

High-pressure coolant system for higher efficiency and productivity

NEW SUPERFLOW V30C-J

The SUPERFLOW V30C-J high-pressure coolant system makes it possible for MAZAK machine tools to be used to their full potential. Compared to other systems, the SUPERFLOW V30C-J features improved chip-control, lower tool tip temperatures, and longer tool life with faster spindle speeds and feedrates to realize higher productivity.



Maximum
coolant pressure

7MPa



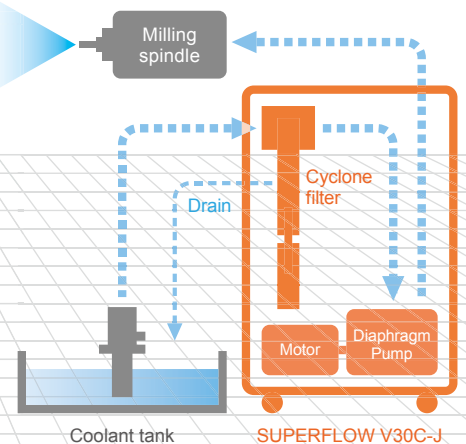
- Diaphragm Pump with exceptional energy efficiency

- High performance cyclone filter with minimum maintenance requirements

- Coolant pressure easily set by M-code
(pressure range from 0 to 7 MPa)

- Inverter controlled pump motor
- Compact design with high energy efficiency 

Spindle through coolant system



Optional mist collector is recommended for machines
equipped with the SUPERFLOW V30C-J

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■ Heat

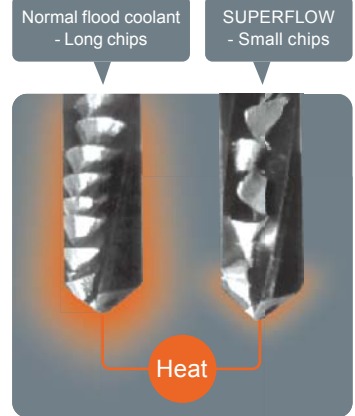
Tool tip temperatures can exceed 500°C during cutting, affecting tool wear that leads to tool failure. While normal flood coolant may fail to reach the cutting zone, SUPERFLOW ensures direct delivery to the cutting edge, reducing temperatures and improving tools' cutting action. Thermal stability allows for faster surface speed, increasing productivity while minimizing tooling costs.

■ Chip control

Long, stringy chips produced by cutting can cause tool damage. SUPERFLOW helps to create small chips and efficiently evacuating them from the cut where chips are removed by the coolant resulting in extended tool life. This eliminates the risk of tool failure. The benefits become especially clear in drilling applications.

■ Lubricity

With traditional systems, coolant often vaporizes before reaching the cutting zone. Not only does this minimize its effectiveness in dispersing heat, but it also nullifies the ability of lubricants in the coolant to reduce the amount of heat generated. SUPERFLOW delivers coolant directly between the tool and workpiece, improving lubrication, tool life and surface finish.



Maintenance

- The SUPERFLOW Diaphragm Pump resists machined chips in the coolant to considerably reduce maintenance requirements.
- Cyclone filter that has high filtration – filters do not have to be changed, generating no waste.

No industrial waste

Reduced maintenance requirements

Reduced power consumption

Specifications

Pressure at pump	0~7.0 MPa (Seven steps)	Pump	Diaphragm Pump
Flow	30 L/min	Filter	Cyclone filter
Motor output	5.5 kW	Filtration	About 10 µm

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- Specifications are subject to change without notice.
- This product is subject to all applicable export control laws and regulations.
The accuracy data and other data presented in this catalogue were obtained under specific conditions.
- They may not be duplicated under different conditions.
(room temperature, workpiece materials, tool material, cutting conditions, etc.)

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