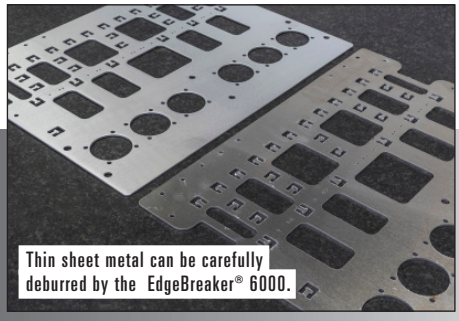
The new EdgeBreaker® 9000 Line combines the EdgeBreaker® 5000 slag hammer with the EdgeBreaker® 4000 deburring machine.

STRAIGHT AND SMOOTH



Thin sheet metal can be carefully deburred by the EdgeBreaker® 6000.

ISMR SAYS:

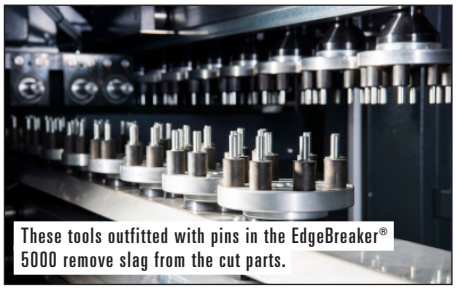
"New technologies, products and innovations were showcased at ARKU's InfoDays event, culminating in a trip to Bühl (ARKU's new production facility)."

ARKU's Levelling and Deburring InfoDays event took place from 8-12 May 2023 in Baden-Baden, Germany.

Information and networking around the topics of levelling and deburring were the focus of the ARKU Maschinenbau InfoDays. Held from **8-12 May 2023**, visitors could see ARKU's latest new products and innovations in Baden-Baden, Germany.

The highlight of the week-long event was ARKU's new machine combination; the EdgeBreaker® 9000 Line. This combination of the EdgeBreaker® 5000 slag hammer with the EdgeBreaker® 4000 deburring machine handles the complete processing of flame and plasma-cut parts in a single pass. This eliminates the need to reload the parts between slag removal and deburring.

"Since the two machines can be controlled centrally at the press of a button, only one operator is required. Each of the two machines in the EdgeBreaker® 9000 Line is equipped with the ARKU Connect. This allows other units such as blasting systems, precision levellers or robotic handling solutions to be interlinked effortlessly. At the Levelling and Deburring InfoDays 2023, visitors saw the two linked EdgeBreaker® machines live in action," the surface finishing specialist told *ISMR*.



These tools outfitted with pins in the EdgeBreaker® 5000 remove slag from the cut parts.

ARKU's new production facility in Bühl.

EdgeBreaker® with Wizard software

ARKU's new deburring machine for punched and laser-cut parts, the EdgeBreaker® 6000, was also on display at the event.

"We designed this machine to be very flexible when it comes to various processing requirements. It is particularly suitable for laser job shops who process a wide range of parts. Together with the Wizard software, less experienced employees can easily work with the machine. The Wizard uses four parameters to select the best suited tools from the available library. It also calculates the optimal throughput speed on its own. This way, the EdgeBreaker® 6000 works with maximum productivity and the deburring tools do not wear out too quickly," explained ARKU.

"We see a stronger desire for deburred sheets across all industries. This is an advantage for us because we can offer the option at any time," reported Johannes Hemmer, Plant Manager, TMS Metall-und-Stahlbau S.A. in Grevenmacher, Luxembourg, during the event.

At the InfoDays 2023, visitors also learned more about the interaction of the machine and the actual tools utilised during processing. Advice was offered on individual applications and ARKU tested sample parts brought by the visitors.

The EdgeBreaker® 6000 deburring machine, which ARKU developed particularly for laser job shops.

An eye on efficiency

Levelling was an important part of the InfoDays event. This year, ARKU focused on the automation of these processes mainly because an activity, such as loading and unloading a precision leveller, can be repetitive and is well suited to robots. Additional technology increases productivity even more.

