

BSPower

The high-performance transfer brush deburring system

Gerber
Maschinenbau



Consistent even deburring and radiusing
of contours in a continuous process

Optimally combines de-burring, edge honing and surface polishing – three processes in one plant

The high-performance machine is equipped with one or two planetary brush heads and can deburr and polish workpieces with diameters up to 400 mm, or double-sided up to 185 mm, process-securely and evenly. It does not stop at strong burrs or the smallest contours. The solid modern construction poured with polymer concrete, guarantees high accuracy.

MAXIMUM PRODUCTIVITY

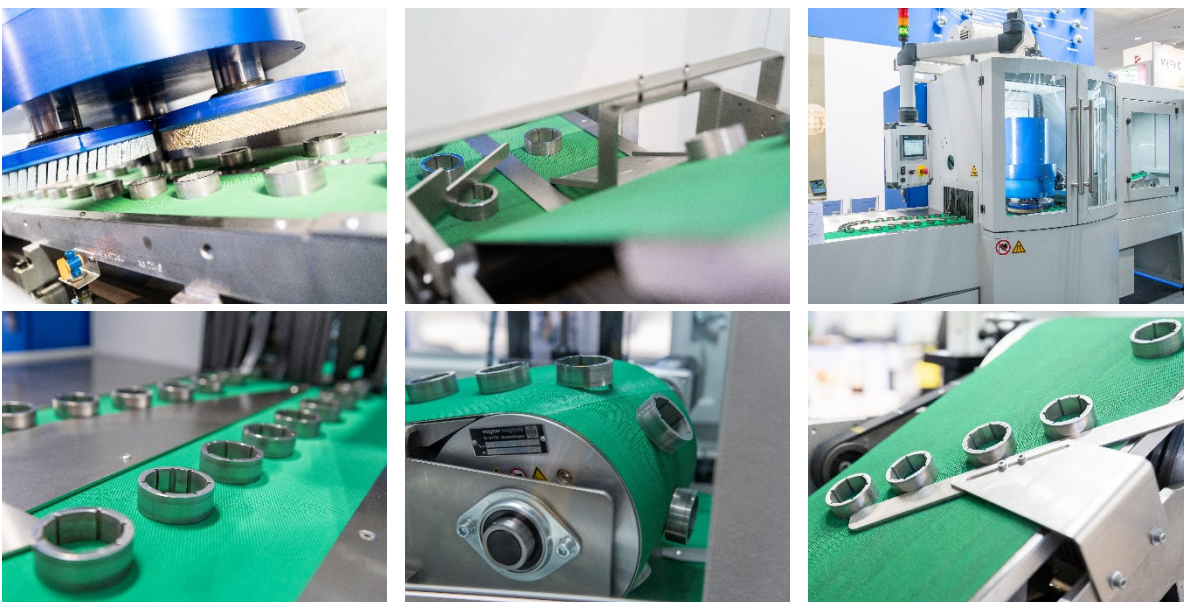
- Efficient and cost-effective deburring and rounding in one pass
- The magnet turns over wheel allows unit times < 1 second
- The conveyor feeding device is adapted to suit the range of components of the user and offers very quick changeover times
- A turnover station allows processing on both sides of the components
- User-friendliness and the simplest programming characterise this system
- Fully automatic processing
- Continuous compensation for brush wear
- Processing can take place dry or with coolant, depending on application

MAIN AREAS

- The powerful planetary brushing head produces evenly radiused edges all around
- Consistent even de-burring and radiusing of contours in a continuous process
- The machine is particularly suitable for precision parts such as valve plates, pump parts, rotors, indexable inserts as well as stamped and fineblanked parts where a high surface quality and absolute free from burrs are required.

CHARACTERISTICS OF THE MACHINE

- As 1- or 2-head machine available
- The brushes are driven using a planetary brush head platform as the tool
- The planetary brush head ensures that the workpieces passing linearly under the brushes are de-burred and radiused evenly
- The conveyor feeding device is adapted to suit the range of components of the user and offers very quick changeover times.



Technical Data

Machine

Total weight (with magnetic turn over wheel)	kg	3500
Dimension Width/Depth/Height	mm	3780/1800/2287
Stroke Z-axis	mm	250
Electrical connection	VAC; Hz	3 x 400/N/PE; 10/4
Air connection (optional)	bar	6

Brushes

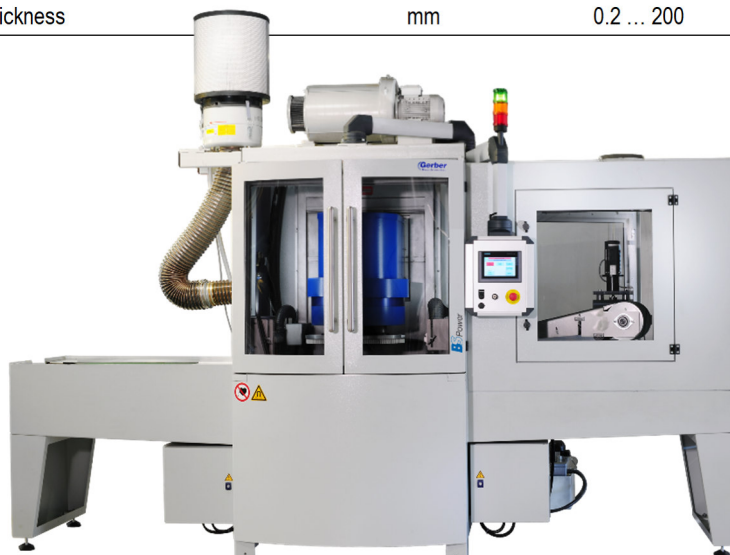
Brush diameter	mm	3 x 260
Brush speed	1/min	400 ... 2000
Brush drive power	kW	7.5
Brush types	/	SiC, ceramic or diamond-studded synthetic bristles - straight or diagonally coated
Speed of planetary brush head	1/min	9 ... 47
Control of the brush head infeed (incl. compensation for the wear of the brush)	/	Automatic
Rotational circle of the brushes (Ø)	mm	570

Machining options

Conveyor feeding device	/	With transport belts and pull-down magnet or link conveyor with workpiece carriers, cages or nests
Conveying speed	mm/sec	2 - 70
Handling of the parts	/	Manual work station, stacking magazine, vibrating conveyor, conveyor belt with feed separation, robots, etc.
Demagnetisation device for residual magnetism	A/cm	< 2
Coolant device	/	Parts and customised
Extraction	/	Emulsion/Oil/Dust
Automation (Industry 4.0)	/	Profibus/Ethernet/OPC-UA
Scope for extending	/	Rinsing device, blower unit, 2 planetary brush head plants, automatic infeed, automatic brush measurement, part measurement

Workpieces and their dimensions

Typical parts	/	Stamping and fineblanking parts, flat turned and milled parts, sintered parts, laser and water jet cut parts, indexable inserts
Size of parts (Ø), one-sided machining, nominal to	mm	400 and/or 400 wide x approx. 1,500 part length
Size of parts (Ø), both-sided machining, nominal to	mm	175 and/or 175 wide x approx. 1,500 part length
Part thickness	mm	0.2 ... 200





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