

Press Release

May 10, 2018

Zero Sludge Coolant Tank for sludge collection in a coolant tank

DMG MORI CO., LTD. developed Zero Sludge Coolant Tank for an efficient collection of fine sludge inside coolant tanks. This product is conceived upon customers' frequent requests for efficient chip removal. It will be exhibited at DMG MORI Iga Innovation Days 2018, which starts from May 22nd, 2018.

We applied our latest technology to Zero Sludge Coolant Tank; it creates optimal coolant circulation with mounted nozzles inside a coolant tank, and collects fine sludge with highly-accurate cyclone filters. In a conventional method, sludge is easily piled up in a coolant tank and can hardly be removed, but this new technology stirs the tank with multiple nozzles to facilitate effective sludge collection.

It catches more than 99%* of casting sludge inside a coolant tank, sparing regular tank maintenance. It also prevents clogged pipes and coolant nozzles, slows down pump deterioration, and extends coolant lifetime by constantly purifying the liquid. Please see how it works in the following website

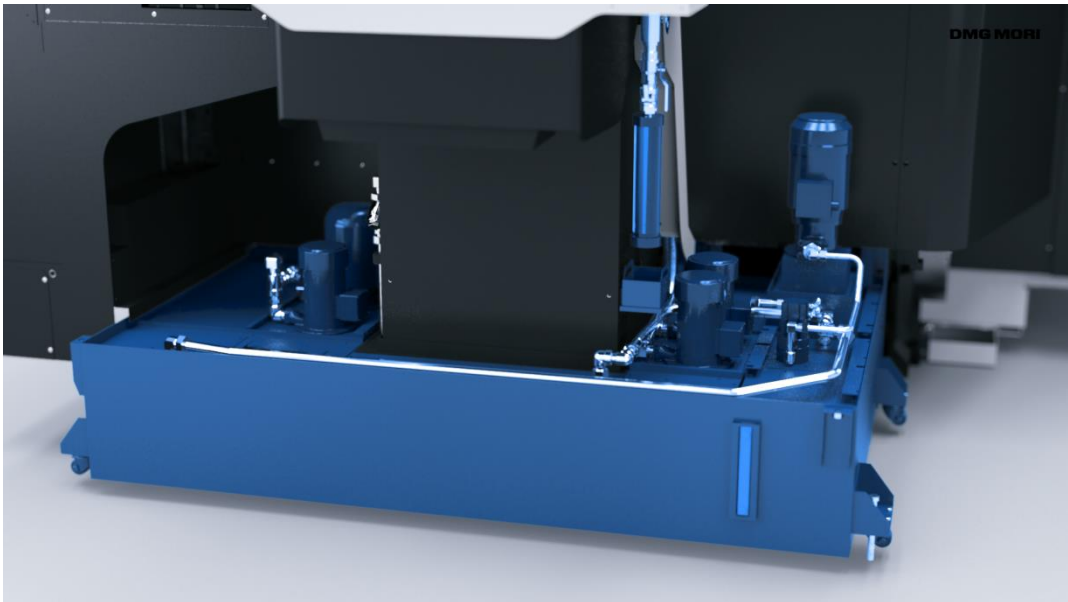
(<https://www.dmgmori.co.jp/theme/movie/id=3021>).

DMG MORI will continuously meet customers' needs with highly functional and reliable products well worthy of investment.

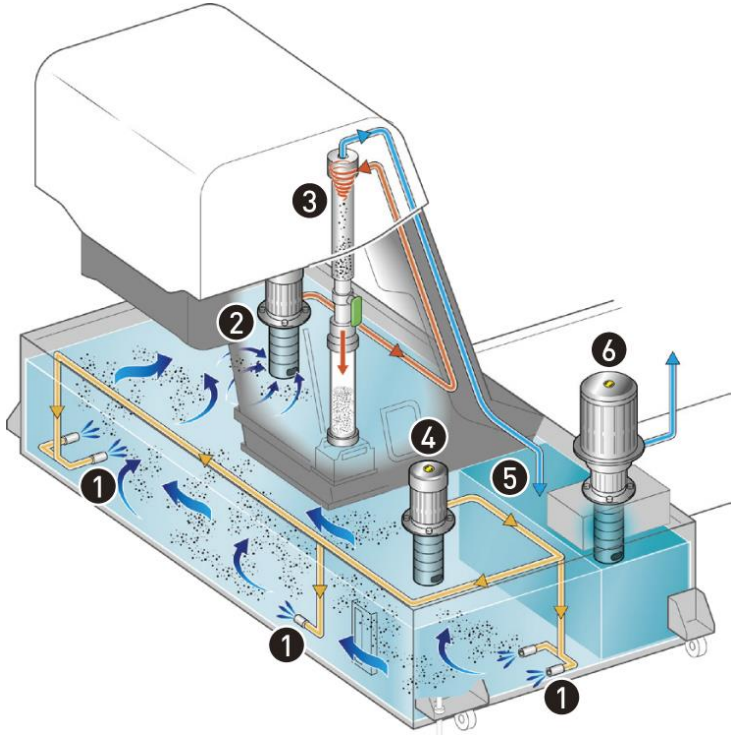
*According to the result of in-house verification. It is a subject to change under certain cutting and ambient conditions.

Product name	Zero Sludge Coolant Tank
Applied models*	Vertical Machining Centers NVX 5000 2 nd Generation series Horizontal Machining Centers NHX 4000 / 5000 3 rd Generation NHX 5500 / 6300 2 nd Generation

*As of March 2018. The application will be gradually expanded to other machine types.



Zero Sludge Coolant Tank



- ① Coolant Nozzle (Stirring nozzle)
- ② Inlet filter pump
- ③ Cyclone filter
- ④ Stirring nozzle coolant pump
- ⑤ Clean coolant tank (from cyclone filter)
- ⑥ Through-spindle coolant pump

Image of sludge collection