Spindle Characteristics

IDD for the most optimal heat source isolation design, IDD (Isolated Direct Drive System)

- Direct-drive spindle design with isolated heat source to reduce the thermal displacement and to increase the precision and lifetime of the spindle
- Isolated coupling design between motor and spindle, and the entire spindle can use the oil temperature cooling control in order obtain greater precision control.
- Direct-drive transmission between motor and spindle without noises, backlashes and vibrations caused by belt or gear transmission.
- Direct-drive transmission between motor and spindle to increase the motor efficiency, and rotational speed output from the motor directly in order to obtain rigid tapping of high quality.

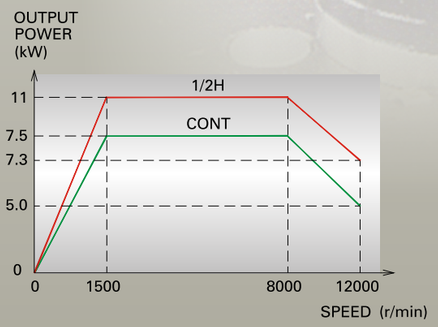
Characteristics of standard high-speed spindle

Model: D 600
Maximum rotational speed of spindle:10000/12000 rpm

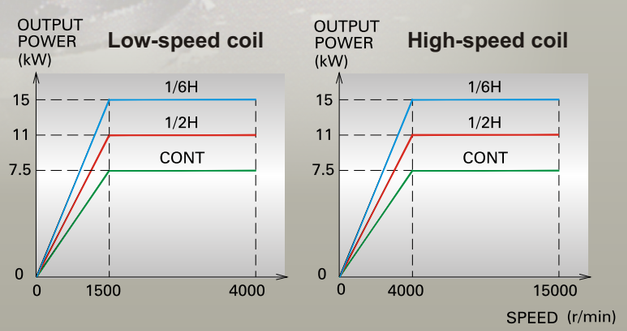
Model: D 800/1000/1200A
Maximum rotational speed of spindle: 10000 rpm

High-speed spindle and characteristics OP

Model: D 800/1000/1200A
Maximum rotational speed of spindle: 12000 rpm



Model: D 800/1000/1200A
Maximum rotational speed of spindle: 15000 rpm



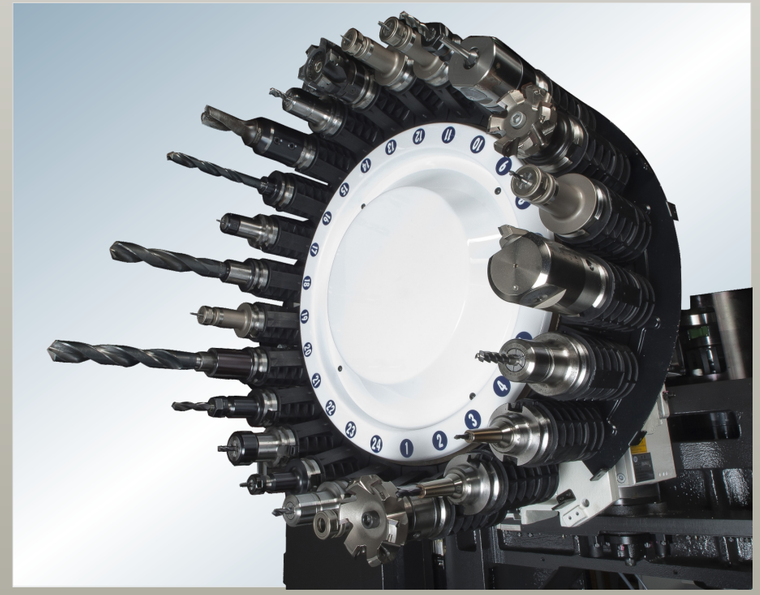
Stable and Reliable ATC

Arm-type Tool Changing Mechanism

- A fast, simple, reliable, and durable tool exchange device, providing stable and reliable exchange of tools.
- A unique tool exchange device design, an advanced cam-drive mechanism capable of random tool selection can be achieved using the PLC software control.

Arm-type Tool Changing Mechanism

Tool Magazine Unit



- The tool changer mechanism has been subject to a million times of operating tests to satisfy the requirements of high reliability.
- The rapid tool changer mechanism saves non-cutting time, and therefore increases production efficiency.
- The cam drive mechanism of the magazine ensures precise rotation and smooth operation of the magazine, even for heavy tools.
- Tool magazines with 24 stations and 32 stations are available for selection.

Tool Magazine stations: 24 tools