COMPANY GUIDANCE

Sugino Machine Limited

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Website

SNS
X、Instagram、YouTube

Intellectual Property
Information

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SUGINO
SUPER! TECHNOLOGY

Contributing to Society through Technology

Our purpose is to support people's lives with proprietary technologies
that make people around the world say, “Amazing!”
and remain a company that is needed worldwide.

Guided by our founding spirit of “Think for ourselves, create for ourselves, and sell and service by ourselves,”
we have spent 90 years repeatedly building chains of technology
and fusing technologies to create SUPER TECHNOLOGY.

Now and in the future, we will continue to refine our technologies and products in our local Japanese city,
remaining a “Glocal Niche Leader”
that makes the greatest contribution to the global niche markets where we are needed most.



Our brand icon, “ ” (SUGINO i), is inspired by the exclamation mark “!”.
It embodies our commitment to delivering value beyond our customers' expectations,
creating surprise and inspiration.

Creating SUPER! TECHNOROGY Ever

TOP MESSAGE

We believe future corporate activities should be grounded in a clear identity,

not only providing products or services.

Guided by our founding spirit of “Think for ourselves, create for ourselves,

and sell and service by ourselves,”

we leverage the unique SUPER TECHNOLOGY built by our predecessors.

Contributing to society as a “Glocal Niche Leader”

is our purpose and identity.

We have passionately pursued the product development, manufacturing,

and businesses that Sugino Machine should undertake, guided by our SUPER TECHNOLOGY.

Going forward, we will steadily offer products and businesses that make customers think,

“Only Sugino Machine could do this.”

Company President

Gaku Sugino

Overview

For 90 years, Sugino Machine has built its business on technological expertise, quality, and responsiveness, earning the trust of more than 30,000 companies.
With a stable business foundation, our approximately 1,200 employees support manufacturing around the world through our domestic and overseas locations and a distributor network spanning 40 countries.



Founding

HISTORY

1936

Business Partners

30,000+ companies

Equity Ratio

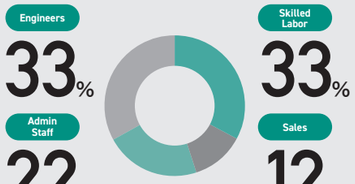
Our Company 81.9%

Industry Average 59.8%

Employees

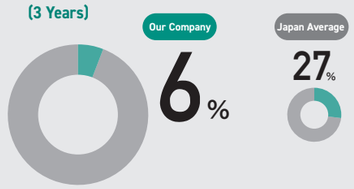
Approx. 1,200

Employee Ratio by Job



New Graduate Turnover Rate

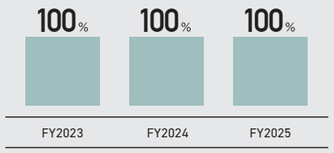
(3 Years)



Female Maternity and Childcare Leave Rate

Our Company 100%

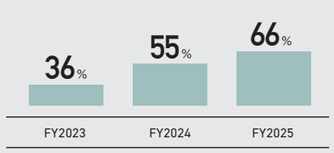
Japan Average 88.3%



Male Childcare Leave Rate

Our Company 66%

Japan Average 50.9%



*Unless otherwise noted, all figures are for FY2025.
*Employee data as of March 2026.
*Industry average equity ratio based on Ministry of Finance's survey, FY2025.
*National average based on Ministry of Health, Labour and Welfare data for companies with 1,000+ employees, published in 2025.
*National average based on Ministry of Health, Labour and Welfare data published in 2026.

Countries with Overseas Locations

9 countries

Distributor Countries

40 countries

- **Head Quarters** ····· Toyama
- **Manufacturing Sites in Japan** ····· Toyama,Shizuoka
- **Sales Locations in Japan** ····· Tokyo,Ibaraki,Toyama,Shizuoka,Aichi, Osaka,Hiroshima,Fukuoka
- **Japan Group Companies** ····· Sugino Direct Service Co., Ltd. Kyoritsu Seiki Co., Ltd.
- **Overseas Locations** ····· U.S.A.,Mexico,China,India,Singapore, Thailand,Indonesia,France,Germany



Sugino Machine Group Locations
Please check here for updates.

