



**WEBER
ULTRASONICS**


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THE ULTIMATE CUT

CUTTING WITH ULTRASOUND



FOR A GOOD CUT

INNOVATIVE RESONANT CUTTING SOLUTIONS FOR THE PRODUCTION INDUSTRIES OF THE FUTURE

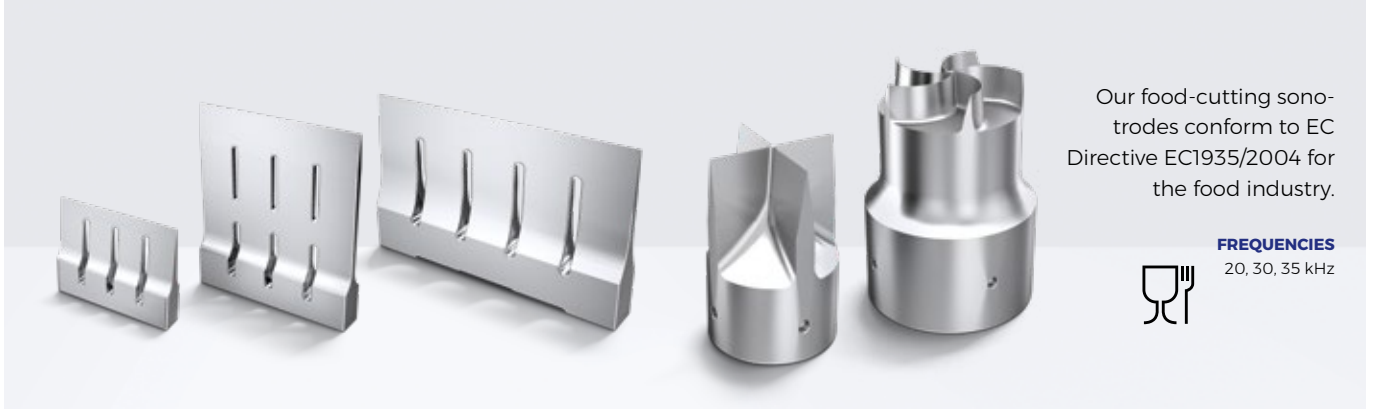
Intelligent ultrasonic cutting has become the preferred process for precise, clean, and fast cuts in many sectors. Whether you are cutting into or through foods, such as dough, cake, and cheese, or are separating materials like fleeces, carpets, foams, rubber, lightweight materials, foils, or textiles without fraying the cutting edges - Industry 4.0-enabled ultrasonic technology is just the right tool for you.

Another advantage of this method is that the combination of cutting and welding applications allows you to seal the cut edges in one operation. Even with critical materials that give off large amounts of hazardous dust and particles in conventional processing such as milling, resonant blades ensure a smooth, dust-free, and quick cut.

A high degree of process stability, the reproducibility of the results, and the time savings from the speed of the process are just some of the advantages gained from using ultrasonic technology. Our cutting solutions can be used vertically and horizontally in line with your own specific requirements - allowing both timed and continuous cutting.

Matched to your individual requirements, we offer a comprehensive product range of generators, boosters, converters, and sonotrodes for ultrasonic cutting, as well as advice and service from one source.

BLADE SONOTRODES FOR CUTTING FOODSTUFFS



Our food-cutting sonotrodes conform to EC Directive EC1935/2004 for the food industry.

FREQUENCIES
20, 30, 35 kHz



CONVERTERS CUTTING CONVERTERS



FREQUENCIES
20, 30, 35 kHz
POWER OUTPUT
200 W - 2,000 W

We offer you converters for all common frequencies and power classes. Their titanium-aluminum alloy finish makes them particularly durable. Available in a planar design together with a matching booster or as a fixed-mounting unit for direct sonotrode attachment.

BOOSTERS FOR AMPLITUDE TRANSFORMATION



FREQUENCIES
20, 30, 35 kHz
TRANSFORMATIONS
1:0.6/0.8
1:1/1.25/1.5
1:2/2.5

Boosters, or also amplitude transformation units, serve as a bridge between the converter and sonotrode, transferring the oscillations and allowing the operating frequency to be precisely adapted to a very wide range of applications.

