



ASUZAC GROUP

COMPANY PROFILE

Ever-diversifying into new fields,
making the most of our advanced R&D...

ASUZAC is an “All-round Life Infrastructure Enterprise” contributing to society in a diversity of fields.



代表取締役社長
久保正直
Masanao Kubo
Representative Director and President

Since its inauguration in 1949, ASUZAC has developed business by diversifying into an extensive range of fields. Our pillars of business include a Fine Ceramics Division catering to semiconductor and other leading-edge industries with highly functional parts and components; a Space Engineering Division armed with proprietary casting technology to deliver aluminum construction materials and exterior products; an Infrastructure Engineering Division providing pre-cast concrete products; a P&D Division responsible for the supply of devices and equipment to meet the diverse yet specific needs of industry; and the ASUZAC Foods Division, which began with dried vegetables but is now delivering good taste, convenience, good health and safety.

Underlying ASUZAC’s unique diversity is our determination to relentlessly pursue research and development. In 1972 the company developed what we call the “V-Process” (Vacuum Molding Process; Casting method by mold sealed in greatly reduced pressure). The V-Process resolved a number of problems inherent in the conventional casting process. Based on vacuum technology, the V-Process was revolutionary in that it enabled highly transcriptable castings to be made easily and at low cost. It is now in use in a wide range of product categories — from aluminum to fine ceramics — and has been licensed to over 150 Enterprises worldwide.

In respect to the Fine Ceramics Division, fine ceramics parts and components developed by ASUZAC are being used in a variety of semiconductor equipment, thus supporting the ever-evolving semiconductor manufacturing industry.

As for the ASUZAC Foods Division, our proprietary vacuum drying technology has been well received by food processing industries, where it is actively in use. We have advanced a number of proposals for application of dried vegetable technology that have given rise to significant advances within food processing industries.

Contributing to the betterment of our communities, the Infrastructure Engineering Division has long played a leading role in Nagano Prefecture through the development and supply of pre-cast concrete products.

As outlined above, we have been playing pioneering roles in all of these fields of business. This has only been made possible because ASUZAC’s research and development prowess is backed by our single-minded commitment to society.

First and foremost, what is expected of us by the industrial world and society at large? In our view, it is nothing less than a strong sense of mission and devotion to research and development that aims to produce solutions to issues posed by such a mission. Pursuit of manufacturing activity with a global perspective... This is our approach to developing business hand-in-hand with our customers.

We can proudly say that ASUZAC has emerged in markets where customer needs are the most demanding.

ASUZAC is determined to advance into ever more diverse markets, making the most of its R&D excellence. ASUZAC continues to pursue mutually beneficial activities as an “All-round Life Infrastructure Enterprise” contributing to society.



The ASUZAC Way

Motto
We like humans. We like nature.
The ASUZAC Group — An ever-advancing “All-round Life Infrastructure Enterprise”

Mission
To contribute to society by improving the infrastructure that supports our lives and the natural environment.

Attitude
We at ASUZAC will devote ourselves to customers, regional communities, society at large and ourselves by promoting teamwork, efficiency and ingenuity.

- Management Principles**
- We will provide customers with the highest possible product quality, performance and services.
 - While flexibly responding to changes in management environment, we will aim to foster a distinctive “multiple management” that allows us to achieve harmony between hardware and software.
 - As a corporate citizen, we will mobilize our group’s management resources to address issues of our times.
 - We will strive to improve our workplace environment so that all employees consider it a place worth working in.

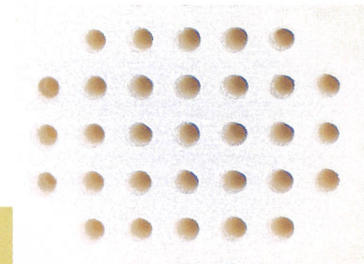


Main Products

- Fine ceramic products for industrial machinery (semiconductor manufacturing equipment, liquid crystal manufacturing equipment, etc.)
- Large- and long-size products

Overseas Plant

ASUZAC CO., LTD. (Vietnam)



Micropore processing
Ø0.2, pitch 0.5, 4.0mm thick (penetrated)
Post-baking processing is achieved easily
by extending conventional technology.



