

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

the processing speed. In 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 doub-



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

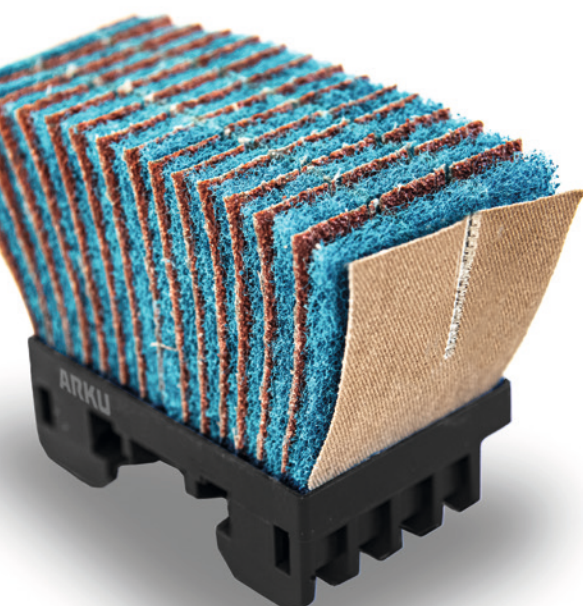
to expand the machines' application areas. One example is the use of brushes for deburring, rounding or oxide

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 throughput 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

ling the processing 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 available.

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



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

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Being proactive

Much of ARKU's success is derived from listening to the needs of our customers. Recently, we've heard the call for a broader spectrum of deburring abrasives and more support in selecting the appropriate tool for each application. In response to this demand, we're proud to announce the ARKU Webshop to help our customers easily and quickly select the best deburring tools for the job.

ARKU is also proud to announce a joint development with TRUMPF: the Coil-laser line. ARKU has been developing cutting edge coil line equipment for decades in the fields of press feeding and roll forming. Now we're coupling this expertise with a laser cutting machine, thus allowing for 30 percent material cost savings when compared to conventional laser cutting.

These new developments are only possible with your feedback, so please reach out to us with the next challenge your company is facing!

Nicholas Miller
President of ARKU Inc.

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available knowledge and experience, the ARKU Wizard now handles this process thanks to intelligent software within the machine, combining part, tool and machine data. The machine interface of 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 surface finish. The machine combines this input with the data from the tool and machine, thus adjusting itself automatically. This configuration ensures that the result is achieved at the best possible processing speed. A unique feature in the market, which 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



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

machine interface takes the wear into account and compensates for it to spare the operator the task of remeasuring

and adjusting manually. If you have any questions about suitable deburring processes or the ideal choice of tools

for your specific application, Andreas Zimmer (andreas.zimmer@arku.com) looks forward to hearing from you.

Deburring

Busbars at their best

SPF America efficiently deburrs 290,000 lbs of copper a year thanks to the EdgeBreaker®.

Fort Smith, AR – From sheet metal to copper busbar fabrication, SPF America has had an eventful history. New products have meant new opportunities and challenges alike. This still holds true today, more than 60 years after the first venture of founder Basil C. Brock. As copper prices and lead times continue to rise, fabrication must be virtually flawless, with as little scrap as possible.

This aspect led Anthony Toth to go on a quest, one the company's VP of Engineering and part owner describes as follows: "We were on the lookout for a deburring machine to enhance copper busbar quality and coating operations." As a supplier for the power distribution and telecom industries, SPF needs to provide bars that are free of any burrs or sharp edges or dross. "Imperfections might impact operator safety and electrical conductivity. Given the market situation, we can't afford to redo faulty parts."

A solution for large parts

In 2019, his search led him and his team to Chicago's Fabtech, where they dropped by ARKU's booth. "I was intrigued to hear that ARKU, as a leveling expert, also offered deburring machines. When I found out that they offer double-sided deburring, I was



Critical edge rounding: the part after processing (on the right) showcases precise edge rounding all the way around.

hooked." One machine stood out for its effectiveness: the EdgeBreaker® 3000, which can process parts up to 3 inches thick. "We knew from the start that this would help us boost throughput and better process our larger parts, some of which are 85 inches long."

