

Press Release

October 28, 2019

Sludge Collection System “Zero Sludge Coolant Tank” Available as Standard on Large Horizontal Machining Centers

DMG MORI (hereinafter called DMG MORI) will begin offering the “Zero Sludge Coolant Tank” for efficient collection of sludge inside the tank as standard on large horizontal machining centers NHX 8000 and NHX 10000 on November 1, 2019. Making the feature standard for the two models means that all the DMG MORI horizontal machining center NHX series models will be equipped with the advanced function.

The Zero Sludge Coolant Tank was developed to respond to a growing number of needs for efficient chip disposal from customers. It adapts the DMG MORI's new technology that generates optimal coolant circulation using multiple nozzles attached inside a coolant tank and collects sludge with a highly accurate cyclone filter in a highly efficient manner.

In a conventional method, sludge is easily piled up inside a coolant tank and can hardly be collected. With the new “Zero Sludge Coolant Tank,” coolant is stirred in a tank with multiple nozzles, which prevents sludge from piling up and collects it efficiently. This ensures the casting sludge collection rate of over 99%* inside a tank, drastically reducing the frequency of tank cleaning work which used to require regular maintenance. The new function also prevents clogging of pipes and coolant nozzles, slows down degradation of pump performance and extends coolant life by purifying the liquid.

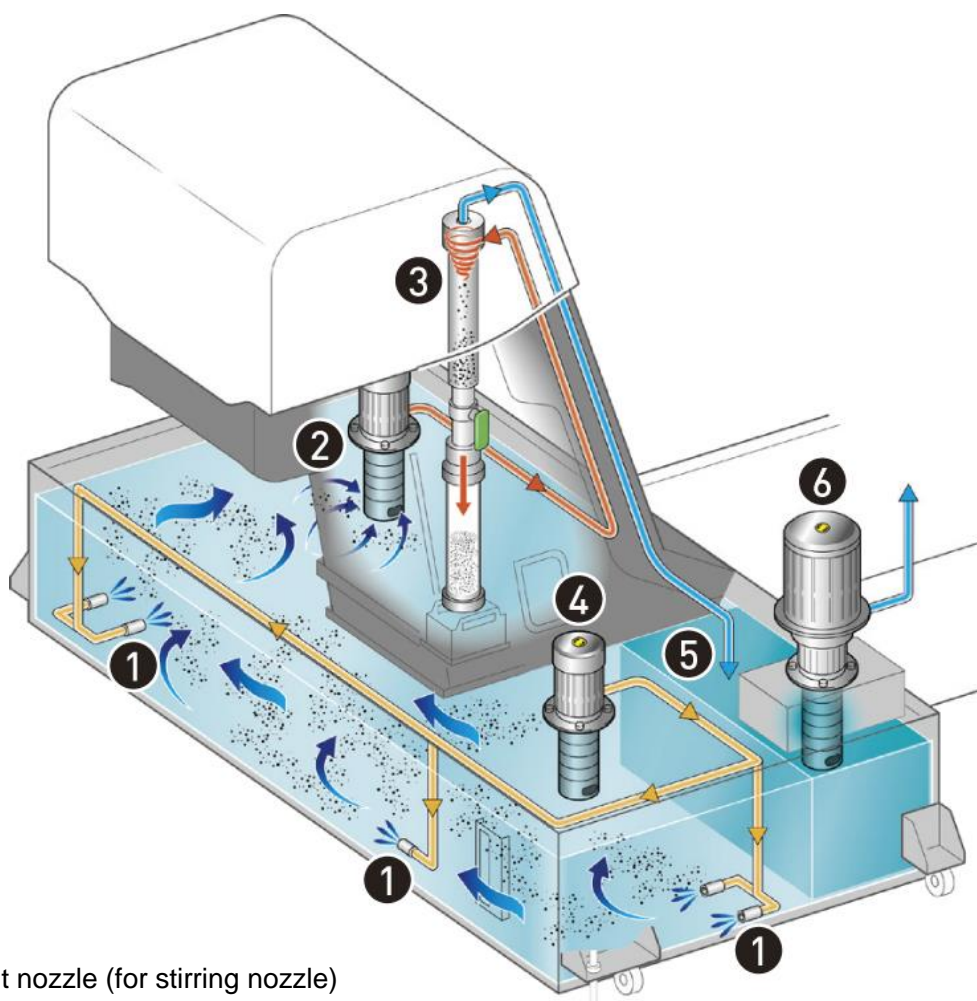
Please check the movie of sludge collection on the DMG MORI website below:

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

*According to the in-house verification. The value may vary depending on cutting and environmental conditions.

DMG MORI will continue launching highly functional, reliable and investment-worthy products to the market in an effort to meet the customer needs.

Name	Zero Sludge Coolant Tank
Applicable models equipped with the function as standard	Horizontal machining centers NHX 4000 3 rd Generation/NHX 5000 3 rd Generation NHX 5500 2 nd Generation/NHX 6300 2 nd Generation NHX 8000/NHX 10000



- ❶ Coolant nozzle (for stirring nozzle)
- ❷ Inlet filter pump
- ❸ Cyclone filter
- ❹ Stirring nozzle coolant pump
- ❺ Clean coolant tank (return from cyclone filter)
- ❻ Through-spindle coolant pump

Image of sludge collection process