

**WORLD
FIRST**



**Efficiency.
Precision.
Finesse.**

Our NBH 630^{BA} raises the bar.
In all respects.



Swivel rotary table
B to A-axis

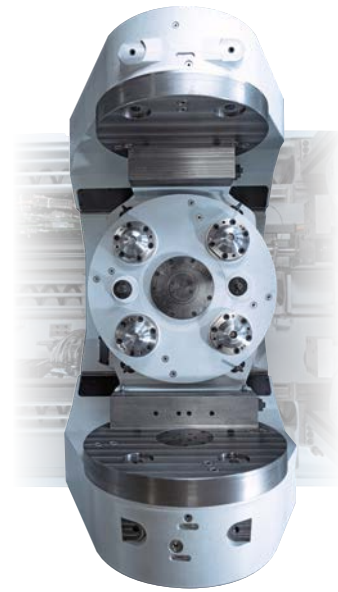
horizontal

**5
Axes**

Stepping towards the future

With a pallet size of 630 x 630 mm and the unique HÜLLER HILLE 5-axis configuration, the NBH 630^{BA} is the future of high-precision workpiece machining. Connecting the BA-axis and gear spindle enables filigree simultaneous machining, as well as impressive heavy-duty machining with the maximum torque of the legendary HÜLLER HILLE gear spindle – powerful and dynamic at the same time. The NBH 630^{BA} is perfect for precision on the workpiece, for the smallest μ and transparent production without any compromises. Talk to us about the art of mechanical engineering at its finest.

Solid. Precise. Customised. Made by HÜLLER HILLE.



Top Features

- 01**

The combination of an FEM-optimised BA-axis and gear spindle allows powerful roughing and subsequent fine machining – simultaneous capability without the inconvenience of having to reclamp the part.
- 02**

The user friendly and intuitive HMI for ergonomic machining also offers added value by making data transparent for efficient processing.
- 03**

Energy efficient operation conserves resources thanks to optimum drive design, on-demand refrigeration technology, high quality components and automatic stand-by mode.
- 04**

The service-friendly machine design ensures easy access to installation and valve technology and auxiliary units. For speedy maintenance and repair operations.
- 05**

The unique variety of magazines, as individual as the workpiece, offers full flexibility for many (60-400, depending on the version) or oversized tools. For greater process efficiency.
- 06**

The NBH 630^{BA} can be flexibly deployed as a powerful individual machine or for automation solutions with simple connection to robot handling and pallet storage systems.

Operating range	Standard	Work spindle	
		Motor spindle	Gear spindle
X/Y/Z-axis	1000 / 850 [1050] / 1150	15,000 rpm	10,000 rpm
X/Y/Z-axis rapid traverse	70 m/min	66 kW	78 kW
X/Y/Z acceleration	7 m/s ²	370 Nm	1236 Nm
A-axis swivel range	+30° bis -120°	Tool magazine	
B-axis speed	80 rpm	Plate	Cassette
Max. workpiece Ø	900 mm	60, 120	150, 200, 300, 400
Max. workpiece height	800 mm	600 mm / [730 mm]	800 mm
Max. load	900 kg	up to 325 mm	325 mm/600 mm bridging tools
		40 kg	50 kg

The NBH 630^{BA} is also available as a "milling-turning" version



Hüller Hille GmbH
Steige 61 | 74821 Mosbach | Germany

www.hueller-hille.com

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