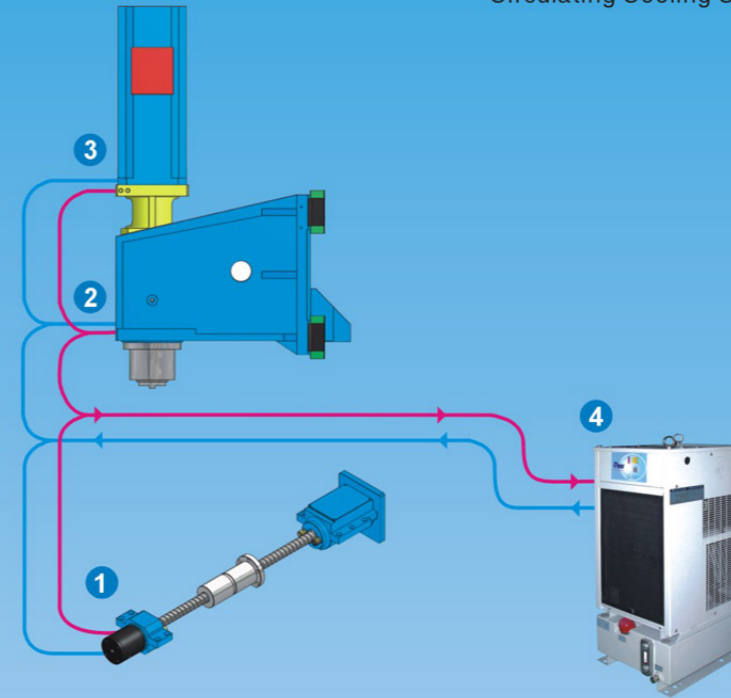


**Recommendation of new product —
Jointly designed with German
professional design firms**

- Direct connection spindle
- Spindle speed 15000 rpm, with 24000rpm and 30000rpm option
- Hollow oil cooling ballscrew
- Rapid feed 60m/min
- 1G acceleration



Circulating Cooling Chart



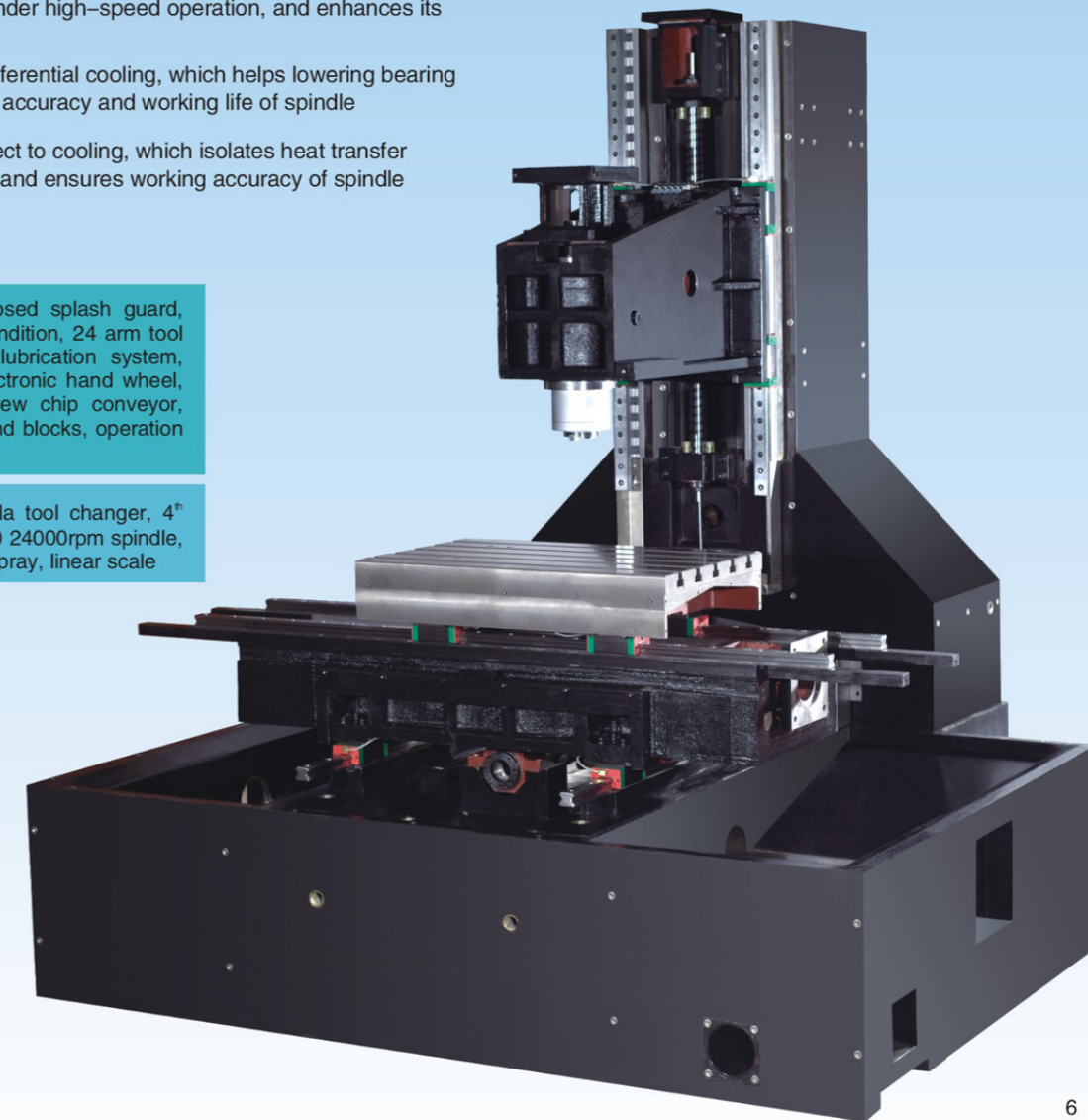
- 1 Ballscrew is hollow and subject to positive cooling, which effectively controls temperature rise of ballscrew under high-speed operation, and enhances its accuracy and working life
- 2 The spindle is subject to circumferential cooling, which helps lowering bearing temperature, enhancing driving accuracy and working life of spindle
- 3 The spindle motor base is subject to cooling, which isolates heat transfer between motor and headstock, and ensures working accuracy of spindle
- 4 High-capacity cooling system

