

Deburring – Leveling

Top-quality results much faster

The EdgeBreaker® 4000 increases the quality and frees up employees.

Mertingen, Germany - With new ARKU machines, SÜDSTAHL has managed to boost its productivity and also to inspire its employees. In this process, the operability was exceptionally important. As a specialist for

Ulrich Käuferle. The steel processing specialist supplies "all industries across the board" with diverse blanks, as Peter Birkner, Head of Sales and Technology, explains. As a consequence, the company produces a vast

EdgeBreaker® 4000 only needs a single pass to deburr and round the workpieces from above and below. "Before, deburring the flame-cut and plasma parts was a purely manual process using angle grinders", reports Birkner.



Consistent quality instead of hard labor with angle grinders: The EdgeBreaker® 4000 has vastly simplified deburring heavy plates at the steel processing specialist SÜDSTAHL. At the same time, productivity has seen a significant boost.

steel processing, SÜDSTAHL offers an extensive amount of products. These range from thin and heavy plate blanks, semi-finished products and components to project handling including assembly. "For us, a collaborative partnership is our top priority in order to serve our customers with the highest quality and reliability over the long term", says the CEO

range of different parts with highly varying batch sizes - especially when it comes to heavy plates.

At the beginning of 2018, SÜDSTAHL took its deburring to the next level when an EdgeBreaker® 4000 moved into the halls. The machine from ARKU is specifically designed for removing heavy burrs after flame cutting. The

As a consequence, the results and quality strongly depended on the respective employee. The deburring machine has increased the throughput while also ensuring that the products maintain a consistent appearance.

Even before buying the EdgeBreaker®, SÜDSTAHL had already made positive experiences with ARKU. The steel processor had become aware of ARKU at a trade fair and the first project began the following year: A PlateMaster® leveler replaced three old levelers in December 2014.

The PlateMaster® at SÜDSTAHL handles a diverse spectrum of parts with weights ranging from less than one kilogram to two or three tonnes. Before the ARKU system was installed, the

CONTENT

DEBURRING:	P. 1, 2, 3, 4
LEVELING:	P. 1, 2, 3, 4
PARTS HANDLING:	P. 3
FEEDING LINES:	P. 2



Better sheet metal!

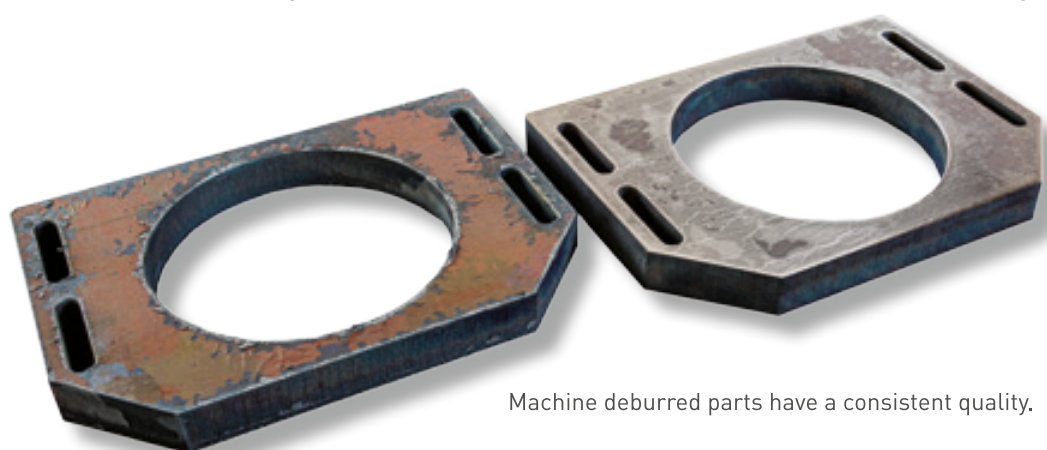
While many sectors are still hard hit by the Corona measures, things are looking up for sheet metal processors once again. Currently, the predominant topic is not a lack of orders but a shortage of steel. High steel prices and negative impact on steel quality as a result are on everyone's lips again. When it comes to quality, we can help our customers with leveling and deburring. Our current cover story looks at how the steel processing specialist SÜDSTAHL uses this to create efficient processes.

