



**FIVE AXES FOR SAW-CUTTING AT ALL POSITIONS**

HAGEcut systems can be used to saw-cut workpieces with up to two swiveling axes and three linear axes without having to reposition and re-clamp the workpieces.



**HIGH-PERFORMANCE CUTTING**

Automatically saw, deburr, and stamp a variety of section shapes and geometries at various cut angles - HAGEcut systems are designed with one purpose in mind: the perfect cut. Among other things, this means that workpieces are handled carefully without sacrificing any efficiency in the process.

**MORE THAN JUST A SAW**

HAGEcut systems can also be used for production steps required after saw-cutting, including stamping, brush deburring, and component handling.



**HAGECUT THE KEY TO A CLEAN CUT**

HAGEcut saw systems can be used to tackle the hardest materials out there in record time, all thanks to simultaneous sawing and machining as well as the dynamic robotic systems.

**FLEXIBILITY**

HAGE provides integral solutions that integrate saw-cutting into upstream and downstream processes.

**FAIRCUT**  
CUTTING SOLUTIONS



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**YOUR FAIRCUT | ADVANTAGES**



We form an important interface in cooperation with our customers. The aim is to implement your requirements in machining. The increased demands make it very important that our customers work with maximum productivity and efficiency.



Our ultimate objective is the sustainable satisfaction of our customers: Efficient & Effective

- process optimisation
- application technique
- sharpening and repair service
- pick-up-service

**FAIRCUT**  
CUTTING SOLUTIONS

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**OUR PARTNERS | PERFECT SYNERGY**

Behind Faircut cutting solutions is a living network of different partners. The partnerships of Faircut cutting solutions are characterized by a long-term & tight cooperation. We provide our customers with consistently high-quality-solutions, indicate the quality of the trusting cooperation with our partners.

**COMPETENT AND INNOVATIVE**  
 YOUR CONTACT FOR SAWING TECHNOLOGY



# FAIRCUT CUTTING SOLUTIONS

Competent, innovative and with a global experience, Faircut cutting solutions is your contact for sawing technology. Our task is to find not only the right saw blade for cutting, but also to define appropriate strategies in terms of sawing.

## OUR PRODUCT AT A GLANCE

We offer circular saw blades for industrial use, which are precisely aligned with the current requirements.

- Circular saw blades for industrial use
- Visionary machine concepts | Sawing and milling
- High-performance cutting oils and spraying systems



## HIGH-PERFORMANCE CUTTING OILS AND SPRAYING SYSTEMS

### MINIMUM QUANTITY LUBRICATION | COOLING WITH MAXIMUM EFFICIENCY

The very advanced components of the UNICUT® products are especially adjusted to the different materials and working designs, made-to-measure for your need. Our minimum amount cooling/lubrication fluids and systems distinguish themselves by their low and thus cost-effective consumption. Tools are saved, change of tools and standstills are reduced. The positive result is production and capacity increase.

### APPLICATIONS

UNICUT® minimum quantity lubrication systems offer a wide range of possible applications with the focus on circular saws, band saws, as well as cutting and slitting lines. Additionally, we can realize custom-made solutions to meet our clients' individual needs.

### HIGH-PERFORMANCE CUTTING OILS THE ALLROUNDER: UNICUT® BASIC-V

Range of services: Wide range, all-round  
Materials: Aluminium, non-ferrous metals, C steels and CrNi steels  
Characteristics: Based on mineral oil, medium viscous, high temperature resistant, all-purpose use  
Machining methods: Circular sawing, band sawing, milling, ingot milling, rubbing, reaming, turning



### BENEFITS COMPARED TO OTHER LUBRICATION SYSTEMS

- Easy quantity control
- Reproducible results
- Very low consumption between 0,03-3,0 gram/minute
- Nearly maintenance-free
- Extremely reliable
- Oil and air flow can be adjusted independently due to the innovative Unicut X-plate
- Network solutions according to the customer's requirements
- Very precise low-mist spray pattern
- Easy to maintain
- Solid design



### MONSTER | CUT NEW SAW BLADE GENERATION

The crucial difference for the patent-pending Monster | cut system is that the inserts (saw teeth) are not brazed onto the main body of tool steel, but glued. The adherence of the inserts may individually or completely be carried out fully automatically. The glue, the fully automatic machine and a corresponding developed teeth loading system, has been developed in cooperation with partner companies.



### THE ADVANTAGES AT A GLANCE

- Tooth pitch from 12mm available, on this way the process for tube & solid is possible
- Dimensions of saw blades: 500mm - 2300mm
- Thin-cutting-width-technology (TCWT) available for all dimensions
- Inserts from 4mm cutting-width available
- Improved energy efficacy (less power consumption, up to minus 50%)
- Resource efficient, less waste
- Decrease of chip quantity by thin-cutting-width-technology (TCWT)
- Increased cutting speed
- Increased live performances through the use of coated inserts
- Less set-up and stop times
- Easy handling and documentation through iblade - RFID technology



### IRON | LADY THE HIGH-END SOLUTION

Circular saw blades developed for cutting off stainless and other high-strength steels with a hardness more than 650N/mm<sup>2</sup>.

### APPLICATION

For high speed rates on fully-automatic saw machines.

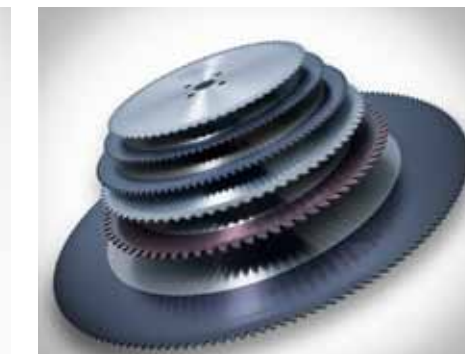
- Recommended cutting parameters:  
Cutting speed: 100 - 250m/min.  
Feed rate: 0,06 - 0,24mm/tooth

Stainless steel:

- Recommended cutting parameters:  
Cutting speed: 30 - 100m/min.  
Feed rate: 0,04 - 0,09mm/tooth

### APPLICATION EXAMPLE:

- iron | lady 350x2,5mm Z180 (Chipbreaker)
- Saw machine: Rattunde
- Material: 1.4835 (32x1,5mm, twin cut)
- Result: 1900 strokes/competitor: 800 strokes



### CHALLENGE & CONCEPT TOP SELLER

The carbide tipped circular saw blades challenge and concept are developed for cutting off tubes, steel shapes and solid bars with high speed rates. All the tools are produced and engineered according to our technical specifications by our european partners. Innovative tooth shapes, high quality grinding processes and dedicated carbides qualities as well as new PVD - coatings ensures high profitability.

Standard sizes  
Ø 250mm up to 690mm