



# HBZ<sup>®</sup> TRUNNION<sup>®</sup>

PRODUCTIVE 5-AXIS  
MACHINING UP TO 1300mm Ø



5-AXIS HORIZONTAL MACHINING of aluminium, steel and titanium.

## OVERVIEW OF TECHNICAL DATA

	HBZ Trunnion 80	HBZ Trunnion 120
Table size Ø (NC-rotary-swivel-table)	800 mm	1,200 mm
Machining envelope (max. interference contour)	850 mm	1,300 mm
Max. axis travel X-Y-Z-axis (mm)	850 / 850 / 700	1,270 / 1,100 / 900
Max. travel speed X-Y-Z-axis	45 m/min 60 m/min (dynamic package)	60 m/min
Max. accelerations X-Y-Z-axis	6 m/s <sup>2</sup> (0,6 G) 10 m/s <sup>2</sup> (1,0 G) (dynamic package)	6 m/s <sup>2</sup>
Max. swivel range	-30° /+120°	-30° /+120°
Drive system rotary axis C	Torque drive	Torque drive
Drive system swivel axis A	2 torque drives	Dual rack and pinion motor drive system on a gear ring on both ends of the axis.
Maximum table load	1.2 t	2.0 t
Total weight	15 t	25 t
Spindle data	Tool interface: Power: Rotation speed: Torque:	HSK 63 / HSK 100 from 24 kW up to 125 kW from 6,000 rpm up to 30,000 rpm from 40 Nm up to 1,010 Nm
Control	Siemens 840D SL, Heidenhain TNC640	
Maximum workpiece size		

## THE MACHINE FOR ALL APPLICATIONS IN ALUMINIUM, STEEL, TITANIUM UP TO 1300mm Ø



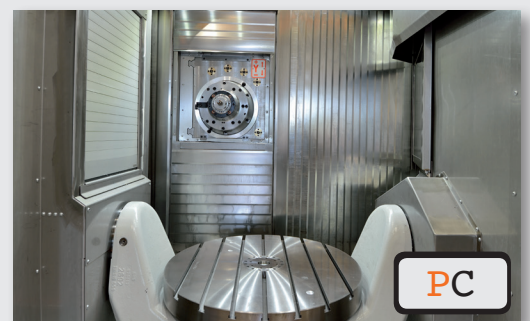
## HORIZONTAL MACHINING



- Optimum swarf evacuation
- No recutting of chips
- Improved surface quality and tool life
- Optimum machining of deep cavities
- Reduced cost per part



## POWERCUBE



- Synchronised drive system and clamping on both sides of the NC-rotary swivel table
- High dynamics and precision due to rigid machine construction
- Three-point floor mounting

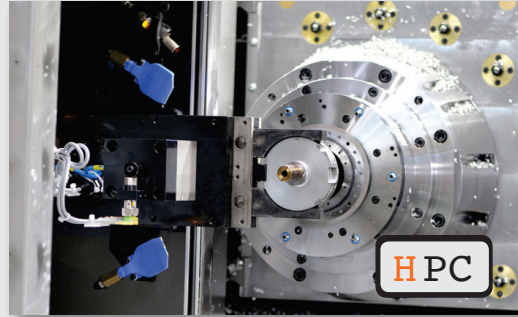
## TOOL CONCEPT



TC

- Rapid tool change
- Various options for tool management
- HSK 63 / HSK 100

## HIGH PERFORMANCE CUTTING



HPC

- The optimum spindle for any application (aluminium, steel, titanium)
- Considerably reduced machining times and cost per part
- Increased levels of productivity

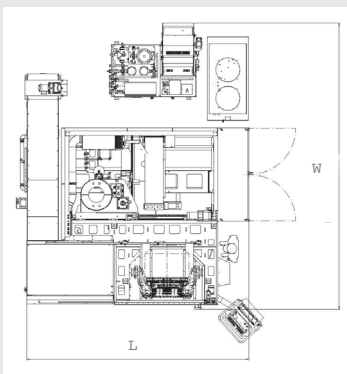


## FLEXIBLE AUTOMATION

- Options for pallet automation
- Possibility to retrofit automated solutions
- Flexible loading options
- High table payload

FA

## HIGHEST PRODUCTIVITY IN COMPARISON TO FOOTPRINT!



	L = length (mm)	W = width (mm)
HBZ TR 80	approx. 4,300	approx. 5,500
HBZ TR 120	approx. 6,600	approx. 8,500

## THE ADDED VALUE FOR YOUR PRODUCTION. EXPERIENCE AND PROCESS SOLUTIONS.

bavius has been one of the leading manufacturers of 5 axis machining centres for almost 30 years.

The four product lines

- HBZ® (Horizontal machining centres)
- PBZ® (Profile machining centres)
- UBZ® (Universal machining centres)
- GANTRY® (High portal machining centres) cover a wide range of applications.

As ETG/bavius are turnkey solution providers, the benefits we can offer include:

- Programming
- Process solutions
- Simulation
- Test machining
- Support for start of production
- Service support
- Training
- Workholding solutions
- Cutting tool and holder selection



### THE ENGINEERING TECHNOLOGY GROUP

Wellesbourne Distribution Park, Unit 16, Loxley Road,  
Wellesbourne, Warwickshire, CV35 9JY

+44 (0)1926 818 418

engtechgroup.com

sales@engtechgroup.com