Fine Ceramics Division

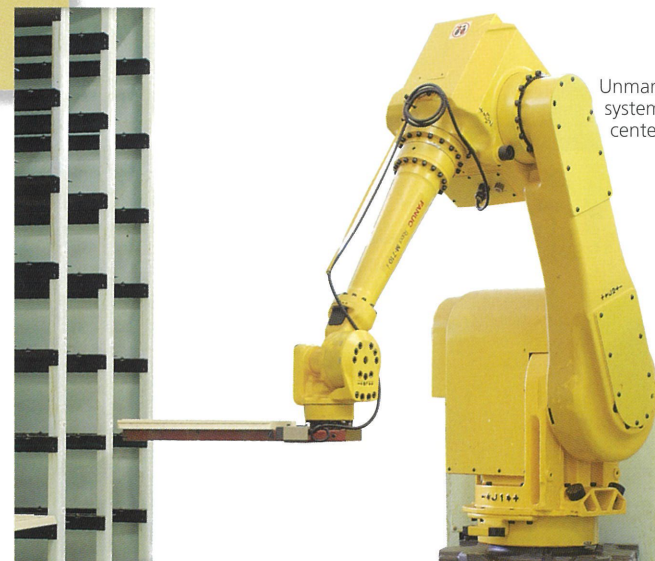


Product that is more than 2 meters long

ASUZAC's fine ceramic products are used in various industrial fields, including those for semiconductor manufacturing equipment and liquid crystal manufacturing equipment.

Our mission in this respect is to cater to sophisticated industrial needs with products that offer electrical insulation, heat resistance, corrosion resistance and abrasion resistance — the functional characteristics peculiar to ceramics. This, in turn, calls for us to maintain a comprehensive manufacturing organization that involves studies of use-specific raw materials, preparation of raw materials, molding, baking and machining, as well as developing the technologies for each of these processes.

ASUZAC is fully prepared to meet any newly arising industrial need, having actively invested in our plant in Vietnam as well as in the main plant in Nagano, Japan.



Unmanned pallet carrier
system for machining
center (MC)

ASUZAC offers an extensive product line-up including alumina of standard 99.6% purity, 99% high-purity alumina, and black alumina featuring a reflection-controlled surface. Also available are zirconia, silicon carbide, conductive ceramics, low heat-conductive ceramics, and even void-free ceramics.



G8-compatible large shuttle



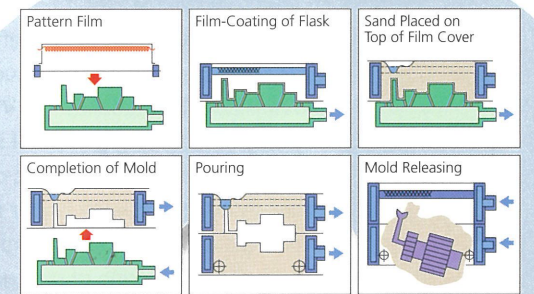
Purity analysis

Through research & development program undertaken jointly with the Industrial Research Institute of Nagano Prefecture, ASUZAC successfully developed what we call the "V-Process" (Vacuum Molding Process : Casting method by mold sealed in greatly reduced pressure) in 1972. The process of technique is designed to produce a casting mold by means of vacuum, using a plastic film as sealant. A revolutionary casting process, its patent has been licensed to over 150 enterprises in Japan and abroad.

The Space Engineering Division makes the most of the V-Process to develop and produce high-quality aluminum construction materials and interior/exterior materials. Our integrated in-house organization, from design through manufacture, allows us to realize textures and repeatability formerly unavailable from conventional construction materials. As such, our products are being used extensively in a variety of buildings and structures.



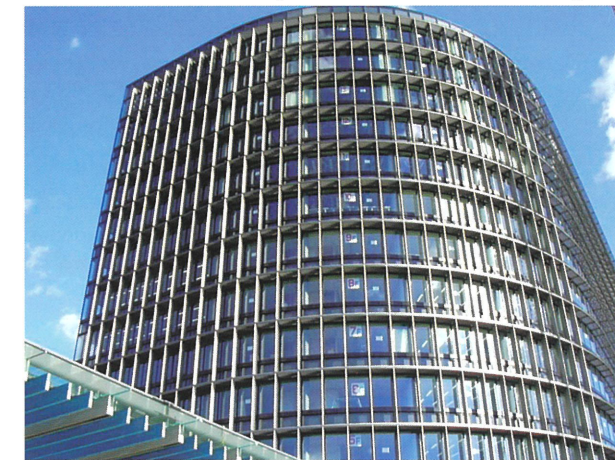
V-Process production line



V-Process flow chart

Space Engineering Division (Cast Aluminum Products)

