

CASE STUDY

On the move in new & automated cutting edge preparation for indexable inserts

In large-scale production, process stability is one of the most important requirements. With the newly developed combination of diamond brushes, process control and automation, we offer a high level of process stability, which is ensured over the large-scale production. Only the coordinated combination of the elements involved in the process brings the desired result. We at René Gerber AG bring the elements together in the right way.

It is obvious that automation not only increases the production volume, improves the production process and ensures the efficiency of the material flow, but also reduces production errors. Especially with higher quantities and batch sizes, automated production is an important issue in order to manufacture efficiently and cost-effectively.

Due to the networking of process chains, electronically controlled devices are penetrating more and more into working areas and thus bringing new possibilities in production. Robots take over monotonous work and increase economic efficiency in large-scale production. What is already clear today, however, is that robotics play an important role in the Industry 4.0 strategy

in all companies that operate in a competitive environment. Our installation is prepared to meet the requirements of fully-developed automation.

From simple automation with a low autonomy time, to full automation with automatic read-in and read-out of order data (via an RFID chip), to complete integration into your customers ERP, we offer all variants.

Simple tasks are ensured by our own automation. For maximum automation with maximum autonomy, we work with specialised automation partners. This ensures that we can offer our customers an absolute up-to-date solution.

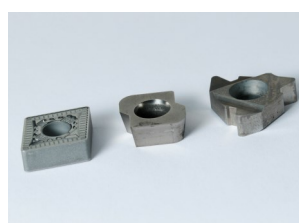
THE RENÉ GERBER AG Mechanical Engineering

With a consistent focus on the special fields of de-burring, honing and polishing, we, as a manufacturer of honing and polishing machines in Lyss, Switzerland, successfully build brushing and face polishing systems for the automotive, coin, sapphire, tool, stamping and watch-making industries, as well as for medical and micro technology, and also for gearboxes and engines.

RENÉ GERBER AG was founded in 1955 and has since then consistently developed the processing of hard and ultra-hard materials. Today Gerber is one of the leading suppliers of edge-preparation and polishing machines for carbide cutting inserts.

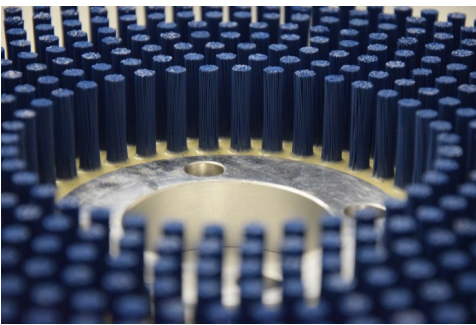
With service support locations and branches in 17 countries, with whom we closely cooperate, we seek to be close to our customers in order to respond to their requirements.

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Further, even further

Thanks to our extensive knowledge of bristles and brushes, we at René Gerber AG are able to make the right and efficient brush selection for a wide range of applications. With the "D-Flex" brush series, we currently have a new addition to our product portfolio which, in also offers a four times longer service life.

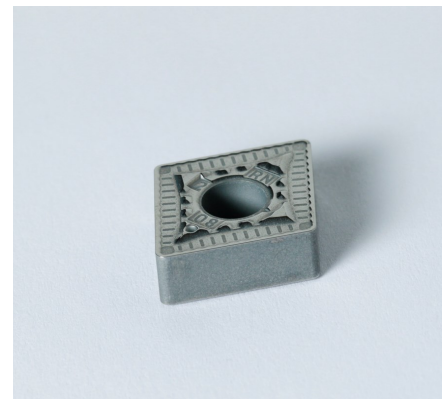


This puts us in a new league of edge preparation for indexable inserts using diamond brushes.



When factual knowledge is no longer enough

Procedural knowledge today gives us the ability to apply the learned content of our numerous process experiments to complex tasks. In this way, results can be reproducibly ensured today with regard to the radius of the edge honing as well as the K-factor.



Automation preparation

The machine is prepared to meet all customer requirements from a simple workpiece carrier unit to a fully developed automation with automatic changeover.

Machining under oil

The oil is fed to the process for cooling and cleaning via a central oil filter system of one filter per installation. This results in the highest surface quality, long service life of the brushes and a constant process.

Accurate brush measurement +/- 0.02 mm

The brushes are measured tactilely over 180° at two points and the average of the measurements gives the brush length.

3 Machining steps in one programme

Different immersion depths, process section times, brush and table rotational speeds.

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