Guided by our founding spirit, the chain of technology began with the “TUBE CLEANER,” our point of origin.

1936

The Origin of Sugino Machine



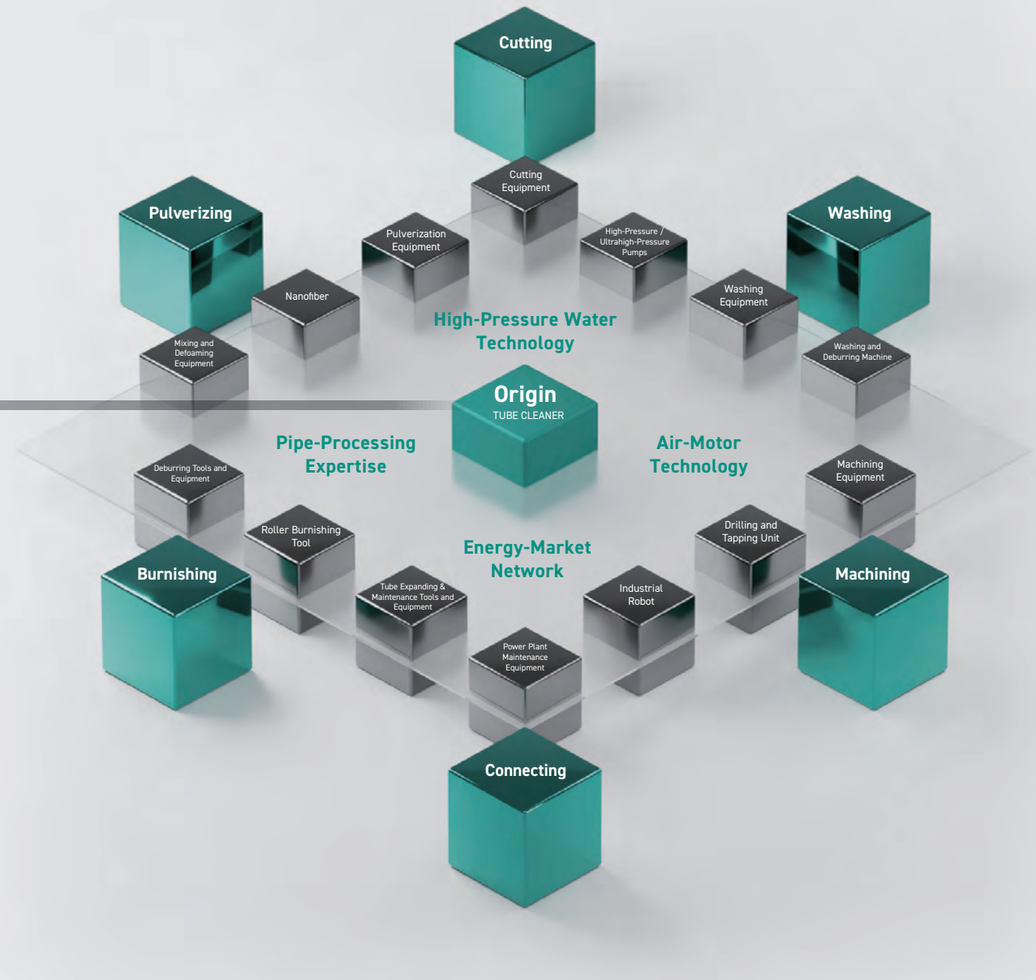
TUBE CLEANER

Pipe Cleaning Tool (Hydraulic/Pneumatic Driven)

When we were founded in 1936, steam engines were a major source of power.
As boilers operate, scale builds up inside their piping.
A tube cleaner is a tool for removing this scale.

