

Parts handling – Deburring – Leveling

The right step

Salzgitter Mannesmann Stahlhandel increases efficiency thanks to ARKU

The steel industry is characterized by contrasts: On the one hand it produces a durable, almost timeless material. Yet on the other hand, many production processes and technologies are changing rapidly. Salzgitter Mannesmann

steel products, rolled steel and tubular products in all dimensions and grades. These products are either unprocessed or industrially prefabricated to the respective customer's requirements. To maintain its leading position among

another important step towards more efficient production. One of SMSD's most state-of-the-art plants is located in Zeithain, Germany. The facility sells sheet-metal as trade goods and also handles flame-cutting jobs with



Hard facts: from left to right Christian Nau, Sales at ARKU, Daniel Götze, Product Manager Pre-processing at SMSD, Norbert Gärtner, Plant Manager at SMSD, and Patrick Völpert, Machine Operator at SMSD, check the flatness of the leveled parts.

Stahlhandel GmbH (SMSD), headquartered in Düsseldorf, Germany, is also experiencing these changes. The full-range supplier is represented throughout Europe with 16 distribution and warehouse locations in Germany along with sister companies. The product range primarily comes from the Group's own production and includes

steel suppliers in a rapidly changing business environment, SMSD continuously optimizes its own processes.

Salzgitter Mannesmann Stahlhandel sees itself as a flexible system partner, modern service provider and reliable full-range supplier. Together with ARKU, the steel trader recently took

The EasyBot places the parts autonomously on the roller conveyor. Thanks to its extreme flexibility, it can move small and medium batches automatically and pays off even for single-shift operations.

the highest precision. "Our customers have highly specific requirements for our products. Naturally, flat, burr-free parts are right at the top of the list," says Norbert Gärtner, Plant Manager at the site.

"We always have the individual customer benefits and the future requirements in mind. That is why we needed a competent partner to upgrade our production technology," emphasizes Gärtner. ARKU had the solution: The company tested blanks produced by SMSD on various leveling and deburring machines. Following the successful test runs, SMSD decided to purchase the EdgeBreaker® 4000 deburring machine and the FlatMaster® 140 parts leveler.

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Everything is a little different

Plans have been changed. Sales reps advise online and trade shows have been cancelled. In recent months, everything has been a little different. This is precisely why we wanted to offer you an opportunity to experience our innovations firsthand - with the ARKU InfoDays.

For two weeks, we are at your exclusive disposal to discuss your sheet metal processing with you in person. This year's ARKU InfoDays will also be a little bit different. Corona-compliant - but with unique offers for leveling and deburring. With an autonomous system for deburring flame-cut parts and a deburring machine specifically developed for laser parts, we have two real highlights in store for you. Additionally, we will also offer digital consulting opportunities this year.

We are looking forward to your visit!

Albert Reiss, President & CEO

The EdgeBreaker® reliably deburrs and rounds even thick parts up to 100mm thanks to the oscillating grinding drum – on both sides in a single pass. The machine effortlessly handles even stubborn burrs and slag produced by flame and plasma cutters. At the end of 2019, Salzgitter Mannesmann Stahlhandel upgraded the plant with the state-of-the-art Easy-Bot handling robot to further increase efficiency. This robot now loads and unloads the EdgeBreaker® on its own, enabling autonomous deburring.

When it comes to leveling, the FlatMaster® 140 roller leveler gets the job done: Parts up to 60 millimeters thick and 2000 millimeters wide run through multiple rollers in the machine. Flame-cut parts are leveled and almost stress-free within a matter of seconds. Downstream processes such as welding, bending or chamfering all benefit. "Our customers also constantly face new challenges. Naturally,



Norbert Gärtner, Plant Manager at SMSD (right), talking to Daniel Götze, Product Manager Preprocessing at SMSD (center), and Christian Nau, Sales at ARKU (left), about the productivity increase achieved thanks to the EdgeBreaker® 4000.

they pass their preprocessing challenges on to us. Our customers greatly appreciate the high quality of the low-stress and deburred parts. This

doesn't only strengthen our market position but also that of our customers for a successful future and a lasting partnership", concludes Daniel Götze,

Product Manager Preprocessing at SMSD's Zeithain site.

www.salgitter-mannesmann-handel.com

Corporate

Greener is always an option

ARKU sets a good example



"Let's tackle this together": (from left to right) Alexander Wald (Logistics), Armin Hirth (Service), Chris Schottmüller (Apprenticeship), Kerstin Herzog (Purchasing) and Sefa Pusmaz (Environment and Sustainability).

