Transforming Valuable Resources
Supporting industry through activities beyond the scope

**What Rasa Has**

**Expertise and Reliability Attested by Top Market Shares**

Since our foundation in 1939, Rasa has been supporting industry as a trading company specializing in resources, metallic materials, and industrial and construction equipment. A key characteristic of Rasa is that we have a top-market-share product in each of our main business fields: zircon sand in the mineral resources field, slurry pumps in the industrial machinery field, and proprietary slag granulation plants in the environmental engineering field.

Specialization in niche markets and long-standing customer relationships built on trust have enabled us to gain these leading shares in key businesses.

**Technological Capabilities for Proposals and Support**

Rasa’s strength lies in the technological capabilities that enable us to propose solutions and provide powerful support for our customers. By bringing these capabilities into full play, we offer services and know-how to our customers beyond the scope of a trading company.

As a specialized trading company, we propose innovative applications of new materials and help customers respond to the need for varied-output, small-lot production. We deploy our in-house technological capabilities to realize sophisticated solutions and support environmental engineering for industrial plant projects. Rasa cultivates durable multifaceted partnerships with its customers.

**Materials and Environmental Engineering for Prosperity**

To realize the sustainability of the global environment and society, industry must focus on efficient utilization of resources, including reuse and recycling, as well as energy saving and power generation. Since we developed the world's first closed-system slag granulation plant in 1967, Rasa has been a trailblazer in environmental engineering.

In 2012, having acquired the chemicals business, Rasa Group launched a new initiative to bring greater value to the market, with “materials” as a key word.
sources into Affluence of a trading company

What Rasa Offers

Industrial Machinery and Construction Equipment
Market leader for slurry pumps in Japan
We lead the slurry pump market in Japan with Warman pump for which we have the top market share, as well as with Hidrostal pumps for public works. We provide a great number of essential machinery and equipments for important infrastructure including water purification and sewage treatment facilities. We also handle construction equipments, such as portable rock drills, and semi-shield tunneling machines. With our technical capabilities, we are contributing to the improvement of infrastructure.

Resources and Metallic Materials
Largest market share in Japanese zircon sand market
Zircon sand, our mainstream product, is a mineral resource which has wide-range applications including ceramic opacifiers, refractory bricks for blast furnaces, abrasives for polishing silicon wafers for semiconductor chips and used in LCD and plasma panel manufacturing processes. Rasa is the exclusive sole agent of the Australian mineral sand manufacturer whose output is the largest in the world and our zircon sand market share is over 60% in Japan.

Chemicals
In-house resin processing capabilities
We supply a wide range of synthetic resin and chemical products to the automotive, building materials, electrical, electronics, and other industries. Deploying our in-house resin processing capabilities, we mix and process resin compounds, such as vinyl chloride, to meet customer demands.

Environmental Engineering and Equipment
Proprietary slag granulation plant
A slag granulation plant employing Rasa’s original technology allows recycling of molten slag, a by-product of steel manufacturing in a blast furnace, as raw materials for cement and concrete. In response to growing demand for construction and refurbishment of steelworks around the world in recent years, we also export this technology and plant. In addition, we are developing a system capable of treating slag produced at power generation facilities.

Real Estate Leasing
Focus on high-value-added property
Rental revenues are earned through effective utilization of properties owned by the Rasa Group, which are primarily premium, high-value-added properties in desirable locations in Tokyo. Through leasing to sound tenants, our property portfolio is contributing to the vitality of the urban scene.
Supply Materials to support Industrial
To be Number One supplier in niche fields and create new value

Contributing to society through imports of useful resources is Rasa’s important mission. We are establishing supply structure which enables wide variety of products and small-lot availability sales and developing products that offer new value and promoting new business development utilizing our unique network.

Our Materials and Products Covering Diverse Fields

Mineral Sand
Zircon sand, zircon flour, rutile sand, rutile flour, ilmenite, leucoxene

Refractory Raw Materials
Zirconia, stabilized zirconia, zirconium oxychloride, silica sand (Japan/overseas), natural flake graphite, spherical graphite, silicon carbide, brown alumina, white alumina, fused magnesia, fused spinel, fused silica, silica flour, calcined alumina, sillimanite

Industrial Raw Materials
Ferronickel, phosphoric acid, anhydrous phosphoric acid, phosphorous acid, the second phosphorous finished goods, malp, aluminum hydroxide, polychlorinated aluminum (PAC), aluminum sulfate, metallic manganese, metallic silicon, talc, kaolin, bentonite, silica stone, boron carbide

Industrial Materials
Diatomaceous earth (Dicalite), filter bags (dust filters), Thermotex (heat-resistant felt for industrial use), ceramic fiber products (insulators), refractory bricks, carbon block, activated carbon, coconut husk products (made in Sri Lanka)

Machinery
Mini-crawler crane (Spider crane), Metal touch ball valves
The import of mineral resources is one of Rasa’s mainstream businesses. Especially with zircon sand, we have expanded our customer base by developing various applications over the years and have gained the top market share.

