

SUCCESS STORY

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The solution without any rough edges: Deburring valve plates

Individuality has always had rough edges. Be that as it may. But from a technical viewpoint, the René Gerber AG Company prefers to focus on better production planning through reliable functionality of the components rather than on an individual with rough edges.

Introductory remarks

Deburring is an important component of the process chain. Burrs often occur in the machining and manufacturing process of workpieces, and these have to be removed to ensure functionality and durability of the latter. As technology leader in the process development of brush deburring and edge honing equipment, René Gerber AG has been providing solutions in the sector of deburring and reproducible edge honing for its customers for over 60 years. We consider it as our requirement to offer an economical and technically feasible solution with the right Gerber product, in order to remove sharp edges and unwelcome burrs, as well as performing precise edge honing.

Starting point

The deburring story had already started in the nineteen-eighties. In those days pieces were stamped and then deburred in order to exclude the risk of injuries. Today, the process of deburring and edge honing goes much further. Certainly, suppressing the risk of injury continues to be important during

transportation of the pieces and their assembly, but today the focus is on reliable functioning of the components as well as protecting the workpieces.

Solution

Often, the functionality can only be guaranteed if the burrs are removed from the workpieces, and they wear out far less rapidly. Furthermore, the cutting edge preparation and brushing of the surface is a mandatory requirement for positively influencing the adherence of the coating. A good coating is of no use at all if the workpieces are not appropriately prepared or manufactured in advance.

The necessary process reliability in large-scale productions with today's "zero-error philosophy" is only possible with absolutely reliable processes. The focus lies especially with deburring with its different burrs. We at René Gerber AG understand how to offer our customers perfect deburring, edge honing and polishing, using our long-standing deburring know-how.

THE RENÉ GERBER AG

Mechanical engineering

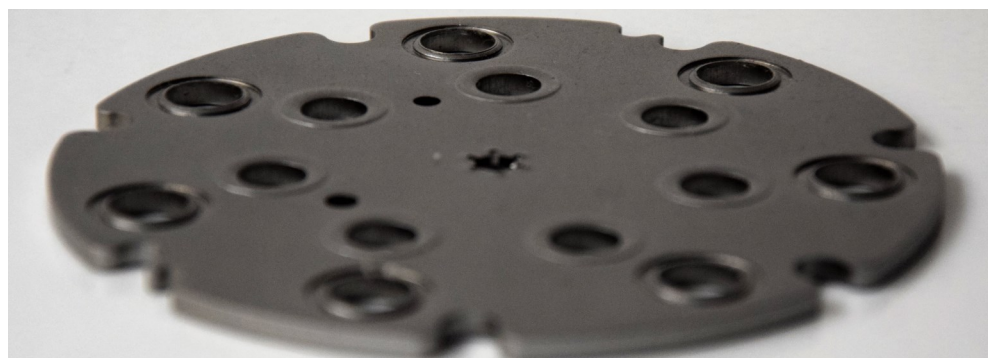
RENÉ GERBER AG was founded in 1955 and initially successfully manufactured honing and polishing machines for the Swiss watch jewel and sapphire crystal industry. The engineers at René Gerber AG have meanwhile consistently advanced developments in the machining of hard and ultra-hard materials.

Today, Gerber is one of the leading suppliers of edge honing and polishing machines for carbide inserts.

With service centres and agencies in 17 countries, with which we maintain close cooperation, we seek close proximity to our customers so that we can continuously respond to their needs.

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Brush polishing machines BS Power and BS Eco

The René Gerber AG BS-products line offers the solution. Brushes driven by a planetary brush head serve as tools. The planetary brush head ensures that the workpieces running linearly under the brushes are uniformly and completely deburred and edge rounded.



BS Power with its wide belt ensures a high output and processes valve plates that pass through with a diameter of up to Ø 400 mm. Its smaller sister, the BS Eco fills the gap as an efficient and cost-effective solution for smaller quantities with a diameter of up to 250 mm.



A clear economical benefit is required from efficient deburring and reproducible honing:

- ready-to-assemble parts
- absolutely reliable functionality
- improved production planning

Marc Schori CEO, René Gerber AG

Process

Part designation:

Valve plates for compressors

Material:

Stainless steel

Industry:

Industrial gases, oil refineries

Task formulation:

Deburring and honing of edges

Brushes:

3 finned brushes for rough deburring

3 Tynex Ø250 units interspersed with SiC for honing

Workpiece handling:

Conveyor system with transport belt and pull-down magnet or link conveyor with workpiece carriers/cages/nests. Turning station for processing on both sides.

Processing time:

90 seconds wet-processing

Output:

25-500 pieces / h, depending on Ø, both sides



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