

Ishigaki: Filtration and Pump technology trusted worldwide

For over 60 years, Ishigaki has built global success by adhering to its long-standing development philosophy: "combining innovative and unique technologies, improving existing products".



LASTA-SD CLOTH TRAVELLING FILTER PRESS

From water and sewage treatment plants, to mining, oil & gas, chemical and food processing facilities, Ishigaki's highly-efficient filter presses, separators and water pumps are tried and trusted by customers the world over, including major international companies.

Established in 1958, Ishigaki's initial success stemmed from its ability to improve and enhance existing technologies and that remains true today. During the company's early years, industrial businesses with few environmental regulations in place tended to dispose untreated waste-water from their activities directly into the environment, with little concern for the impact.

However, as environmental concerns over industrial pollution grew, Ishigaki developed fully automatic equipment with unique features to filter waste water, the success of which allowed the Japanese manufacturer to garner significant attention from companies worldwide. Since then, Ishigaki has continued to develop technologies for solid and liquid separation and other equipment and is acknowledged throughout the world as a specialist in its field.

With green industrial practices becoming a high priority for companies worldwide, Ishigaki has supported its clients in complying with strict environmental regulations by providing them with su-

perior quality, high-performing, cost-efficient, operator friendly and fully automatic filtration and pump equipment. And one of the unique features developed by Ishigaki's engineers is the addition of an automatic cloth-washing system to filter press technology, which ensures the long life of the filter cloth and, effectively, the equipment's overall performance and durability.



LASTA MC MINING FILTER PRESS

"The success of Ishigaki is to enhance existing technologies. In the filter press business, the filter cloth is the essence of any system. No matter how ingenious your equipment is, if its filter cloth is damaged its performance will drop dramatically," explains president, Makoto Ishigaki.

"As a solution, our engineers developed an automatic cloth-washing system installed directly within the equipment. This is one example of Ishigaki's product development philosophy: com-

binning innovative and unique technologies, improving existing products."

The flagship Filter Press LASTA SD has been Ishigaki's best-selling product over the years. Boasting fully automatic operation and a traveling filter cloth system, it provides both effective and efficient cloth washing, complete and perfect cake discharge without operator intervention, cake washing, short cycle time, and produces cake with higher dry solids. The cloth-wash system helps contribute to consistently high performance.

"While we ameliorated it throughout the years, the Filter Press was initially launched decades ago and was received as a major improvement," says Mr. Ishigaki. "Soon enough, this equipment proved valuable to a variety of industries beyond water treatment, such as for chemical, mining, and food processing companies."



"We want all of Ishigaki's clients to know that no matter what their problem is, they can count on us for technical solutions"

Makoto Ishigaki, President,
Ishigaki Company, Ltd.

These are just two examples of the superior technology Ishigaki is bringing to a wider global customer base, both of which are fully automatic and require no operator intervention. Ishigaki can also offer a wide range of optimized and tailored solutions, including its FLOOD BUSTER. "The FLOOD BUSTER is a pump with the latest functions developed for flood control and enables non-stop operation. This capability is demonstrated when used especially as a pump gate," says Mr. Ishigaki.

"Our motto is 'Trusted Technology'. Our philosophy is to be a company that can answer all the requirements and challenges of its clients. We want all of Ishigaki's clients to know that no matter what their problem is, they can count on us for technical solutions."



FLOOD BUSTER

One-stop solution provider for lightning protection

As the only comprehensive lightning protection company in the world, Sankosha Corporation offers its clients peace of mind with its full range of products and services.

The chances of a person being struck by lightning are tiny. But for electric and telecommunications equipment the risk is far greater, as can be the wider impact on communities, towns and whole cities.

In our digitally connected world, outages caused by lightning to power and ICT infrastructure can have severe consequences, on everything from trains and planes, to power plants and hospi-



SPD Model 'CX-E-60', a solution for 5G

tals. In a natural disaster prone country like Japan where lightning is a constant threat to homes, businesses and facilities, companies have long sought to develop high-performing lightning protection devices for electronic and ICT equipment.

