NEW

cooland driven in axial und radial version

SPEEDTEC BENZ JET

Coolant driven High Speed Spindle

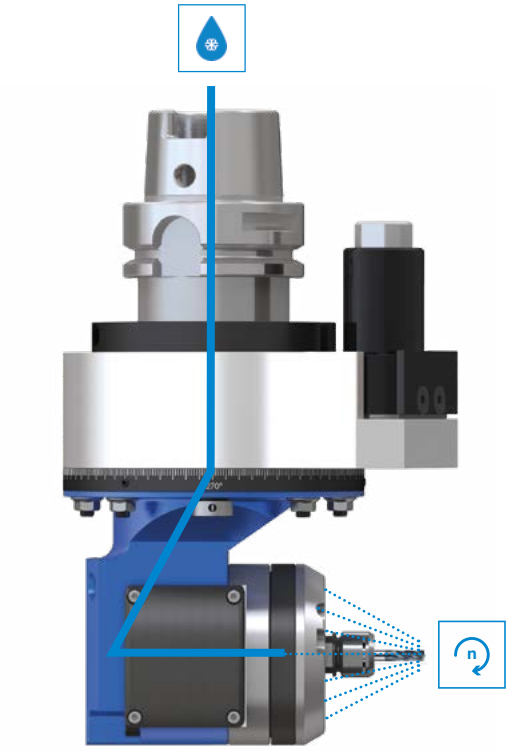
Tooling Technology Metal Machining



COLIBRI
The Metalworking Innovators

HIGH SPEED SPINDLE
BENZ JET

TECHNOLOGY



All versions of BENZ Jet use the same HPC-spindle technology, which is provided by Colibri spindles.

The high pressure coolant model uses the machine's own high pressure coolant supply to drive the tool.

Ideal for machines with high pressure capability for better machining results, longer tool life and increased efficiency. Thanks to this technology machining times can be cut up to 70%.

The HSM Jet Spindle is quickly prepared for operation using a standard tool holder with a collet chuck. Cutting tools are clamped with an ER11 spring collet.

APPLICATIONS

- HPC Jet Spindle is ideal for finishing and semi-finishing applications, using small diameter cutting tools; milling, drilling, chamfering, sanding and more
- Plug & Play: quick setup
- real-time wireless RPM monitoring, shown on an external display



TECHNICAL DATA

Recommended Operating Conditions	HPC Jet Spindle
coolant pressure [bar]*	15 - 70
minimum coolant flow rate [L/min]	16,00
rotational spindle speed [rpm]**	15000 - 45000
optimal cutting tool Ø [mm] drilling:	0.5 - 3.0
optimal cutting tool Ø[mm] milling	1.0 - 4.0
maximum output power [kW]	1.2
available machine interfaces: HSK / SK / CAT / BT / Capto	

* coolant pressure measured from spindle inlet
** rotational spindle speed is based on coolant pressure flow rate and may vary up to 7%



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BENZ JET – RADIAL DESIGN (90°)

BENZ introduces the coolant driven HPC-spindle in combination with a 90° angle head configuration, providing all the advantages of high speed machining and the increased flexibility of an angle head:

+ greater accessibility in hard to reach places
+ additional capabilities for three-axis machines
+ Jet Spindle's high rigidity and low run-out

In addition, the unit configuration significantly cuts production time by enabling both horizontal and angular milling and drilling with no need to reposition the work piece.



OPTIONS

BENZ JET angle head
without torque arm

– quick installation
– accuracy depending on taper
– no stop block required

BENZ JET angle head
with standard torque arm

– maximum accuracy
– stop block required

BENZ JET – AXIAL DESIGN

The compact design is engineered to perfectly fit the ATC or tool machine, and as with any other standard tool, is automatically clamped onto the CNC machine's original spindle.



BENZ JET PRODUCT RANGE

		Order-Nr.:		
Type	Cone	Radial design without torque arm	Radial design with torque arm	Axial design without torque arm
BENZ JET Spindle	BT40	039WHS00005HPC-105	039WHS00205HPC-105	039.080HPC
	SK40	240WHS00005HPC-105	240WHS00205HPC-105	-
	CAT40	378WHS00005HPC-105	378WHS00205HPC-105	378.080HPC
	CaptoC6	533WHS00005HPC-105	533WHS00205HPC-105	533.080HPC
	HSK-T-63	718WHS00005HPC-105	-	-
	HSK-A-63	-	711WHS00205HPC-105	711.080HPC
	ER32	-	-	E06.080HPC

	Item	
Accessories	Display	B080-001
	Clamping wrench	B136-M1GHS
	Hook wrench	B080-002

i other versions and accessories on request

1946 - 2026

M-SpeedTec-JET-F-EN-26-04

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