

CASE STUDY

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Drill bits in focus: Perfect cutting edges increase the service life

The long-life formula for drill bit cutting edges is a specialist area of René Gerber AG, who impose the demands on themselves to improve continually in this field and to take the reputation of the specialist into account.

Introductory remarks

At first glance it seems illogical to round the cutting edge of a durable drill bit. It would even seem that the tool can no longer fulfil its task if the cutting edge is no longer razor-sharp. The results of edge honing demonstrate the opposite, however.

Edge honing results in considerably less chipping at the tip. The tools thus run smoother, more targeted and swing less. The result is higher precision, better surface quality and finally, greater process reliability. Furthermore, significantly higher cutting speeds and feed rates can be achieved with a rounded cutting edge, which also positively support efficiency in the process.

in a longer life-time for drills, which has a clearly positive economical effect.

The drill tensioning drum as an option for the brush polishing machine

The drill tensioning drum can be chosen as an option for both the BP-MX brush polishing machine, the product for large volumes as well as for the flexible BP-Smart. Retrofitting an existing installation is also possible.

Are you a specialist in regrinding drill bits and are looking for a more efficient processing or do you have an in-house grinding shop?

We are specialists for efficient processing and align the drill tensioning drum and the workpiece mount exactly to your requirements.

Don't hesitate and allow us to advise you today about a brush polishing machine and retrofitting your existing machine.

Solution

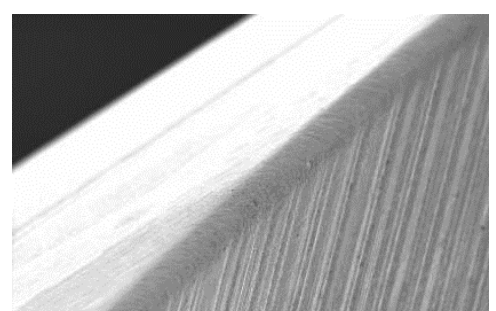
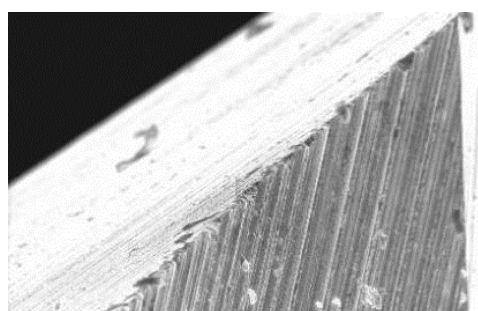
The René Gerber AG Company, CH-Lyss has for years focussed on honing hard-metal cutting tools. The service life can be significantly increased both for drilling and milling equipment, as well as for punching tools. This results

RENÉ GERBER AG Engineering

As technology leader in the process development and construction of brush deburring and edge rounding equipment, René Gerber AG has been providing solutions in the sector of deburring and reproducible edge rounding for its customers for over 60 years.

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The BP Smart for small or middle series and also for regrinding service:



Process

Part designation:

New and reground drills

Material:

Hard-metal

Industry:

Tooling, punching, and automobile industry

Task formulation:

Edge rounding

Brushes:

Diaflex with diamond-studded brush

Workpiece handling:

10 pieces in tensioning drum

Processing time:

20 seconds for a uniform rounding of 0.02 mm

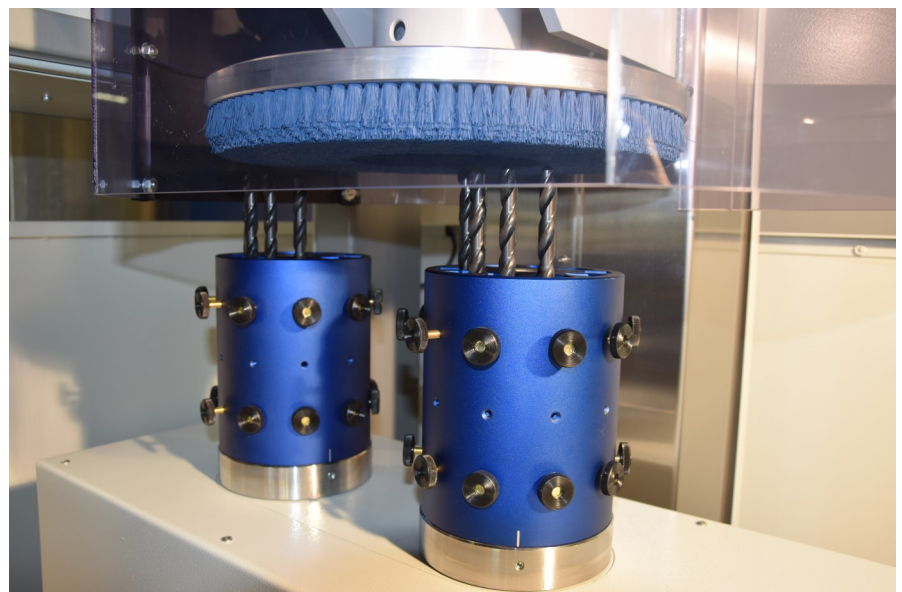
Output:

10 pieces in 20 seconds (2 seconds per piece)

Reproducibility:

0.0025 mm

The BP-MX with five-fold capacity for tool manufacturers with large quantities:



«The long-life formula for drill bit cutting edges is our specialist area and profits our customers.»

Marc Schori CEO, René Gerber AG