At the time, we had no choice but to rely on expensive imported products.
Founder Rimpei Sugino believed that Japan needed a domestically produced tube cleaner for the country's development,
and devoted himself to tireless research and development, working day and night.
He eventually completed Japan's first domestically produced tube cleaner,
featuring a cutter head driven by hydraulic and pneumatic pressure.

He designed and built products himself, sold them directly to customers, and expanded sales nationwide.
Our founding spirit of “Think for ourselves, create for ourselves,
and sell and service by ourselves” has been passed down for 90 years and continues to guide us today.



Our founding product, the Tube Cleaner, gave rise to four core technologies:
high-pressure water technology, an energy-market network, pipe-processing expertise, and air-motor technology.
By listening to our customers and developing, manufacturing, selling, and servicing products that meet society's needs,
our technologies have continued to evolve, deepen, and merge,
growing into today's six areas of “SUPER TECHNOLOGY”:
Cutting, Machining, Washing, Burnishing, Pulverizing, and Connecting.

A Chain of Technology

As our technologies have repeatedly fused, evolved, and deepened,
they have taken shape as SUPER TECHNOLOGY that only Sugino Machine can provide.

1930s 1960s 1990s 2000s 2010s 2020s

Pipe-Processing Expertise

Tube Expanding & Maintenance Tools and Equipment

Tube expansion tool
TUBE EXPANDER



Tube Cleaning Tool
BLOW GUN CLEANER



Tube Pulling Device
TUBE PULLER



Tube Expanding Equipment
ELEDRIVE



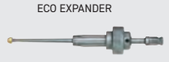
Tube pulling equipment
QUICK PULLER



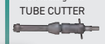
Tube Pulling Device
SMART PULLER



Tube expansion tool
ECO EXPANDER



Tube Cutting Tool
TUBE CUTTER



Hydraulic tube expansion equipment
HYDRIVE



Ultrahigh-pressure hydraulic expansion equipment
AQUASETTER



Tube Expanding Equipment
MECHADRIVE



Roller Burnishing Tool

Mirror surface finishing tool
SUPEROLL



Multi-surface mirror surface finishing equipment
SUPEROLL MUGEN



Cutting and surface finishing compound tool
SKIVE ROLLER



Special mirror-like finishing tool
SINGLE ROLLER SUPEROLL



Roller Burnishing Tool
SUPEROLL MAC



Pulverization Equipment

Servo motor driven type ultrahigh-pressure pump
SERVO JET PUMP



Mixing and Defoaming Equipment

Pressurization Equipment
SERVO PRESSURE



Wet-type atomization equipment
STAR BURST

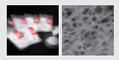


Nanofiber

Dry-Type Milling Equipment
DRY BURST



Biomass nanofiber
BiNFi-s



Dimple forming tool
DIMPLE FORMING TOOL



Diamond burnishing tool
CAT'S EYE



Mixing and Defoaming Equipment
HI-MERGER



Steam sterilization wet-type atomization equipment for medical products
STAR BURST SIP



High-Pressure Water Technology

High-Pressure / Ultrahigh-Pressure Pumps

High-pressure pump



Ultrahigh-pressure pump



Impulse Test Equipment



Hydraulic booster type ultrahigh-pressure pump
WATER JET PUMP



Pressure Test Equipment



Large-flow ultrahigh-pressure pump
HI-JET 3000GT



Ultrahigh-pressure pump
AQUA SERVO PUMP



Medium-flow ultrahigh-pressure pump
HI-JET 3000ST



Engine-Driven Ultrahigh-Pressure Pump
HI-JET 3000GT-R



Washing Equipment

Cleaning Nozzle
3D NOZZLE



Portable washing machine
HI-JET GUN



Large Ultrahigh-Pressure Water Peeling and Chipping Unit
CYBER JET



Ultrahigh-Pressure Water Cleaning and Peeling Unit for Walls
AQUA SELROTOR



Cutting Equipment

Ultrahigh-pressure water jet cutting equipment
WATER JET CUTTER



Ultrahigh-pressure water jet cutting equipment
ABRASIVE JET CUTTER



Ultrahigh-Pressure Water Cutting Equipment
WATER JET CUTTER Rb

Simultaneous 5-axis control ultrahigh-pressure water jet cutting equipment
ABRASIVE JET CUTTER NC-5AX

