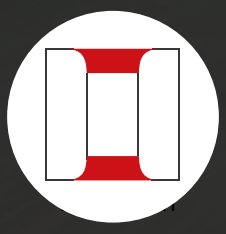
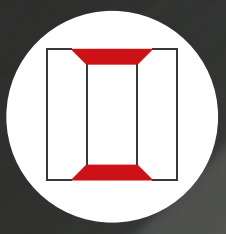
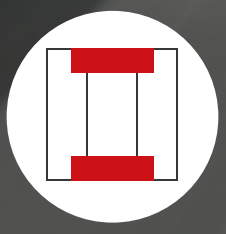
HEULE
PRECISION TOOLS

Automotive


Deburring


Chamfering


Counterboring


Drilling combined

ONE OPERATION

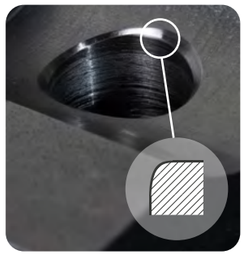
YOUR PARTNER IN AUTOMOTIVE MANUFACTURING

In automotive production, process stability and maximum cost-effectiveness are top priorities. Minimal cycle times, precise bore edges, and the highest repeatability are absolutely essential. Machining the back side of the bore presents a major challenge. Our tooling systems perform double-sided deburring, chamfering, counterboring or combination drilling directly on the machining center – without having to turn the workpiece and in just one operation. This optimises cycle times, reduces unit costs, and ensures the indispensable quality. After all, in modern vehicle components, bores are often critical to safety or function. Whether it's high-strength steel or castings with tight tolerances: where other solutions reach their limits, HEULE tools deliver the decisive productivity advantage.

TECHNOLOGY

In focus: the back of the bore. HEULE develops reliable tool solutions which machine both bore edges in a single operation – especially those hard-to-reach back edges. Solutions with combined drilling and customised solutions are also possible.

Deburring



HEULE deburring tools deburr **even and uneven** bore edges, **front and back in a single operation** – without turning the workpiece or stopping the spindle. The automated process is highly reliable and cost-effective.

COFA | DL2 | COFA-X

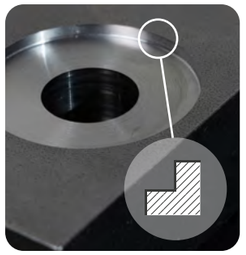
Chamfering



HEULE chamfering tools remove burrs on **both sides** of the bore while **creating a defined chamfer**. They are particularly suitable for fully automated CNC operations and large batch quantities and impress with their consistent chamfer sizes.

SNAP | DEFA | GH-K

Counterboring



HEULE backspotfacing tools machine the back of the bore **without turning the workpiece**. Backspotfacing is possible **up to 2.3 x bore diameter**. It is also possible to counterbore both sides of the bore and produce formed counterbores.

