

Deburring

EdgeBreaker® wins new business

Autz + Herrmann closes gap in sheet metal process chain.

Heidelberg, Germany – “Sheet metal unlimited” is the new motto of Autz + Herrmann. With this, the company founded in 1909 aims to express its capabilities spanning across all sheet metal processes. However, before unveiling its new “Sheet metal unlimited” claim to the market, Autz + Herrmann first had to do its homework.

Up until then, the market was not entirely aware of this process. “We were not initially as successful as we could have been with some new customers because we did not explicitly include edge rounding in our portfolio,” reports Friedrich. Since 2021, Autz + Herrmann has worked with the Laserhub platform, where edge rounding is a standard requirement. This prompted the

This is both more ergonomic and more cost-effective with the EdgeBreaker® than by hand.” The quality is impressive: “We have a new medical technology product made of 5-millimeter-thick aluminum (0.19 in). This is difficult to laser-cut and relatively delicate. However, the EdgeBreaker® can also process this material very well and afterwards, the low-quality side ends up looking



This is how it should look!” - Stefan Sauter (center), ARKU Sales, and Florian Friedrich (right), Technical General Manager at Autz + Herrmann, are satisfied with the edge processing by the EdgeBreaker® 6000.

“This meant that we also had to close various gaps in our process chain,” says the Technical General Manager, Florian Friedrich. Deburring and edge rounding, in particular, were identified as key gaps.

Heidelberg sheet metal specialists to purchase an EdgeBreaker® 6000 from ARKU. The deburring machine has been developed specifically for the demands of laser cutting sheet metal companies and is fully focused on flexibility.

“Now we work exceptionally quickly and deliver the required quality”

Daniel Gabriel, Head of Punch-Laser Processing and Programming, is highly impressed with the EdgeBreaker® 6000: “We used to need an employee with a grinder who took several hours, now the process is incredibly fast,” he says and continues: “Laser cutting makes burr formation more likely as the material thickness increases. Sooner or later, you must rework the material.

better than the good side.” When manufacturing other products, employees used to have to closely examine the quality of the laser cutting results. Deburring has made the process more reliable.

Yet the new deburring machine actually proves its value far earlier in the process. “During the sales discussions, we no longer have to ask customers whether the edge rounding is truly necessary. Now, the service is simply part of our portfolio,” Friedrich explains.

The EdgeBreaker® 6000 at Autz + Herrmann is also equipped with the ARKU Wizard: The intelligent software connects the workpiece, tool and machine data. This means that operators

CONTENTS

DEBURRING:	P. 1, 2, 3 and 4
LEVELING:	P. 3 and 4
COIL LINES:	P. 2



Changing times.

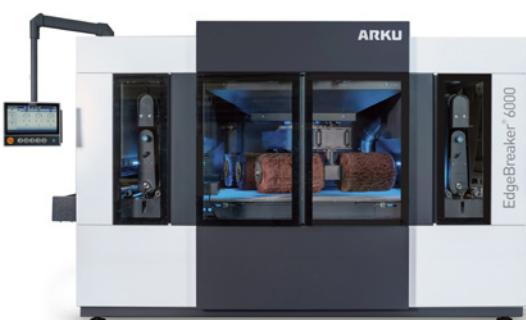
The war in Ukraine is a massive upheaval for many people. The human suffering in the center of Europe moves us. In response, our trainees have organized a remarkable initiative for refugees from the Ukraine (page 4).

As a company, we also have to adapt to this new situation. Business relationships were cut off from one day to the next and supply chains have been further disrupted. Processing our orders has become a key issue.

In times of material shortages, ABP has successfully improved its sheet metal quality with a leveler (page 3). At the ARKU Info Days in Baden-Baden from 30 May to 3 June, we will demonstrate exactly how you also stand to benefit. As always, you will have the opportunity to experience something new: For example, how the interaction between the tool and the machine makes deburring even more powerful and efficient.

We look forward to seeing you there!

