ARKU InfoMAAA The leveling and deburring experts

Parts handling

The precise eyes of the robot

The Vision robot accelerates parts handling with levelers and deburring machines

It can see what it is handling: The Vision robot from ARKU takes leveling and deburring automation to a new level. It scans every single part individually are familiar with this challenge. The Vision robot for ARKU levelers and deburring machines is therefore a good solution. handling area and then starts the leveling process by configuring only a few settings on the control panel. It is no longer necessary to monitor the

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CONTENTS

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





A passion for sheet metal parts

Leveling. Deburring. Parts handling. We present our passion for these fields at two shows in November. At the Blechexpo in Stuttgart, Germany, and also at the Fabtech in Chicago, USA. In keeping true to our motto "Signs of Passion", we present our know-how and experience along with our new products and service concepts. We look forward to seeing you there and discussing your issues and challenges.

A reliable worker: The Vision robot lifts the parts and places them precisely on the roller conveyor of the FlatMaster 88[®]. The leveling process can start immediately, without any additional manual correction.

and controls the gripper arm autonomously. In particular, companies working with small and medium quantities benefit from a new option for increasing their productivity.

Robotic colleagues are beneficial for sheet metal fabrication. They deliver their full benefits especially with standardized processes. However, frequently varying part sizes and weights challenge the capabilities of their programming. The smaller the batches, the less economical the robots become. Laser and flame-cutting contractors

Profitable even for singleshift operations

The integrated camera technology forms the heart of the Vision robot: It examines every part, checks the geometry and then aligns the magnetic lifting arm. Parameters such as the position, shape, size and weight of the parts can vary within certain limits without having to reprogram the robot. Human interaction with the machine consists only of an initial setup. An employee places a pallet with the stacked sheet metal parts in the defined system while it is running. "There is a noticeable increase in efficiency and the critical batch size for profitable automation decreases. The Vision robot pays itself off when run for just one single shift per day", emphasizes Andreas Hellriegel, Business Area Manager at ARKU.

The Vision robot demonstrates its full capabilities with heavy or large parts. It can effortlessly handle weights of 100 kilograms or more. These parts can be up to 50 millimeters thick without the need for cranes and other aids. And if you cannot make it to these trade shows, we warmly invite you to ARKU. At the ARKU Leveling and Deburring Centers, we take the time to tackle the challenges that you present us. In person and with our familiar passion for metal fabrication.

See you soon!

Albert Rein

Albert Reiss, President & CEO

Continued on page 2

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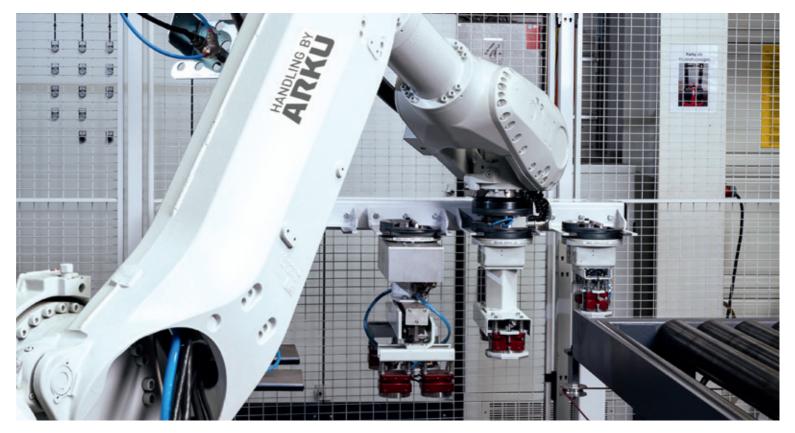
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Continued from page 1

The cornerstone of a complete solution

The Vision robot integrates seamlessly into the leveling or deburring process, enabling it to achieve its full potential. For example, the lifting arm places the parts on the roller conveyor with the correct alignment, eliminating the need to manually check the position. "Our aim is to provide systems that function as a single, comprehensive process. Our customers do not need to worry about the interfaces", explains Hellriegel.

The Vision robot is compatible with ARKU's entire portfolio. Plus, ARKU also offers a retrofit service for its FlatMaster[®] or EdgeBreaker[®] models. Over last year, some of our customers have already been relying on the robot's vision system to keep their operations running smoothly.