Laser Equipment

Water Jet and laser machine
WATERBEAM MACHINE

Washing and Deburring Machine

High-pressure water cleaning equipment
JET MACHINE

Piston diameter automatic measurement equipment

High-pressure washing and deburring machine
JET CLEAN CENTER

Submerged washing machine
U-JET Ⅲ

Cleanliness assessment equipment
CLEANRISER

High-Pressure Washing and Deburring Machine
JCC Series

Aeration Jet Type Washing Machine
JET STORM WASHER-P

Machining Equipment

Compact machining center
SELF-CENTER

Compact Machining Unit
SELF-UNIT

Gun drilling machine
GUN FEEDER

Compact precision die fabrication machine
XION Ⅱ

Drilling and Tapping Machining Center
CNC PRO

Deburring Tools and Equipment

Tool holder for deburring
BARRIQUAN

Hydraulic Driven Tube Expansion Equipment
AQUOZU

Automatic Tube Expanding Equipment

Deburring spindle motor
BRQ-PZ01

Deburring Tool Holder
BRQ-TX01

Spindle Motor for Robot Deburring
BRQ-EL02

Robot Deburring Cell
RDM-S

Roller Burnishing Tool for Hard Materials
SUPEROLL

Biomass nanofiber
BiNFi-s DRY POWDER

Silk nanofiber
BiNFi-s SILK

Biomass nanofiber
BiNFi-s Natural Rubber Masterbatch

Desktop Type wet-type atomization equipment
STAR BURST MINIMO

Small-scale wet-type atomization equipment
STAR BURST 10

Wet Jet Milling Equipment for Plasma Treatment
STAR BURST

Pipe Cleaning Tool
TUBE CLEANER

Air-Motor Technology

Drilling and Tapping Unit

Pneumatic motor driven type drilling unit
SELFEEDER PNEUMATIC

Electric motor driven type drilling unit
SELFEEDER ELECTRIC

Tapping unit
SYNCHROTAPPER

Electric motor driven, mechanical feed type drilling unit
SELFEEDER MECHATRIC

Servo motor driven type drilling unit
SELFEEDER VARIMEC

High-speed Spindle Motor
VARIMOTOR

Drilling unit for aircraft industry
PNEUCON FEEDER

Industrial Robot / Software

Air driven type multi-joint robot
SUBMAN

6-axis simultaneous control submerged multi-joint robot

Connected Robot
CRb

Air-Blow Type Connected Robot
CRb

Factory productivity visualization system
ViiNUS

Robot simulation software
CROROROS

Ultrasonic Automated Flaw Detection System

Robot Deburring System

Robotic Machining Unit
SELFEEDER ROBOT MACHINING

Welding Robot System

Autonomous Mobile Robot (AMR)

Energy-Market Network

Power Plant Maintenance Equipment

Automatic Tube Welding Equipment
AUTOWELMA

Nuclear power plant maintenance and inspection equipment

Cavitation Water Jet Peening Technology(CWJP)

Crawler type remote control robot for decontamination

Wiring work robot
SKY ARM

Crawler type multi-joint robot

Decommissioning Laser Technology

Cavitation Water Jet Peening
CWJP

Cavitation Abrasive Surface Finishing
CASF

Fusion Energy-Related Equipment

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Vacuum Dryer
EVADRY

CNC robotic hand type deburring and washing machine
JCC 503 ROBO

CNC robotic hand type ultrahigh-pressure deburring and washing machine
JCC 603 ROBO