There is great demand for zircon sand that offers distinctive characteristics, such as high melting point, heavy weight and hardness, because there are few alternative materials. Rasa is meeting the needs of industry by maintaining stable supply of zircon sand.

Developing emerging markets in Asia following globalization of Japanese manufacturers

Recently China and other emerging countries have been achieved remarkable economic growth and getting more influence to the markets. On the other hand, the movements that Japanese manufacturers shift their production to Asian emerging countries are accelerated.

Catching the Japanese manufacturers’ such movements, Rasa develop emerging countries markets in Asia by utilizing global network established by dealing raw materials and enhanced collaboration with other business divisions.

Gained top market share in Japan by developing various applications for zircon sand

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Develop new products including metallic silicon utilizing wide variety of products and small-lot availability sales

Wide variety of products and small-lot availability sales are Rasa’s strength. In particular, for metallic silicon, we apply the wide variety of products and small-lot availability sales approach form the procurement phase and we are meeting demand of metallic silicon for secondary aluminum alloy for automotive applications and for solar panels applications.

Following metallic silicon, we have commenced development of other new materials, such as flake graphite and zirconia. We are bringing our capabilities into fields where development of original applications and provision of solutions are desired, such as for electric vehicles.
Offer Comprehensive Technical Solutions

Established the close and trustworthy relationship with the customers

Proactive development of wide range applications, customer-oriented marketing policy, and full support through immediate and meticulous maintenance service systems.

The close and trustworthy relationship with the customer by offering comprehensive technical solutions can contribute to the continued business expansion at customers’ end. That is our service philosophy to the customers.

Long-term business relationships through Proposal-based marketing approach
Pumps
We handle wide range of high-quality pumps from domestic and abroad. With the extensive line-up of products, we can meet the various needs from the customers.

Industrial machinery
We handle various industrial machines and equipments such as valves and joints, mixers, crushers, strainers, and separation and dispersion devices.

Construction and civil engineering equipment
Our shield tunneling machines business is for both machinery sales and lease. We also handle unique products such as automatic pipe cutting tools, portable rock drills, and sewage pipe rehabilitation robots.

Immediate and meticulous maintenance service systems to ensure trouble-free machine operation
Our immediate and meticulous maintenance services are provided through Machinery Centers which are our strategic bases for maintenance work and spare parts distribution, in addition to our regular customer support through our nationwide network of branches and sales offices all over Japan.

Our basic stance is to sell directly to the end users and to provide the optimum proposals to the customers based on an accurate understanding of the needs at each site. We are always striving to enhance the technical knowledge of our sales engineers.

URACA high-pressure plunger pump

Warman pump

Hidrostal pump

Schroedahl automatic recirculation valve

Automatic pipe cutting tool

Semi-shield tunneling machine

Offer Comprehensive Technical Solutions
Established the close and trustworthy relationship with the customers
Pioneer and Leader for slurry pumps with the proactive development of wide range applications in the Japanese market
In the industrial machinery and construction equipment business, we handle various pumps, portable rock drills, and semi-shield tunneling machines. Through the proactive development of applications, we have developed the slurry pump market and have been leading the market in Japan. One of our main products, Warman pumps are corrosion and erosion resistant pumps suitable for diverse applications in many fields. Our uniquely designed Hidrostal pumps, which are widely used at sewage treatment facilities and night soil treatment plants in Japan, are also used in food and chemical industries.

Customer-oriented marketing philosophy by taking advantage of our flexibility as an independent trading company
As an independent trading company without constraining ties to particular manufacturers, Rasa can handle products sourced from various manufacturers in Japan and overseas according to the customers’ needs. From the customers’ standpoint and real needs, we select our range of products. Consequently, all our products are easy to maintain and durable in product life. By providing the immediate and meticulous maintenance service, we can build stronger and closer relationships with our customers.
Environmental Engineering and Equipment

Engineering the Future
Deploying advanced technologies to protect the Earth

In a world aware of the urgent need to mitigate global warming and in response to rising energy costs, environmental protection and energy saving have risen to the top of the agenda across industry. Our advanced recycling technology addresses the requirements of industry while helping protect the Earth for future generations.

