

Deburring

Focus on deburring tools

With the right tools, parts can be processed twice as fast.

All ARKU EdgeBreaker® deburring machines feature quick-change systems for the tools. This saves a lot of time when swapping out deburring tools. Furthermore, this also serves

removal. The extended range of applications perfectly prepares the machines for future tasks.

That is why ARKU consistently focuses

other words: Sometimes more and sometimes fewer parts run through the machine in the same period of time. With the new tools, ARKU has succeeded in doubling the machining



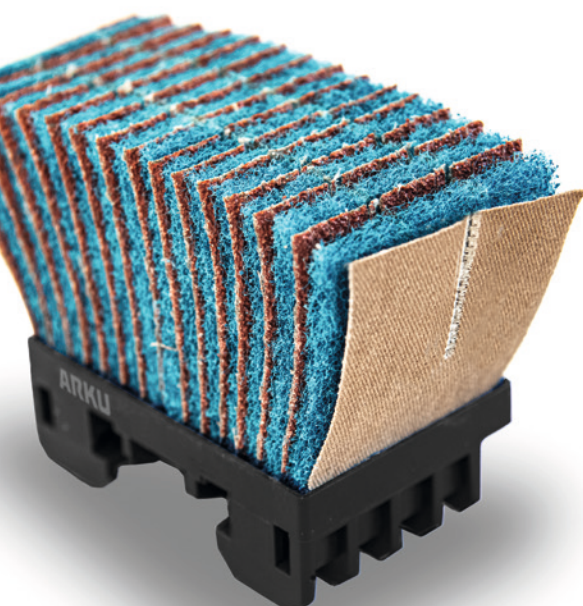
Focus on tools: up to 30 percent process cost savings through the right choice of tools.

to expand the machines' application areas. One example is the use of brushes for deburring, rounding or oxide

on advancing the development of its tools. This provides unit cost savings when deburring or rounding, as the processing result is frequently a compromise between part speed and material removal from the edge of the part. For example, if you increase the speed at which the parts pass through the machine when rounding, the edge radius decreases. On the other hand, to increase the edge radius, you have to decrease the machining speed. In

speed while retaining identical rounding results. This leads to process cost savings of up to 30 percent.

Choosing the right tools can improve the results of diverse applications. However, given that the right tool varies depending on the type of material, part thickness or contours, ARKU's portfolio includes a diverse array of tools. Expert advice or tests with your own parts are included.



Rounding block for the EdgeBreaker® series: As for all deburring machines, ARKU offers a selection of different tool designs.

ARKU has also further enhanced the interaction between tools and the machine. Whereas previously the tool selection, settings or grinding speeds had to be configured based on the best available knowledge and experience,

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Platform for sheet metal processing

"Those who stop getting better, have stopped being good." True to our motto, we have developed new solutions for working from coils and also for deburring technology. We present a selection of these in this InfoMAX edition: TRUMPF and ARKU, for example, have unveiled a new coil laser system that enables you to save up to 30 percent on material costs.

In the future, our service will work more with video support. In addition, new tools ensure even more performance with our deburring machines.

At the Blechexpo in Stuttgart, Germany, we will present our new deburring machine for laser-cut parts, the EdgeBreaker® 6000. We look forward to meeting you at our booth 1001, hall 1. Let us meet and discuss your sheet metal challenges.

Albert Reiss

Albert Reiss
President & CEO

the ARKU Wizard now handles this process with intelligent software in the machine, combining part, tool and machine data. The machine control system in the EdgeBreaker® 6000 requires the operator to enter the part characteristics and the desired result. These characteristics include the part thickness, material or burr thickness as well as the required edge rounding or the surface finish. The machine combines this input with the data from the tool and machine and then configures itself automatically. This configuration ensures that the result is achieved at the best possible processing speed. A unique feature in the market, this is a major customer benefit. As the machine operator no longer has to use a process of trial and error, this prevents incorrect settings and proven values are subsequently stored in the machine. To ensure that this works even as the wear on the tools increases, the EdgeBreaker® 6000 features automatic wear measurement. The control system takes the



An intelligent control system connects the tool and machine in the EdgeBreaker® 6000.

wear into account and compensates for it to spare the operator the task of re-measuring and conversion. If you have

any questions about suitable deburring processes or the ideal choice of tool for your specific application, Nadine Maier

(nadine.maier@arku.com) looks forward to hearing from you.

Deburring

GER4TECH renews its machine park

The EdgeBreaker® 3000 helps to fulfil customer requests.

Redlham, Austria - Metal and mechatronics combined: GER4TECH offers metalworking and automation at its new company site in Redlham, Austria. The company used the relocation as an opportunity to renew some of its machinery. Along the way, an EdgeBreaker® 3000 from ARKU also moved in.

In parallel with the move to the new company building, the two companies, Spießberger and Lenzing Blechtechnik, were renamed GER4TECH Metall. „As part of the construction of our new production site in Redlham, we aim to improve our production technology in every area“, explains the President, Hubert Gerstmayr.

