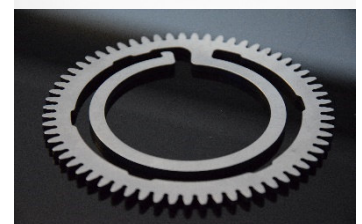
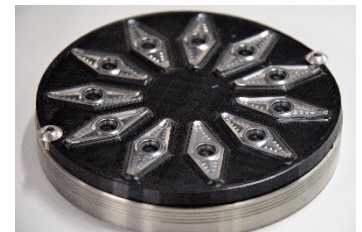
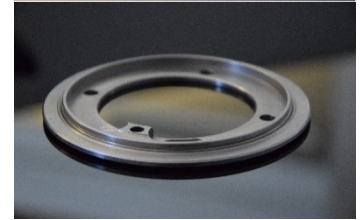
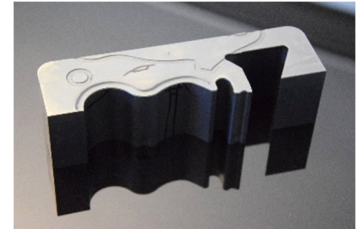


BP Smart
The universal brushing and polishing machine



Deburring, edge-honing, polishing

—
three processes combined in one machine with simplest operation

All around consistent deburring, radiusing of the contour and simultaneous polishing of the surface

The BP Smart is a universal brush polishing machine for the removal of sharp burrs and the precisely defined application of radii or contours to edges up to a part size of nominally \varnothing 260 mm. It simultaneously polishes the surface and reproduces determined results with constant accuracy. The machine is characterized by its universality and versatility and is particularly suitable for machining precision parts such as drill tips, deburring parts, stamping-, fine blanking- and coin punches as well as for targeted rounding of cutting edges on indexable inserts. With all these workpieces, the BP Smart fulfils a high surface quality and a top precision of the edge rounding.

MAXIMUM PRODUCTIVITY

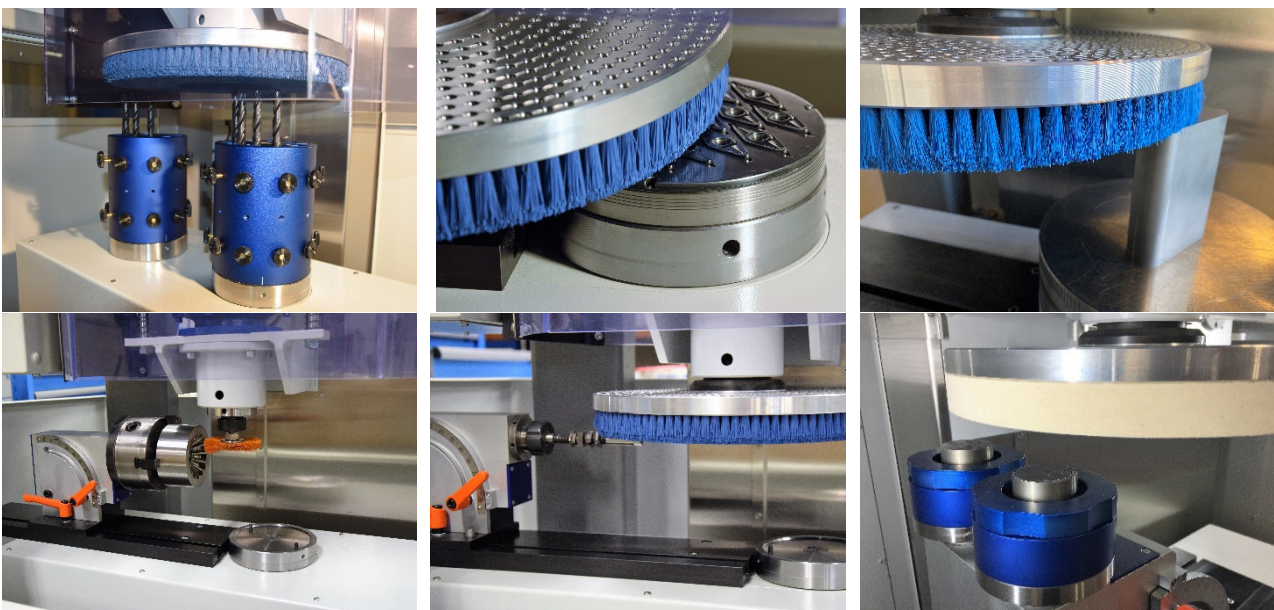
- Simple machine operation with defined machining cycle
- High flexibility due to short changeover times
- Minimal space requirements
- Option for larger workpieces with brush \varnothing 380 mm and magnetic table \varnothing 300 mm
- Option for automatic brush measurement and integrated control to store up to 99 programs.