TOYOTA Motor Corp. Head Office Building



Louver



Gate • Fence



Curtain wall

Main Products

- Gates and fences
- Bay windows and balconies
- Curtain walls
- Building exterior wall materials
- Architectural ornamental panels
- Signage and road lamps
- Pergolas and monuments
- Benches and bollards
- Environmental conservation goods

Overseas Plant

ASUZAC CO., LTD. (Vietnam)
ASUZAC ACM CO., LTD. (Vietnam)
ASUZAC SHAOXING CO., LTD. (China)
亞旭昌(紹興)金屬有限公司



Ornamental Ceiling



Ornamental Ceiling



Designing with a 3D-CAD

Gr.L-type retaining wall



The Infrastructure Engineering Division contributes to society through the development and production of pre-cast concrete products for civil engineering and construction uses.

In particular, the division has focused its efforts on the spread of VICON concrete products that feature excellent properties such as mechanical strength, corrosion resistance and resistance to neutralization. VICON concrete is 2.5 times as strong as common concrete because the grain size of its aggregate is designed to maximize the volume of aggregate before the concrete is compression-molded by means of vibration.

Customers are giving progressively higher ratings to our products as disaster prevention and urban beautification become increasingly more important. This encourages us to advance proposals for the creation of stronger, safety-assured social infrastructure.



VICON clean gutter (with slit)

Infrastructure Engineering Division



Plant dedicated to large-size products



VICON concrete plant

■ Main Products

- Pre-cast concrete products for civil engineering use
- Gutter-related products
- Retaining walls
- Underground installations
- Sewage-related products
- Earthquake-resistant water storage tanks
- River-related products

■ Specialty Products

- VICON concrete products
 - Pipes with pedestals
 - Clean gutters
 - Manholes
- Gr.L-type retaining walls (Retaining wall integrated with guardrail base)



Plant operation room

■ Lines of Business

- Vacuum-freeze-dried foods; hot-air-dried foods; granulated products
- Frozen foods; retort foods
- Small bag packaging; finished product setting-up
- Processing of dried vegetables and fruits
- Development, manufacture and sale of health foods

■ Overseas Plant

ASUZAC FOODS HEZE CO., LTD. (China)
 菏泽旭昌食品有限公司

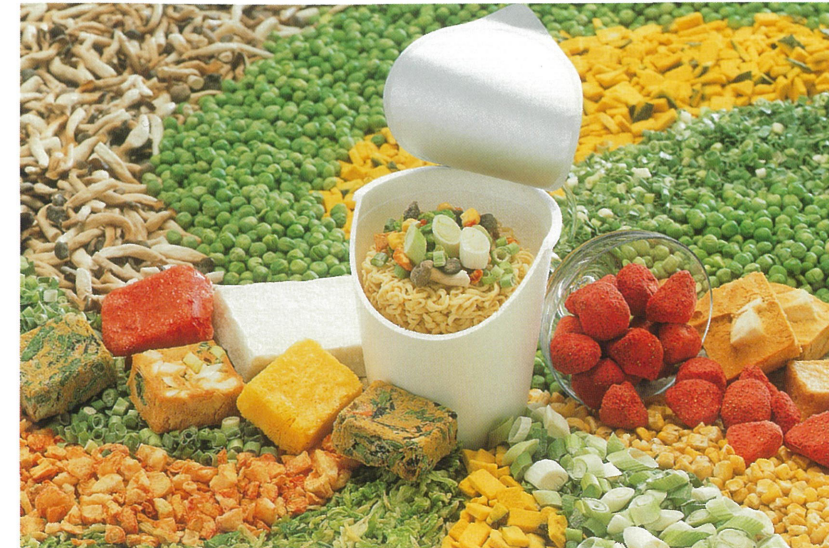
ASUZAC FOODS HEZE CO., LTD. SHANGHAI BRANCH (China)
 菏泽旭昌食品有限公司上海分公司

ASUZAC FOODS SHAOXING CO., LTD. (China)
 绍兴旭昌食品有限公司

HEZE XURI FOOD CO., LTD. (China)
 菏泽旭日食品有限公司

ASUZAC FOODS CO., LTD. (Vietnam)

DALAT ASUZAC FOODS CO., LTD. (Vietnam)



Dried Foods Division

Our excellent vegetables-drying and applied technologies have created a new mainstream in the food processing industry. While developing our dried food business - the leader in its field - we are also actively pursuing the progress of food-drying technology into new fields such as soup (including miso soup), and desserts.