Energy-saving highly efficient flexible dryer
JCC 812 BLOW

In-line washer/dryer with Automated Robotic Transport
JCC 701 ROBO

Coolant Purification Unit
JCC-HM

Modular parts washer
JCC-Module

Water Jet and laser machine
WATERBEAM MACHINE

Washing and Deburring Machine
JCC-104 HYBRID

Parts Washing Machine Equipped with Centrifugal Drying Function
JCC-MULTI

Laser Burn-Removal Robot System

High-Pressure Deburring System
JDM

Simultaneous 5-axis control machining center
SELF-CENTER H15B-5AX

#40 Compact horizontal machining center
SELF-CENTER SC-H40

#30 Compact vertical machining center
SELF-CENTER SC-V30a

#30 Compact horizontal machining center
SELF-CENTER SC-H30a

Large parts processing machine
GIGAFEEDER

Grinding Center
SELF-CENTER SC-V30aG

Smart Machining System
SMART M/C X10

Compact, general-purpose drilling and tapping unit
SELFEEDER DUO SD3

Compact, general-purpose drilling and tapping unit
SELFEEDER DUO SD4, SD5

End Effector for Robot Machining
SELFEEDER DUO Robot Edition

Paint Removal Robot
SURF JET

All-in-one Abrasive Type Ultrahigh-Pressure Water Cutting Equipment
VARUNA

Ultrahigh-pressure water jet cutting equipment for microfabrication
KATANA2

Simultaneous 5-axis control ultrahigh-pressure water jet cutting equipment
ABRASIVE JET CUTTER NC-5AX

All-in-one Abrasive Type Ultrahigh-Pressure Water Cutting Equipment
VARUNA

Cantilever Type Ultrahigh-Pressure Water Cutting System
ABRASIVE JET CUTTER CL-5AX

Food Cutting Machine
AQUA KNIFE



SUPER
TECHNOLOGY

The world of “SUPER” is reached

through relentless pursuit of technology.

We will continue providing customers with surprises and stimulation

that exceed their expectations.

We are always adapting to changes, to continually push the “SUPER” boundary.

Sugino Machine has maintained this stance since the beginning.

We know that whenever we reach one “SUPER” level,

there is always another “SUPER” ahead to pursue.

Sugino Machine’s SUPER TECHNOLOGY is born from endless challenges.



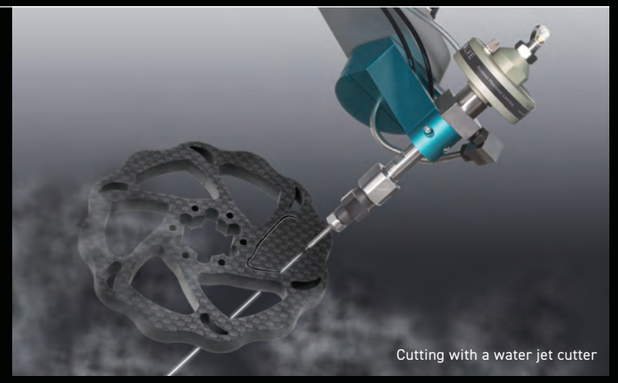




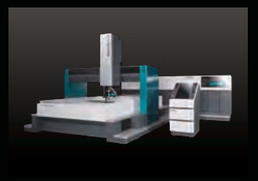
SUPER TECHNOLOGY

SUPER Cutting

Water is pressurized to a maximum of 600 MPa and jetted through a 0.1 mm nozzle, enabling materials to be cut into free-form shapes. This technology can cut materials that are difficult to process using other methods, including transparent materials, brittle materials, carbon fiber, aramid fiber, and thermoplastic resins.
Applications range from automotive interior and exterior materials, reinforced concrete structures, special aircraft materials, building materials, stone, and food. Combining water jet with lasers also enable precision machining.
Moreover, advances in high-performance pressure-generating pumps are expanding their use in the semiconductor and hydrogen industries.