Albert Reiss
President & CEO



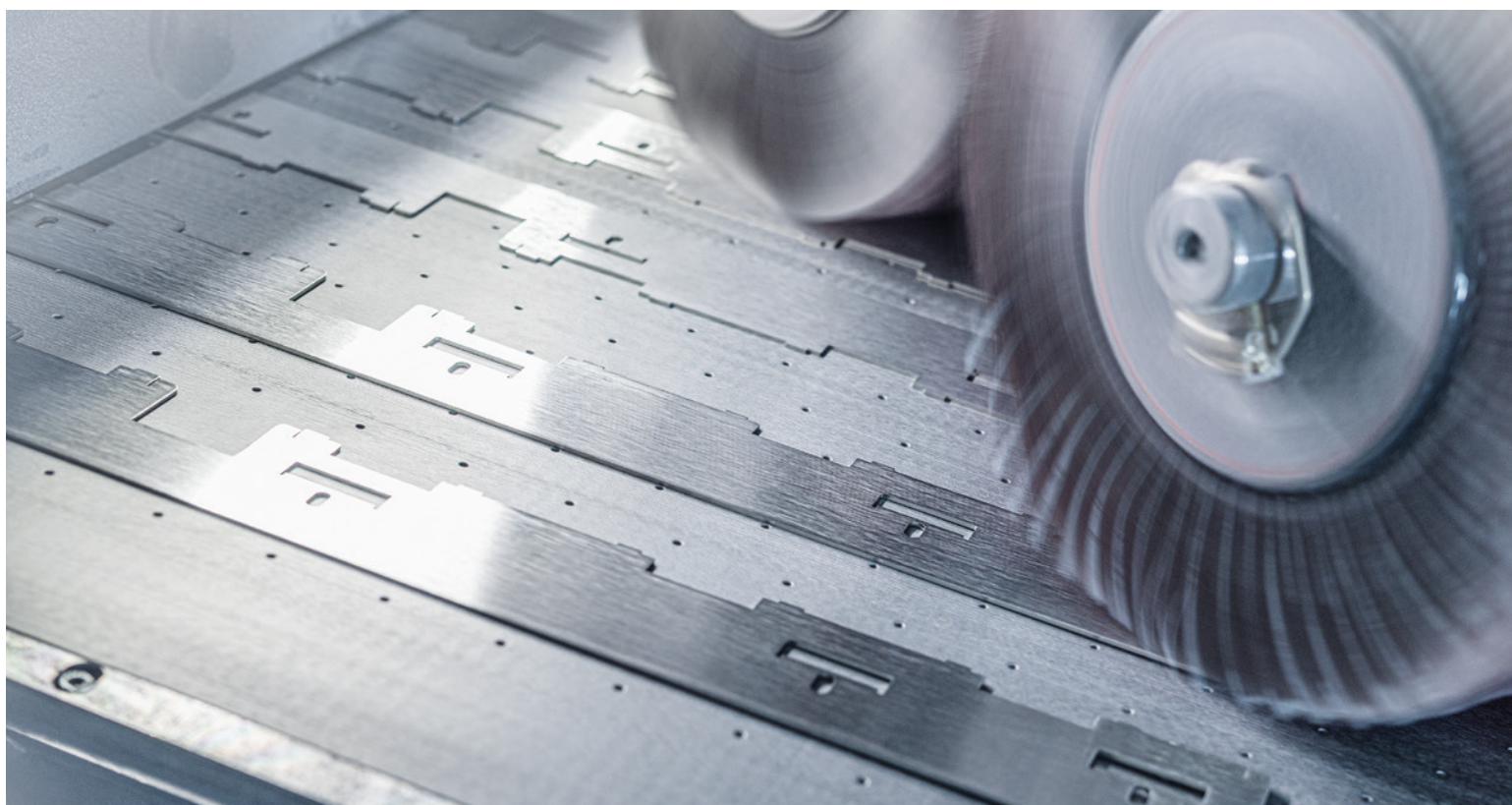
EdgeBreaker® 6000

Continued on page 2

only have to enter the part properties and the desired processing result. With the help of the software, the machine automatically adjusts its configuration to achieve the expected result with the best possible processing speed. The machine subsequently stores the values based on this experience.

All in all, Friedrich is highly satisfied with the purchase. In his experience, deburring and edge rounding are unwillingly included in cost estimations or often simply ignored. "However, these procedures are a fundamental prerequisite today. We can handle this processing step in a way the customer wants," he concludes.

www.autz-herrmann.de



Using the vacuum suction table, the EdgeBreaker® 6000 can also hold and effectively process smaller or narrow workpieces.

