



新菱 Shinryo

COMPANY PROFILE



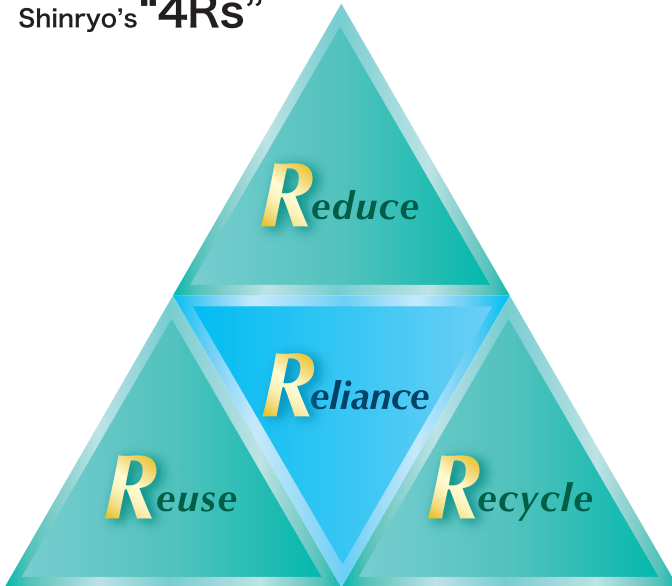
Shinryo Corporation

A  MITSUBISHI CHEMICAL GROUP company

ENGLISH (英語版)

Shinryo is developing its business fields anticipating the future of human and nature, by performing “4Rs”; Reduce, Reuse, Recycle and Reliance, making full use of its chemical technology.

Shinryo’s “4Rs”



【 Company Profile 】

Company name	Shinryo Corporation
Establish	October 1, 1964
Head Office	RISO Kurosaki-ekimae Bldg., 3-9-22, Kurosaki, Yahatanishi-ku, Kitakyushu-shi, Fukuoka 806-0021
Capital	500 million yen
Stockholder	Mitsubishi Chemical Corporation, 100%
Sales	25,900 million yen (Fiscal Year 2021)
Employees	1,254 employees (2022/03)

【 History 】

- 1964/10 Genkai Industry Corporation was established.
- 1975/04 Company name was changed into “Shinryo Chemical Corporation”.
- 1994/10 Company name was changed into “Shinryo Corporation” on the 30th birthday of our company.
- 2006/10 Shinryo Semicontechno Corporation was established by carrying out a merger among three subsidiaries, i.e. Kyushu Shinryo Co., Tohoku Shinryo Co., and Chubu Shinryo Co.
- 2008/04 Shinryo Corporation merged 4 (four) subsidiaries, i.e. Shinryo Semicontechno Co., Shinryo Electronics Co., Shinryo Service Co. and SIMAX Co..
- 2020/10 Shinryo Corporation has consolidated the operations of certain parts of Mitsubishi Chemical’s fine chemicals business along with MCC Unitec and Onahama Joryu, which have related businesses.



Message from the Top Management



The world situation is undergoing major changes and extreme uncertainty remains with the emergence of new infectious diseases, geopolitical risks, supply chain interruptions and resource governance.

Globally the need for creating a resource-recycling and carbon-neutral society becomes increasingly more critical each day. Now is the time to tackle global environmental problems.

Since our founding in 1964 Shinryo has utilized "reduce", "reuse", and "recycle" technology while cultivating and contributing to a recycling-oriented society. In this effort Shinryo will continue to lead by example. We are expanding our business based on the realization of 4R while adding "reliance" from customers through these activities.

Going forward we will continue to employ safety and compliance first initiatives, which are top priorities of our corporation, while also striving to improve our employees job satisfaction.

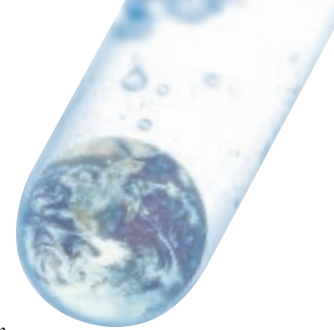
Shinryo will continue to be a company that contributes to society and the environment while evolving and expanding our portfolio and the reliance of our customers on our myriad products and services.

We look forward to your continued patronage and support in the future.

Masaaki Tsuchiyama, President



Circular Economy Solutions Businesses



Recycling and Environment Business

We propose new solutions based on a “circular economy” in which products are recycled after use instead of being disposed of. In this way, we meet customers’ recycling needs with proprietary technologies and a long track record of experience.

