

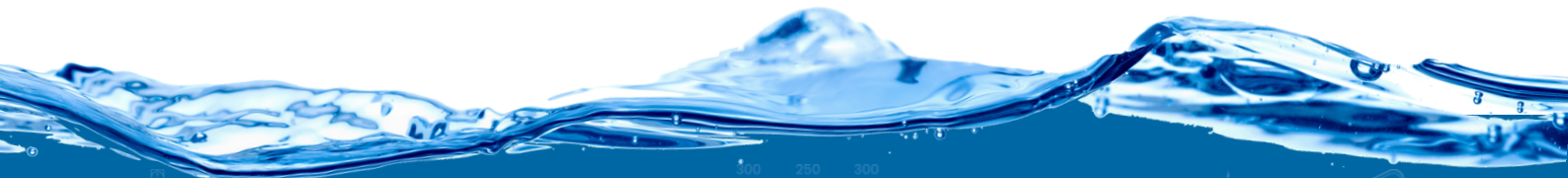


TSURUMI PUMP™

BUILT FOR WORK®



CAPABILITY STATEMENT



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Who Are We

Tsurumi Australia is part of the global Tsurumi Pump network which was founded in Japan over 99 years ago. Tsurumi is a leading global manufacturer of submersible pumps and wastewater treatment products; focusing heavily on providing a wide range of high quality and long-lasting products.

With engineering features that offer extended operational life over traditional designs, Tsurumi pumps outmatch all other pumps and can suit all customer needs. Tsurumi stands out from other manufacturers as the pumps come loaded with proprietary technologies that are tested and proven over the years which increase the durability of the pumps. Tsurumi's pumps are used in a broad range of fields from civil engineering and construction sites that require high reliability, to mines and larger scale project sites like tunnels, bridges, dams and so forth; as well as infrastructure for temporarily bypassing sewerage or draining rainwater to avert flooding.

Tsurumi's Timeline

- 1924** Founded in Osaka, Japan
- 1951** Incorporated as a limited company
- 1979** Tsurumi America was incorporated
- 1980's** Products made available to Australia
- 1983** Tsurumi Europe was incorporated
- 1983** Japan's Kyoto factory opened
- 2019** Tsurumi Australia was established



Pump Applications

Tsurumi have a wide range of pumps for various applications. If you are unsure what type of pump you require, our team have extensive experience and knowledge in order to provide you the best solution/s for your needs. Here are a handful of the applications that our single and three-phase pumps can assist with:

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| <ul style="list-style-type: none"> • Residue & high head drainage • Multi-field use • Corrosion resistant • Dewatering (high and low volume, sea water resistant) | <ul style="list-style-type: none"> • High temperature liquids • Wastewater & sewage • Slurry & aerators • Floating scum skimmers |
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Pumping Capabilities

We pride ourselves on being able to supply a range of equipment to meet your needs. Our pumps range from small sizes for household use, to medium and large sites like tunnel works, construction sites, mines, treatment plants and more. We provide solutions to a broad range of industries.



Mining

Tsurumi submersible pumps demonstrate their power in mine water drainage, winning wide praise from users who say that "the Tsurumi difference gets more obvious the more severe the conditions in which these pumps are used". Tsurumi's hard work is evident in their rugged performance, dependable safety, and outstanding ease of use.



Construction

Tsurumi submersible pumps have a wide range of dewatering products that are hard at work at building, road and tunnel construction sites removing muddy water, keeping workers safe, and maintaining a clean work environment.



Industrial

Tsurumi has developed more than 17,000 submersible industrial pump designs. Among our customers are plants that handle special liquids or require complex processes, and our technical skills are highlighted by our ability to meet the unique wishes of sites like these.



Sewage

Tsurumi's submersible sewage pumps are made of various materials, such as cast iron, stainless steel, special resin and titanium, in order to meet the intended application and liquid content.



