

SUG!no

COMPANY PROFILE

SUGINO

DNA | SUGINO'S ongoing beliefs.

Honesty. Innovation. Super Technology.

Super Technology Solutions

We have humble and hardworking roots that trace back to Japan in 1938, and now span the globe with locations in 40 countries. Our exhaustive research and development has fueled many innovations throughout our 80 years as a professional engineering company. These innovations are the result of collaborating with our customers and helping them solve the toughest problems manufacturers face today. We believe that listening to our customers and being transparent with them are the foundation for the many strong relationships we have built.

The commitment behind our brand icon.

SUGINO's logo is based on the "!" symbol, and stands for the surprise and delight customers feel when they experience our Super Technology.

Sugino stands for exceeding expectations, and being an innovative partner to our customers around the world.

A History of Innovation

[See our history >](#)

1936

Tube Cleaner



When SUGINO was founded in 1936, steam locomotives were still the preferred mode of transportation.

It was common for the insides of piping used on steam locomotives became clogged with scale. To remove that scale, tools called tube cleaners were developed. At the time, only expensive imported tools were available. Our founder, Rinpei Sugino, believed that Japan needed its own tube cleaners, so he embarked on a tireless journey of research and development.




As a result of his efforts, Japan's first domestic tube cleaner was born, featuring a cutter head that rotated with water pressure or air pressure. Rinpei Sugino set out on foot to personally visit customers and spread word of his product around Japan. His humility, determination and innovation are still at the core of our company.

PIPING EQUIPMENT TECHNOLOGY

1937 Tube expansion tool
Tube expander

1966 Hydraulic tube expansion equipment
Hi-drive

1977 Ultra-high pressure hydraulic tube expansion equipment
Aguasetter

PLASTIC DEFORMATION TECHNOLOGY

1959 Roller Burnishing tool
Superroll



WATER JET TECHNOLOGY

1964 High Pressure Pump

1971 Ultrahigh Pressure Pump




CUTTING, CLEANING AND PULVERIZATION TECHNOLOGY

CUTTING TECHNOLOGY

1976 Ultrahigh-pressure water jet cutting equipment



CLEANING TECHNOLOGY

1974 High-pressure water cleaning equipment
Jet Machine



DRILLING AND TAPPING TECHNOLOGY

PNEUMATIC TECHNOLOGY

1967 Pneumatic motor driven type drilling unit
Selfeeder Pneumatic

1973 Electric motor driven type drilling unit
Selfeeder Electric

1975 Tapping unit
Synchrotapper





ENERGY MARKET

ROBOTIC CONTROL MEASUREMENT AND INSPECTION TECHNOLOGY

1959 Air driven type multi-joint robot
Subman

1976 Nuclear power plant maintenance and inspection equipment




Technology is the result of repeated fusion and evolution, and spreads in all directions.

1987 Multi-surface Roller Burnishing equipment
Superroll Mugen



1994 Tube pulling equipment
Quick Puller



2001 Tube expansion tool
ECO Tube Expander



2008 Dimple Forming tool



2015 Cutting and Roller Burnishing tool
Ream Roller



1986 Portable washing machine
Hi-Jet Gun



1992 Cutting and Roller Burnishing tool
Skive Roller



2003 Roller Burnishing tool
Single Roller Superroll



2002 Wet Pulverizing and Dispersing Device
Star Burst



2011 Biomass nanofiber
BINFI-s



1985 Ultrahigh-pressure water jet cutting equipment
Abrasive jet cutter



1997 Servo motor driven type ultrahigh-pressure pump
Servo Jet Pump



2001 Ultrahigh-pressure pump
Water Jet Pump



2002 Wet Pulverizing and Dispersing Device
Star Burst



2014 Ultrahigh-pressure pump
Hi-Jet3000GT

2015 Ultrahigh-pressure pump
Aqua Servo Pump





2005 Simultaneous 5-axis control ultrahigh-pressure jet cutting equipment
Abrasive jet Cutter NC-SAX



2012 Ultrahigh-pressure water jet cutting
Katana2



1981 Electric motor driven, mechanical feed type drilling unit
Selfeeder Mechatric



1998 High-pressure washing and deburring machine
Jet Clean Center



2000 Submerged washing machine
U-jet III



2007 Water jet and laser machine
Waterbeam Machine



2014 Highly Efficient CNC Robotic-Hand-Type Washing Machine
JCC503Robo



1974 High-pressure water cleaning equipment
Jet Machine



1967 Pneumatic motor driven type drilling unit
Selfeeder Pneumatic




1973 Electric motor driven type drilling unit
Selfeeder Electric



1975 Tapping unit
Synchrotapper



1986 Compact machining center
Self-Center



1999 Gun drilling machine
Gun-Feeder



2001 Servo motor driven type drilling unit
Selfeeder Varimec



2002 Compact precision die fabrication machine
Xion II



2008 Drilling unit for aircraft industry
Pneucn Feeder



2010 Simultaneous 5-axis control machining center
Self-Center H15B-5AX



1991 Piston diameter automatic measurement equipment



2001 Servo motor driven type drilling unit
Selfeeder Varimec



2002 Compact precision die fabrication machine
Xion II



2008 Drilling unit for aircraft industry
Pneucn Feeder



2010 Simultaneous 5-axis control machining center
Self-Center H15B-5AX



2006 6-axis simultaneous control submerged multi-joint robot



2014 Crawler type remote control robot for decontamination





Helping our customers create a better world.