The new EdgeBreaker® 3000 has provided a number of production benefits



GER4TECH President Hubert Gerstmayr, Production Manager Christian Sulzberger and Thomas Weinfurtner, Sales at ARKU (from left to right) are pleased with the superior results achieved with the new EdgeBreaker® 3000.

at GER4TECH since the beginning of 2020. The old deburring machine was only capable of processing the parts on one side. „This led to longer processing times, more wear and the deburring result no longer met our customers' requirements“, reports production manager Christian Sulzberger.

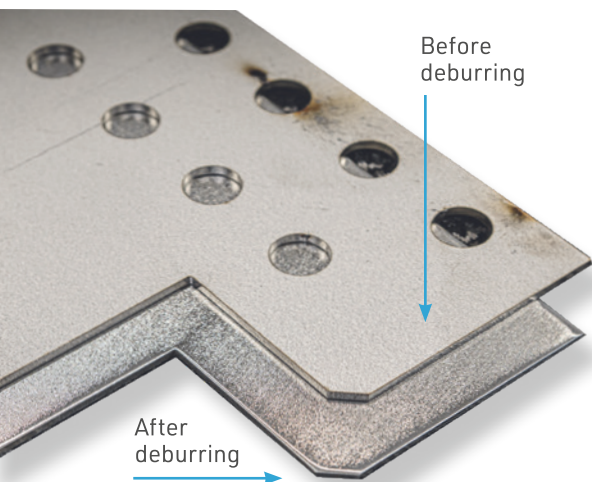
The EdgeBreaker® 3000 now enables GER4TECH to process the parts on both sides. The new deburring machine is roughly twice as fast compared to the old machine. According to the Pre-

sident, it processes around 4200 parts per month. The part thickness ranges from 1 to 15 or 20 millimeters. „Despite the increased volume and higher customer orders, we have been able to continue working with the same number of employees“, reports the production manager.

The EdgeBreaker® is highly utilized because customers' quality demands are increasing. According to EN 1090, the edges of all components have to be rounded before coating - otherwise

the coating will not adhere properly. In addition, employees can injure themselves on sharp edges. „We include deburring and parts rounding in our offers from the outset. Naturally, that costs money but more and more customers want it that way“, Sulzberger explains.

www.ger4tech.at



Contract leveling & contract deburring

Contract leveling saves you panels and machines.

Have your deformed panels leveled at ARKU to keep your production up and running. At the Leveling and Deburring Center in Baden-Baden, we process parts and blanks made of steel, stainless steel, aluminum, titanium and copper up to 50 millimeters thick and 2,000 millimeters wide with the narrowest tolerances. Interested? Feel free to contact Alexander Enke (alexander.enke@arku.com).

Service

Top customer feedback

New Head of Customer Service aims to achieve further improvements - video support gaining headway.

Extensive positive feedback proves that ARKU is well known for its good service. This has remained so despite the COVID-19 pandemic and current supply chain disruptions: „We are making every effort to maintain and expand the service quality at ARKU“, promises Peter Eiswirt, the new Head of Sales + Service since the beginning of 2021.

In addition, he aims to make greater use of digitalization. Today, diverse tasks can be carried out without being present in person on site. „With teleservice, fault analyses and remote support via video systems, we can help our customers quicker because this eliminates the need to travel“, Eiswirt explains.

He still sees potential for efficiency, particularly within the company. The growth in deburring machines also leads to a greater volume of installed



In good hands: At ARKU, customers always receive rapid and professional service from the expertly trained service team.

standard machines. „Naturally, that motivates us to work on streamlining internal processes“, says the Head of Sales + Service.

The sites in Germany, China and the USA work autonomously, further accelerating the process. „This enables us to offer local service to customers

in most countries and they appreciate this“, Eiswirt concludes.

Coil lines

TRUMPF and ARKU present coil laser system

Flexibility for coil processing - Save up to 30 percent on material costs.

Neukirch, Germany - Laser systems are the standard for flexible panel processing from blanks. In contrast, punch presses have been heavily associated with coil processing up until now. They deliver the lowest unit costs together with high volumes. The trend towards ever smaller and more flexible batch sizes has now given rise to the combination of coil and laser. Coil laser systems can close the gap between flexible laser processing and high-output coil processing with presses. Lasercutting companies that currently work from blanks can also benefit from coils when confronted with increasing quantities.

With ever faster lasers and more frequent changes to products, laser cutting from the coil is becoming an appealing option for mid-sized batches.

The combination of coils and lasers is TRUMPF's and ARKU's response to this challenge in sheet metal processing. Laser cutting systems fed with strip material save up to 30 percent on material costs for certain components.

The integrated ARKU precision and high-performance levelers guarantee



This system is available for trials at the TRUMPF customer center in Neukirch, Germany.

ges. „The number of applications in this area will grow“, says Johannes Decker, Key Account Manager at ARKU, with certainty.