TRUMPF demonstrates such high automation in its Smart Factory in Ditzingen, Germany. Here, our ARKU machines also prove their capabilities for Industry 4.0.

Visit our partners, customers or one of our leveling centers to see for yourself how we can also improve your sheet metal processing.

We look forward to seeing you!

Albert Reiss
Albert Reiss
President & CEO



Machine deburred parts have a consistent quality.

Continued on page 2

operators had to find the right leveler for the specific size of the workpiece themselves. "Combining three systems into one has simplified the processes and we achieve better quality", explains Birkner. In addition, efficiency has increased: Whereas three or four passes used to be needed to achieve the required flatness, with the PlateMaster® one is often enough. At the same time, the configurations are highly precise, providing more consistent results. He has vivid memories of the project: "For me personally, being able to replace the three old machines with a single new system was a highlight in itself."

For the employees at SÜDSTAHL, the PlateMaster® and the EdgeBreaker® brought about a number of positive changes: The deburring machine is equipped with an extraction system, which reduces noise and dirt compared to manual work with angle grinders. In addition, the handling devices on the machines reduce the physical effort. However, ARKU has achieved even more with its systems: "The entire con-



Oliver Wetzenbacher, Head of Production at SÜDSTAHL, Peter Birkner, Head of Technology and Sales, and Thomas Bachmann, Head of Cutting, (from left to right) are pleased with the improvements provided by the EdgeBreaker® 4000.

cept has to be both quick and easy. This is how you motivate the employees to truly familiarize themselves with the

machines", says Oliver Wetzenbacher, Head of Production, also with regard to the ease of operation. "At SÜDSTAHL,

the acceptance of ARKU technology is very good", he sums up.

www.suedstahl.de

Service

▶ New attractive service agreements

ARKU expands its service promise for a fixed price.

Get the very best out of your ARKU system with a new service agreement. Regular maintenance by an expert increases the performance of your system and prevents unplanned downtimes. The service agreements have now become even more attractive for ARKU customers. For a fixed price, customers receive an extended service promise. This includes free remote service or discounted spare parts packages. In addition, the ARKU service team is available 24 hours a day.



In good hands: At ARKU, customers always receive prompt service.

other countries. In addition to repairs, ARKU services also include machine conversions and overhauls as well as ongoing production support and training.

You can also save costs with our online service. Would you like to find out more or how you can benefit from a service agreement?

Visit us at: www.arku.com/en/service/ or submit your service request at +49 180 555 27 58. We look forward to hearing from you!

"As a long-standing customer, we appreciate the high quality of the ARKU service team - from the operational preparation to the qualification of our systems. With ARKU, we have a service partner we can rely on, even at short notice: If an acute problem occurs, the team always responds quickly and in a friendly manner. This ensures that we remain capable of delivery and competitive."

Nico Haas, Technology and Maintenance, Schaeffler Automotive Buehl GmbH & Co. KG



All around the world, of course: at its headquarters in Baden-Baden, at the subsidiaries in the USA and China, and at the sales and service partners in 30

ARKU-Ticker

▶ Coil-fed laser blanking line.

With a coil-fed laser blanking line, you can produce flexibly while reducing your investment and material costs. Working in close cooperation with ARKU, TRUMPF developed a coil-fed laser blanking line. This system is available for test runs at the TRUMPF customer center in Neukirch, Germany. Watch the video by simply scanning the QR code.



Deburring – Leveling – Parts handling

AR KU at the Smart Factory in Ditzingen

TRUMPF integrates leveling and deburring at its model factory.

Since the fourth quarter of 2020, TRUMPF has been producing more than just sheet metal components at its Smart Factory. The demo center has been transformed into a fully networked factory with a total of 30 machines. All in a 5000 square meter facility. Small and medium-sized enterprises can also gain an insight into how digitalization can enhance the efficiency of sheet metal production.