Their hunch paid off. After initial tests at ARKU's Cincinnati location, Anthony and his team settled on the machine. In April 2020, the EdgeBreaker® 3000 was installed at SPF's Fort Smith facility, where it has done a tremendous job on punched, laser-cut and stamped parts ever since. As Anthony

From left to right: Joe Brackin, Plant Manager at SPF, Scotty Moore, Deburr Production Operator at SPF, Denis Weinfurter, Marketing at ARKU Inc. and Anthony Toth, VP of Engineering at SPF inspecting a part after deburring.

relates: "The machine makes life a lot easier. We not only save time and manual labor; downstream processes like coating have also become much more precise. That makes for an overall quality improvement." SPF now enjoys much higher throughput rates, too: in one year, the EdgeBreaker® processes 290,000 lbs of copper – for busbars at their very best.

www.spfamerica.com

Live tests
& parts processing

Interested in a machine?
Watch your test parts being processed live!

Are you currently interested in a precision leveler and/or deburring machine? Is finding time to travel difficult? No need to worry, ARKU has the solution! Send us your parts and we will process them on live stream to your specifications. Thus ensuring a perfect solution for your processing needs. Simply contact us via phone (513) 985-0500 or email: info-us@arku.com.



Leveling

Staking claims in new markets

Brannon Steel opens up new business opportunities with the ARKU FlatMaster® 140.

Brampton, Canada - When Tom and Al Brannon founded their oxyfuel cutting business in 1968, they were one of the first in Ontario, Canada to do so. While the business has grown steadily, its customer focus has remained unchanged. Brannon Steel is known for its commitment to consistently delivering the highest-quality carbon steel parts.

Ramping up processes

Since customers were increasingly changing to robotic welding, the company had to adapt. According to Kirk Brannon, President of Brannon Steel, "Robots need precisely flattened parts in order to work flawlessly. We used to flatten them with a plate roll. This led to variances between parts that hindered the process."

In September 2019, Brannon Steel therefore chose to purchase the FlatMaster® 140-200 - the largest machine of its kind in North America. Beforehand, Kirk and his team had taken their time to thoroughly research the market. "We had been looking and testing for many years - and we always

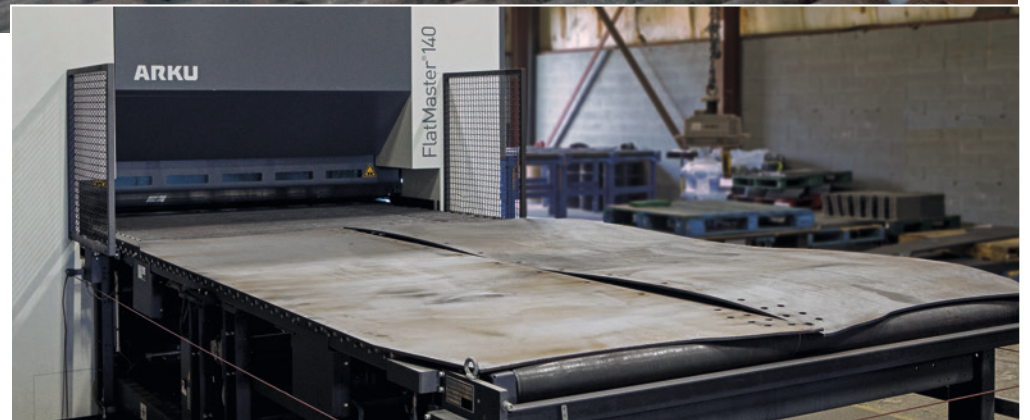


From left to right: John O'Donoghue, Flattening Technician at Brannon Steel and Kirk Brannon, President at Brannon Steel inspecting a part prior to leveling.

came back to ARKU. They perfectly matched all our requirements."

Leveled as expected

As hoped, the FlatMaster® provides consistently leveled parts. When it comes to in-house efficiency, Kirk Brannon has major progress to report: "We have seen a 40 percent reduction in our leveling times compared to plate rolls or presses."



Besides leaner processes, the FlatMaster® has allowed Brannon Steel to expand its business. "We've been able to secure new jobs and enter new markets by offering leveling as a toll processing service," Kirks says. The

company is now the only carbon steel leveling provider in Ontario - one with many opportunities lying ahead of it.

www.brannonsteel.com

Coil lines

TRUMPF and ARKU present coil laser system

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



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

Neukirch, Germany - Laser systems are the standard for flexible sheet processing from blanks. In contrast,

stamping 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 stamping presses.

