating tablets (OD tablet) : Drugs, Excipients, Disintegrants, Lubricants, Coating materials



## Chemicals

- Fire retardant : Hydroxides
- Disposable diapers : Super absorbent polymer (SAP)
- Cosmetics : Titanium oxide, Zinc oxide, Pigments
- Exhaust gas treatment : Sodium bicarbonate
- General chemicals : Phosphates, Pigments, Dyes, Powder coatings, Cellulose (CMC)



# Hardly noticeable but exist there

## Synthetic resins

- Water pipes : Polyvinyl chloride (PVC)
- Fluorine coatings : Fluorocarbon polymer (PTFE)
- PET bottles, Chemical fibers, Plastic for industrial materials : Polyester (PET), CO-PET, Polyamide (PA), Polyimide (PI), Super engineering plastic



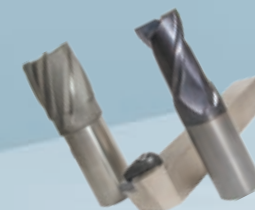
## Recycling

- Recycling : Film edge trim, PVC window frames, Coated copper wire, Used tires



## Ultrahard materials

- Tools : Tungsten carbide, Silicon carbide



## Clean rooms

- Manufacturing environments : Pharmaceuticals, Foods, Semiconductors
- Research Facilities, R&D : Pharmaceuticals, Nano particles
- Hospitals : Operating rooms



## Air pollution control

- Incinerators, Boilers, Exhaust gas treatment devices for melting furnace : High-temperature exhaust gas



## Blown films

- Packing films
- Barrier films for food
- Protection films for electronics



## Agriculture

- Agriculture
- Feed
- Fertilizer : Ammonium nitrate, Chemical fertilizer



# Our solutions

## Powder processing

Most of the products we use and consume in our daily lives incorporate powders in some form during the manufacturing process. Our global presence brings together the finest talent pool of people to develop, design and manufacture our powder processing equipment and complex engineered system based in Japan, Europe, America and some developing countries. In addition, we remain leaders in the cutting edge application of nano composite materials.

### Engineering and Sales of Equipment

Our core business is designing, manufacturing, and sales of powder processing equipment and systems. Our equipment and systems (grinding, classifying, mixing, particle design, drying, agglomerating, feeding/discharging, particle measurement, bag filter, clean room, containment, etc.) are available in both laboratory sizes and full scale production capacity.

### Toll Processing

Toll processing business requires our accumulated experience and know-how as the leading global company of the powder technology. We offer a wide range of contract manufacturing and custom services for all sorts of applications to meet the various needs of customers.

### Materials

Material business commercializes nano composing technology that has the feature of releasing active ingredient gradually. We also work for OEM/ODM business of the original cosmetics and hair tonic, etc.



### After Sales Service

In order to support the safe and stable operation of customers' equipment, we conduct prevention diagnosis, rapidly provide spare parts, overhaul, remove for remodeling, support by telephone, and conduct remote diagnostic service by via the Internet and telephone.

### Powder Technology Research Institute

Research and Development of new products and technologies within our group companies by integrating and coordinating our global R&D. We are leading the development of powder technology in the world.

## Pursuit of further diversity and high functionality

## Blown film

Making packaging film for pharmaceuticals and food is a highly specialized application that incorporates technology giving the function to protect products from oxygen exposure, UV rays, and moisture. Masking tape for optics demands homogeneity of thickness and superior smoothness. We focus on the development, manufacturing, and sales of equipment and systems to produce high functional mono to multi-layer blown films.

### Film Manufacturing System

Our main business is manufacturing, sales and system engineering of high quality blown film line. We handle consistent system from feeding equipment to winder. The core of manufacturing line is patented X-Die. We can minimize purging times during material changeovers by innovative and compact design. This system is widely used to manufacture flexible packing film because it can easily make tubular films.



# Global network

Our global presence allows us to integrate the best of the human resources to lead research and development efforts throughout the world resulting in the most practical technical solutions to our customers. Our years of experience are unparalleled in the industry.

## The mountain range of powder technologies creates an infinite number of possibilities.



### Facilities and offices (in Japan)

**Osaka (headquarters)**  
 1-9, Shodaitajika, Hirakata-shi, Osaka 573-1132  
 TEL: +81-72-855-2226 FAX: +81-72-855-5197  
 Factory / TEL: +81-72-855-2412 FAX: +81-72-855-2410

**Tokyo operation**  
 407-2, Nakatoyofuta, Kashiwa-shi, Chiba 277-0873  
 TEL: +81-4-7131-3180 FAX: +81-4-7131-3183

**Nara operation**  
 1390, Sugawa-cho, Gojo-shi, Nara 637-0014  
 Nara plant TEL: +81-747-26-3960 FAX: +81-747-26-3970  
 Gojo plant TEL: +81-747-26-6090 FAX: +81-747-26-6091

**Tsukuba Shinozaki Plant**  
 2345-1, Shinozaki, Tsukuba-shi, Ibaraki 300-3264  
 TEL: +81-29-864-3786 FAX: +81-29-864-7635

**Tsukuba Wadai Plant**  
 27-2, Wadai, Tsukuba-shi, Ibaraki 300-4247  
 TEL: — FAX: —

**Shimonoseki service center**  
 2-7-24, Ichinomiya-cho, Shimonoseki-shi, Yamaguchi 751-0806  
 TEL: +81-83-263-2656 FAX: +81-83-263-2686

**Nagoya service center**  
 Kawashima 5th Bldg. 2F, 29-16, Imaikeminami, Chikusa-ku, Nagoya-shi,  
 Aichi 464-0851  
 TEL: +81-52-735-4380 FAX: +81-52-735-7750

### Subsidiaries (in Japan)

**Hosokawa Powders Corporation**  
 (Toll processing of powder, Sales and R&D)  
 2345-1, Shinozaki, Tsukuba-shi, Ibaraki 300-3264  
 TEL: +81-29-864-3786 FAX: +81-29-864-7635

**Wagner-Hosokawa Micron Ltd.**  
 (Sales for powder coating system)  
 1-3-18, Kitayama, Hirakata-shi, Osaka 573-0171  
 TEL: +81-72-856-6751 FAX: +81-72-857-3722  
 407-2, Nakatoyofuta, Kashiwa-shi, Chiba 277-0873  
 TEL: +81-4-7131-3175 FAX: +81-4-7131-3161



Hosokawa Micron Ltd.



Hosokawa Micron BV



Hosokawa Alpine AG



Hosokawa Micron Corp.



Hosokawa Micron International Inc.

# Toward the future possibility

## Human resources

Our group companies focus on placing the right people in the right positions and bringing up globally competent human resources who can correspond to environmental change in the way which is suitable for each country and region. Moreover, we aim to maximize group synergy effects by human resources, and realize true technology transfer through understanding different corporate cultures and business styles by personnel exchange.

## Contributing to the fields of powder technology world wide

We support powder technology and the development of study around all fields with the belief that promotion of study leads to a good environment for not only mankind but also nature.

### Supporting study and publishing journal

We make efforts to improve and spread powder technology to internal and external companies by organizing “the symposium of powder technology” that has been held since 1957, and publishing journals such as “The Micromeritics” and “KONA”.

# For the wealthy and high quality future

Low carbon society, recycling society, universal society, etc. are known as the society to build a wealthy and high quality future.

Hosokawa Micron will meet the needs of a diversified society and customers. Moreover, we will develop the innovative technology integrated in various technologies of different fields to assist in producing new industries.

Our challenges last forever.