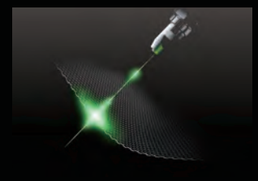
Cutting with a water jet cutter



Ultrahigh-Pressure Water Jet Cutting Equipment／
WATER JET CUTTER



Ultrahigh-Pressure Pump／
SUGINO PUMP



Ultra-Precision Microfabrication Machine／
WATERBEAM MACHINE

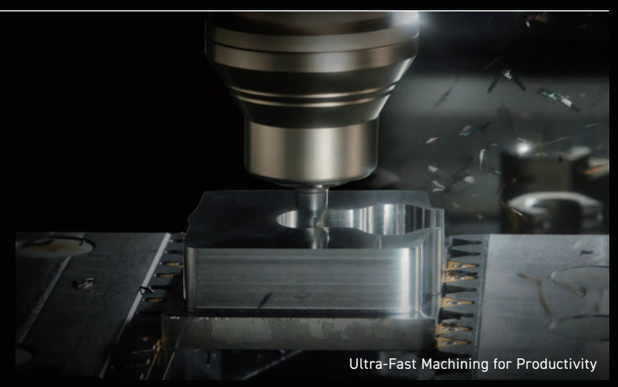
Field

- Automotive : Interior & Exterior Trimming
- Energy: Pressure Testing of Hydrogen Storage Vessels
- Aircraft : Composite Material Cutting
- Food : Cutting & High-Pressure Sterilization
- Medical : Device Machining
- Electronics : Component & Solar Cell Cutting, Wafer Micro-Machining

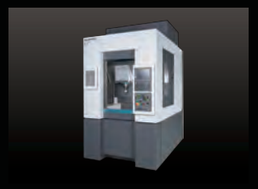
SUPER TECHNOLOGY

SUPER Machining

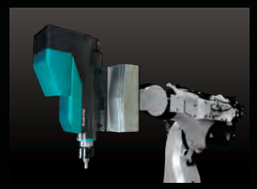
This technology enables high-speed, high-precision machining with compact machines. Beyond simply supplying equipment such as drilling and tapping units, 5-axis machining centers, ultrasonic machining machines, and deburring machines, we integrate digital technologies to design and build dedicated machines and automated systems from the ground up to meet customer challenges, enabling labor-independent production, high-mix low-volume manufacturing, high-speed machining of gigacast parts, and automated robot deburring. We contribute to significant improvements in productivity and competitiveness.



Ultra-Fast Machining for Productivity



Machining Center／
SELF-CENTER



Robot Machining Unit／
SELFEEDER DUO Robot Edition



Robot Deburring Cell／
RDM-S

Field

- Automotive: Precision Machining & Deburring of Powertrain, Gigacast Parts
- Aircraft: CFRP Composite Hole Drilling
- Semiconductors: Valve & Electrostatic Chuck Precision Machining

SUPER
TECHNOLOGY





SUPER TECHNOLOGY

SUPER Washing

This technology uses water pressurized up to 500 bar to clean and remove burrs and chips from parts. Sugino Machine is the only company in the world that can design and build complete cleaning systems in-house, from high-pressure pumps and nozzles to piping and programming. Our high-pressure cleaning systems, essential for high-quality automotive production, are used by automotive manufacturers worldwide. Another use is infrastructure maintenance and renovation. This includes the selective removal of deteriorated concrete from reinforced concrete structures such as bridge piers and highways etc., as well as asbestos removal through the use of water pressurized up to 2,000 bar.


