THE SEISHIN
Corporate Profile

Custom Processing
Custom Food Processing and Sales of Raw Materials
Measuring Equipment for powders
Custom Analysis
Plant Equipment for powders
Food Equipment
Trouble Solving Equipment
Functional materials
Health food
Overseas business
Motto

We, even if a small group in the human society, must always strive for contributing our own bit to the advancement of history, society and its welfare.

We as responsible citizens should try to reinvent ourselves and create a meaningful time and should never lose the self consciousness and pride as efficient workers and devote a considerable portion of our time to company life.

Companies must continue to make stable profit and develop new ways to guarantee our quality-of-life.

Founder Haruhiko Ueda

August 28, 1968

Origin of Better Seishin Mark

“Although there is “Better” in manufacturing business, there is no “Best”. New machines which are better than the current machines can always be produced. We should never think that the current machines are perfect. Produce new machines with belief.”

This is a phrase of the lecture of the expert who supported our company for a long time. This belief led to the birth of “Better Seishin”.

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* All products mentioned in this catalog are designed and produced for the use of general powder materials. Carry out necessary treatment if you intend to use them with dangerous materials such as poisons, explosives, etc.
* For use outside Japan, we may ask you to submit documents showing the import country, end user name and the purpose. Please ask or contact the person in charge.
* Japanese government’s permission for export is needed depending on the item Thank you for your cooperation.
Seishin Co. has always been engaged in manufacturing from customer’s perspective since its inception on 28 August 1968.

Seishin’s main businesses are development, manufacturing, sales and after sales service of various measuring equipment including particle size distribution measuring equipment, development, design, manufacturing and sales of equipment ranging from powder manufacturing equipment to plant engineering based on main equipment, custom processing service of powder started as indigenous system by Seishin, resource recycle and sale of processed products targeting renewable waste, advance powder processing and import and resale of processed products in collaboration with overseas companies and so on. All these businesses are backed by our proprietary technologies that we have developed over 50 years along with our esteemed customers.

Seishin and its affiliated companies both in and outside Japan are of the view that powder is the starting point of manufacturing in ceramics to fine ceramics and electronics and communication to foodstuff and pharmaceuticals and we are devoted to the evolution of powder technology to build a better society.

Website: http://www.betterseishin.co.jp  E-mail : info@betterseishin.co.jp
Corporate Profile

- Company name: SEISHIN ENTERPRISE CO., LTD.
- Representatives: Hiroshi Okamoto
- Establishment: August 28, 1968
- Capital: August 28, 1968 3,000,000 yen  January 1977 30,000,000 yen  April 1985 100,000,000 yen  March 1996 300,000,000 yen
- Officers: Chairman / Ueda Haruhiko  President / Hiroshi Okamoto  Directors / Masashi Onomura  Nobuya Yamane  Naoki Agawa  Shigenobu Mishima  Auditor / Kinichiro Suga  Advisers / Hitoshi Itoh  Michiko Ueda  Masahiro Yajima
- Account settlement: Once a year (March 30)
- Shareholders: UFFC CO., LTD  Haruhiko Ueda  Hiroshi Okamoto
- Number of employees: 393 (Male: 252  Female: 41)
- Branch offices: SENDAI.B.  KITAKANTO.B.  MINAMIKANTO.B.  NAGOYA.B.  OSAKA.B.  OKAYAMA.B.  SHIKOKU.B.  UBE.B.  KYUSYU.B.
- Factories and laboratories: NIKKO.F.  TONEGAWA.F.  KOGA DEV LAB  ARAKAWA.F.  YAMAGUCHI UBE KOTOBUKI.F.  HIBIKINADA.F.

Organization chart:
- Equipment Division
  - Measuring instrument
  - Plant equipment
  - Trouble Solving Equipment
- Custom Division
  - Custom processing
  - Custom food processing
  - Custom measurement
- Development Division
  - Development of equipment
  - Development of materials

Head office, Branch office, Factories:
- ARAKAWA Factory
- NIKKO Factory
- TONEGAWA Factory
- HIBIKANADA Factory
Company History

August 1968
With trade liberalization and technology innovation in the background, Seishin was established with a capital of ¥3 million at Kojimachi, Tokyo to work in the field of powder engineering, which had many undeveloped areas technologically and academically and develop and manufacture excellent powder related equipment jointly with academia.