And when other Japanese companies tried to replicate or import technologies from Europe, pioneering firm Sankosha Corporation pushed forward with developing its own products, such as its SPD series of lightning protection devices for electronic and ICT equipment.

With the shift towards IoT and 5G technologies, the company envisions growing demand for its high-performing SPD line, which is tried and trusted by customers around the world.

"As a telecommunication equipment manufacturer, our history has been defined by continuous adaptation and sys-

tematic new product development. As wireless technology continues to progress through the development of IoT and 5G, we expect that the market for protection equipment will continue to increase both in scale and size," explains president, Mr. Masayoshi Ito.

Furthermore, he explains that environmental concerns have compelled manufacturers and telecom companies to decrease their energy consumption, leading to the development of smaller communication units. "These smaller units are more susceptible to damage and vulnerable to natural phenomenon, such as lightning, hence, we expect the demand for our products to increase."

As the only comprehensive lightning protection company in the world, Sankosha has worked strenuously to become a "one-stop solution provider" for lightning protection equipment



and offers its clients an expanding range of services in lightning observation and lightning protection.

"One of our major achievements was to develop a solution that can predict when and where lightning will hit. Thanks to forecast analysis, we can calculate and foresee how lightning is evolving and accurately predict its impact location. We communicate these forecasts to our clients, effectively enabling them to prepare and react before lightning strikes," explains president, Mr. Masayoshi Ito.

"We have also developed grounding material and construction products which enable us to provide solutions both in the air and below ground. We are the only company in our field that can provide a comprehensive product portfolio and consulting services, which is our strength."



Japanese-quality life jackets for maximum safety and comfort

Takashina Life Preserver's 'Bluestorm™' series of high-tech life-jackets are designed with the users' safety, security and comfort in mind.

Whether you spend time in the water for work or play, safety is paramount. From boaters and fisherman, to kayakers and white water rafters, all water sport lovers need a life-jacket that is not only made to the highest quality and safety standards, but also light, compact and comfortable to allow complete movement and enjoyment of their sport.



Established in 1935, Japanese company, Takashina Life Preserver, designs and manufactures high-quality life-saving equipment to service the maritime and leisure markets. For over 80 years and three generations,

Takashina's commitment to innovation and R&D has enabled the company to develop high-quality products designed with users' safety, security and comfort in mind – products such as its Bluestorm™ inflatable life jackets.

The Bluestorm™ brand of life jackets come in both suspender and belt form and can be automatically inflated at the time of need. Whether in the water to fish, paddle or sail, users of a Bluestorm™ jacket can rest assured that they have fitted themselves with the highest quality U.S. Coast Guard-approved water safety technology developed by one of the best and most experienced manufacturers in the business.

"Takashina Life Preserver operates in what I call the standards business. All the products we manufacture have to meet international and domestic safety standards, which have grown increasingly demanding through the

years," says president, Yoshihisa Takashina. "We want our clients to associate our brand with quality and safety. At Takashina, we continuously try to raise the bar of our quality standards."

All of Takashina's products have been developed at its state-of-the-art facilities to exceed requirements set by regulatory agencies such as the U.S. Coast Guard, Transport Canada, CE, SOLAS and MED. Aside from life jackets, the company also makes cold weather, marine gear including immersion suits and dry suits, and rescue gear items, such as slings, safety harness, rope bags and gear bags.

A pioneer in the industry for more than eight decades, Takashina has always strived to develop groundbreaking new products. And one of its latest innovations is an extremely compact orally inflatable life jacket, which by virtue of its unique design, is incredibly easy to store and convenient to use.



"Traditional life jackets are cumbersome, bulky and difficult to arrange. The space required to stock 1,000 jackets would equal an entire warehouse. To provide a solution we developed this miniature jacket that fits on the palm of one's hand," explains Mr. Takashina.

Having earned a 70% market share in the Japanese market for inflatable life jackets, Takashina aims to leverage on its sterling reputation for quality and safety in Japan to expand its business worldwide. Visit www.bluestormgear.com for their latest U.S. Coast Guard-approved inflatable life-jackets.

"While 'Bluestorm™' stands for the universally accepted theme of safety, my dream is to go beyond that and create a brand which represents the fisherman's ideals and lifestyle" says Mr. Takashina.