Standard Equipment: Full enclosed splash guard, KNUTH GPlus 450 control, air condition, 24 arm tool changer, work lamp, automatic lubrication system, coolant system, rigid tapping, electronic hand wheel, air gun, handy coolant gun, screw chip conveyor, spindle oil cooler, leveling bolts and blocks, operation manuals

Optional Equipment: 12 umbrella tool changer, 4th axis, 5th axis, touch sensor, HSK40 24000rpm spindle, HSK40 30000rpm spindle, round spray, linear scale

Main features and applications

- Being jointly designed with German professional design firms, the product incorporate the design essences from various famous German factories.
- Machine body and column adopt material of high & new technology, i.e. minerals casting. The body structure is firm and stable, can effectively absorb shock caused by high-speed movement, and has the features as good shock absorbability, thermal insensitivity, environmental friendly, low energy consumption.
- The body structure has been subject to finite element analysis and optimization, and strictly complies with "Bessel points" layout, which significantly enhances structural rigidity, and ensures stable operation of machine under high-speed and high-accuracy situation.
- Direct connection spindle over high speed of 15000RPM (fitting options of 24000rpm or 30000rpm).
- Thermal isolation between headstock and spindle parts is provided, which enhances the accuracy of spindle.
- Hollow oil cooling ballscrew, which prevents thermal deformation, and ensures accuracy of high-speed continuous processing.
- High-capacity cooling system.
- 60M/min rapid feed, 1G axial acceleration, which significantly enhances working efficiency.



Technical parameters

Machine mode	VBZ700HS	Machine mode	VBZ700HS
Travel X/Y/Z	700/500/500mm	Main motor	7.5/11KW
Spindle nose-to-table dist.	70-570mm	CNC Controller	KNUTH Gplus 450
Spindle to column	530mm	Rapid feed	60000mm/min
Table dimension	750x450mm	Cutting speed	1000-12000mm/min
Table height from floor	940mm	Positioning accuracy	± 0.003/300mm
Max.Load	300kg	Repeatability accuracy	± 0.002/300mm
T-slot width	16mm	Air pressure	0.6MPa
T-slot distance	80mm	Tool changer	24 arm
T-slot number	5	Machine weight	6000kg
Taper	BT40	Machine size	2500x2500x2700mm
Spindle speed	15000rpm	Power supply and the total power	AC380V 3PH 50Hz 22KW