

# Deburring and levelling of parts

From 19-21 May 2026, ARKU held its 2026 InfoDays in Baden-Baden, Germany. Just over 200 visitors experienced three days of hands-on experience and ideas for greater productivity in sheet metal processing. The focus was on new solutions for deburring fibre laser-cut and oxyfuel-cut parts, as well as intelligent part handling, precision levelling and laser cutting from coil.

"Visitors experienced our machines live, saw real-world applications and brought their own parts. ARKU InfoDays are all about hands-on technology, processes you can understand and practical solutions for everyday production," the surface finishing specialist told *ISMR*.

## Autonomous deburring of fibre laser-cut parts

A key focus of the InfoDays was the autonomous deburring of fibre laser-cut sheet metal parts. ARKU's new EdgeBreaker® 3000 FIBER was developed specifically for fibre laser burrs. Powerful sanding belts can remove even hard burrs. Special edge-rounding tools are designed for clean and consistent edges.

"The EdgeBreaker® 3000 FIBER processes both sides of a part simultaneously — in a single pass. This reduces processing time by up to 50 per cent. At the same time, process reliability increases. Parts no longer need to be flipped over and quality remains consistent. That is exactly what many manufacturers are looking for today: stable processes in the face of growing cost pressure," continued ARKU.

Live at the InfoDays event, ARKU showcased the combination of a deburring machine and the EasyBot vision robot.



The new EdgeBreaker® 3000 FIBER from ARKU.

The robot handles the entire loading and unloading process.

"EasyBot automatically detects different stacks of sheet metal without any programming or CAD data. It then precisely positions the sheet metal parts at the machine infeed and neatly stacks the finished parts afterward. The result: fewer physically demanding tasks and a return on investment starting with two-shift operation. This enables the automated processing of

sheet metal parts weighing up to 250kg, significantly reducing operator workload and giving them more time for value-added tasks," added ARKU.

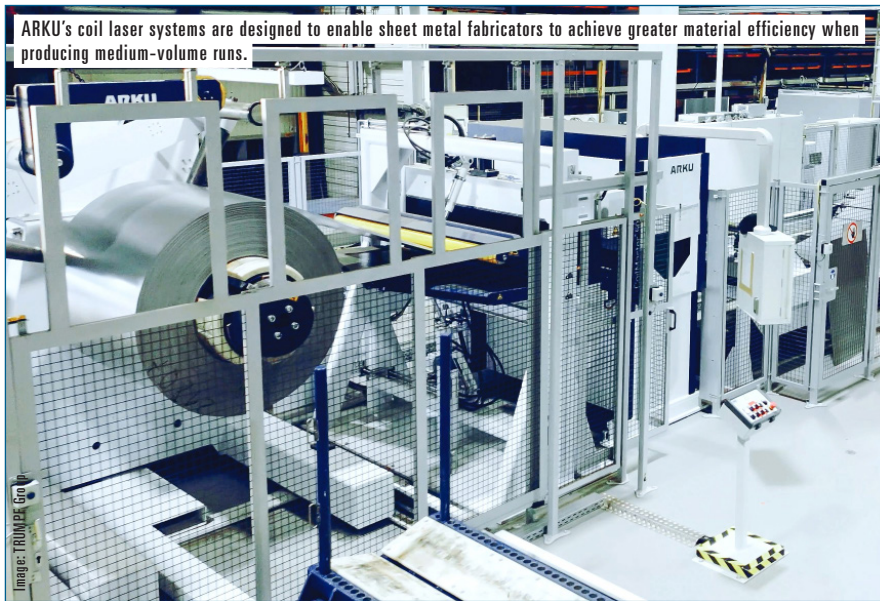
## Automatic deburring of small parts

ARKU also presenting a new automation solution for smaller parts: the Workee® in combination with the EdgeBreaker® 6000. This deburring machine, equipped with intelligent ARKU Wizard software, was specifically developed for punched and laser-cut parts and is particularly suitable for laser job shops.

"For small components weighing up to 25kg and the flexible range of parts typical of contract manufacturers, this combination of deburring machine and automation demonstrated its strengths. Small and medium batch sizes often present major automation challenges for many companies. Until now, robot or cobot solutions usually required extensive programming. This is exactly where the compact automation solution with vision technology is useful. The Workee® handles part loading and unloading autonomously — without programming



The Workee® automates the handling of small parts on the EdgeBreaker® 6000 deburring machine.



and without CAD data. Visitors experienced live how small sheet metal parts are automatically fed into the system and deburred," ARKU explained.