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. Equipped with an ARKU precision leveler, the ARKU coil line 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)
- Smaller space requirement

www.trumpf.com

The ARKU Webshop - exclusive for our customers

Find and order the right tools and spare parts for your deburring machine with just a click. The shop allows you to search by specific processing needs as well as reorder tools and necessary spare parts. Simply scan the QR code and start browsing through the new webshop.



Cost effective service contracts

Keep your equipment running like new. ARKU service contracts offer yearly PMs, 50 percent off travel costs and reduced consumable pricing. Sign up today! Simply contact Sven Wagner (Service Manager) - sven.wagner@arku.com or simply call 513-633-1198.



Leveling

Turning grade B materials into grade A

Supply chain woes not an issue for H&H Metals thanks to the FlatMaster® 55.

Thornton, CO – If you were writing a book on ‘How to successfully lead a family business,’ the Huffs would be the right ones to ask. James and Kathy Huff founded H&H Metals in 1980, and today their son Chad rounds out the company board as Vice President. Serving the regional market for more than 40 years with architectural metal fabrications for commercial buildings, there has

been hardly a single construction project that H&H wasn’t involved with in one way or another. machines online. When he came across ARKU, he knew right away: “This is what we need.” He was looking at the FlatMaster® 55, the perfect machine for leveling H&H’s parts, which were between 0.02 and 0.6 inches thick. “Three months after my initial call at ARKU, the machine was up and running,” he recalls.



Chad Huff (back), Vice President at H&H Metals and Ken Winslow, Welder/Fabricator at H&H Metals are inspecting the precision leveling result of a part prior to downstream processing.

been hardly a single construction project that H&H wasn’t involved with in one way or another.

“Our clients know what to expect from us: the best quality,” Chad Huff says. But two years ago, H&H was in danger of failing to deliver on that promise: for years, they had been sourcing pre-leveled sheets from local suppliers. As the suppliers started struggling to keep up with the supply of grade A material, Chad and his parents soon found themselves facing serious problems. Especially since there were no other suitable materials available that were truly flat & stress free.

Less stress

Chad worked quickly to find a solution – and started looking for leveling

Since then, there hasn’t been a day when Chad has regretted choosing the FlatMaster®. For one thing, it has made H&H less dependent on a single supplier; they can now purchase unlevelled metal from a handful of different sources, which also translates to significant cost savings and reduced lead times.

Further advantages have become apparent during the welding process. For optimal results, parts need to be free from internal stress, which can cause deformations during welding. The FlatMaster® takes out the tension, avoiding the need for costly rework. “Our operators are very happy with the FlatMaster®,” Chad says. „It makes it easier for us to deliver the quality for which we are known.”

www.h-hmetals.com

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It’s all about team spirit

ARKU Inc. supports youth soccer teams.

As a German company based in Cincinnati, ARKU is naturally passionate about soccer, and seeks to support the communities in which it operates. Accordingly, the company

children and teenagers an opportunity to find friends, challenge each other and grow as a team. Sponsorships like ARKU’s help the GSSA to keep costs low for children’s parents



From left to right (back row): ARKU employees, Andreas Zimmer, Application Engineer, Denis Weinfurter, Marketing and Nicholas Miller, President spending time with the girls team ARKU sponsored.

decided to sponsor two youth teams from Cincinnati’s Greater Sycamore Soccer Association (GSSA). The association currently trains more than 800 young players from 75 teams in the Sycamore school district. Soccer practice and games give young

and to equip the young players with the newest and most essential gear. ARKU is proud to do its part to keep the team spirit of these soccer enthusiasts alive.

A passion for metal

If there’s anything that has been part of Mary Simpson’s family for ages, it’s steel. The plant tours at her father’s workplace sparked her interest in the

she is responsible for the acquisition of new customers for the leveling and deburring center, writing quotes and supporting customers with her



steel industry, so she began her professional career in the steel industry after studying at Miami University and the American Institute for Paralegal Studies. Having worked for various steel companies in accounting and sales, she now attends to “Leveling Center Sales” at ARKU Inc. in Cincinnati. In her day-to-day work,

decades-long experience. When not at work, the Hamilton, Ohio-based saleswoman enjoys spending time with her family & friends, traveling, playing volleyball, or cheering on the Cincinnati Bengals or Notre Dame football teams.