

Press release

dü From pre-sanding to the surface finishing of sheet metal parts

hü **Everything from one
source – including**

uz **process consultancy
GEWA Blechtechnik puts its faith in boeck tools**

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Any company that wants to produce high-quality sheet-metal parts must constantly work on its processes and modernise the production facilities. This applies in particular to the finishing steps such as primary deburring, edge rounding and surface finishing. GEWA Blechtechnik has created the machine requirements to this end in the form of a WEBER grinding and deburring machine for the wet processing. Where the tools and abrasives are concerned, the Austrian company relies on the expertise of boeck GmbH from Leipheim and receives complete consultancy concerning the sheet metal deburring process chain.

Whether it concerns square, round or curved products, large series, small series or individual parts, from simple sheet metal cutting to complete housings - GEWA Blechtechnik GmbH is one of the leading contract manufacturers in the Austrian metal industry, not least by virtue of its diverse manufacturing capabilities. At the Ried im Traunkreis site the sheet metal experts mainly manufacture for users from the electronics industry as well as the machinery and automotive sector at their 5,000 m² plant, with their workforce of some 65 employees.

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Date: 17.07.18

Pages: 10

The company regularly invests in production facilities, whilst opting for state-of-the-art technology in order to meet the high quality standards of the various industries.

Collaboration of experts to ensure perfect results

GEWA uses a WEBER metal grinding machine from the NLC series for the deburring, edge rounding and surface finishing of sheet metal parts. "Thanks to the machine's wet grinding technology, we can easily and safely machine steel, stainless steel and aluminium using the same machine. Even greasy parts are no problem", according to Walter Zwicklhuber, Managing director of GEWA Blechtechnik GmbH.

"High-quality tools are key in the area of wet machining in particular to ensure long service lives and good results. boeck GmbH is your competent partner throughout the entire process chain. Here the consultancy extends well beyond the selection of the abrasive materials.

They also provide us with help and advice in the area of process optimization. Thus, for instance, machine and tool parameters such as cutting speeds and feed rates are recommended and tested together."

Here boeck GmbH can draw on many years of experience and expertise. The team of experts headed by the engineers Marc and Jochen Böck develops and produces tailor-made tool solutions with great passion and dedication for sheet metal deburring - ranging from slag removal and rough grinding through deburring, rounding and oxide removal to surface finishing.

The tools are manufactured on machines we develop ourselves with a high degree of automation. The structured processes during both production and storage facilitate high quality goods and rapid delivery of tools.

“GEWA has a state of the art system in the form of the WEBER grinding and deburring machine. “With our rollers specially developed for wet-working grinding and deburring machines, we try to optimally structure the processes in terms of the costs, quality and time for GEWA”, according to Dipl.-Ing. (FH) Dipl.-Kfm. (FH) (Graduate engineer, graduate of business administration) Marc Böck, Managing Director of boeck GmbH.

We have our noses in front in the field of wet machining

Walter Zwicklhuber: "boeck's deburring rollers offer very good levels of performance - especially in the field of wet machining. This was particularly important to us. Compared to other tools, we achieve improved abrasion performance and longer tool lives whilst also offering excellent value for money." This performance facilitates the production of novel edging material which is laser cut on a machine developed in-house by boeck. The special cuts of the flaps seal the edges ensuring no water can penetrate into the flaps. In addition, the high density of the abrasive cloth and complete wearing away of the flaps up to the core diameter contribute towards the long service life of the tools.

Due to the non-contact cutting by laser, the individual flaps also lose no grains in the abrasive cloth, as would for instance be the case during punching.

In conjunction with the arrangement of the abrasive cloth flaps in the direction of grinding or deburring, this leads to a stronger edge rounding. An additional quality characteristic: The deburring rollers are made of one piece without segmentation and therefore very stable. The balance quality of G 6.3 ensures very smooth running.

GEWA uses deburring rollers with a diameter of 250 mm, a width of 260 mm and a receiving bore especially for use on WEBER deburring machines. boeck offers various types of abrasive cloth in its portfolio, depending on the workpiece and the desired deburring and edge-rounding results: The "Brown Edition" is the allrounder for all types of sheet metal." In addition, the "Grey Edition" is suitable for rounding edges on components made of aluminium and plastic. Customers requiring a very high abrasion performance or a marked level of edge rounding should resort to the "Purple Edition".