## Deburring of flame-cut parts and heavy burrs

With the EdgeBreaker® 4000 NEXT, ARKU presented the second generation of its solution for burned parts with large burrs and slag. It rounds edges and deburrs parts on both sides in a single pass. Even oxyfuel or plasma cut parts with heavy burrs can be processed.

"Thanks to its high-performance grinding drum, the EdgeBreaker® 4000 NEXT applies maximum force directly to the edge and processes parts of up to 125mm thick. At the same time, its intelligent Wizard system ensures a high level of user convenience and easy operation in everyday production. Visitors experienced live how burned parts were transformed into market-ready components with clean, reproducible edges," added ARKU.

## Levelling and laser cutting from coil

ARKU also showcased its full range of precision levelling machines, from the compact EcoMaster® for smaller parts to the high-performance FlatMaster®. The FlatMaster® series of precision levellers can process flame cut parts of up to 60mm thick.

Coil levelling and processing also played an important role during the InfoDays. Together with the integrated TruLaser 8000 from TRUMPF, ARKU presented the ARKU Coil Laser System live, demonstrating how modern coil processing works today.

"This technology is changing the way that sheet metal parts are manufactured.

Instead of processing individual sheets, the material runs continuously through the system as an endless strip. The laser cuts without interruption, eliminating downtime caused by sheet changes. This creates major advantages in material utilisation: parts can be nested far more flexibly, reducing scrap by up to 30 per cent in real-world applications. At the same time, productivity increases significantly," said ARKU.

"The Coil-Laser technology is especially effective for medium production runs. New contours or modified parts can be implemented immediately — without tool changes and without set-up times," it added.

ARKU's InfoDays showcased individual machines as well as complete process chains — from coil to the finished part, from deburring to autonomous part handling.

ARKU, founded in 1928 as a family-owned company, is a global specialist in roller levellers, coil lines and deburring technology. It provides a range of high-capacity and precision levellers, as well as deburring and edge-rounding machines. It also offers part-handling solutions for levelling and deburring machines.

With its headquarters in Baden-Baden, Germany, and ISO-certified facilities in Cincinnati (USA) and Kunshan (China), the company operates in over 30 countries.

ARKU also has toll processing services in three levelling and deburring centres in Baden-Baden (Germany), Cincinnati (USA) and, since January 2025, in Greenville (USA) with its latest machinery. It has also set up a 3000 sq.m. second production plant in Bühl, 15 kilometres from its main site in Baden-Baden. ■



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# Double sheet detection

**Manufacturers of** formed metal parts have long faced a persistent production challenge: reliably detecting double sheets before they reach the press. When two sheets adhere together unnoticed, the result can be damaged tooling, costly downtime and wasted material.

To address this issue, Contrinex has expanded its Smart Double-Sheet Sensor portfolio with a new version that allows direct configuration via any IO-Link Master, complementing the existing PocketCodr® configuration solution. This, said Contrinex, means that manufacturers can benefit from greater flexibility in sensor configuration. Non-contact operation extends sensor life by avoiding wear from repeated impacts with the workpiece

"A key benefit of our solution is its simple and versatile configuration process, allowing users to choose the method that best fits their production environment," explained the company.



The existing configuration method uses the PocketCodr® configurator with a dedicated mobile app. Technicians connect the sensor, enter the sheet material and thickness, and configure switching points in minutes with no programming required. This approach remains suitable for applications where the same material is processed consistently and a quick, straightforward set-up is preferred.

"The new sensor version introduces direct parameterisation via any IO-Link Master. This provides greater flexibility for automated production lines where different materials may be processed on the same system. Operators can easily adjust detection parameters—for example, when switching between steel and aluminium sheets—without replacing or manually reconfiguring the sensor," it said.

The sensors are designed to withstand challenges such as contaminants and harsh, extreme conditions. The sensors feature Full-Inox housings made from a single piece of V2A (AISI 304) stainless steel for durability and reliability. New ActivStone® coated versions are also available. ■



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