SUGINO's products play a critical role in a wide range of industries including automotive, aerospace, pharmaceuticals, cosmetics, engineering and construction, food services, energy, electronic equipment, and more. We continue to support these industries with our current product catalog, as well as ongoing R&D that includes plans for advances in robotics and IoT.

We are always adapting and continuing to push the Super Technology boundary and we are leading the way on innovations for these industries.

TRANSPORTATION

Precision machining of engine and AT parts, precision washing of engine and transmission parts, and mirror-finishing of hydraulic and pneumatic equipment parts

AIRCRAFT/AEROSPACE

Cutting and drilling of CFRP materials, cutting special steel materials

PHARMACEUTICALS/COSMETICS

Pulverization, dispersion and emulsification of ingredients

MATERIALS

Manufacturing and sales of biomass nanofibers

FOODSTUFF

Cutting of trout sushi, ultrahigh-pressure sterilization

ELECTRONICS

Atomization of laminated condenser materials, deburring of IC lead frames

ENGINEERING/CONSTRUCTION

Cutting and chipping of concrete structures, peeling of paint lines

CONSTRUCTION MACHINERY

Precision washing of hydraulic equipment parts, internal cutting and finishing processing of hydraulic cylinders

SHIPBUILDING

Washing ship hulls, manufacturing and maintenance of ship boilers

PETROLEUM/CHEMISTRY

Automatic washing of polymerization cans and pipes, manufacturing and maintenance of heat exchangers

ENERGY

Washing of power plant condensers, power plant inspection and maintenance, pressure testing of storage tanks for hydrogen station



Washing/Deburring Technology

SUGINO has deep history in high pressure pumps and decades of experience in CNC machining. We combined these two technologies to create the world's best washing and deburring machines. We engineer high pressure washing technology that effectively deburrs the hardest metals on earth (Inconel, Titanium) at tolerances that no one else can match. We're currently supplying high pressure washers to major automotive manufacturers to achieve a safer, and more environmentally friendly way to make cars. This technology is also used for urban, infrastructure and other development projects by pressurizing water up to 2,000 atm to remove deteriorated concrete from bridge pylons and other structures.



Submerged washing which uses cavitation effect

Machining Technology

SUGINO'S extensive cutting and machining technology uses pneumatic, water pressure, and electric drive sources, all developed from core technology. From drilling and tapping units to 5-axis control machining centers and combined machines, we provide customers with the optimum solution based on the concept of 'compact equipment for machining precision parts.'



Cutting with a 5-axis control machining center

Cutting Technology

SUGINO's cutting technology utilizes the energy contained in high-speed, high-density ultra high-pressure water to cut materials. Water is pressurized up to 6,000 atm, and sprayed through a 0.1mm diameter nozzle. Applications for this technology are extensive, including car bumpers and interior materials as well as concrete structures, foodservices, and special materials for the aerospace industry. SUGINO's cutting technology was also utilized to develop pressure test machines for large storage tanks used by hydrogen fueling stations. Additional plans are in place to further advance this technology and support groups working to safely harness hydrogen energy.