Marc Böck: "We have initially developed our own slit pattern for different requirements. We can thus achieve a higher level of contact pressure and longer service lives depending on the slit patterns used. There are also suitable solutions for edge rounding of small cutouts and boreholes or for less aggressive grinding."

They can be supplied within the shortest space of time

GEWA's experts depend on boeck's expertise not only for the rounding of the edges, but also for the upstream and downstream process steps.

For the primary burr removal, GEWA uses abrasive cloth belts of the Leipheim-based company in different qualities and granulations. "The question of which abrasive fabric belt is suitable for the process depends on the desired abrasion performance and the material to be machined. boeck always has the right equipment ready to hand and can supply us with the required belts from its warehouse within a very short time," states Tobias Panhuber, Purchasing Manager at GEWA Blechtechnik GmbH.

In addition to different grains, the user can choose between different abrasives for the abrasive cloth belts. Whether for universal use or an aggressive but cool grinding result, for a fine grinding pattern with a good cutting performance or a high level of material abrasion at a low machining temperature, high durability and good surface quality - there is something for every requirement here.

The final grinding touches

Where the surface finishing is concerned, GEWA removes the last scratches using boeck's nonwoven belts. "In this process step as well, we are very satisfied with the consultancy and the tools provided. Depending on the workpiece and the desired result, various surface finishes are possible thanks to the different nonwoven belts employed", according to Tobias Panhuber. In the same way as the abrasive cloth belts, boeck also stocks the nonwoven belts in large quantities for other grinding and deburring machines and can thus respond rapidly to orders.

“We have a supplier in boeck that ideally advises us on tools throughout the entire process chain.

From the primary burr removal through deburring and edge rounding to the surface finish, we feel we are very well looked after there. We require a strong partner especially for our WEBER wet grinding and deburring machine. This is because we can only achieve long service lives and consistently high performance for our processes using state-of-the-art tools”, according to both Walter Zwicklhuber and Tobias Panhuber.

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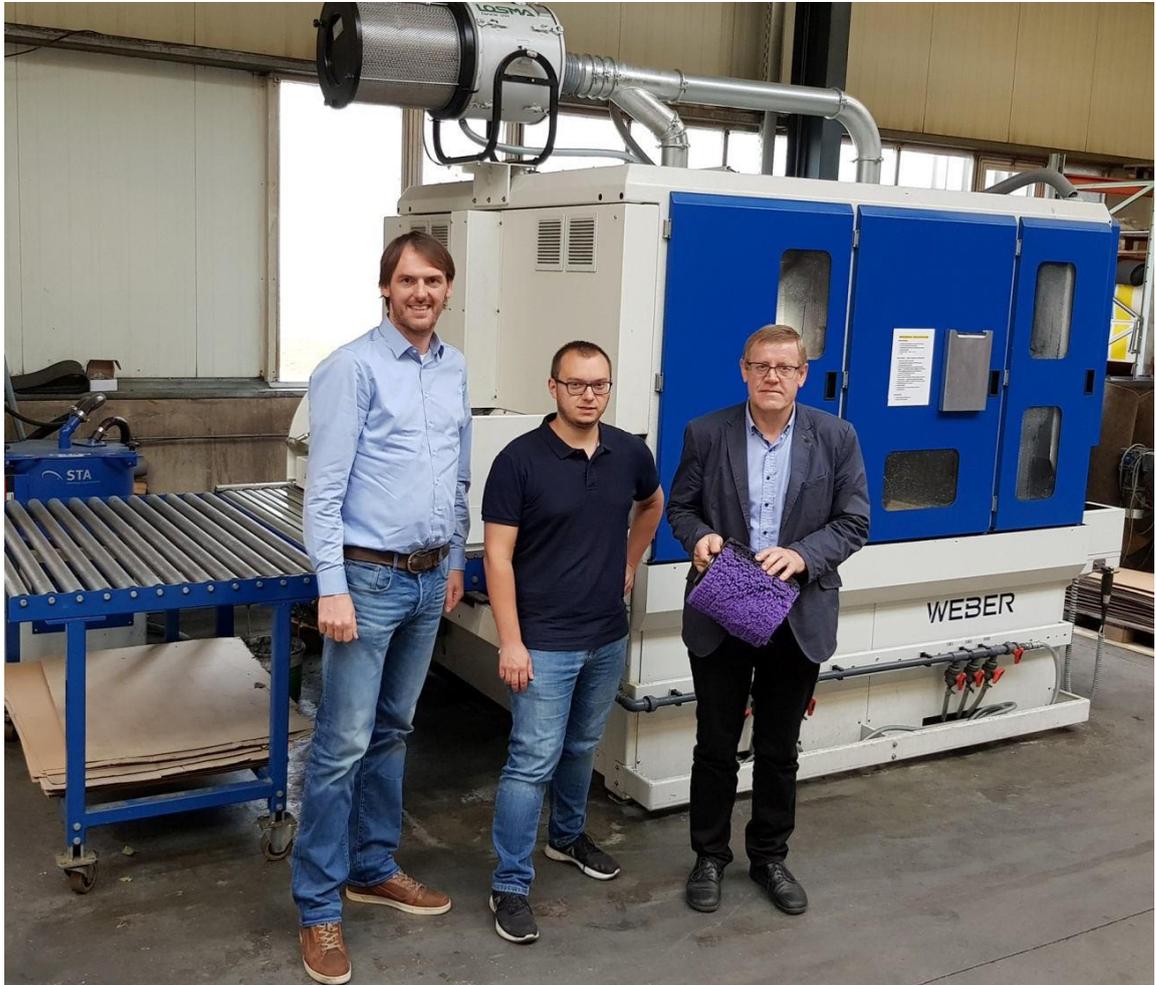
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Photograph 1: Sheet metal machining experts (from left to right): Dipl.-Ing. (FH) Dipl.-Kfm. (FH) Marc Böck, Managing Director of boeck GmbH, Tobias Panhuber, Purchasing Manager at GEWA Blechtechnik GmbH and Walter Zwicklhuber, Managing Director of GEWA Blechtechnik GmbH.