"Visitors to Baden-Baden learned how man and machine work together optimally and why our robots do not need programming. We showed the interaction of the FlatMaster® 88 precision leveller, FlatJack® flatness control system and the EasyBot® vision robot," ARKU told *ISMR*.

Levelling is not only important for sheet-metal parts, but also when working with coil. For sheet-metal workers, ARKU has developed a new coil-fed laser blanking system with TRUMPF. This is designed for complete flexibility when it comes to producing medium-batch sizes directly from coil.

"Compared to blanks, cutting parts from the coil by laser saves a lot of waste. In addition, coil-fed laser blanking systems offer higher throughput than traditional laser cutting machines. Both factors reduce the cost per part, even for medium-batch sizes. We offered key information about coil-fed laser blanking systems at InfoDays," added ARKU.

Future student employees of ARKU had their own demonstration area during InfoDays. Among other things, they showcased how very specific small parts can be deburred with the EdgeBreaker® 6000. In addition, the students and trainees presented other projects during the event.

Visitors concluded their trip to Baden-Baden with a trip to Bühl, ARKU's new production facility. The new assembly line for deburring machines and the assembly of precision levellers was showcased. With this facility, ARKU has now increased its production and storage area by 50%. ■

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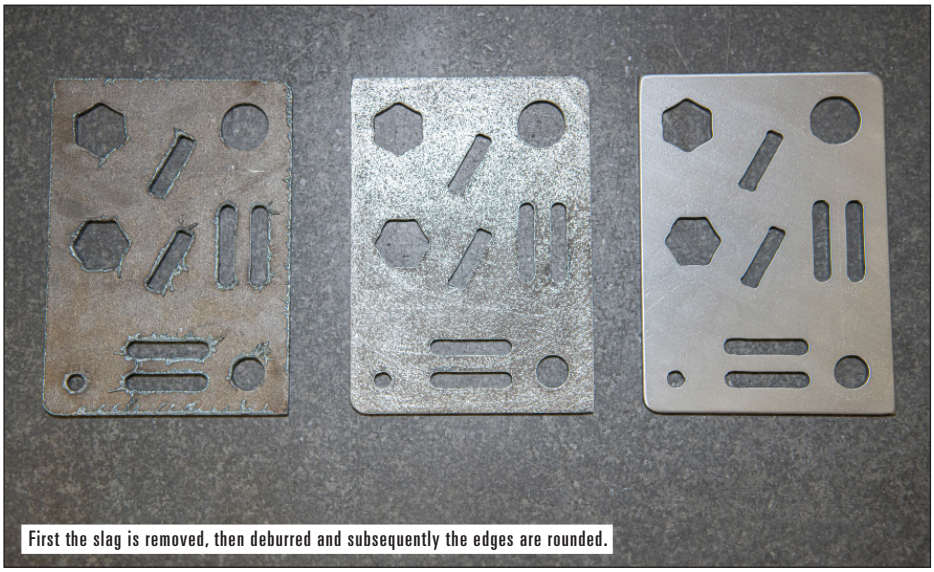

First the slag is removed, then deburred and subsequently the edges are rounded.

About ARKU

Founded in 1928, family-owned ARKU Maschinenbau GmbH is a market specialist in straightening technology with over 50 years of experience. The company offers an extensive range of high-capacity and precision levellers as well as deburring and rounding machines. In addition, it provides part handling around the straightening and deburring machines with its own business division.

With headquarters in Baden-Baden, Germany, and ISO-certified subsidiaries in Kunshan (China) and Cincinnati (USA), the company covers markets in over 30 countries. The product range includes precision parts straightening and deburring machines, automated parts handling with robots and complete coil lines. ARKU machines are used in industrial sheet-metal processing. This is mainly in the automotive, mechanical engineering and shipbuilding sectors.