ASUZAC Foods Inc. has its own integrated freeze- and air-drying lines, and has same systems in China and Vietnam. All processes - even those overseas - are operated in accordance with our policy: "Using the freshest possible raw materials, processing to keep their original flavor and texture, and good delivery." Our operation features a comprehensive tracing system covering everything from farm to table.



GC/MS analysis of residual agricultural chemicals



Treatment of residual agricultural chemicals



FD machine





ASUZAC INC.

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Fine Ceramics Division

Tel. +81-26-248-1626 Fax. +81-26-251-2160

Space Engineering Division (Molding aluminum)

Tel. +81-26-245-1001 Fax. +81-26-245-9374

Infrastructure Engineering Division (Precast-concrete)

Tel. +81-26-245-6567 Fax. +81-26-248-3710

P&D Division (Rain sensor, Labor saving equipments)

Tel. +81-26-246-2711 Fax. +81-26-248-3816

ASUZAC FOODS INC.

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293-45, Yonamochimachi, Suzakashi,
Nagano 382-0041 JAPAN
Tel. +81-26-245-2531 Fax. +81-26-246-1057

Corporate Profile

ASUZAC INC.

Established 1946
Capital ¥63million
Annual sales ¥6,490million
Employees 360
President Mr. Masanao Kubo

ASUZAC FOODS INC.

Established 1963
Capital ¥40million
Annual sales ¥6,750million
Employees 265
President Mr. Masanao Kubo

Corporate History

- 1949 ASUZAC INC. inaugurated and slate business started.
- 1966 Pre-cast concrete business started.
- 1967 VICON concrete business started.
- 1970 Iron casting business started after merging with Akita Kojo CO., LTD.
Dried food business started after merging with Shinshu Sogo Shokuhin CO., LTD.
- 1971 V-Process (Vacuum Molding Process) invented in joint R&D undertaking with the Industrial Research Institute of Nagano Prefecture.
- 1972 Aluminum alloy casting business started.
- 1974 Freeze-dried food business started.
- 1985 Fine ceramics (for semiconductor equipment use) business started.
- 1995 ASUZAC FOODS CO., LTD. established in Vietnam.
- 1998 Space Engineering Division accredited to ISO 9002.
- 1999 ASUZAC INC. head office accredited to ISO 14001.
- 2001 ASUZAC CO., LTD. established in Vietnam.
- 2002 Fine Ceramics Division accredited to ISO 9002.
- 2003 Fine Ceramics Division accredited to ISO 9001:2000.
Space Engineering Division accredited to ISO 9001:2000.
ASUZAC CO., LTD. (fine ceramics plant) accredited to ISO 14001.
ASUZAC FOODS CO., LTD. accredited to ISO 14001.
- 2005 Fine Ceramics Division and Space Engineering Division jointly accredited to ISO 14001.

Overseas Plant



ASUZAC CO., LTD. (VSIP)
(Fine Ceramics Plant)



ASUZAC CO., LTD. (VSIP)
(aluminum casting Plant)

ASUZAC ACM CO., LTD. (VSIP)
No. 1, Road 8, Vietnam Singapore.
Industrial Park, Binh Duong
Province, VIETNAM

ASUZAC SHAOXING CO., LTD.
垂旭昌(紹興)金屬有限公司



ASUZAC FOODS CO., LTD. (TTZ)
Road8, Tan Thuan EPZ, District7,
HCMC, VIETNAM



DALAT ASUZAC FOODS CO., LTD.
KADO VILLAGE, DON DUONG DIST.
LAM DONG PROVINCE VIETNAM



ASUZAC FOODS HEZE CO., LTD.
菏泽垂旭昌食品有限公司
中国山东省菏泽市沙土镇食品開發区



HEZE XURI FOOD CO., LTD.
菏泽旭日食品有限公司
中国山东省菏泽市沙土镇食品開發区

ASUZAC FOODS SHAOXING CO., LTD.
垂旭昌(紹興)食品有限公司