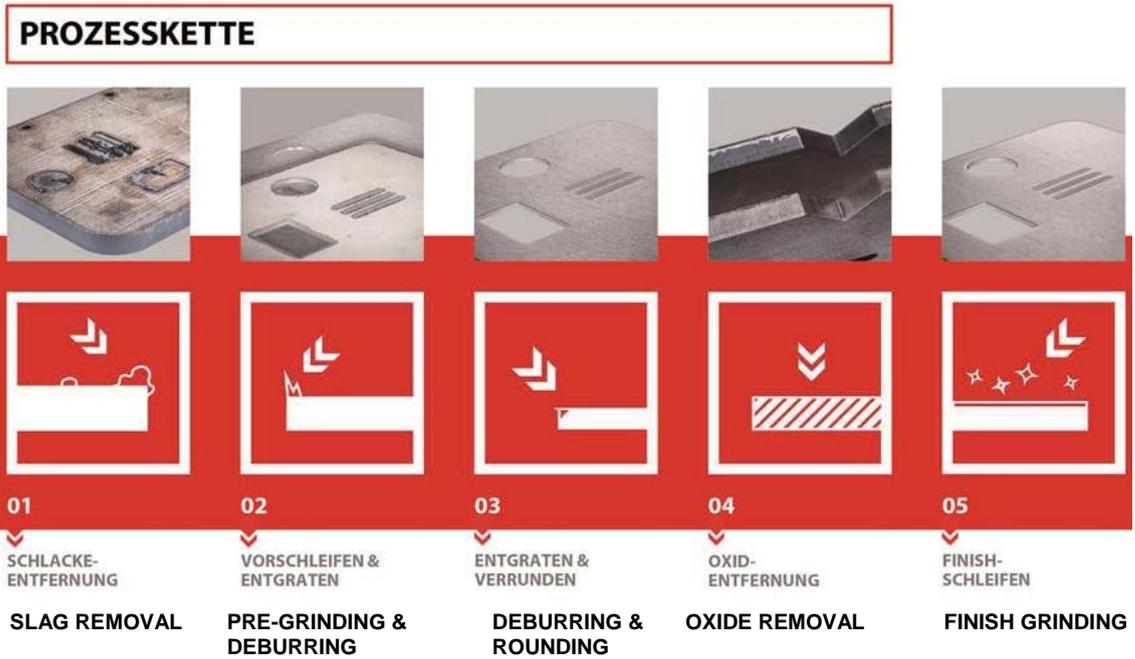


Photograph 2: GEWA uses deburring rollers which were specially developed for wet machining.



Photograph 3: Using GEWA's deburring rollers, GEWA achieves good abrasion performance combined with a long service life.

PROCESS CHAIN



Photograph 4: boeck develops and produces tool solutions for the entire sheet metal deburring process chain.



Photograph 5: GEWA also makes use of boeck's tools and expertise for primary deburring and surface finishing. Photography by: boeck GmbH