Time for new grippers? The Vision robot automatically identifies the part geometry and autonomously selects the right magnetic grippers from the change-over station.

A true powerhouse

The toolmaker, Wolfgang Loch GmbH & Co. KG, upgrades with an ARKU feeding line



Roland Zentgraf, Plant Manager at Loch. When searching for a modern alternative, colleagues from the industry recommended ARKU.

Less space, more performance

"The key factors when choosing a new system were rapid and reliable feeding as well as low space requirements", emphasizes Andreas Roth, who is responsible for punching and plant technology at Loch. According to Roth, the CompactFeed® 50800 feeder-leveler from ARKU perfectly fulfills these requirements: "It works significantly faster, offers higher performance and is also more reliable." Thanks to its compact design, it also needs far less space than the old system. The machine has been in operation at Wolfgang Loch GmbH & Co. KG since November 2018.

Roland Zentgraf, Plant Manager at Wolfgang Loch (left), Drazenko Dobras, Sales at ARKU (middle) and Andreas Roth, responsible for punching and plant technology at Wolfgang Loch, discuss the process benefits of ARKU's CompactFeed[®] feeder-leveler.

Idar-Oberstein, Germany – Wolfgang Loch GmbH & Co. KG manufactures up to 20,000 tons of steel sheet from coils every year. The expert for punching and forming technology largely produces components such as safety parts for airbags along with restraint and brake systems for vehicles. The company based in the Hunsrück region utilizes just-in-time production in order to produce both economically and flexibly for its customers. This requires high-performance machines. In order to adapt to the increasingly dynamic market, the company needs state-ofthe-art equipment.

"Our old feeding line was no longer reliable enough. High availability is absolutely essential in order to optimally plan the capacities", explains In particular, Roth highlights the collaboration with ARKU. He had the opportunity to test all of the various options in Baden-Baden beforehand and configure the system for his precise needs. "Based on the overall experience, I can clearly recommend ARKU to all my colleagues", emphasizes the expert.

www.loch.de/en



Deburring, leveling, parts handling

Experience impressive live demos at our exhibition booth (Hall 1, booth no. 1001) and discover the advantages ARKU's tailored leveling and deburring technologies offer your production. Our experts will be pleased to advise you. Simply scan the QR code and arrange an appointment. We look forward to seeing you!



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More than 50% more time for new jobs

Gothaer Fahrzeugtechnik upgrades its production with the FlatMaster[®] and EdgeBreaker[®]

Gotha, Germany – Gothaer Fahrzeugtechnik (GFT) is the expert for highprecision metal parts and plates for colossal vehicles. To enhance the quality and efficiency of its tube and panel constructions, the company revamped its machine line-up with ARKU technology. The upgrade focused on reducing manual labor.

When using the old leveling press, employees often had to rework the parts. With the FlatMaster[®] 88, this step is now a thing of the past. It guarantees optimum process reliability while also improving productivity.

Thanks to the machine, GFT is now considering opening up an additional shift for contract leveling services.

For a long time, manual labor was also essential when deburring. Highly contaminated air, a high risk of injury and comparatively low productivity



From the left: Christian Nau, Sales at ARKU, Frank Winter, Head of Work Preparation at GFT, and Marius Gessert, Cutting Production Manager at GFT, talking about the consistent deburring results of the EdgeBreaker[®] 4000.

ultimately prompted the upgrade. The EdgeBreaker[®] 4000 immediately improved the situation. It increased both the employee's job satisfaction and also the output. The machine has reduced the processing time per part by two thirds. The investments in the FlatMaster[®] 88 and EdgeBreaker[®] 4000 have immediately paid off for GFT: this increased productivity is one of the reasons why the company's turnover has increased by 10% per year in the last two years.

www.gftgotha.de/en/

Deburring

EdgeBreaker[®] 3000 – Twice the machine power for laser-cut and punched parts

Double-sided processing in just a single pass

For ARKU, the Blechexpo 2019 is the perfect opportunity to present one of its latest developments in the field of deburring machines: the EdgeBreaker[®] 3000 for laser-cut and punched parts. "The current developments in sheet metal fabrication show a clear trend towards stable and efficient processes. The same applies to deburring. We meet these needs with our portfolio expansion", explains Ewald Hund, Head of Development and Company Officer at ARKU.