【 Businesses 】

- ◎ Neutralization and recycling of waste acids, waste alkalis, and waste oil for use as fuel or raw materials in cement manufacture
- ◎ Refining of fine ceramics
- ◎ Disassembly and material recycling* of office equipment
- ◎ Regeneration of ion-exchange resins



Futajima Plant



Water treatment equipment



Disassembly of office equipment

Photovoltaic Panel Recycling Business Carbon Fiber Recycling Business

We use state-of-the-art recycling technology to offer recycling services that other companies cannot.

【 Businesses 】

- ◎ Photovoltaic Panel reuse and recycling*
- ◎ Carbon fiber recycling

* Service provided by Corporation Recycle Tech, a group company.



Photovoltaic Panel Recycling Business



Precision cleaning Business

Our precision cleaning and surface treatment technology was developed for the best cleaning process to remove contaminants not visible to the naked eye and minimize metals.

We respond to worldwide cleaning requests with a network of our plants.



Precision cleaning

【 Business line 】

- ◎ Precision cleaning
Precision cleaning of various manufacturing equipment parts, including semiconductors and FPD (liquid crystal, organic EL), and Recovery of value items, and processing to render items harmless



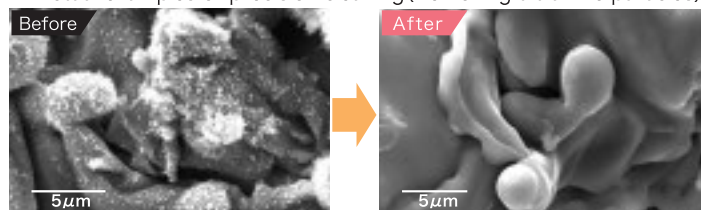
Development center to develop cleaning technology and perform analysis

Surface treatment and regeneration and Parts processing

【 Business line 】

- ◎ Parts processing
Additional processing, repairs, and new production
- ◎ Surface treatment and regeneration
Thermal spraying and anodized aluminium, precision polishing, blast, quarts regeneration, nickel plating, chemical polishing, electrolytic polishing, fluoride resin coating, etc.

■ Actual examples of precision cleaning (Removing ultra-fine particles)



(10,000 x image)

Fine Chemicals Business

Fine Chemicals Business

Shinryo manufactures and sells myriad chemicals of exceptional quality with a prime focus on the electronics industry. Additionally, Shinryo possesses various organic synthesis technologies and facilities committed to meeting the diverse requirements of the chemical industry. We routinely accept orders ranging from laboratory studies and prototypes to full-scale production.

- ◎ Own product
 - Crosslinking
 - Polyimide film
 - Antioxidants
 - Acrylic resin monomer
- ◎ Consignment
 - Novolac resins
 - Resist photosensitizing agents
 - Polymers (acrylics, imides, urethane)
 - Monomers (acrylics, etc.)
 - Solvent refining and distilling
 - Pharmaceutical intermediates (nGMP)
 - Other functional chemicals
- ◎ Equipment
 - Reaction tanks (50 L to 16 m3)
 - Separators (centrifugal filtration, pressure filtration)
 - Dryers (shelf-style and mixed, with agitators)
 - Column stills (including reduced-pressure capability)



Lab-scale studies



Kitakyushu Plant



Hachinohe Plant

Maintenance Management Business

- ◎ Maintenance of water and sewage treatment facilities
- ◎ Inspection services for purification tanks

Environmental Measurement Business

- ◎ Analysis of water quality, industrial waste, etc.
- ◎ Measurement of air, work environments, etc.



Reaction tank



Dryer with agitator



Column still (Iwaki Plant)

Access this link for detailed product information. →



Healthcare Business

We entered the healthcare business in 2019. We develop and supply unique materials and products in order to realize our vision of true health as a physical health, physical beauty, and emotional health.

To ensure our ability to supply customers with safe products that inspire peace of mind, we manufacture products at our own plant, where we practice thorough hygienic and quality control.

Developed products are sold under our Shinryo Healthcare brand. Going forward, we will continue to develop and supply a variety of products that draw on our technology and expertise.



【 Businesses 】

- ◎ Manufacture and sale of Highly Concentrated Hydrogen Jelly
- ◎ Manufacture and sale of Anti Virus goods



Highly Concentrated Hydrogen Jelly



Anti Virus Spray

Wafer Reclaiming Business

We respond to customer problems and requests in relation to semiconductors and wafers with our own technology.