Submerged washing which uses cavitation effect


High-Pressure Washing and Deburring Machine／JCC


Hull Paint Removal


Chipping of Deteriorated Concrete

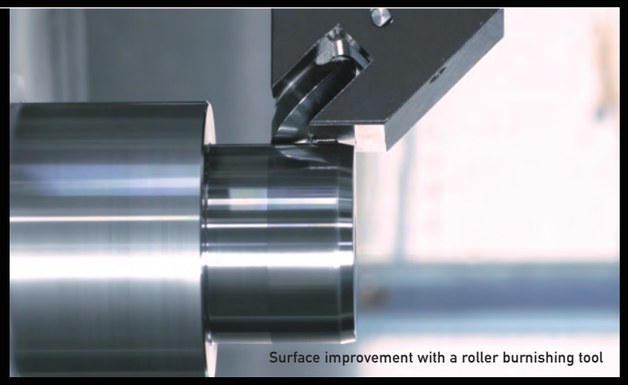
Field

- Automotive: Precision Cleaning of Engine & Transmission Parts
- Shipbuilding: Cleaning of Hulls & Boilers
- Steel: Descaling & Cleaning of Coke Equipment
- Civil Engineering: Paint Removal & Concrete Chipping
- Plant: Removal of Deposits from Condensers, Heat Exchangers, and Piping

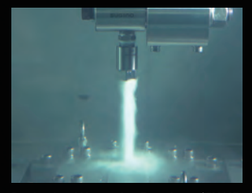
SUPER TECHNOLOGY

SUPER Burnishing

This technology smooths metal surfaces with rollers, creating a mirror finish without removing material while inducing compressive stress to improve wear resistance and fatigue strength. Unlike polishing, it produces no waste, making it a clean machining method suited to today's needs. We are also developing new technologies, including our proprietary CASF technology for smoothing metal additive-manufactured (AM) parts by combining expertise in cavitation and abrasive, and CWJP (Cavitation Water Jet Peening), a peening technology using water alone.


Surface improvement with a roller burnishing tool


Roller Burnishing Tool／SUPEROLL


Cavitation Water Jet Peening／CWJP


Automatic Tube Expanding Equipment

Field

- Automotive: Mirror Finishing of Pistons, Valve Bodies, and Other Components
- Construction Machinery: Internal Cutting and Finishing of Hydraulic Cylinders
- Plant: Tube Expansion of Heat Exchangers
- Aerospace: Strengthening of Metal Components, Surface Finishing of AM Parts



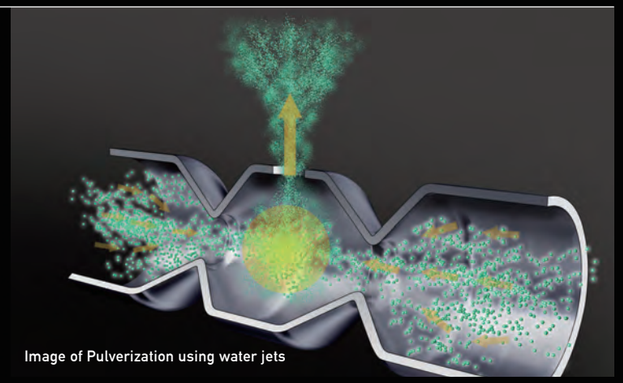




SUPER TECHNOLOGY

SUPER Pulverizing

This technology pulverizes raw materials by colliding them in opposing waterjet streams, reducing them to nanoscale particles. It enables the production of contamination-free fine particles for products requiring high purity, such as electronic components and pharmaceuticals. We also produce sustainable nanofiber materials in-house from cellulose, chitin, and chitosan, with applications expanding in building materials, sporting goods, chemicals, cosmetics, medical products, and health foods.


Image of Pulverization using water jets


Wet Pulverization and Dispersion Device／STAR BURST


Dry-Type Milling Equipment／DRY BURST



Biomass Nanofiber／BiNFi-s

Field

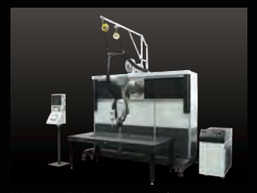
- Cosmetics: Improving Emulsions and UV-Protection Agents
- Pharmaceuticals: Micronizing Injectables and Liposomes; Enhancing Biocompatible Materials, Films & Hemostatic Agents
- Electronics: Improving Dispersion of Battery Materials and CMP Slurries
- Pigments: Improving the Stability of Toners and Printer Inks
- Food: Emulsifying Flavors, Dispersing Antioxidants, Pulverizing Rice and Tea
- Building Materials: Multifunctional Materials