Environmental protection makes sense – and is twice as much fun when someone serves as a role model.

ARKU has displayed good intentions for years. Since 2017, an internal team has been working to ensure that specific environmental protection measures become an integral part of corporate practice. "We want to act sustainably and inspire both our employees and suppliers", explains Sefa Pusmaz, responsible for environmental

and sustainability issues at ARKU. A look behind the scenes shows how this is reflected during the daily work-life.

Rapid progress

Over the past three years, a team from various areas of the company, including management, engineering and sales, has initiated numerous measures. For example, ARKU designs and develops new systems with a focus

on energy efficiency. Machines such as the FlatMaster® inform the operator about the power consumption and provide insights into how to reduce it. The HQ in Baden-Baden has already installed a number of charging stations for electric cars. Electric pallet jacks now make their rounds in the production halls. The first employees have begun riding to work on leased e-bikes provided by ARKU. "We want to take the next step this year," Pusmaz emphasizes. "We will reduce

our energy expenditure in the future by controlling heating and lighting better."

The foundation for further measures is an emission calculation which was prepared as part of a Master's thesis. The effects of emissions can be measured and new contributions to greater sustainability and environmental protection derived.



kgCO2e per €1,000 turnover
Source: Federal Statistical Office 2020

INFODAYS

LEVELING + DEBURRING . 2020

InfoDays 2020: Deburring – Leveling – Parts handling

From October 26th to November 6th 2020, we will open our doors for ten days. Whether you are already a user or simply interested, we cordially invite you to the Leveling + Deburring InfoDays at ARKU in Baden-Baden! Register now. The QR code links you directly to the registration form. Take the time and also check out our digital offers.



Deburring

EdgeBreaker® 6000 - The universal deburring machine for punched and laser-cut parts

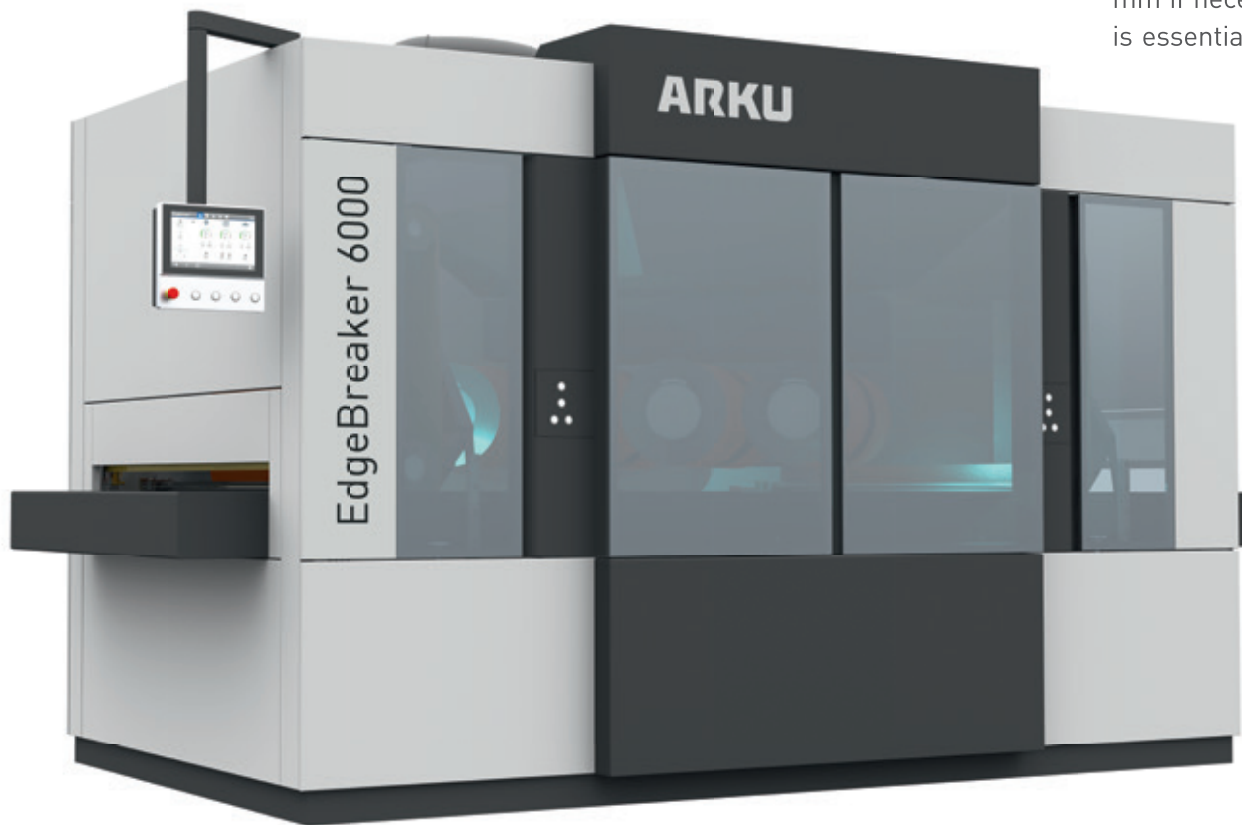
Uniquely even rounding on the sheet edge up to a radius of 2.0 mm