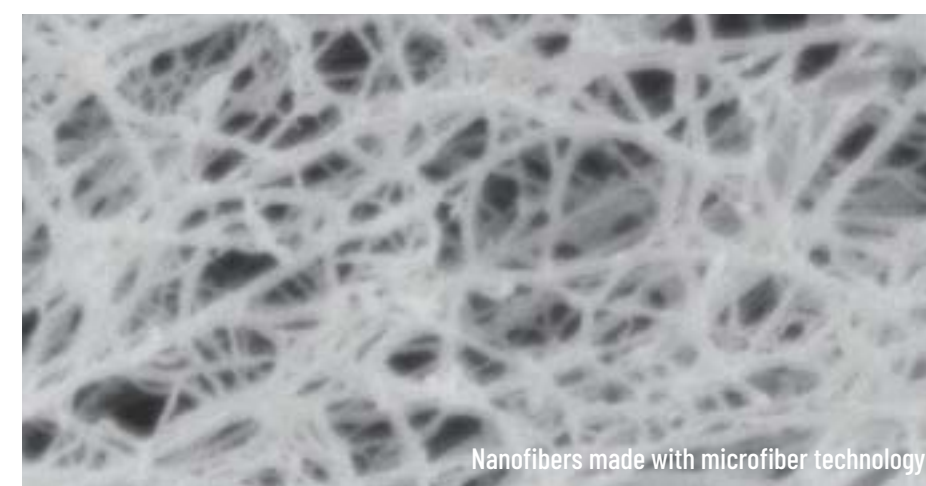
Cutting with a water jet cutter



Surface improvement with a Roller Burnishing tool



Atomization technology condensed into core components



Nanofibers made with microfiber technology

Burnishing Technology

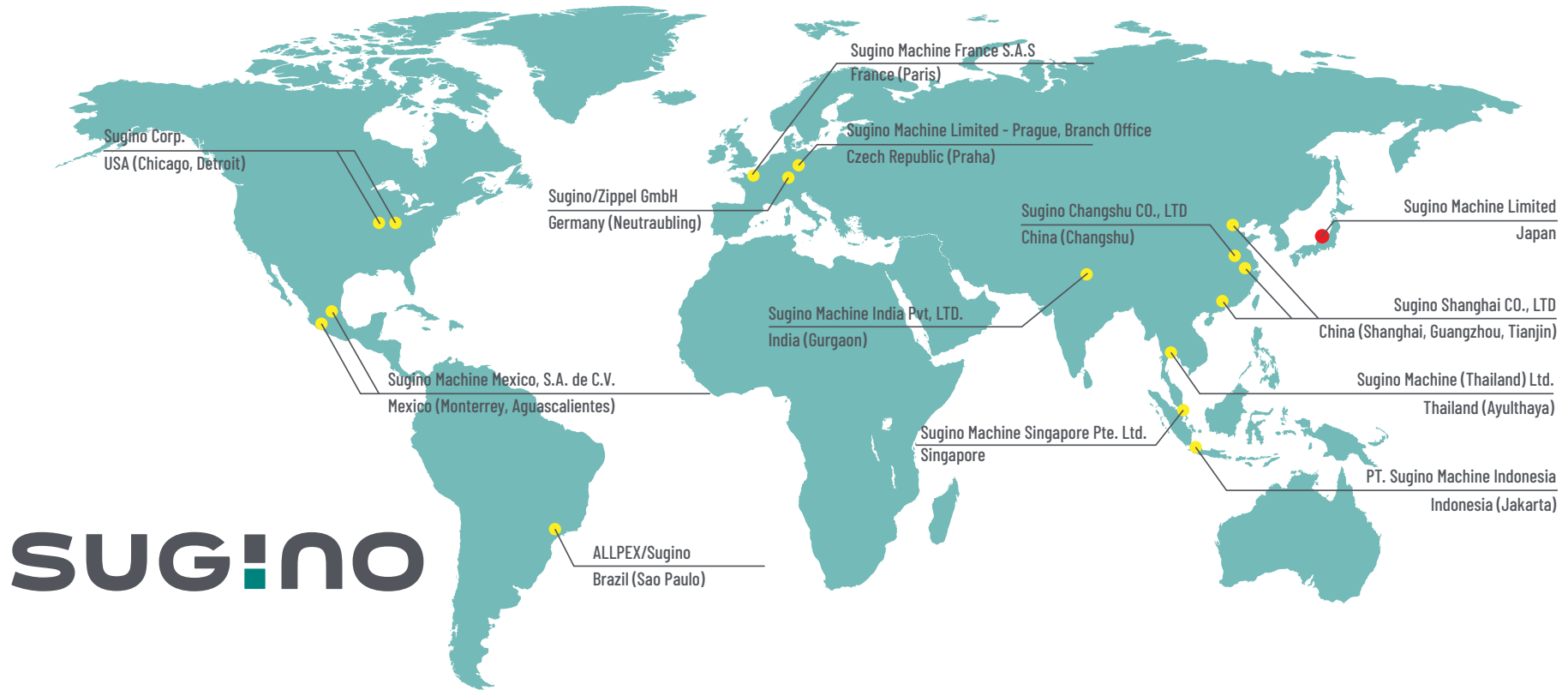
SUGINO's burnishing technology uses metal rollers to compress metallic surfaces evenly and to achieve a smooth finish. Besides achieving a striking surface finish, this process also enhances the residual stress of metallic surfaces, and increases abrasion resistance and fatigue strength. This technology originates from our tube sheet process of expanding heat exchanger tubes at power plants, production plants and other facilities. This technology does not produce waste and is gaining credibility as a clean machining method.

Atomizing Technology

Making materials smaller increases the available surface energy ratio, while allowing material characteristic properties to be maximized. Production sites that require an ultra-clean environment, such as cosmetics, pharmaceuticals and electronic parts are embracing this technology. SUGINO's atomization technology was developed from our water jet systems and allows tiny particles to be manufactured, free of impurities. This atomization equipment is being recognized as the next generation of nanotechnology.

Fibrillating Technology

SUGINO's fibrillating technology is used to produce clean nanofibers with a diameter of approximately 20 nm and the length of several micrometers. The material comes from natural sources like cellulose, chitin and chitosan. This SUGINO proprietary manufacturing method uses water jet atomization technology, resulting in nanofibers that are 1/5 the weight of steel, but exhibit five-times its strength. This material is used extensively throughout the industrial manufacturing and construction fields. Because these products are made from chitin and chitosan, the material has exceptional antibacterial properties and biological compatibility, and are becoming more widely adopted in the chemistry, cosmetics, medical and health food industries.



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Kakegawa City, Japan
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