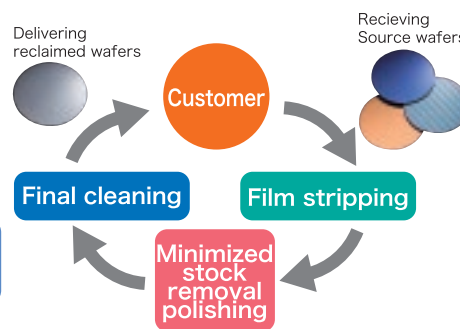
Huge amount of monitor and dummy wafers are consumed in the semiconductor manufacturing processes in order to diagnose equipment status and process conditions. We receive the consumed monitor / dummy wafers from our customers and return them with re-usable quality to our customers after film stripping, minimized stock removal polishing and final cleaning.

We provide our customers with substantial cost reductions through increase of number of times reclaimed wafers can be used by optimized film stripping and minimized stock removal^(※1), and a short turn-around time.

【 Business line 】

- ◎ Wafer reclaiming (200mm, 300mm)
- ◎ Cleaning of shipping boxes
 - FOSB/FOUP and others. We also provide cleaning of your wafer boxes or pods
- ◎ Reclaiming of specially-treated wafers
 - We have experiences to reclaim specially treated wafers, such as surface-treated wafers.
- ◎ Various measurement and analysis on wafers
- ◎ Sales of silicon wafers

Shinryo's proprietary technology to minimize and optimize stock removal by polishing depending on condition of received wafers from you.



Manufacturing line



Single-wafer polishing



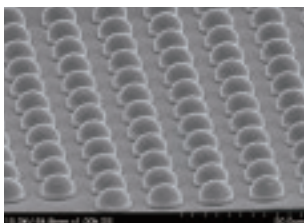
300mm wafers

Contract Plating (Electronic Component Processing) Business

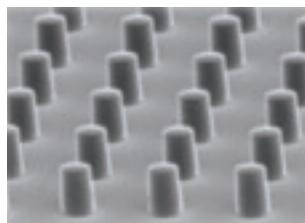
We develop and commercialize electroplating services in response to customer needs. Advanced technologies that we've accumulated over many years help deliver more advanced functionality, closer spacing, higher density, and finer patterns for semiconductors, sensors, and medical devices.

【 Businesses 】

- ◎ Leadframe exterior plating
- ◎ Bump plating
- ◎ Ball plating
- ◎ Wire plating



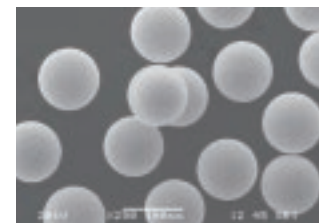
Bump plating



Bump plating (Cu pillars)



Wire plating



Ball plating

Characteristics of Shinryo's plating services

- ◎ Diverse line of plating types
 - We offer plating materials across the full range of melting points and have developed lead-free SnAgCu plating.
- ◎ Support for scales ranging from prototyping and development to volume production
 - We accept orders for quantities as low as one.
- ◎ Technologies for plating special boards and substrates
 - We can accommodate all materials, from GaAs and quartz.
- ◎ Technology for creating dense plating on electronic mate
 - We offer service for wafers (boards), wires, powders, and more.

New Patent Registrarion
Lead-free
Sn-Bi-In plating
(Melting point≤110°C)

Access this link for detailed product information. →



Analytical technology and quality assurance

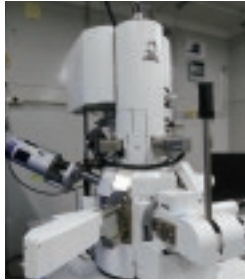
Having various analytical devices, we strive to maintain our reliable inspection system from the aspects of facilities, inspectors, and standards.

Main analytical devices

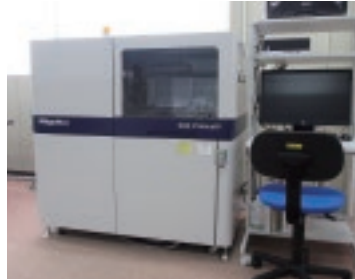
We own and operate various analytical devices, such as particle inspection machines.



ICP/AES



FE-SEM



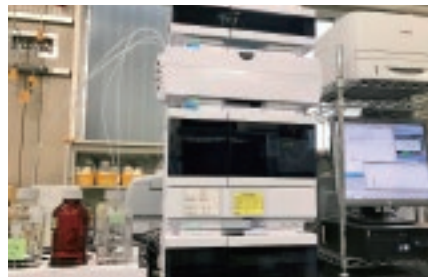
XRF



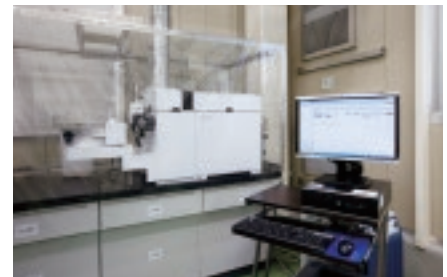
Particle Inspection Machine



GC/MS



HPLC



ICP/MS

Quality assurance system ISO9001 and ISO14001 accredited

We obtained ISO9001 certification in 1998 and ISO14001 certification in 2002.

