

## CASE STUDY

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

### For the perfect cut - edge honing of cutting tools

**For us, a good cut in the case of cutting tools is not good enough - it has to be perfect! Precise edge honing for cutting tools not only gives an excellent cutting result, but also increases the service life of the cutting edge.**

The René Gerber AG brush polishing machines enable the processing of cutting tools made from hard materials such as PCD, ceramics and hard metal. The new generation of diamond brushes provides high precision when preparing cutting edges of tools and also permits simpler implementation of automation solutions. The perfect cut is guaranteed with these prerequisites!



^ Hard metal cutting tools

Processing of hard metal tools can be undertaken on different machines appropriate to the task formulation.

**The robust BP-MX** brushes off sharp edges and burrs, brushes precisely defined radii or contours on edges and at the same time polishes the surface to the finest finish.

**The distinguishing features of the high-performance BS Power** are the regular deburring, honing and polishing of the contours in a continuous process. An optimal turning station enables processing on both sides, which is employed particularly for large quantities.

**The economical BS Eco** offers the most efficient brush polishing for one-sided processing of workpieces in the smallest of space.



#### DIE RENÉ GERBER AG Engineering

From deburring to chic preparation - all from a single source.

Precise deburring, edge honing and polishing are the core competences of the René Gerber AG Company, CH-Lyss, who are among the world-wide leading specialists in the field of micro-preparation of cutting and punching tool cutting edges. The products of the Company are characterised by six decades of experience and comprehensive know-how in the field of brush-deburring and polishing.

##### René Gerber AG

Werkstrasse 35  
3250 Lyss / Switzerland  
Telephone +41 32 387 88 00  
[www.gerber-maschinen.ch](http://www.gerber-maschinen.ch)  
[info@gerber-maschinen.ch](mailto:info@gerber-maschinen.ch)



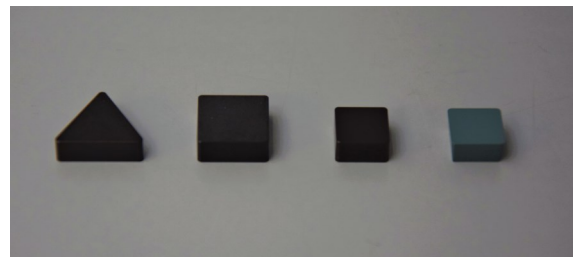
^ Hard metal parts



^ Cutting tools made of PCD (polycrystalline diamond)



If innovation meets the technical pulse of the time and a product has been on the market for years, then this may be considered a success. The established BP-MX is used for edge and cutting preparation and can be designated as a robust and tried and tested installation.



^ Ceramic workpieces

### Process example

<b>Part designation:</b>	PCD Cutting plate Ø 11 mm
<b>Material:</b>	PCD (polycrystalline diamond)
<b>Industry:</b>	Tool manufacturer
<b>Task formulation:</b>	Edge honing R=0.010 1/- 0.0025 mm
<b>Brushes:</b>	Diaflex, diamond-studded
<b>Workpiece handling:</b>	Bench for workpiece carrier Ø120, For 36 workpieces / carrier
<b>Processing time:</b>	6 minutes
<b>Output:</b>	576 pieces / hour at 80% productivity



«We offer the perfect cutting edge for a maximum service life, manufactured on our brush polishing machines.»

Marc Schori CEO, René Gerber AG

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[info@gerber-maschinen.ch](mailto:info@gerber-maschinen.ch)