Coil lines

An overview of feeding lines

Specialization in feeding lines increases the cost-effectiveness of presses, profiling systems and lasers.

Baden-Baden - Coil lines have a major influence on the reliability and, ultimately, the economic efficiency of the downstream system. Depending on the application, ARKU distinguishes between three types of installations. Each one is completely specialized for its intended use. We provide you with a brief summary of the key special features:

Press feeding lines

ARKU press feeding lines can be integrated into all manufacturers' press lines. The short version with the

CompactFeed® feeder-leveler saves space. This enables the press line to be shortened by up to 10 meters for thick material. The long EcoLine® version is designed to deliver the best possible leveling results. This is important for high-strength sheet metal, for example.

Coil laser lines

ARKU offers TRUMPF coil laser lines designed for flexible sheet metal processing. The laser cuts can be nested better on strip material than on blanks.

This can reduce material costs by up to 30%.

ARKU cut-to-length lines that produce blanks for laser cutting companies are also available with the TRUMPF storage interface.

Coil preparation lines for profilers

The third type of ARKU feeding lines consist of coil preparation lines for profilers. These rapid processes require short coil change times and good le-

veling results to achieve good forming results with reliable processes. To this end, ARKU's customers rely on double-end decoilers and coil end welders. Together, they reduce coil set-up changes by 20 minutes on average.

All of the ARKU systems around the globe share one thing in common: A 24-hour hotline and service support from Germany, China and the USA.



An ARKU feeding line user in the HVAC technology sector needed a cut-to-length line. This space-saving and error-free system makes an effective contribution to producing a diverse range of sheet metal blanks.

One glance...
One click



ARKU webinars

ARKU shares in its machine expertise and provides you with professional training with its range of webinars. Do you have questions that a technical presentation does not cover? ARKU consultants are happy to take the time to discuss the right solutions for processing procedures with you. Register now for the next webinar: www.arku.com/webinars

Leveling

Clear competitive advantage during the material crisis

The contract manufacturer ABP adds the FlatMaster® to its machine portfolio.

More than just a contractor: Located in Schopisdorf, Germany, ABP - Innovative Blechbearbeitung GmbH offers services covering the complete process chain. Marcel Wendt, the co-founder and General Director, always aimed to offer assemblies in addition to classic contract manufacturing. The idea was a success: ABP has been steadily expanding its machine portfolio since 2016.



Hatem Drira (left) and Marcel Wendt (center), the General Managers of ABP - Innovative Blechbearbeitung, discuss the advantages of leveled sheet metal parts with Christian Nau, ARKU Sales.

Large and yet level: As a supplier, ABP - Innovative Blechbearbeitung GmbH places great importance in quality. This also includes leveling.

Whether cladding for mechanical engineering, parts and assemblies for plant construction, mining or medical technology: "We are active in all the industries you can find in our region," says Wendt. The parts are as diverse as the customers themselves.

A FlatMaster® 55 leveler from ARKU was added to the machine portfolio in May 2020. "We have numerous applications in the laser and punching sectors," says Wendt.

During the current steel crisis, the leveler has become even more important than ever. When forced to buy sheets with different qualities, the FlatMaster® can help to achieve consistent quality. The investment also needs to pay off over the long term. "We see it as an opportunity to use technology that not everyone has," Wendt explains.

www.abp-blech.com

Deburring

Operators learn magic

The ARKU Wizard conjures up the perfect settings for deburring.

ARKU now helps its users with automatic calibration of the deburring machines and is currently the only

manufacturer on the market offering this service. Intelligent software known as the ARKU Wizard connects the work-

piece, tool and machine data. Operators only need to enter four parameters (material, size of the burrs, material thickness and the desired edge rounding). The Wizard contains the tools available

to the operator. The software independently selects the deburring tool best suited for the specific processing job. Additional information is obtained from the automatic wear measurement for the deburring brushes.

The Wizard uses this data to set up the machine for optimum productivity. As a result, users can be certain that they will achieve the right results quickly and produce cost-effectively.

Users no longer have to experiment until they find the correct settings when deburring parts. Therefore, the software also makes it easier for new operators to quickly familiarize themselves with the machine.



The ARKU Wizard software is now available and helps to achieve optimal deburring results by automatically configuring the deburring machines for the specific processing job.