The new deburring machine features two sequential processing zones, which

deburr and round the cut edges on both sides in a single process. This eliminates the need to run the parts through the machine a second time, saving around half of the working time. Even large quantities can be handled quickly, therefore saving money. "The part costs are significantly below the level of other approaches or manual processing", emphasizes Hund.

The patented brush change click-system in the EdgeBreaker[®] 3000 provides further benefits. It enables quick and easy replacement of the abrasives and, thus, rapid and flexible adaptation





Double-sided deburring and edge-rounding for laser-cut parts in one process with the EdgeBreaker[®] 3000.

to the specific deburring task. In addition, the automatic calibration system measures the abrasive consumption and compensates for this automatically. The operator does not need to intervene.

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.

The ARKU blog - Everything you need to know about leveling and deburring

Our blog contains articles about leveling and deburring, valuable knowhow, useful information along with proven recommendations. Read our user reports and find out how our customers benefit from leveling and deburring machines. What is the added value of leveling and/or deburring with ARKU leveling and deburring machines? **Visit our blog: https://blog.arku.com/us/**



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Parts leveling

On the right track The freight car manufacturer AstralRail relies on the quality of ARKU levelers

Arad, Romania - Rails require precision: the railcar industry has some of the most precise manufacturing requirements in the transportation industry. Therefore, the rail and freight wagon car manufacturer needs very reliable machines to meet these demanding precision standards. The Romanian

in the consistent flatness of the parts after leveling. In the next step, they can be welded without any additional reworking. "At the same time, production is also more efficient because the setup times are lower." As a result, the FlatMaster® 88 creates valuable additional capacities for AstraRail. Operating



From the left: Thomas Weinfurtner, Sales at ARKU, and Alin Has, Head of the Investment Department at AstraRail, have found the right solution for enhancing the freight car manufacturer's productivity.



A critical eye: Thomas Weinfurtner and Alin Has (from left) are impressed with the leveling results of the FlatMaster® 88 from ARKU

company is revamping its machine lineup with the FlatMaster 88® from ARKU.

After many years of service, AstraRail has decided to retire its old leveler. The machine is no longer capable of meeting the demands of modern production. Alin Has, Head of the Investment Department at AstraRail, was searching for a replacement. Higher quality and efficiency were the key criteria.

in two shifts, the system can level 50 tons of sheet metal per day.

More than just the capabilities of the machine itself convinced Alin Has. ARKU distinguished itself with the implementation. The uncomplicated project management together with the rapid training of the employees accelerated the process. After only seven months, the machine was running at full capacity. In the process, the company with a long tradition has laid the foundations for modern production.

Strong partners

In September, ARKU welcomed seven apprentices and dual students (DHBW). They immediately set off to a three-day team seminar in the impressions accompany our students and trainees during their daily work", explains Albert Reiss, CEO of ARKU. In addition to leisure activities, the



Black Forest. Together with colleagues already in training, the young people demonstrated a lot of team spirit during a series of exciting outdoor activities. Archery was one of the highlight activities and demanded not only focus on the target and concentration but also teamwork.

"The experiences they share strengthen their sense of solidarity from the start. These positive

trainees also learned valuable professional knowledge. Industry 4.0 at ARKU was one main topic.

Currently, 12 apprentices are in training as industrial mechanics and mechatronic technicians. Ten students are completing their dual studies in mechanical engineering, mechatronics, electrical engineering and information science.

Tenth anniversary: A reason to celebrate

The annual ARKU Summer Festival took place at the headquarters in Baden-Baden. ARKU invited its employees and their families to enjoy a festive evening. The performance ARKU. After studying politics and management at the University of Constance, he joined ARKU as a trainee in marketing. In 2011, he transferred to Sales and became the Sales



"We chose the FlatMaster 88[®] because with this machine we are able to deliver the best products to our customers", explains Has. The primary benefit lies

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During this year's summer festival, Albert Reiss, company owner (left) honored Peter Eiswirt for his ten years of dedication to the company.

by the Baden-Baden rock musician, Sebastian Dracu, and the shining sun set the stage for a celebratory atmosphere.

During the event, Peter Eiswirt celebrated 10 years of employment at

Director for the Leveling and Deburring business units in the middle of this year. He also provides sales support for ARKU's subsidiary in China and makes an important contribution to the company's success.