One Operation
Front and Back Machining of Bore Edges in One Single Pass
Since 1961, when HEULE Werkzeug AG was initially set up as a contract manufacturing business, our goal has been in reducing production times. At first, it was simply to meet our own needs that we developed tools that can front and back deburr, chamfer and countersink in one operation. Not long after, we were awarded a contract for our tool. That’s when we began helping other manufacturers to become more efficient with their production processes and we continue that mission still today.

HEULE is committed to the values of quality, precision and service. Competent service, fast delivery times, and customized solutions are the highest priorities. From all ranks, HEULE’s committed and motivated expert staff carry out their work with reliability and professionalism. HEULE provides and continually improves through innovative ideas and sophisticated technology. This is achieved with our state-of-the-art manufacturing equipment which gives us the flexibility to take unconventional approaches to our customers manufacturing needs.

HEULE continues its global presence and excellent customer service with its subsidiary offices in the United States, China and Korea, and experienced distribution partners that offer excellent advice and support to you locally.

Committed to Progress
Faster production times. More efficient processes. Superior parts.

Not only are we committed to our loyal employees and partnership-based customer relationships, we are also committed to the environment. Our state-of-the-art factory is eco-friendly and the air-condition emits zero carbon emissions. In the summer, we cool the interior and production equipment with groundwater. In the winter, we use heat pumps to utilize the ground water and the exhaust heat released by our production machinery for heating. We firmly believe that a philosophy dedicated to sustainability and the wise use of resources will secure our future.
What ultimately counts is the reduction of your unit costs. Front and back machining of bore edges in One Operation without having to turn the work piece will enable you to reduce your production times and eliminate the entire deburring operation outside of the machine.

All our tools are made of hardened tool steel and fitted with exchangeable carbide blades. The coatings and the geometries of the blades are matched to the material that is to be machined. This ensures a long service life of the blades and a long life cycle of the tools. All our tools have been specifically designed for use on automatic machine tools.

Through constant development of solutions for various customer applications, HEULE created a series of innovative precision tools for front and back deburring, chamfering and countersinking. Most of HEULE’s products are sold as standard stocked items, but with state-of-the-art engineering, they also provide custom solutions for customer’s specific needs.
COFA – The universal deburring tool.
The COFA tool removes burrs on the front and back of a drilled through-hole on even and uneven surfaces in a single cycle. It radially removes the burrs off the bore edges, without requiring the work piece to be turned or the spindle to be stopped. It can be applied universally in manual or automatic operations – for high volume production.

SNAP – The economic chamfering tool.
The SNAP tool is an efficient front and back chamfering tool that is easy to use and offers quick blade change, which makes it practical for any manufacturing environment. Without any need to turn the work piece or to stop the spindle, it removes the burrs and chamfers the edges. The SNAP tool has been designed for automatic operation involving large production lots.

DEFA – The chamfering tool for high dimensional accuracy.
The double bladed DEFA chamfering tools create predefined front and back chamfers in a single operation without stopping or reversing the spindle. The chamfer diameter can be adjusted on the tool. The DEFA tool is essentially used for the production of hard-to-machine materials especially when a large burr is involved.

VEX – The combined drilling and chamfering tool.
The VEX-S tool combines a replaceable solid carbide high performance twist drill with HEULE’s patented SNAP chamfering system to make drilling and front and back chamfering in a single process possible.

Innovations in Back Bore Machining
Boost production with unique solutions for high-volume manufacturing.
The SOLO tool allows for production of front and back countersinks and back spot facing of through holes with positive control in one operation without requiring the work piece to be turned. The blade is extended and retracted radially through the action of centrifugal force. The SOLO tool is distinguished by its ease of use and its high production reliability.

The GH-Z/E tool is a twin bladed front and back counterboring tool that produces accurate back spotfaces, large countersinks and precision forms. The two blades of the tool are radially extended and retracted by forced action when the direction of rotation of the spindle is reversed. GH-Z is especially distinguished by its high stability and rigidity.

The BSF tool concept allows back spot facing or back counterboring in one operation without turning the work piece. The robust tool is distinguished by its simplicity and high process reliability. The blade swings out into working position by the rotation of the spindle whereas the retraction is controlled by the internal coolant pressure of the machine.

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The GH-K has three exchangeable countersink blades which are precision ground as a match set to achieve unmatched countersink finishes. The tool feeds the coolant through an inner supply duct directly to the blade. GH-K is unique because of its large countersinking range from diam. Ø3 to diam. Ø25 mm or from diam. Ø5 to diam. Ø45 mm.

Precision Tools for Superior Parts
Make progress toward higher quality.
Work piece geometry, material, fixturing, machining process and the requirements that cutting tools are expected to fulfill vary from industry to industry. Since no application is like any other, HEULE’s unique cutting tool line offers standard and specialty tools for all your technical needs.

As solution finders, we take up this challenge. We offer you specific tools that are tailored to your individual application and will therefore offer you the best possible performance. On the basis of our standard technologies, we combine multiple operations in a single tool or adapt tool dimensions and blades to suit your machining concept. Thanks to our in-house development and manufacture of all components, we are flexible, dependable and fast.

Success Story

Our customer used to machine the lug bolt holes in two operations – first drilling using a step drill, then back deburring using an interpolation tool. With the HEULE Drilling Counterboring Combi Tool, they can now produce the bores in One Operation. The customer’s voice:

“The process time reduction is enormous. We have boosted output by 157 rims per day and per machine.”

Today, this customer applies our solution on all production units requiring back bore machining. The reduction of the cycle time, the long service life of the tools, and the easy blade changes that do not require any presetting have given a tremendous boost to their productivity.
Since 1961, Swiss-based HEULE Werkzeug AG has set the standard in the development of front and back deburring, chamfering, drilling, countersinking and back spotfacing tools in One Operation. We are committed to finding innovative solutions for customers.

Our global distribution network, including our subsidiaries in the United States, China, South Korea, and Germany, ensure HEULE’s worldwide presence. Our specialists are experienced in machining processes and offer excellent on-site support.

Customers worldwide attest to the high quality standard HEULE provides through innovative ideas and sophisticated technology.