BSF | SOLO

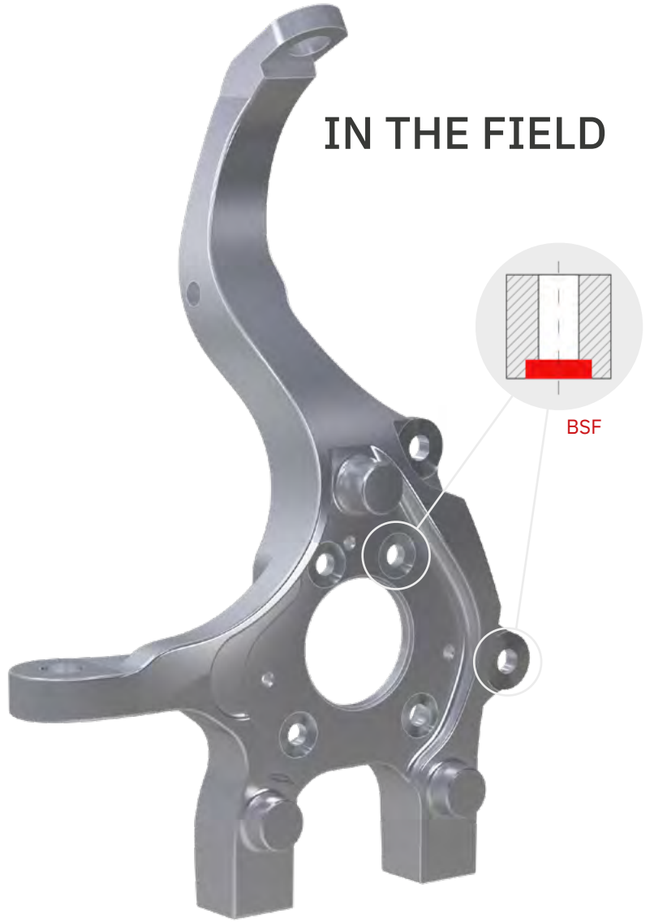
Drilling combined



HEULE's combination drilling tools simplify production processes by **combining drilling with deburring, chamfering, or counterboring.** Customised designs ensure the best possible optimisation of cycle times.

VEX | SNAP Module

IN THE FIELD



Wheel knuckle



A machine manufacturer was looking for a backspotfacing tool for the production of approximately 160,000 aluminium wheel knuckles per year. Requirements: short machining times and maximum process reliability. The task was to machine six bores of two different diameters per workpiece.

Since the customer had already been using the **BSF backspotfacer** reliably and successfully in other applications, the choice was quickly made. Machining is performed in a single setup without having to turn the workpiece.

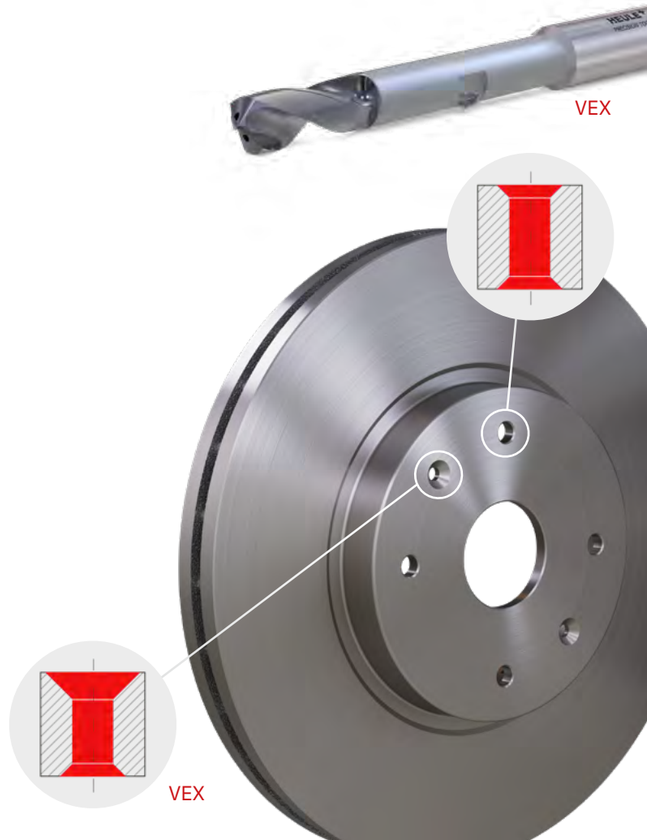
+ Time-consuming re-clamping of the workpiece is eliminated, resulting in a savings of **2,700 production hours** per year
+ 30% higher cutting speed compared to alternative solutions
+ Maximum process reliability and surface quality

Brake disc

A customer needs to manufacture one million brake discs, which is why the manufacturing process must be 100 per cent optimised. The goal is to drill and finish two different types of bores in the shortest possible time.

Until now, deburring has been carried out manually using simple countersinks on a solid column drill. The purely mechanically operated **VEX combination tools** from HEULE now create the bore and the chamfers on both sides in a single automated operation.

+ Elimination of manual machining and the time-consuming turning of the workpiece
+ Elimination of **8,500 hours** of manual work per year
+ Annual savings equivalent to around **5 employees**
+ Maximum process reliability with consistent chamfer size and quality
+ Tool life of up to **30,000 bores**



On-site worldwide

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