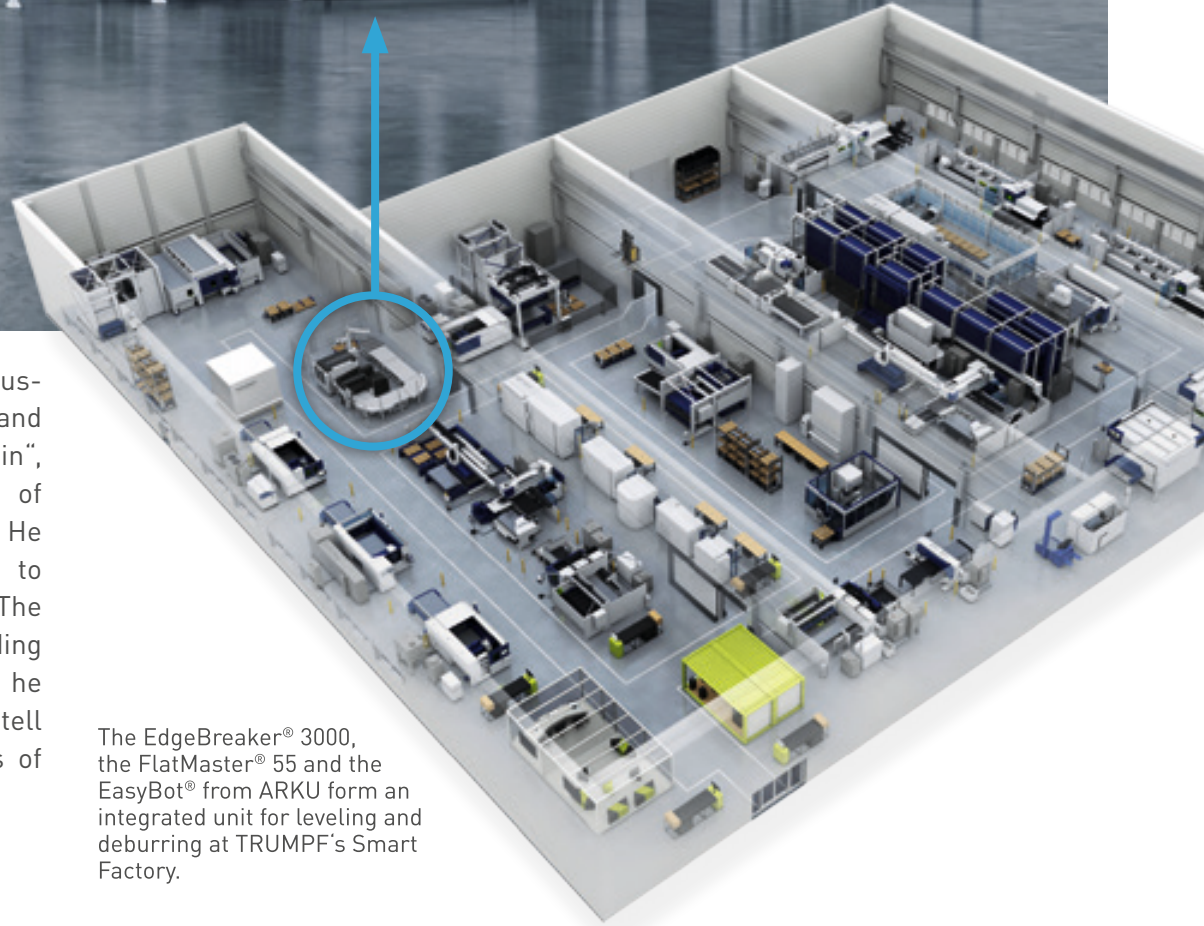
AR KU is represented in the digital factory by the EdgeBreaker® 3000 deburring machine, the FlatMaster® 55 leveler and the EasyBot® vision robot. Together, these systems deburr and level sheet metal parts after laser cutting or punching fully automatically. “Our customers regard deburring and leveling as two essential process steps”, explains Dr. Thomas Schneider, Managing Director Research + Development at TRUMPF. He explains: “As a family company, AR KU is a good partner for us. We are connected by numerous customer projects and the intensive exchange of information about digitalization in mechanical engineering.”

As with its own machines, TRUMPF has also integrated the AR KU machines into the Smart Factory. The TruTops Fab production control software can work with any machine.



“We want to demonstrate to our customers’ authentic production and reproduce the entire process chain”, explains Tobias Reuther, Head of Customer Center at TRUMPF. He is especially pleased to be able to demonstrate other machines. “The feedback from customers regarding AR KU’s machines is very good”, he reports and goes on to say: “They tell us that we are thinking in terms of manufacturing solutions.”

www.trumpf.com



The EdgeBreaker® 3000, the FlatMaster® 55 and the EasyBot® from AR KU form an integrated unit for leveling and deburring at TRUMPF’s Smart Factory.