Equipped with an ARKU precision leveler, the ARKU conveyor system and TRUMPF laser form a fully integrated system with clear benefits for the customer:

- Material cost savings of up to 30 percent
- Savings on tool costs
- Lower investment costs for areas such as infrastructure (e.g. foundations)
- Lower space requirement

www.trumpf.com

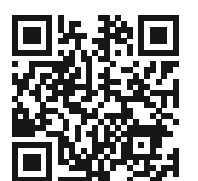
Follow us on LinkedIn.

Now, you can easily stay informed about news and current topics concerning leveling and deburring. The QR code links you directly with ARKU's profile on LinkedIn.



Leveling and deburring videos.

Would you rather watch than read? Then the ARKU video page is the right place for you. How do leveling and deburring results effect process reliability? You will find the answer to this and more questions in the exciting and practical videos. Simply scan the QR code, click and experience!



Leveling

New plant - new machines

Silberhorn Blechtechnik grows with its customers.

Brunn, Germany - Silberhorn Blechtechnik GmbH has repositioned itself. A leveler from ARKU now safeguards the quality.

Officially, the company has only existed since 2016. However, its parent company, Silberhorn Maschinenbau, began sheet metal processing as early as 1998. The „parts manufacturing“

Employees at Silberhorn cut the delivered blanks to size with a laser. This is followed by deburring and leveling for the next processing steps. „The precision leveler with servo-hydraulic leveling gap control and hydraulic overload protection is the perfect solution for leveling laser-cut, punched and flame-cut parts“, adds Christian Nau, ARKU



President & CEO Diana Silberhorn (center), Sales Manager Siegfried Bayerl (right) and their colleagues at Silberhorn Blechtechnik show Christian Nau (left), ARKU Sales, their production with the FlatMaster® leveler.



Even thick parts are no problem for the FlatMaster®.

department grew into a second major business unit over the years and created further capacity with a new plant.

„The new building was a challenge - also because most of the machines were new purchases“, explains the President & CEO Diana Silberhorn. The new equipment included a FlatMaster®88 from ARKU. „The leveler enables us to reduce residual stresses in the plates. In turn, this makes the subsequent processing steps more productive“, explains Diane Silberhorn. „Thermal processing with lasers creates stresses within the sheet metal. However, they need to be as flat as possible for further processing“, adds the Sales Manager Siegfried Bayerl.

Sales. The FlatMaster® 88 has made the process far easier compared to the old manual leveling press. „Back then, every part was different. But today we have consistently high quality and enormous time savings“, says Diane Silberhorn. Business partners have also noticed the benefits of the leveler. „We have received more orders from two customers precisely because of the leveler. We were also able to acquire a completely new customer“, reports Bayerl.

www.silberhorn-gruppe.de/en

On the cutting edge with mixed reality

Trainees receive award for digital safety training.

Digitalization in education: Three apprentices implemented safety training using mixed reality glasses in their own project.

It has been an exciting few weeks for Maximilian Merkel, Carlos Acosta and Valentin Dufner: First, they

information and questions about occupational safety appear in the glasses. The project now enables every employee to educate themselves about occupational safety. As a result, safety training is standardized and always up to date.



ARKU continues to advance its digitalization: Three trainees implemented safety training via mixed reality glasses in their own project.

defined locations on the premises to include in the safety briefing. These locations were linked to graphical elements and instructions on occupational safety. Using software, this information was displayed via mixed reality glasses. These mixed reality glasses now guide employees through the company and point out possible dangers. Interactive infor-

Using digitalization, ARKU simplifies and safeguards its processes. This will also serve to teach part of the apprenticeship in a new way.

The trainees' performance did not go unnoticed outside the company: The BGHM (German Insurance association for the wood and metal industry) awarded the project its safety prize.

Together 160 years at ARKU

After a one-year „Corona break“, the annual summer festival finally took place again, to the delight of all employees and their families. ARKU in-

agued. Albert Reiss, President & CEO, honored four employees for their 25th company anniversary: Sabine Schwägerl, Rolf Dietrich,



More than 160 years of loyalty to ARKU: Albert Reiss, President & CEO (left), and Managing Director Dr. Jochen Kappler (right) thank the employees celebrating their anniversaries in 2021.

vided everyone to an evening together under the open sky at the company headquarters. The Baden-Baden rock musician Sebastian Dracu helped to create the right atmosphere for the evening.

Reiner Huck and Damien Wolff. Another six colleagues celebrated their 10th anniversary with the company. Four of these employees completed their training at the machine manufacturer from Baden-Baden. ARKU currently employs a total of twelve trainees and ten students - an impressive number for a medium-sized company and well over 10 percent of the employees at the location.

ARKU can rely on its employees - and vice versa. The summer party was also the perfect opportunity to recognize long-standing colle-

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