1970
Capital infusion was increased and paid-up capital became ¥6 million.

1973
Start of sale of jet stream mill, bulk density measuring equipment, desk top sampler etc.
Head office moved to a bigger office in Honmura-machi, Ichigaya, Shinjuku-ku
5th anniversary party
Company trip: Oirase and Towada

1974
Establishment of powder laboratory in Sanbancho, Chiyoda

1978
Head office moved to Sendagaya, Shibuya. 10th anniversary party

1982
Tonegawa factory opened in Saitama as the first factory specializing in custom processing

1983
Lecture on “Powder Technology” held on the occasion of 15th anniversary event

1985
Arakawa factory opened in Kawaguchi, Saitama
“The Second lecture on Powder Technology”

1986
Ube branch opened in Ube, Yamaguchi

1987
Osaka branch opened in Suita, Osaka
Training for all the employees was carried out at Saipan Island.

1988
Nagoya branch opened in Aichi, Nagoya
“The Third Powder Technology Lecture” held on the occasion of our 20th anniversary event

1991
Seoul, South Korea branch opened

1993
Hibikinada factory opened in Kitakyushu, Fukuoka

1995
Sendai branch opened in Sendai, Miyagi

1996
Our joint venture company “Yixing Seishin Powder Machinery Co., Ltd” opened in Yixing, China

1997
Our subsidiary company “Hatsuratsu Co., Ltd.” established in Sendai, Miyagi
Shikoku branch opened in Takamatsu, Miyagi

1998
Imaichi factory established in Imaichi, Tochigi. (Current name is Nikko factory)
“Powder Technology Forum and Celebration Party” organized on the occasion of our 30th anniversary event

2000
Shanghai, China office opened

2001
Establishment of Korean joint venture “JS Tech Co., Ltd.”

2002
Completion of new plant building of Imaichi plant (Present Nikko Plant)
Relocation/expansion of Toda plant
Okayama business office opened in Okayama city, Okayama
Yasugi food-processing plant opened in Yasugi city, Shimane Prefecture

2005
Chairman and Representative Director Haruhiko Ueda assumes office
President and Representative Director Hiroshi Okamoto assumes office

2006
Launch of DYNAMIC IMAGE ANALYZER/PARTICLE ANALYZER (PITA-1)

2007
Chairman publishes “JITSUROKU KOKUSAKUSOUSA” in his pen name “Hayato Kishi(Kishi Hayato)"
Conducted training program at Jeju Island, South Korea.
Acquired 100% shares of Bomboner Co. and it became a wholly owned subsidiary.

2008
“The Fifth Powder Technology Lecture” organized on the occasion of our 40th anniversary event
Launch of LASER DIFFRACTION PARTICLE SIZE ANALYZER (LMS-2000e)

2009
Launch of CIP AUTOMATIC STERILIZER (SKS-50)

2012
Establishment of Yamaguchi Ube Factory in Ube, Yamaguchi.

2013
Establishment of Koga development laboratory in Koga, Ibaraki.

2014
Establishment of Kitakanto branch in Koga development laboratory.
Establishment of Minamikanto branch in Atsugi, Kanagawa.
Establishment of Kyushu branch in Hakata, Fukuoka.
Head office moved to Sendagaya, Shibuya.
Seishin has always been engaged in manufacturing from customer’s perspective since its inception on 28 August 1968. Seishin’s main businesses are development, manufacturing, sales and after sales service of various powder measuring equipment, development, design, manufacture and sales as well as plant design and construction using main equipment, custom powder processing service started as an indigenous system, sale of recycled materials by the Functional Materials Division, and import and sale of inorganic and organic processed products from overseas. And then there is the R&D Division that supports these businesses of Seishin technologically and is engaged in development and innovation of new equipment and materials.