Leveling

Contract leveling saves sheet metal and machines

Simple and rapid processing – around the clock.



AR KU application engineer Alexander Enke is looking forward to your parts for contract leveling and/or contract deburring.

More and more often, customers are delivered panels that are difficult to process. This problem is especially prevalent during economic upturns:

Sheet metal processors are lucky to obtain any material at all. And if they simply send back the steel, then they have nothing left to work with. For-

tunately, there is a solution: Buckled sheets can still be processed if they are leveled first. Companies without their own levelers can also rely on contract leveling services.

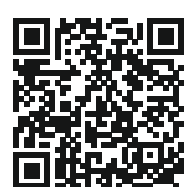
A highly dedicated team at the Leveling and Deburring Center in Baden-Baden is there to make this happen. Whether for test runs or contract leveling or deburring work. “Our team is highly trained and possesses extensive knowledge of both the machines and the industries. This is the only way that we can ensure that our employees meet our customers’ requirements”, emphasizes the application engineer, Alexander Enke. “We process parts and blanks up to 50 millimeters thick and 2,000 millimeters wide with the tightest tolerances. Our customers’ parts

are primarily made of steel, stainless steel or aluminum. However, we also work with titanium and copper. These include punched, laser-cut and flame-cut parts, which are often leveled before welding”, Enke reports.

AR KU has decades of experience in contract leveling. Final inspection, packaging and shipping are also included on request. Test runs and individual consulting about efficient system usage round out the range of services. “Our machines and services help customers to reduce process costs and efficiently fulfil the high quality standards of the industry”, sums up Enke.

Follow us on LinkedIn.

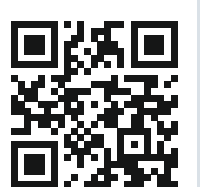
Now, you can easily stay informed about news and current topics concerning leveling and deburring. The QR code links you directly with AR KU’s profile on LinkedIn.



Leveling and deburring videos.

Would you rather watch than read? Then the AR KU video page is the right place for you. How do leveling and deburring results affect process reliability? You will find these answers and more in the exciting and practical videos.

Simply scan the QR code, click and experience!



Deburring - Leveling

Rapid leveling

Plasser & Theurer modernizes sheet metal processing utilizing ARKU's leveling and deburring.

Linz, Austria - Rail transport worldwide is booming: This has boosted the demand for automatic track construction and maintenance systems.

Plasser & Theurer has been offering the right solutions since 1953. For example, their machines automatically remove old tracks and lay new tracks. They also clean gravel and level the track sections. The company has installed new flame and plasma cutting systems as well as deburring, blasting and cutting

The leveler FlatMaster® 88 and the deburring machine EdgeBreaker® 4000 delivered convincing results. Both systems were soon installed in Linz.

Proven hydraulic leveling technology

The EdgeBreaker® 4000 deburrs and rounds both sides of the flame-cut and plasma parts.

These parts then run through a blasting



Simplicity itself: Stefan Sauter, Sales at ARKU, and Erich Bauer at Plasser & Theurer intuitively configure the parts leveler via the touchscreen.



State-of-the-art production technology for track maintenance.

technology at its production facilities. The innovations mean greater flexibility together with a new approach to production. "Because we cut faster with the plasma cutter, we also have to level and deburr more quickly", says Clemens Huber from the operating technology department at Plasser & Theurer. "That is why we tested both technologies at ARKU's Leveling and Deburring center in Baden-Baden."

system or the FlatMaster®. Parts up to 23 millimeters thick can be leveled and stresses removed using the hydraulic leveler. The proven technology and its easy operation provide Plasser & Theurer with the desired efficiency. Overall, this enables the company to produce blanks that simplify the rest of the processing - for even higher-quality track giants.

www.plassertheurer.com

Masthead / Publisher: ARKU Maschinenbau GmbH, Germany
 Responsible: Albert Reiss, President & CEO
 Coordination: Alexandra Schuldt, Head of Marketing
 Layout: Rommel & Company, Germany
 Print: Stober GmbH, printing and publishing, Germany

Put into practice!