Rasa System for recycling slag

The Rasa System slag granulation plant, which debuted in 1967, employs Rasa’s original technology. Using jets of water, it rapidly cools molten slag, a by-product of steel manufacturing in a blast furnace, and produces granulated slag. Granulated slag is recycled, for example, as raw materials for cement and concrete, soil improvement additives, and paving material. In view of the increasing needs for recycling and resource saving, the Rasa System has gained attention as a technology that can contribute to industry’s efforts to protect the environment.
New challenges: Recycling slag from IGCC and increasing international sales of Rasa System

We are applying the Rasa System to slag produced at integrated coal gasification combined cycle (IGCC) plants. IGCC converts coal into gas, which is used to drive turbines to generate electricity. The Rasa System can be used to recycle slag produced during gasification of coal, similar to the application at a blast furnace.

There are plans to introduce IGCC systems overseas. We intend to seize the opportunities to expand international sales of the Rasa System.

Contributing to the environmental protection initiatives by the partnerships with high-pressure pump manufacturers in Europe

Through partnerships with high-pressure pump manufacturers in Europe, we offer two types of high-pressure pumps with excellent performance.

We have delivered many Putzmeister high-pressure piston pumps mainly to sewage treatment facilities and power stations. They are also used for biomass application to utilize the renewable energy as well as for the treatment of sewage sludge contaminated by radioactive substances. A compact low-flow piston pump is also available as a popular edition model.

The principal characteristic of Feluwa pump is their large flow capacity with high pressure. By utilizing this characteristic, it is widely used in the various applications including chemical industry. In particular, Feluwa pump is very highly evaluated by the customers for spray drier application because of its suitability for stable high pressure feeding without pulsation, which is very important to manufacture uniform fine powder.

One-stop provider of slag granulation plant

We have delivered the Rasa System not only in Japan but also overseas. In line with the growing demand for construction and refurbishment of steelworks worldwide in recent years, the international market for recycling systems is expanding.

For the Rasa System, we provide an integrated service covering all phases from formulation of the basic plan, plant design to support for construction work and plant operating technologies. Rasa’s comprehensive environmental engineering technologies are highly evaluated.
Plastic Resins and Chemical Products to the wide area of application

Rasa Corporation acquired Izumi Co., Ltd. in 2012 who has been specialized in the business for plastic resins and chemical products for many years and entered into the chemical business.

Rasa Corporation will strive to enhance its features and positions as specialized trading company by supplying the various kinds of plastic resins and chemical products to the wide area of applications such as Automobile, Construction materials, Electric and Electronic Equipment Industries.

Explore Diverse Possibilities as a Specialized Trading Company

Expanding our services by utilizing our own processing facilities and foothold in Southeast Asia.

One of the advantages of Chemical business at Izumi is its experienced technology for mixing and compounding of various plastic resins including PVC compounds. Izumi can supply tailor-made compounding that match to the exact needs of the customers by utilizing its own compounding facilities.

Another strong point of Izumi is its own sales base in Thailand. We will expand our services to the surrounding countries by utilizing it as strategy foothold of our group companies.

Effective Utilization of Properties

Leasing of premium properties in central Tokyo to sound tenants

By utilizing the real estate properties within the group, Rasa Corporation secures the earning from the rent of corporate real estate.

Most of the properties are located in Tokyo metropolitan area with good leasing condition and we contribute to the revitalization of area through this leasing business to tenants.
Corporate Philosophy

We contribute to the prosperity of society by offering world-class products and technologies and useful resources worldwide.

Origin of the Company Name

The name of our company, Rasa, comes from an island in the Okinawa Prefecture, which is commonly called Rasa Island even though the official name is Okidaito-jima. The first company to mine phosphate ore on this island was Rasa Island Phosphate Ore Company, the former company name of Rasa Industries, Co., Ltd. Rasa Corporation was founded in 1939 as a sales unit of Rasa Industries. Although Rasa Corporation started its operations as a subsidiary of Rasa Industries, it has long been an independent trading company handling a wide range of products and continuing to grow.

Where is Rasa Island?

Location: Aza Rasa, Kitadaito-mura, Shimajiri-gun, Okinawa Prefecture

Located at 24° north and 131° east, Rasa Island, a tiny island with a 5 km coastline, is surrounded by coral reefs. The entire island is owned by Rasa Industries. The island had a population of about 2,000 at the peak of phosphate ore mining but is now uninhabited.