

# BS Eco

The compact brushing and polishing system

René Gerber AG  
Werkstrasse 35  
3250 Lyss  
Switzerland

p +41 32 387 88 00  
f +41 32 384 32 85  
e info@gerber-maschinen.ch



[www.gerber-maschinen.ch](http://www.gerber-maschinen.ch)



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**Deburring, edge-honing and surface polishing – process-safe, efficient, economical**  
BS Eco - **Swiss precision** over an area of 2.1 m<sup>2</sup>

# BS Eco

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

The **BS Eco** is a planetary brush head plant for de-burring 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 polishing system for cost-effective one-sided machining. The machine is particularly suitable for precision components, such as stamping and fineblanking parts, flat turned and milled parts, sintered parts, laser and water jet cut parts as well as the precise radiusing of indexable inserts where there is a requirement for high surface quality and parts free of all burrs.

## MAXIMUM PRODUCTIVITY

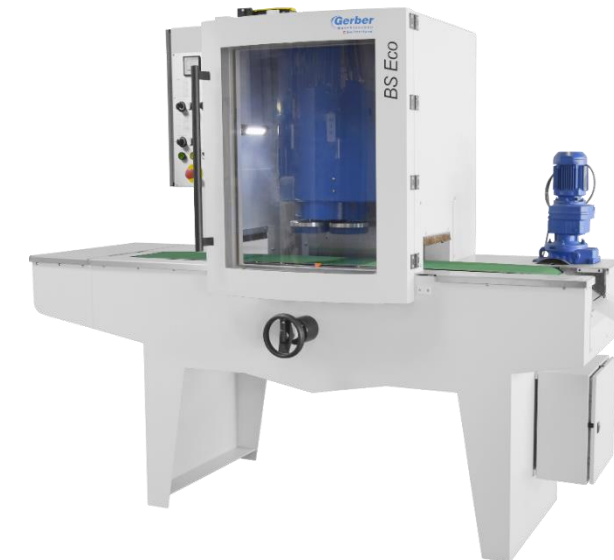
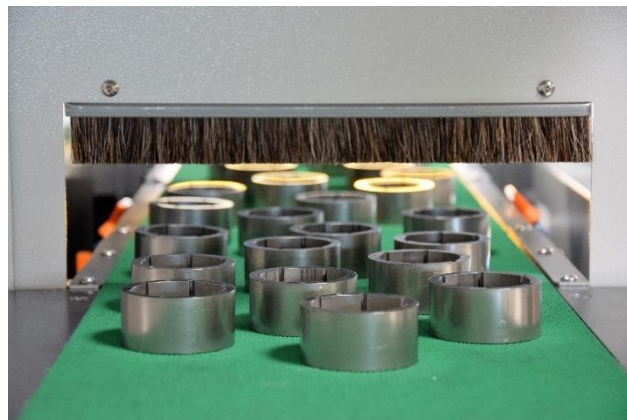
- Efficient and cost-effective de-burring
- Easy to handle
- Available as simply manually operated
- Optional fully controlled with automatic brush measurement (incl. compensation for the wear of the brush)
- Modular investment with options
- Two processes at the same time in one run
- Can be automated incl. data management (Industry 4.0)

## EXCEPTIONALLY FLEXIBLE, CONFIGURABLE AND VERSATILE

- Thanks to the height-adjustable brush head, the machine is versatile
- The right workpiece option for every task
- Planetary plant for de-burring and edge honing solid burrs
- Conveyor system with transport belts and pull-down magnet or link conveyor with workpiece carriers, cages or nests

## MAIN AREAS

- Consistent even de-burring and radiusing of contours in a continuous process
- Brushes driven by a planetary brush head serve as tools. 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.



## BS Eco Technical Data

Machine		
Total weight	kg	710
Dimension Width/Depth/Height	mm	2150/1000/1950
Stroke Z-axis	mm	200
Electrical connection	VAC/A/kVA	3 x 400/10/4
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 work station, 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 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	250 and/or 250 wide x approx. 1,500 part length
Part thickness	mm	0.1 ... 90

.... EXCLUSIVELY AT GERBER