We are audited for upgrades every year for accreditation.

Also, with a QA group installed in each division, we have established a system to deliver reliable quality to customers.



Contribution to CO₂ reduction

We contribute to client and our CO₂ reduction efforts through our business activities.



To be a company in which employees shine

We were awarded the “Kitakyushu City Work-Life Balance Award, Mayor’s Prize” in 2009. In 2010, we acquired a Next-Generation Accreditation Mark (nickname: Kurumin) with the approval of the Labor Bureau. We have also been registered in the “Declaration of Support for Childrearing” sponsored by Fukuoka Prefecture.



Next-Generation Accreditation Mark "Kurumin"

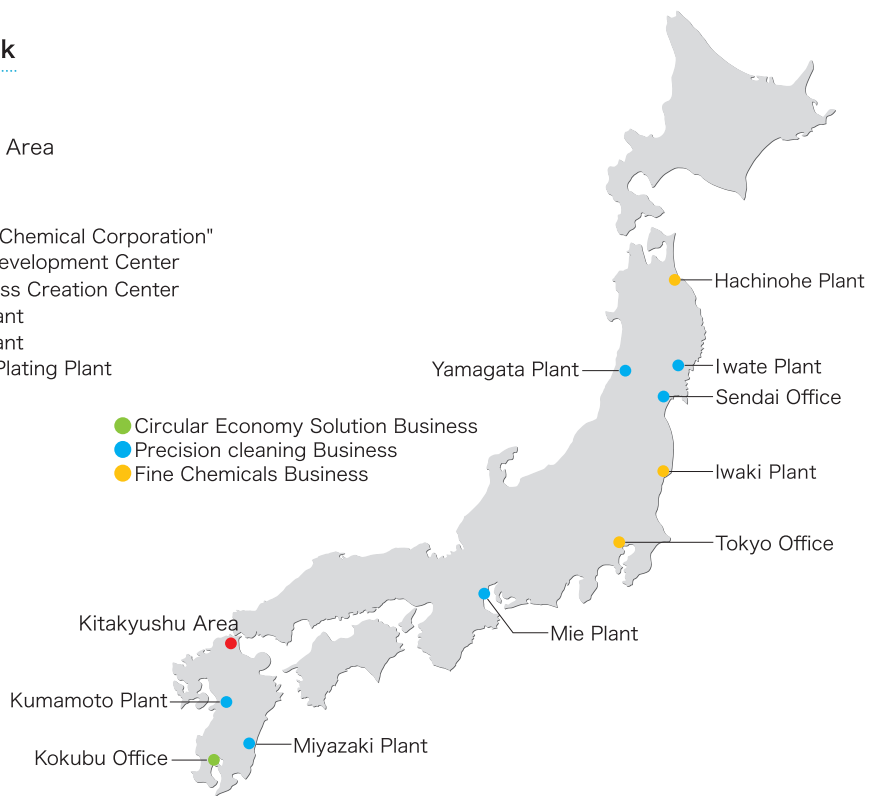


Fukuoka Prefecture's Declaration of Support for Childrearing Registration Mark

Network

● Kitakyushu Area

- Head Office
- Plant in "Mitsubishi Chemical Corporation"
- Technical Development Center
- New Business Creation Center
- Futajima Plant
- Fukuoka Plant
- Functional Plating Plant



- Circular Economy Solution Business
- Precision cleaning Business
- Fine Chemicals Business



Hachinohe Plant



Iwate Plant



Yamagata Plant



Iwaki Plant

Group Companies

- Corporation Recycle Tech
- GEM tek Corporation (China)



Fukuoka Plant



Kumamoto Plant



Miyazaki Plant

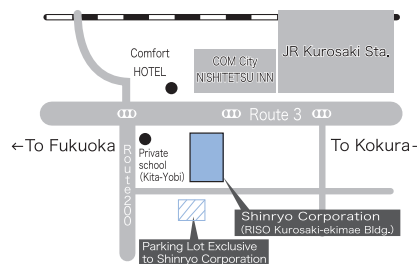


Mie Plant

Shinryo Corporation

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Access



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