Wastewater Process

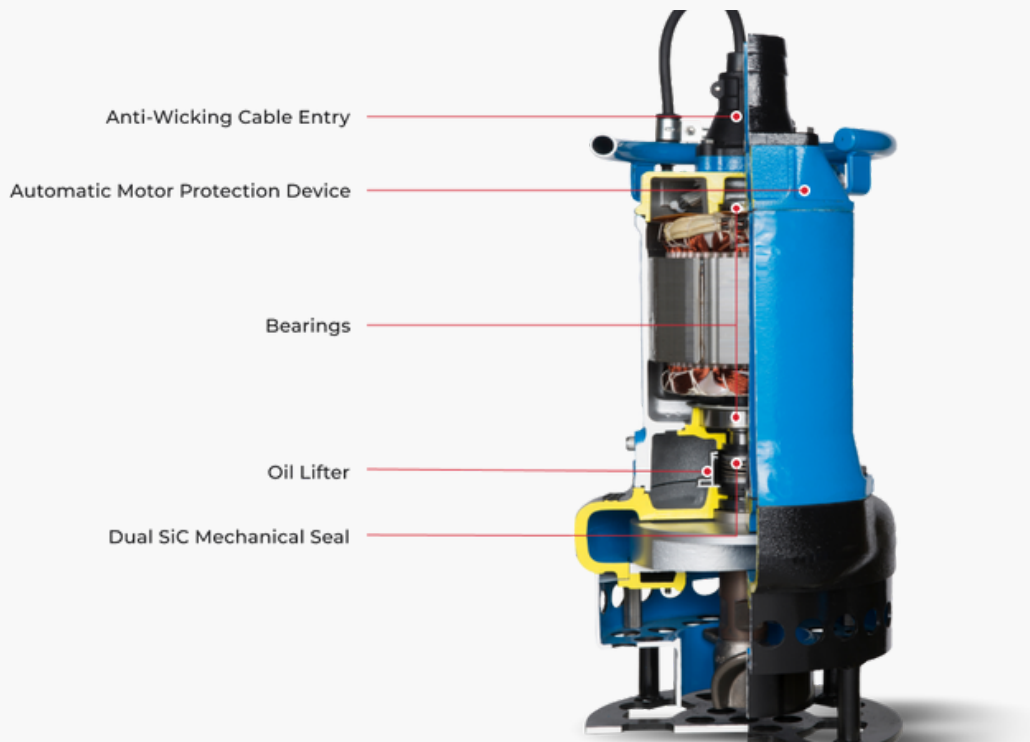
Tsurumi can provide total equipment packages for handling the indispensable processes for wastewater treatment, such as aeration, agitation, scum collection and crushing supernatant liquid discharge.



Water Treatment

Newly developed equipment such as aerators, automatic bar screens, blowers, scum skimmers and more, are effective not only in stabilizing processing and increasing water treatment speeds but also in reducing costs and conserving energy.

Features of Tsurumi Pumps



Anti-Wicking Cable Entry

An anti-wicking block is provided at the cable entry section of the motor chamber. Even if the cable jacket becomes damaged or the tip of the cable is accidentally immersed in water, this device prevents water from traveling into the motor chamber through capillary action.

Automatic Motor Protection Device

A built-in thermal motor protection device reacts to the excessive heat caused by overcurrent or run-dry conditions. It not only cuts off the motor circuit automatically but also resets by itself.

Bearings

High-grade bearings for high-temperature operation are used. Also, as deep-groove, double-shield ball bearings are used, and as the bearings are permanently lubricated by grease, there is no need for injection of lubricating oil.

Oil Lifter

The Oil Lifter was developed as a lubricating device for the mechanical seal. Utilizing the centrifugal force of the shaft seal, the Oil Lifter forcibly supplies lubricating oil to the upper seal faces even if the lubricant falls below the specified volume. This amazingly simple device reliably lubricates and cools but also stabilizes the effect of the shaft seal and extends the length of the inspection period.

Dual SiC Mechanical Seal

A dual inside mechanical seal, located in the oil chamber together with the Oil Lifter, has two sealing faces made of quality materials, including silicon carbide (SiC). The advantages of this seal are two-fold; it eliminates spring failure caused by corrosion, abrasion or fouling, which can prevent the seal faces from closing properly, and prevents loss of cooling to the lower seal faces during run-dry conditions, which causes the lower seal faces to fail.

Why Choose Tsurumi?

Heavy-duty, excellent durability and reliability - Tsurumi Quality

Tsurumi's submersible pumps are superior quality, have exceptional durability and solid reliability. The pumps are designed with proprietary technologies that are tested and proven over the years. For the sake of durability, wear-resistant materials have been adopted for parts that tend to wear down more easily. This paves the way for continuous duty over extended periods of time especially compared to competitor pumps.

Pumps are made of various materials such as cast iron, stainless steel, special resin and titanium in order to meet the intended application and liquid content. By using the correct material for the intended application, this plays an important role in the longevity of the pump. Furthermore, the way certain pump models are constructed, allows for energy savings which then helps with being environmentally friendly.



Our Services

We don't just provide pumps and parts, we ensure customers are given the kind of individual attention, support and consultation they need, when they need it. We have dedicated industry experts for each Australian state and territory who can assist with project solutions and providing valuable technical knowledge on our pumps range. For those difficulty jobs or projects that need expert attention, we can visit you or site therefore the best solution can be devised.

We have a dedicated team which ensures orders and shipment requests are processed in a timely manner. Part of ensuring orders are processed efficiently, is by having various warehouses around Australia which stock a wide range of products. The warehouses pick and pack within 24 hours of orders being received. By combining the internal sales team and multiple warehouses, this allows pumps and part orders to be processed and delivered (if required) to the end user within a week or less. If an order is urgent, we endeavour to accommodate your request and ensure you receive the order by the deadline.