At the upcoming ARKU InfoDays 2020, from October 26th to November 11th in Baden-Baden, ARKU will present the EdgeBreaker® 6000 deburring machine for laser-cut and punched parts.

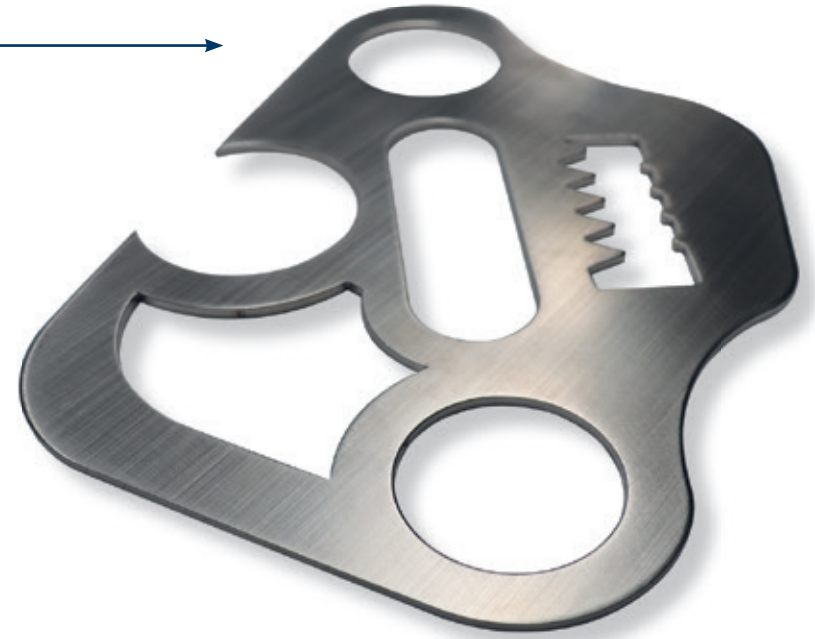
EdgeBreaker® 6000 is also the most universal deburring machine in the EdgeBreaker® family. Its core consists of the rotor outfitted with rotating brushes which create

Regardless of whether small or large punched or laser-cut parts are used, the EdgeBreaker® 6000 processes the complete range of parts – even flame-cut parts with a thickness of up to 100 mm if necessary. During processing, it is essential to obtain a uniform result.

Like all other deburring machines from ARKU, the EdgeBreaker® 6000 has an intuitive user interface. It makes it easy for the operator to setup the machine and provides clear instructions for operations and maintenance. For efficient processing with minimal errors!



A clean job: a sheet metal part looks like new after deburring with the EdgeBreaker® 6000.



The universal deburring machine for punched and laser-cut parts: EdgeBreaker® 6000.

The EdgeBreaker® 6000 is designed for the complete processing after punching and laser cutting. This includes deburring, rounding and surface finishing of sheet metal parts. Thanks to the grinding belt, unique rotor brushes and finishing belt, the

a unique rounding result along the edges. Since the brushes make contact with the material in various directions, you'll achieve a very consistent result on the inner and outer contours. If necessary, up to 2.0 mm edge radius.

To prevent irregularities, this deburring machine measures the remaining length of the consumables automatically and will compensate the settings accordingly.

