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BP-Smart

The universal brushing and polishing machine



**Deburring, edge-honing, polishing –
three processes combined in one machine
with simplest operation**

BP-Smart

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

The **BP-Smart** is an 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-, fineblanking- and coin punches as well as for targeted rounding of cutting edges on indexable inserts. With all these workpieces, the **BP-Smart** fulfills a high surface quality and a top precision of the edge rounding.

MAXIMUM PRODUCTIVITY

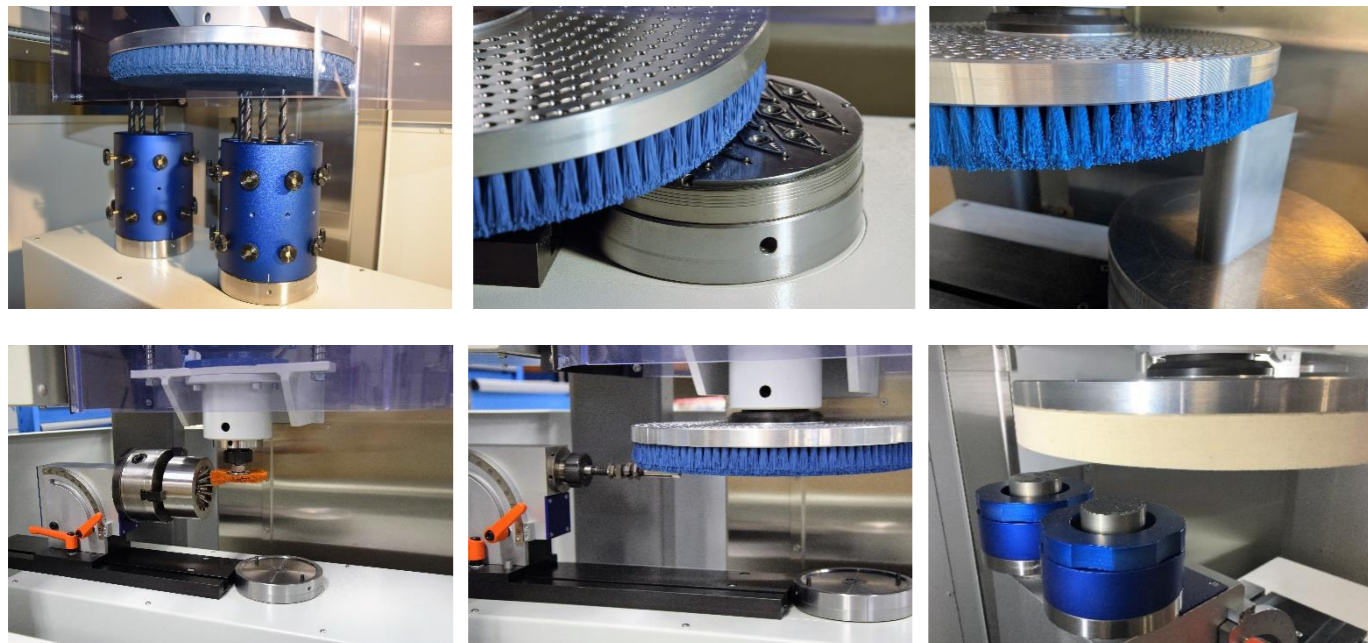
- Simple machine operation with defined machining cycle
- High flexibility due to short changeover times
- Minimal space requirements
- Option for larger workpieces with brush \varnothing 380 mm and magnetic table \varnothing 300 mm
- Option for automatic brush measurement and integrated control to store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

MAIN AREAS

- 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

LABELLING OF THE PLANT

- 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



BP-Smart 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/kVA; Hz | 3 x 400/10/4; 50/60 |
| Air connection | bar | 5 |
| Oscillating polishing table (optional two) | mm \varnothing | 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 (\varnothing), one-sided machining, nominal to | mm \varnothing | 260 |
| Option for larger workpieces | mm \varnothing | 300 magnetic table / 380 brush on the larger Smart |
| Part thickness | mm | 0.1 ... 120 |



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