Business outline

Seishin, a composite powder measuring equipment manufacturer, since its inception started manufacturing and sales of light transmission type powder distribution measuring equipment that formed the basis of Japanese quality control, with a view to enhance the performance and quality of domestic products that could counter high performance imported products that entered Japan due to trade liberalization. At present, Seishin primarily manufactures and sells the most diverse powder measuring equipment in Japan that can evaluate characteristics and safety of particles ranging from latest particle distribution measurement equipment, powder analyzer based on dynamic image analysis method for areas that attach importance to shape such as toners, spherical silica particles, conductive balls, various types of milled fiber, graphite, mica etc. and sound wave robot shifter used as standard equipment for particle evaluation by pharmaceutical manufacturers in Japan, to measuring equipment for bulk density, true density and shape distribution, and dust explosion test apparatus etc. Seishin always aims at building the highest level measuring equipment that can evaluate advanced materials.

Powder Measuring Equipment

Seishin inducted dry stream mill (Jet mill) from overseas and started selling super fine powder manufacturing equipment for pesticides. Japan has been a pioneer in the field of pulverization technology and has supplied equipment for manufacturing high purity and super fine powder in diverse fields. It has a long track record of supplying equipment for diverse fields ranging from pesticides, paints, dyes, toners, electronic materials like dielectric and conductive materials to food stuff and pharmaceuticals. Of late, Seishin is active in diverse fields ranging from energy such as rechargeable battery, solar cell, capacitor that are environment-friendly, functional catalysts aimed at environment improvement, advanced non-ferrous electrical materials such as gold, silver, nickel etc., functional foodstuffs aimed at health and constitutional improvement.

Seishin supplies comprehensive plant equipment for drying, pulverization, screening, mixing, surface treatment and trouble prevention during processing such as adhesion during powder handling and wear abrasion. Particularly, we take pride in world’s highest-level pulverization using superheated vapor to ultra low temperature vapor and submicron level screening.
Custom processing of powder

We undertake custom processing of various types of powders at our plants that have over 30 year experience in fields such as organic, inorganic and industrial materials, food materials and drug decay etc. Custom processing where powder is processed on behalf of customers, we have equipped highest capacity powder processing and evaluation equipment and undertake processing of powder ranging from small samples to several hundred tons. In food processing, natural products disinfected in highly controlled clean room are processed without any deterioration in product grade. Processing and evaluation equipment are corrected and improved on daily basis on the shop floor and we take pride in offering manufacturing of highest level to our customers.

Manufacturing and sale of functional materials

Putting to use recycle technology for cleaning, segregation and crushing aimed at resource recycle society, we sell new value added reclaimed goods such as chopped and milled fibrous end materials of crushed PTFE waste, reclaimed crushed fibers using chemical crushing method, natural silk, ceramic fiber, carbon fiber etc. Our long established powder processing and evaluation technologies make reclamation of various materials possible. In addition, grain size and shape adjustment technology including purification, pulverization and shape control of natural minerals enhances value addition of materials. Especially, along with export of technology and equipment for material quality and stable supply of materials to manufacturers who control resources overseas, Seishin imports and sells products processed overseas.

Development of equipment and functional materials

Seishin, as a pioneer of powder equipment in Japan, has received support from a large number of users. We are engaged in development and improvement of futuristic equipment and materials on continuous basis. Seishin’s obsession with powder and pursuit of quality and performance of the highest order gives birth to best evaluation and processing equipment. We have dedicated personnel in charge of equipment and functional materials in Japan and we undertake development of equipment and materials demanded by users based on collection of information from the production shop floor on daily basis.
Powder processing business that offers world’s highest-level processing environment, processing and evaluation technology and quality

Seishin’s custom processing of powder is the system to support in part our customers in stable and high quality production and development of powder by undertaking management of cumbersome processes and pollution control on behalf of customers as also mitigating the risk of investment in plant and equipment.

