

BSEco

The compact brushing and deburring system

Gerber
Maschinenbau



Deburring, edgehoning and surface polishing

—
process-safe, efficient, economical



Optimally combines deburring, edge honing and surface polishing – three processes in one plant

The **BS Eco** is a planetary brush head plant for deburring and edge honing (solid) burrs on parts measuring up to a nominal maximum diameter of 250 mm and is an efficient and precise brushing and deburring system for cost-effective one-sided machining. The machine is particularly suitable for precision components, such as stamping and fine blanking parts, flat turned and milled parts, sintered parts, laser, and water jet cut parts as well as polishing of indexable inserts where there is a requirement for high surface quality and parts free of all burrs.

MAXIMUM PRODUCTIVITY

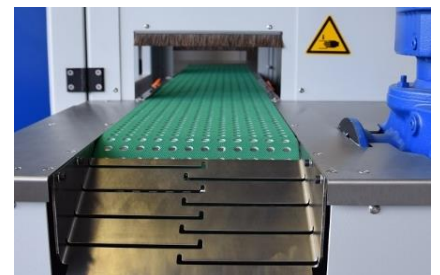
- Efficient and economical deburring
- Easy to handle
- Manually operated basic version
- Optional fully controlled with automatic brush measurement (incl. compensation for the wear of the brush)
- Modular investment with options
- Two processes at the same time in one run
- Can be automated incl. data management (Industry 4.0)

MAIN AREAS

- Consistent even deburring and radiusing of contours in a continuous process
- Efficient application of small and defined radii on precision parts from the areas of sintering, punching, turning and lapping.

CHARACTERISTICS OF THE MACHINE

- Minimum space requirement with maximum throughput of deburring and edge honing precision parts
- Part-optimised holding of the workpieces through transport belts and pull-down magnet or link conveyor with workpiece carriers, cages, or nests.
- Wide range of parts thanks to the conveyor system that is easily adapted to the parts
- Thanks to the height-adjustable brush head, the machine is versatile
- The right workpiece option for every task, whether deburring, honing, or polishing.



Technical Data

Machine

Total weight	kg	710
Dimension Width/Depth/Height	mm	2150/1000/1950
Stroke Z-axis	mm	200
Electrical connection	VAC; Hz	3 x 400/N/PE; 50/60
Air connection (optional)	bar	6

Brushes

Brush diameter	mm	3 x 150
Brush speed	1/min	300 ... 1,500
Brush drive power	kW	2.2
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)	/	Manually or alternatively automatic
Rotational circle of the brushes (Ø)	mm	320

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	0.5 – 5/1 – 10/3 - 30
Handling of the parts	/	Manual workstation, stacking magazine, vibrating conveyor, conveyor belt with feed separation, robots, etc.
Demagnetisation device for residual magnetism	A/cm	< 2
Coolant device	/	Emulsion/Oil
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 fine blanking 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	250 and/or 250 wide x approx. 1,500 parts length
Part thickness	mm	0.1 ... 90



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