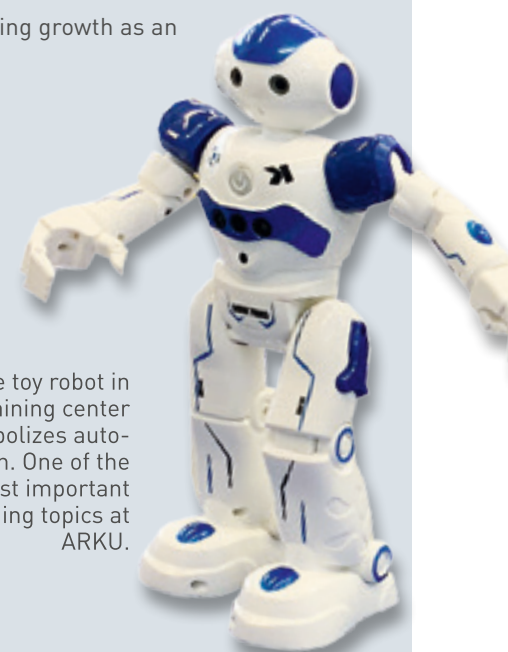
A good apprenticeship has two winners: an apprentice who gains first-hand experience and a company that can count on a motivated employee.

says the training manager, Chris Schottmüller. In the future, ARKU can continue to count on its upcoming young talents.



Trainees are one of the foundations for ARKU's ongoing growth as an innovative company.

ARKU also relies on this formula for its vocational training. Currently, ARKU is training 15 apprentices and students. In the process, the trainees acquire extensive practical knowledge: They spend 80 percent of their time working on customer projects. In addition to production and development, the next generation becomes familiar with numerous other areas of the company. "We see a lot of motivation and reliability",

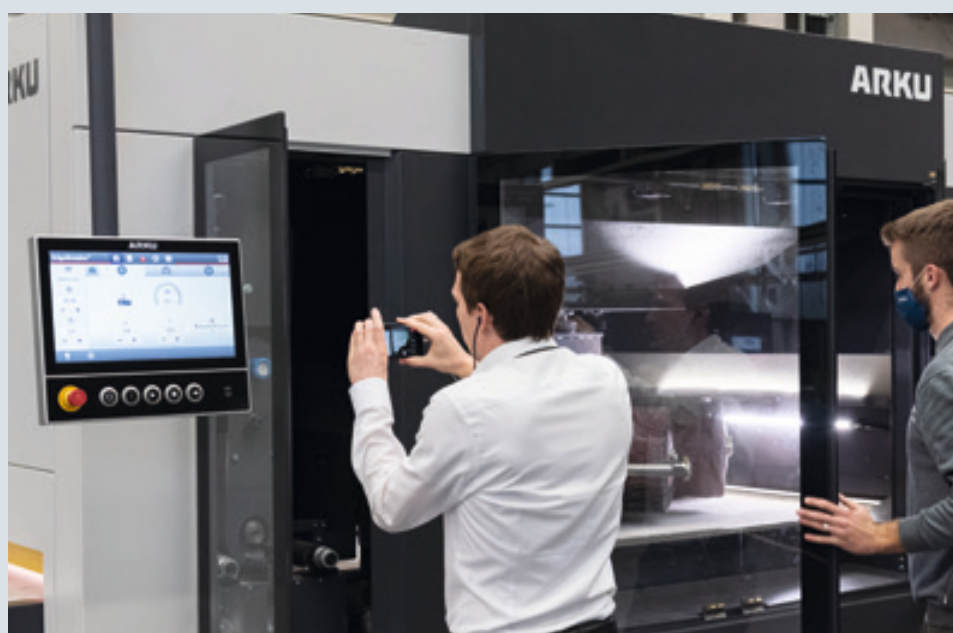


The toy robot in the training center symbolizes automation. One of the most important training topics at ARKU.

Insight at a click

You have to see machines to understand them. But what do you do if you cannot visit the site in person?

not cover? ARKU consultants are happy to take the time to discuss the optimal processing procedures



Even remotely, there is no need to forego advice and support: ARKU is available to give you an in depth look into our technologies with various digital communication options. With its webinars, the company shares in its machine knowledge and provides you with professional training. Do you have questions that a technical presentation does

with you. When speed is of the essence, the multilingual live chat on the company website can help you. Any time you would like to discover more about ARKU systems, simply make an appointment online, send in the parts and experience the system live on the screen. Guaranteed! Register here: www.arku.com/en/service/online-consultation/