SUPER TECHNOLOGY

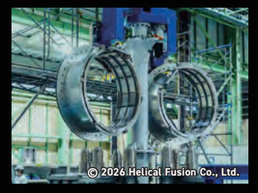
SUPER Connecting

This technology physically and electrically connects equipment and production information using our proprietary industrial robots, transport carts, monitoring systems, and other technologies. From space-saving transport and automation to simulation technologies for verifying optimal operations in a virtual space and monitoring systems that visualize equipment operation in real time, we seamlessly connect people, equipment, processes, and information, contributing to higher productivity and building the foundation for next-generation manufacturing.
Our robots designed for harsh environments, with high water and dust resistance, are also used for maintenance at nuclear power plants and demonstrate their capabilities in fields such as civil engineering and agriculture.


Offline teaching using simulation software


Welding Robot System／CRb series


Autonomous Mobile Robot (AMR)



Fusion Energy-Related Equipment

Field

- Precision Sheet Metal: Automating Welding, Removing Weld Discoloration Dross and Burrs
- Manufacturing Plants: Robot Transport in Confined Spaces, Process Monitoring
- Pharma, Cosmetics, Food: Automated Equipment Cleaning
- Livestock: Poultry House Monitoring
- Civil Engineering: Long-Span Bridge Maintenance

Glocal Niche Leader

Products developed in a regional Japanese city are used across industries and applications worldwide.

A “Glocal Niche Leader” developing and manufacturing locally, aiming to lead niche markets worldwide.

Sugino Machine aims to remain a “Glocal Niche Leader,”
leveraging its “SUPER TECHNOLOGY” from a regional Japanese city
to lead niche markets worldwide.

We strive to remain a company that society needs for the next 50 and 100 years
by meeting customer needs with products and businesses
that make customers think, “Only Sugino Machine can do this,”
while discovering, exploring, and developing new markets.

We will continue to refine our proprietary “SUPER TECHNOLOGY”
and meet the needs of markets and industries
where our technologies are needed.

Applications

- **Automotive** — Precision machining/deburring of powertrain and gigacast parts; trimming of interior/exterior materials; precision cleaning of engine/transmission parts; mirror finishing of hydraulic/pneumatic components
- **Aircraft** — Hole drilling of CFRP composites; cutting of special materials; surface modification of AM parts; surface finishing of metal components; flaw detection of aircraft structures
- **Shipbuilding** — Hull cleaning; boiler manufacturing and maintenance
- **Industrial Machinery** — Automated precision sheet-metal welding; automated transport by autonomous mobile robots
- **Construction Machinery** — Precision cleaning of hydraulic parts; internal machining and finishing of hydraulic cylinders
- **Engineering/Construction** — Cutting/removal of concrete structures; tunnel excavation; removal of markings/coatings; asbestos removal
- **Electronics** — Cutting of electronic components and solar cells; micromachining of silicon wafers and electrostatic chucks; micronization and improved dispersibility of battery materials and CMP slurries
- **Chemicals** — Automated cleaning of vessels/piping; heat-exchanger manufacturing/maintenance; cutting/cleaning/pulverizing for resin recycling; biodegradable resin functionalization
- **Energy** — Power plant maintenance and condenser cleaning; pressure testing of hydrogen storage vessels; hydrogen compression and transfer; fusion-power coil manufacturing; maintenance of nuclear and fusion reactors
- **Pharmaceuticals/Cosmetics** — Improving emulsions, UV-protectants, and hair care; micronizing injections and liposomes; processing/cleaning medical devices
- **Foodstuff** — Shape cutting of confectionery, bread, produce, sushi, and other foods; pressure sterilization; emulsification of flavors; dispersion of antioxidants; pulverization of uncooked rice, tea, soybeans, and cacao; and value-added utilization of food residues
- **Materials** — Mixing of building materials and other materials; micronization, dispersion, and emulsification of raw materials; high-performance modification of rubber and resins

and more

with World Industries















