

# Tsurumi's Molib-tech Coating Pushes Wear Resistance to New Heights

***Tsurumi is now offering Molib-tech coating on its AVANT MQ Series chopper pumps, reinforcing the pump's durability and performance in demanding applications.***

To address the demands of high-wear pumping environments, Tsurumi has introduced Molib-tech™, an advanced molybdenum carbide coating. This high-performance coating is known for its exceptional resistance to erosion, abrasion, and cavitation. Molib-tech is applied to pump components with high susceptibility to wear, specifically the impellers and suction flanges of Tsurumi Pump's AVANT® MQ chopper series. It was designed to extend component life and maintain hydraulic performance; with a surface hardness of 1000/1100 HV, it is considerably harder than cast iron. This material exemplifies AVANT lines' reputation for rugged, reliable performance in municipal and industrial wastewater applications.



*Molib-tech: Shielding Tsurumi pumps from erosion and cavitation*

## Cold Coated for Maximum Reliability

Molib-tech is applied using a cold coating process, as high temperatures are not used during application. This is crucial as the cold coating process prevents thermal deformation or internal stress that frequently occurs when high temperatures are utilized. When cold coating, a uniform layer of molybdenum carbide is applied across the entire exposed surface, helping to maintain the component's original properties. By thoroughly prepping and sand-blasting the surface of the component, the coating mechanically bonds to the substrate, ensuring maximum consistency and protection.

## Key Benefits of Molib-tech Coating

By adding Molib-tech to critical pump components, users experience a range of benefits that go beyond surface level durability. Benefits include the following:

- Superior resistance to abrasion, erosion, fretting wear, and impact
- Improved balancing of impellers, thereby extending the operational life of rotating parts
- Dependable hydraulic performance over time, as the coating does not peel
- Consistent quality due to automation process



*AVANT® MQ Pumps: Engineered for endurance in every drop and every duty*

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### Supporting Long-Term Pump Efficiency

Integrating Molib-tech into the AVANT MQ Series aligns with Tsurumi's mission to deliver low maintenance, high quality pumps. With minimal repairs and consistent output, users benefit from reduced total cost of ownership and improved operational continuity. This proven technology helps operators reduce downtime, extend product life, and optimize the overall lifecycle value of their pumping systems.

For more information, visit [www.tsurumipump.com](http://www.tsurumipump.com)



*AVANT® MQ Series - Premium efficiency meets submersible strength*

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### ABOUT TSURUMI

Tsurumi (America), Inc., a division of Tsurumi Manufacturing, was founded in 1979. Headquartered in Glendale Heights, Illinois, Tsurumi (America), Inc. has bases in Quebec, Canada; El Paso, Texas; and Salt Lake City. Globally, Tsurumi is active in 45 countries and has been an innovator in the pump industry since 1924. Tsurumi (America) is a provider of leading pumping technology in construction, civil engineering, mining, industrial wastewater, municipal wastewater, sewage treatment, flood control and scenery creation fields. Tsurumi products are backed by independent, third-party verification. Beyond leading pump technology, Tsurumi (America) is recognized for its robust distribution network and one of the largest on-hand inventories in North America.

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