Cross-sector cooperation must drive solutions to global plastic crisis

Japanese firm, Nissei Plastic Industrial, is at the forefront of international efforts within the plastic industry to create and generalize more sustainable production practices.

Last year at the Global Plastics Summit in Houston, one by one companies representing business from across the plastics supply and packaging chain took to the lectern (plastic-made, of course) to talk about what their organizations were doing in response to the world's crisis in plastics waste.

Solutions put forward ranged from new technology that would take plastic back to its molecular building blocks for repeated recycling, to redesigning plastic bottles with caps that stay connected to the bottle. While these enlightening

more away, there's potential for billions more tons of plastic waste to be headed to landfills or out into the environment – a reality that further emphasizes how plastics manufacturing must be at the forefront of the solution rather than the root cause.

One such company that recognizes this challenge – and how sustainability has become a fundamental part of its social license to do business – is Japan-based Nissei Plastic Industrial.

While Nissei Plastic is primarily engaged in the manufacture and sale of injection molding machines

then our market has no choice but to adapt and evolve. Furthermore, I believe that we must create strong corporate alliances with our competitors and our raw material providers in order to conduct joint R&D. By leveraging on each other's respective strengths, we can develop and generalize ground-breaking technologies across sectors."

While some companies "shamefully remain committed to using polluting materials", businesses like NPI are leading on this front to build cross-sector cooperation and innovation around plastic production.

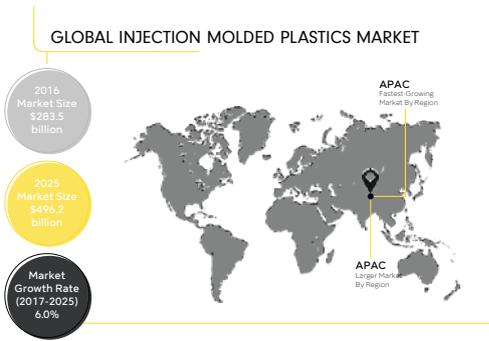
"We consider it our mission to research sustainable solutions to answer these environmental problems," says Mr. Yoda. "I have witnessed how things are changing with my own eyes, and it brings me great satisfaction to know we are matching the market's needs. Furthermore, our contribution to the medical sector is a source of satisfaction. Knowing that our machines are used to manufacture the parts and components present



"We consider it our mission to research sustainable solutions to answer these environmental problems"

Hozumi Yoda, President, Nissei Plastic Industrial

in life-saving devices fills us with pride. Instead of considering plastic manufacturers as problem makers, I hope to show the world that through innovation, companies such as Nissei Plastic are creating solutions to solve environmental and human issues."



Source: Prescient & Strategic Intelligence Private Limited

discussions highlighted the skewed narrative that pervades the plastic crisis – focus remains largely and consistently on just one end of the life cycle, waste management, rather than innovative manufacturing – those at the summit were reminded that despite these efforts, the industry's drive to improve sustainability would need to happen faster in order to keep pace with increasing global plastic production.

Indeed, belying the growing consumer plastic backlash, IHS Market – a co-host of the conference – said it expected plastics production to grow on average 3.5 to 4 percent per year through at least 2035. With global recycling programs largely underfunded and ineffective, and new recycling technology a decade or



used across the plastic manufacturing industry, it recently outlined its commitment to sustainable production by unveiling its own eco-friendly plastic product, known as PLA, which can be made with its machines.

"PLA is a plastic made of corn," explains Hozumi Yoda, President of Nissei Plastic. "By virtue of its biodegradable properties, this plastic can be buried in the ground and disintegrates within a year."

While the ingredients that compose PLA are relatively straightforward, successfully utilizing it for plastic injection molding is extremely challenging and complex due to the relative thickness of the material. It's also a lot more expensive than regular plastic production, posing certain challenges and questions about how the plastics industry must balance more sustainable practice with profitability going forward.

"In order to generalize the utilization of sustainable and eco-friendly plastic products, we must create a common consensus and unite all companies in our field," says Mr. Yoda. "If we all promote new, environmentally-friendly packaging,

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