Seishin has plants in various parts of the country that are ISO certified (Tonegawa, HibiKinada, Nikko and Kotobuki plant, Ube, Yamaguchi) that helps in distributing the delivery risk. In addition, even when contemplating induction of equipment, operations ranging from lay outing to trial run and analysis can be carried out smoothly based on rich empirical data by using our custom processing service.

Contents of work

- Pulverizing
- Classification
- Drying
- Mixing
- Granulation
- Surface treatment
- Analysis

Processing from few gms to several hundred tons, submicron to mm level without any contamination

Features

- Capability to make proposals and offer resolutions of high level by the specialized technology group
- Pulverization from rough to wet, dry and super fine grades is possible
- No capital requirement for plant and equipment and risk aversion
- Advanced powder evaluation technology based state-of-the-art equipment at all times
- Workplace paying due attention to man, resources, products and environment
- Minute response matching your needs
- Risk distribution
- Global development Overseas processing base
- Can be started and terminated at will
Food processing business that continually pursues high quality with safety and security as the motto

We undertake custom processing of foodstuffs in large-sized clean room putting our proprietary powder processing technology based on long experience and track record of ours to use. We also bring to our customers a large variety of value added materials like ‘Domestically produced’, ‘Organic JAS’, ‘Pesticide free’, ‘Specially cultured’ etc. In addition, we also undertake development of our customer’s original brand products using our materials and OEM supplies. Please feel free to contact us for high quality food materials.

Custom Processing

Contents of work
- Extraction
- Drying
- Pulverizing
- Frozen grinding
- Sterilization
- Mixing
- Granulation
- Tableting
- Encapsulation
- Dividing and packing

Features

Quality is our top priority
We carry out low temperature grinding, ultra-fine grinding, and sterilization without harming the original color, taste and flavor of food raw materials

Full scale manufacturing
Integrated production which involves not just pulverization and sterilization but also raw material procurement, extraction, drying, granulation, tableting and packaging.

Ultrafine grinding
Ultrafine grinding technology (possible up to 5 micron in dry form), which is one of the best in Japan, based on indigenously developed JET MILL.

Original Technology
Oily materials or fibrous materials such as seeds, mugwort, Ganoderma lucidums etc. can be milled into powders using our technology.

Third-party certificate authority
“ISO 9001” and “Organic JAS” certification. QC set up of the highest level.

Track record of processed products

Vegetables, leaves and green vegetable juice
- Young Barley Leaf, Mulberry leaf and Mugwort etc.
- Japanese citron, Blueberry, Papaya, etc.
- Fruits
- Japanese citron peel
- Gains
- Soybeans
- Algae
- Chlorella, Spirulina, etc.
- Food additives
- Vitamin, Amino Acid, Calcium, etc.

Mushrooms
- Ganoderma lucidum, Sparassis crispa, Hericium erinaceum, etc.

Root crops
- Ginger, Panax notoginseng, Turmeric, Maca, etc.

Seafood
- Kelp, Shark Cartilage, Softshell turtle, etc.

Track record of processed products

Root crops
- Ginger, Onion peel, Turmeric, Maca, Candle Bush etc.

Seafood
- Kelp

Track record of processed products

Vegetables, leaves and green vegetable juice
- Young Barley Leaf, Mulberry leaf, green tea, etc.
Powder measuring equipment business

Powder measurement necessitates specialized knowledge and technology. Seishin boasts of complete range of measuring equipment suited for all kinds of needs.

Instantaneous and highly accurate measurement technology in the shortest possible time including grain size distribution measuring equipment is our proprietary know-how that has been the leader in the industry for long. Do experience it.

Clear image is a prerequisite for image analysis. This device has a high-resolution CCD camera, LED source for backlight, and overlapping of particles can be averted in the observation zone by using plane extension cells and a good focus, clear particle image can be obtained. Clear images of all the particles that have been mapped are stored.

