

‘SUPERFLOW V30C-J’ High-Pressure Coolant Through Spindle System For Higher Productivity

Yamazaki Mazak Corporation has started the sales of the **‘SUPERFLOW V30C-J’** high-pressure coolant through-spindle system.

This system was developed and first produced by MAZAK CORPORATION in the U.S.A. with 3,000 units sold and have also been installed at MAZAK factories in Japan. The **‘SUPERFLOW V30C-J’** now being introduced is produced in Japan.

High-pressure coolant prevents the rapid increase in temperature during machining by supplying coolant directly to the tool tip. It also minimizes tool wear allowing faster cutting speeds to be used for higher productivity.

High-pressure coolant also improves the breaking of machined chips for smoother chip disposal during machining by eliminating long, stringy chips that wind around tools that damage machined surfaces which require stopping machine operation frequently for chip removal. This is most effective for difficult to cut materials such as those found in the aerospace and medical industries and will provide longer tool life as well as higher productivity.

A unique interface between the **‘SUPERFLOW V30C-J’** and MAZAK machine tools has been developed in-house. The coolant pressure can be easily changed from 0 MPa ~ to a maximum of 7 MPa by M-code.

The **‘SUPERFLOW V30C-J’** utilizes a diaphragm pump which is not only energy efficient but also very reliable since it is resistant to fine particles in coolant. It also incorporates a cyclone filter with high filtration efficiency that does not require bothersome filter replacement.



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