APPLICATION

- The machine offers the workpiece-specific option for every task
- Thanks to the height-adjustable brush head, the machine is versatile for a wide range of part sizes
- The oscillating polishing table offers optimum part processing for constant edge processing
- The machine is available as a tabletop model or floor model with tub or fully enclosed, with the matching drawer cabinet available as an option.
- Optionally with a swivel spindle for honing special tools and polishing spherical segments
- Reproducible edge processing for an «exact radius», «trumpet shape» or «waterfall»
- Working with brushes with abrasive interspersed bristles or with natural bristles and polishing paste for the optimum result

CHARACTERISTICS OF THE MACHINE

- Constant and reproducible machining results
- Highest flexibility for processing a wide variety of workpieces
- Very robust design with very simple operation
- Protected work area for a clean environment, easily accessible and easy to clean
- Robust table with strong gear motor and solid guidance for the oscillating table



Technical data

Machine

Dimension Width/Depth/Height as tabletop model	mm	1200/650/1200
Total weight	kg	250
Dimension Width/Depth/Height with substructure as option	mm	1200/650/1860
Total weight	kg	320
Full enclosure	mm	1288/750/1860
Total weight	kg	420
Stroke Z-axis	mm	250 (optional bis 500)
Electrical connection	VAC; Hz	3 x 400/N/PE; 50/60
Air connection	bar	5
Oscillating polishing table (optional two)	mm Ø	120
Oscillation of the polishing table	mm, strokes/min	90, 5/1
Speed of the table	1/Min	30
Colour	RAL	7037 dusty grey / 7035 light grey / 5010 gentian blue

Brushes

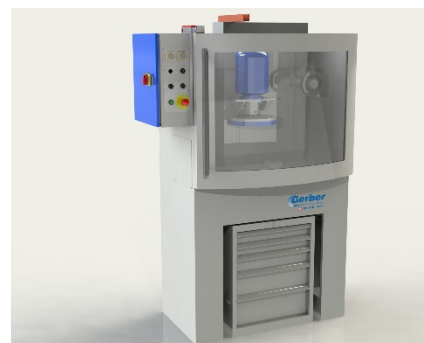
Brush diameter	mm	300
Stepless speed of the brush (reversible)	1/min	120 - 600
Main motor: three-phase current	kW	0.55 - 1.1
Brush types	Plate brush Lamella brush	Diamond-studded or silicon carbide Abrasive grinding belts

Options

Swivel spindle (for rotationally symmetrical parts)	manually adjustable	Vertical 0 ... 90°; horizontal -90 ... 0 ... +90°
Drawer cabinet Width/Depth/Height	mm	564/572/700
Automation (Industry 4.0)	/	Profibus/Ethernet/OPC-UA
Brush measurement	/	automatic
Control head	/	Control to store up to 99 programs, lamella brushes
Scope for extending	/	Controlled Z-axis, larger magnetic table, light, swivel spindle

Workpieces and their dimensions

Typical parts	/	Drill tips, cutting tools such as indexable inserts, deburring parts and coin dies
Size of parts (Ø), one-sided machining, nominal to	mm Ø	260
Option for larger workpieces	mm Ø	300 magnetic table / 380 brush on the larger Smart
Part thickness	mm	0.1 ... 120





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