**PITA SERIES**

**Dynamic Image Analyzer/Particle Analyzer**

PITA-3

- Clear image is a prerequisite for image analysis. This device has a high-resolution CCD camera, LED source for backlight, and overlapping of particles can be averted in the observation zone by using plane extension cells and a good focus, clear particle image can be obtained. Clear images of all the particles that have been mapped are stored.

**PITA-3**

- Clear image is a prerequisite for image analysis. This device has a high-resolution CCD camera, LED source for backlight, and overlapping of particles can be averted in the observation zone by using plane extension cells and a good focus, clear particle image can be obtained. Clear images of all the particles that have been mapped are stored.

**Laser Diffraction Particle Size Analyzer**

**Mastersizer**

- MS-3000 can measure samples, 0.01~3500μm
- Device has a compact design with dimensions of 690×300×450mm.
- Unit replacement is easy, there is auto optical axis adjustment and immediate measurement is possible
- Both dry and wet measurements are possible

**Laser Micron Sizer**

- LMS-2000e can measure samples 0.02~2000μm within 1 min
- Measurement is possible with 20ml liquid based on small amount wet unit
- Dry measurement with Micro spatula 1 spoon is possible
- Both dry and wet analyses are possible

**Sonic Sieving Particle Size Analyzer**

**ROBOT SIFTER**

- Robot sifter automates all the processes of sample sieving, weighing and calculation
- The model RPS-205 can continuously measure up to 20 samples at one time

**Gilsonic Auto Siever**

- Fine particles up to 5μm can also be sifted accurately
- Sifting without breaking the granulated particles is possible

**Spin Air Sieve**

- Sieving of fines (5μm~) is possible by dry method
- There is less clogging due to short duration
- From tester to continuous production type
Custom measurement business

At the Powder Measurement Center, we handle various types of measurements for induction of equipment and improvement including particle size distribution. Our custom measurement leads to avoidance of investment in plant and equipment and highly accurate results can be obtained instantaneously without much effort and they come handy for ‘security, safety and cost reduction’ in R&D and quality control.

Measurement items

- Grain size distribution
- Particle shape
- Dust explosion
- Physical properties of powder
- Shear test
- Specific surface area
- Micropore distribution
- True density
- Hardness
- qualitative/quantitative measurement
- Ample preparation
- Other measurements

※ We undertake preparation of pulverized samples required for measurement.

Examples of measurement samples/all types of powders, metal powder, resin powder, food, etc.
Measurement of explosion lower limit concentration

Examples of measurement samples/all types of powders, magnetic material, chemicals, food, fibers, soot, filtered water, river water, turbid water, soil, bottom sediment, dust in liquid etc.
Grain size distribution measurement based on laser refraction

Customer Support Service

Customer support (CS) personnel visit customers on regular basis and inspect the devices in use. Abnormalities that can be corrected on the spot are carried out free of cost and any major repair required is attended to within 3 days at customer’s end or even off-site repair service is available. We are proud of our service set up that gives our customers complete peace of mind.
Seishin’s powder equipment are equipped with technology indispensable for the development of high level new materials such as grinding technology to prepare super fine powder, classification, high efficiency dispersion, drying, mixing, granulation, surface reforming etc.

In addition, designing and execution of powder plant in line with customer requirements, has contributed to production leading to high customer trust in us.

**BETTER SEISHIN** means that there is no BEST in powder equipment and thus, we always strive for offering the better product.