Visitors can experience live demonstrations of the universal EdgeBreaker® 6000 during the Info-Days in Baden-Baden.

Corporate

New location for ARKU subsidiary in the USA

ARKU strengthens its presence in Cincinnati with its own building

ARKU invested in a new building in Cincinnati and thus makes a clear commitment to the North American market. Thanks to significantly larger space, ARKU strengthens its sales and service departments as well as its contract leveling and deburring services.

At the new location, interested parties can test the machines with their parts or have leveling and deburring carried out on a toll processing basis. In addition, ARKU Inc. also offers local service as well as fast spare parts supply. This proximity pays off for ARKU customers not only during



ARKU Inc. at its new location in Cincinnati, OH.

Corona times. Due to current events, the inauguration ceremony will have

to wait a little longer - but the location is prepared for customer visits in a Co-

rona-friendly manner. The entire team is looking forward to welcoming you!

Leveling and deburring at ARKU - Worth the visit!

Do you need leveled and/or deburred metal sheets? Then our Leveling and Deburring Center in Baden-Baden is the right choice for you. Send us your parts/sheets for leveling and deburring contract work and we will process them for you: quickly, reliably, with high-quality and transparent prices.

Practical examples from our customers

ARKU machines are utilized around the world and in numerous different industries. Top companies and mid-sized companies have relied on ARKU technologies for years. Read more at <https://www.arku.com/en/company/customer-success-stories/>



ARKU in the forest

This year’s social project took the ARKU team into the forest. Or more precisely: the trainees and students together with the ARKU executive team set out on a Saturday in September to remove protective tubes from young trees.

and the executive team successfully removed around 2000 plastic tubes from the forest. Demanding work for young and old. ARKU’s trainees and students developed their own ideas to move the masses of plastic to the



Enjoying the good cause: ARKU’s team of trainees, students and the executive team.



In 1999, hurricane Lothar raged through southern Germany during the Christmas holidays. Alongside numerous injuries and extensive infrastructure damage, nature also suffered. Baden-Baden also experienced extensive forest damage. The devastated areas had to be laboriously replanted. To protect the young trees from fast-growing plants and animals, the saplings were fitted with a plastic protection. Now that the forest has increasingly recovered from the damage, the plastic tubes around the tree trunks remain witnesses to the reforestation.

For this year’s social project, the trainees led by training manager Chris Schottmüller set themselves the goal of freeing a forest area nearby Baden-Baden from these plastic pipes. Working together, the ARKU students



Around 2000 of these plastic tubes were removed from young trees.

collection points as quickly as possible. The reward for all of their hard work was the sight of all the large plastic pipes at the collection points as well as a shared meal in the forest.

ARKU President & CEO Albert Reiss also gave a helping hand and thanked all the volunteers - especially Chris Schottmüller, who is certain to come up with a new challenge for next year.

Dual leadership for ARKU

At the beginning of the year, Dr. Jochen Kappler was appointed as Managing Director of ARKU Maschinenbau GmbH. In his new position,

After joining ARKU in June 2017, Dr. Jochen Kappler initially managed an ARKU-wide lean management program. Afterwards he took



on, he now supports the President & CEO, Albert Reiss, with the management of the company. With the Corona crisis, a challenge immediately awaited the new Managing Director. Dr. Kappler is responsible for technology, production, materials and quality management. The process-oriented allocation of responsibilities ensures that the company’s processes will become even more effective and efficient in the future.

responsibility of the production and materials management as well as quality management. In addition, he has also worked to advance digitalization at ARKU and has managed diverse infrastructure projects.

The managing directors will continue to be supported by the Executive Committee, in which five experienced authorized signatories are also represented.

Online consultations for leveling and deburring

ARKU’s employees love working with customers on site or in front of the machines in Baden-Baden. Nevertheless, there has been an in-

live demonstrations, you can easily gain a first impression of leveling and deburring. The online experts will analyze your current situation



creasing demand for online services and consultations. This demand has been accelerated even further due to the current Corona situation. For example: requests for general machine information revolving all around leveling or deburring. Besides through the ARKU website or the newly designed magazine section, the ARKU experts are here to help you online. By utilizing video conferences and

on and determine the next optimal steps in order to find your ideal solution. Just give it a try. With one „click“ or informal email, you can quickly arrange your first consultation with us.

Simply write a short message with a suggested date and time for a personal consultation to Nadine Maier at nadine.maier@arku.com

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