SUGINO DNA | SUGINO’S ongoing beliefs.


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

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.

See our history ›
Technology is the result of repeated fusion and evolution, and spreads in all directions.
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.
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.

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 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.

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.

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.