<table>
<thead>
<tr>
<th>Single Track Jet Mill</th>
<th>Sanitary Jet Mill</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vertical type jet mill where grinding and classification zones are separate and a structure where coarse grains are hard to be discharged. It is effective for pigments, pesticides, and pharmaceuticals. It is a mill with long history.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Compact Jet Mill</th>
<th>Desk Top Jet Mill</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO-JET SYSTEM</td>
<td>JOM-mini</td>
</tr>
<tr>
<td>It is a small-sized packaging equipment for the lab suitable for small-to-large variety powder manufacturing and can be easily dismantled and washed. Continuous grinding is possible as it has auto feeder.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Laboratory Jet Mill</th>
<th>Sanitary Jet Mill</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-O JET MILL</td>
<td>JOM SERIES</td>
</tr>
<tr>
<td>Extra small sized jet mill that can grind expensive materials like non-ferrous drugs in small quantities (1~several gms). Dismantling and washing are easy.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>High Speed Rotor Mill</th>
<th>Crushing • Sizing Mill</th>
<th>Coarse Grinding Mill for Resin and Rubber</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMPELLER MILL</td>
<td>QUICK MILL</td>
<td>ORIENT MILL</td>
</tr>
<tr>
<td>Effective grinding of battery material, soft resin, fibrous material etc. based on interaction of multi-stage rotor and wavy liner. It can be used for freeze grinding.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Coarse Grinding Mill for Resin and Rubber</th>
<th>Vertical Type Mill Suitable for Recycling such as Reduction in Crushing of Defective Moldings of Resin Materials, Bumpers, Vibe, Sheet Type End Materials etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ORIENT MILL</td>
<td>Planetary Ball Mill PM-1200/SKF-04</td>
</tr>
<tr>
<td>Coarse grinding, cracking and granulation are carried out based on shearing force of revolving blade. Crushing keeping heat under control is possible based on all sides open screen.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PLANETARY BALL MILL</th>
<th>ACURATELY FORCED VORTEX AIR CLASSIFIER</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM-1200/SKF-04</td>
<td>CLASSIEL N-01</td>
</tr>
<tr>
<td>Grinding time is curtailed based on strong centrifugal force combining rotation and revolution and both dry and wet methods are possible even for surface reformation of materials.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Accurately Forced Vortex Air Classifier</th>
<th>Lab Classiel N-01</th>
<th>Micron Classifier Pharma-Air Separator</th>
<th>Mass Production Type Spin Air Sieve</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLASSIEL</td>
<td>N-01</td>
<td>SAR-500</td>
<td>SAR-500</td>
</tr>
<tr>
<td>Forced vortex classifier that makes wide-ranged classification at high efficiency possible based on RPM of classification rotor and adjustment of rectified air.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LAB CLASSIEL N-01</th>
<th>MICRON CLASSIFIER PHARMA-AIR SEPARATOR</th>
<th>MASS PRODUCTION TYPE SPIN AIR SIEVE SAR-500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small-sized device where dismantling and washing of ACCURATELY FORCED VORTEX AIR CLASSIFIER CLASSIEL has been improved for R&amp;D.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Free vortex air separator having a simple structure having no drive part. Anti-wear countermeasure is possible. It can be used as closed circuit with mill. |

| Air sieve for fine crushing different from conventional sieve that makes classification (siving) of fine powders possible based on swirling and rising airflow. |

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**Plant Equipment for powders**

- **SAR-500**
- **MASS PRODUCTION TYPE SPIN AIR SIEVE**
- **CLASSIEL N-01**
- **MICRON CLASSIFIER PHARMA-AIR SEPARATOR**
- **PLANETARY BALL MILL PM-1200/SKF-04**
- **IMPELLER MILL**
- **ORIENT MILL**
- **QUICK MILL**
- **COARSE GRINDING MILL**
- **LABORATORY JET MILL A-O JET MILL**
- **COMPACT JET MILL CO-JET SYSTEM**
- **SINGLE TRACK JET MILL**
- **SK JET-O-MILL**
- **Horizontal type Jet Mill suitable for ultrafine grinding that can select liners suitable for abrasive and sticky powders. We have ceramic specifications for all inner surfaces.**

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**11**

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**Plant Equipment for powders**
Continuous-type sterilizer using heating steam
Sterilization without harming the material due to variable nozzle is possible. It can also be used for CIP, SIP.