Contract leveling and deburring at ARKU is worth your while!

Do you need leveled and/or deburred panels? Then our Leveling and Deburring Center in Baden-Baden is the right address for you. Send us your parts for leveling and deburring contract work. We process the parts for you quickly, reliably, with high-quality and transparent prices.

The ARKU Online Magazine

What benefits can you expect from leveling and deburring with ARKU? Learn more about it in our online magazine. Our articles covering leveling and deburring provide you with valuable know-how, useful information and tested recommendations. Visit our Magazine: www.arku.com/arku-magazine



Leveling

New customers acquired. Existing customers secured. Mafesa wins back customers with its new leveler.

Barcelona, Spain - Six steel service centers and more than 170 employees: In Catalonia, Mafesa offers a vast range of flat and reinforcing steel products

at ARKU: After the initial contact, José B. Berenguer from ARKU sales in Spain recommended the FlatMaster® 88.



David Muns, Head of the Mafesa plant in Seva, and José B. Berenguer, ARKU sales in Spain, are pleased because the cooperation has proved to be a good decision.

along with the corresponding services. To meet the demands of its customers, the family-owned company has purchased a FlatMaster® 88 leveler from ARKU.

To ensure that the sheets are delivered according to the customer's specifications, Mafesa uses flame cutting, plasma or laser processes to cut the initial material. However, parts frequently warp during thermal cutting because of the increased residual stresses in the part. "Therefore, we have to process the parts on a leveling machine," says David Muns, manager of the Mafesa plant in Seva. These problems are all the more severe in view of the fact that customers have become more demanding and require perfectly level products.

Mafesa previously utilized an old machine with only a small number of rollers and manual position adjustment for its leveling. The complex, slow and imprecise process prevented the steel specialist from processing large quantities. This forced the company to outsource the leveling of smaller parts, resulting in higher costs and additional problems.

To address these issues, Mafesa decided to purchase a high-performance precision leveler. They found their solution



All parts that do not pass the quality testing have to be leveled.

The cooperation between ARKU and Mafesa was consistently problem-free and agile. Both family businesses share a common philosophy: "We value the combination of professionalism, dedication and closeness that characterizes family businesses," says Jordi Rosell, CEO of Mafesa.

Integrating the FlatMaster® into its production has enabled Mafesa to achieve both a new level of quality and also to increase its production capacity. This has secured the loyalty of its existing customers. The company has also successfully won back or acquired additional customers. "The collaboration with ARKU was a good decision. The only mistake was not to have done this earlier," Rosell sums up.

www.mafesa.com/en

Five tons of relief supplies on their way

Vast numbers of people have fled from Ukraine to Poland. ARKU trainee Dominik Golenia has started a fund-raising campaign to help the refugees.

30 pallets of relief goods were full within the space of only two days. The vast majority of these donations came from ARKU employees, their relatives and friends. A local wood pallet supplier donated wooden



People are also taking in refugees in Komornik, Poland, more than four hundred kilometers from Ukraine.

ARKU trainee Dominik Golenia used to go to school there. He remains in contact with his schoolmates: "I received a list of what they need," he says. In consultation with his training supervisor Chris Schottmüller, the trainee mechatronics technician launched an appeal for donations.

frames and pallets. The ARKU board also participated with a monetary donation and covered the transport costs.

ARKU would like to thank all those involved for their donations and support. In particular, we would like to thank Dominik Golenia for his commitment.

ARKU Online-Shop: Replacement tools 24/7

ARKU offers high-quality spare and wear parts to ensure that its deburring machines continue to work optimally over the long term. Now, customers can also compare and directly

Customers can log in to the new shop using their machine data. Their shop access is quickly activated and customers can then use the shop's full range of functions. This includes



order these parts in the ARKU online shop. Whether sanding blocks, disc brushes, roller brushes or sanding belts and fleeces: The shop stocks the optimum spare parts for ARKU's deburring machines. All spare and wear parts are manufactured in Germany and rapid delivery together with ARKU quality are guaranteed.

access to their order history or favorites with a single click. The new online shop complements the existing offers. Naturally, ARKU experts remain available to provide personal advice. Nadine Maier and the service team are happy to answer any questions: phone: +49 7221 5009-90 or: nadine.maier@arku.com