CIP AUTOMATIC STERILIZER

Shear heating type
Cereal gelatinization grinder

- Gelatinized rice can be obtained with 1 process as shearing force is generated in raw material rice based on moisture, heat, and mortar in molars, and gelatinization and grinding are also carried out simultaneously.
- Its characteristics is that compared to gelatinized rice powder based on conventional method, there is less deterioration and ageing of color and flavor of the raw material.
Unique original equipment that offers peace of mind to production

Auto hammering removal devices ‘Air knocker’, ‘Eleki knocker’ that eliminate clogging and adhesion of powder, and air spray type auto removal device “Jet blaster” boast of 30 years of service in diverse fields. For models and selection of place of location, contact Seishin that has the longest experience and excellent track record in the industry.

In addition, we also offer various products and ideas that will be useful in solving various problems of powder such as inclusion of metallic contaminant, wear of pipeline during pneumatic transport.

Auto dust removal device

- AIR KNOCKER
- SV KNOCKER
- ENPLA KNOCKER (Engineering plastic knocker)
- JET BLASTER
- ELEKI KNOCKER (Electric Knocker)
- PNEUMATIC VIBRATOR

Metallic foreign body remover

- ROTARY CATCHER
- GRATE MAGNET
- ROTARY VALVE

Discharge chute

- BMF FITTING

Wear resistant transport pipe

- FLEXIBLE CERAMIC HOSE
- CERAMIC BEND PIPE
Advanced material processing technology that adds required functions

Seishin, which is a composite manufacturer of powder equipment, offers original functional materials making full use of processing technology that it has developed since inception. We have a large number of products besides those listed in our catalog.

In addition, we assist development of high function resin like conductive resin and thermo conductive resin etc. based on novel ideas and indigenous technologies as well as mass production. As for resins, a large variety ranging from thermoplastic general purpose resins to super engineering plastics are available. Fillers like Carbon black, Carbon nanotube etc. can be processed as per customer requirements. Moreover, materials can be selected according to function and physical properties.

Original functional materials

**Seishin Mica (Dry-ground series)**

From procurement of raw materials to processing and quality control, we supply highly controlled high-quality stable mica.

**Recycle PTFE Wax Powder (TFW Series)**

1. A range of grades available depending on required particle size.
2. Low price due to the waste material utilization.

<table>
<thead>
<tr>
<th>Property/Grade</th>
<th>TFW-500</th>
<th>TFW-1000</th>
<th>TFW-2000</th>
<th>TFW-3000</th>
<th>TFW-3000F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Particle size</td>
<td>×50</td>
<td>×100</td>
<td>×100</td>
<td>×100</td>
<td>×100</td>
</tr>
<tr>
<td></td>
<td>25μm</td>
<td>10μm</td>
<td>6μm</td>
<td>4μm</td>
<td>3μm</td>
</tr>
<tr>
<td>True specific gravity</td>
<td>2.1~2.2</td>
<td>−</td>
<td>−</td>
<td>−</td>
<td>−</td>
</tr>
<tr>
<td>Melting point</td>
<td>≥320℃</td>
<td>≥310℃</td>
<td>≥310℃</td>
<td>≥320℃</td>
<td>−</td>
</tr>
<tr>
<td>Color(Visual)</td>
<td>White</td>
<td>−</td>
<td>−</td>
<td>−</td>
<td>−</td>
</tr>
<tr>
<td>Drug-resistant</td>
<td>Stable against almost all drugs</td>
<td>−</td>
<td>−</td>
<td>−</td>
<td>−</td>
</tr>
<tr>
<td>Use</td>
<td>Commodity plastic, paint, lubricant, rubber additive</td>
<td>Ink + paint + lubricant, oil, films</td>
<td>Ink + paint + lubricant, oil, films</td>
<td>Fiber, paint + oil + Multiple coating</td>
<td></td>
</tr>
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**Polyethylene powder**

It is fine polypropylene powder produced by our original "chemical milling" technology.

| SK-PE-20L Low-density polyethylene | Average particle size 2.0 μm |

**Polyethylene Wax Powder (PPW)**

1. It is polypropylene fine powder manufactured based on chemical grinding method.
2. Basic grade is PPW-5 (average particle size 5μm) but 10μm, 20μm are also possible.

**Mineral resources**

We offer Kaolin, Wollastonite, Silica, hollow beads, Fly ash balloon etc. mainly produced in China.

Seishin has a team that assists our customers in processing involving high degree of difficulty or that our competitors cannot do and merchandizing various items. Do contact us as we have a wide range of solutions besides functional materials.
Functional foods being developed continuously in pursuit of social health

In the ageing society of Japan, medical insurance system is reaching its limits and is beset with various problems such as the pension problem and the nursing problem etc. Naturally, interest in health is always increasing. Hereafter, need for preventive medicine will increase and health foods will play an increasingly larger role in society and medicine.

In order to respond to such social needs and future problems, Marketing Department, Health Business will ‘devote all its energies in R&D on Health’, and develop health foods for the new age.

Shark Cartilage is a complex protein, mucopolysaccharide (chondroitin) and calcium product. Only the cartilage of the great blue shark caught in Japan, which contains useful components, is selected and used. Special technologies such as frozen pulverization to prevent protein heat denaturation, are introduced, to make high-quality fine powders. Chondroitin is generally called “sticky substance” which is indispensable for our body.

For any query on products, kindly contact on our toll free number 0120-500-114 or reach us through our HP. We shall continue to offer products that promote beauty and health from within the body such as new ‘eating type vegetable juice made from leafy vegetables’ (powder type), ‘amino acid supplement’ for sports person, and beauty supplement ‘cystine-collagen WHITE’ etc.
Proactive development of global market

Seishin has set up subsidiaries overseas to serve our customers in their overseas businesses in the form of supply of equipment, custom processing at overseas locations, and consultation for entry into overseas markets. We have Japanese-speaking staff at overseas subsidiaries.

**JS Tech Co., Ltd.**

JS Tech was set up as the first dedicated company for custom processing in South Korea and undertakes grinding, drying and mixing of powder materials. It took over operations of South Korea branch of Seishin since 2010. It also carries out consultation and engineering jobs and provides overall support for powder business.

**Yixing Sesihin Powder Machinery Co., Ltd.**

It carries out manufacture and sale of powder equipment of Seishin under technology transfer since 1996. In recent years, it also designs, fabricates, procures and installs diverse powder equipment for Japanese companies in China. In addition, it also undertakes machining of parts for various machines and sheet metal working for Japanese customers in Japan.

**Seishin Powder Technologies Co., Ltd.**

It was established for powder processing on commission basis, manufacture of powder materials, manufacture and sale of equipment for measuring physical properties of powder. At present, it is primarily engaged in processing on commission basis. It has installed various types of grinders, classifiers, mixers and sieves in its plant to cater to diverse customer requirements in powder processing. Processing raw materials locally has merits in terms of cost reduction and delivery time curtailment. Processing on commission is yet to be established as a business in China but we consider it to be a business with good future prospects and we dispatch specialized personnel to overseas locations to realize the quality and delivery levels similar to that in Japan.

**Shanghai Seishin Genko Trading Co., Ltd.**

It is Shanghai Office of Seishin, incorporated locally in China. Local incorporation has enabled carrying out various operations with lesser restrictions. Now besides sale and technological support for Seishin products in China, it also functions as the support window for Japanese companies in China. In addition, besides export and sale of Chinese materials and equipment in the Japanese market, it can provide support for local market survey, sale of equipment other than the powder equipment. We have Chinese staff who are proficient in Japanese and who will support you in China as the Seishin staff.

**Hebei Chida Manufacture and Trade Co., Ltd.** *(Subcontractor)*

Hebei Chida Manufacture and Trade Co., Ltd is an export and import company occupied mainly in powder production and foreign trade. 1. Non-metallic mineral products: mullite sand/powder for precision casting, mica powder with various specifications, ceramic beads for casting, low iron calcite, dolomite, cenosphere, fused silica and high-purity quartz sand. 2. Metals: flange, ferrosilicon, iron wire and fireplace. 3. Introduce the Japanese technology, manufacture powder equipment. 4. Sport supplies for outdoors.
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