SONIC DIGITAL HS3 GENERATOR



FREQUENCIES
20, 30, 35 kHz
POWER OUTPUT
400 - 2,000 W

The Sonic Digital HS3 is the first choice generator for industrial installations. It offers flexible installation, easy integration into control processes, high efficiency, and compatibility with other system components.



CUTTING SONOTRODES

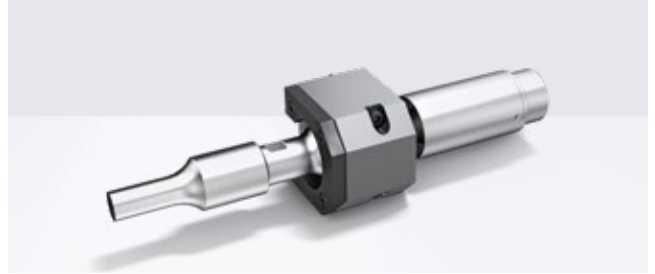
FOR OTHER APPLICATIONS



Our sonotrodes are always developed according to customer and product-specific requirements using the finite element method. We use high-grade materials such as titanium, aluminum alloys, and sintered steel in their production.

QUICK CHANGE MODULE

FOR ROBOTIC APPLICATIONS



To facilitate quick, easy, and secure replacement of the entire transducer unit and avoid operator errors, we use indexed positioning mechanisms for our quick change modules.

FLANGE CONVERTERS

FOR ROBOTIC APPLICATIONS



Flange converters are designed as weight-reduced units and enable quick and easy integration into robotic applications with the standardized quick-release fastener.

HSK MOUNTING FIXTURE

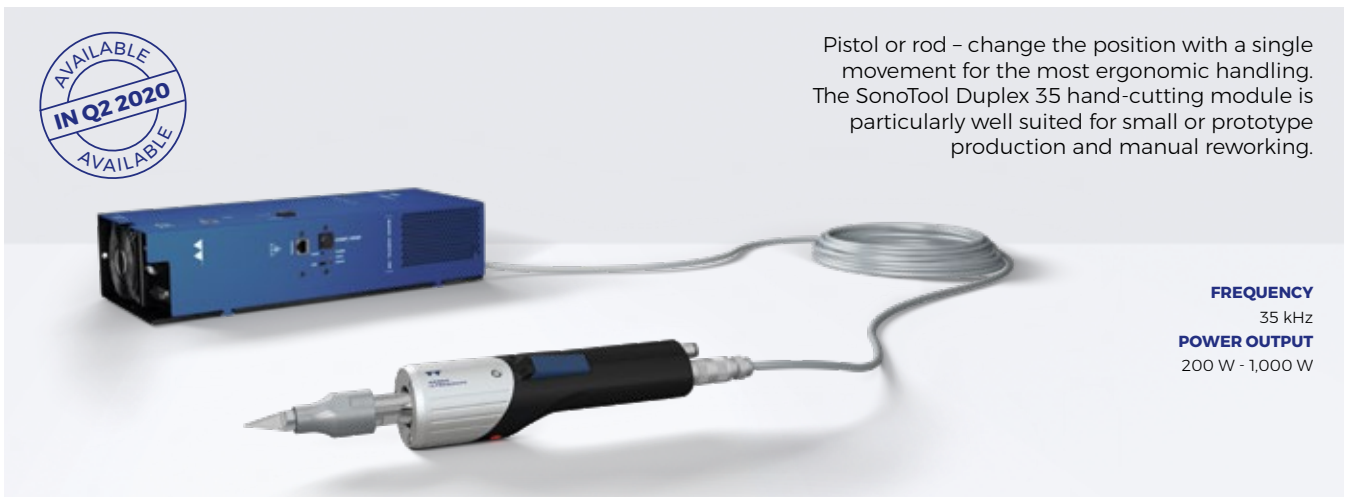
FOR TOOL MACHINES



The HSK mounting fixture with integrated converter allows easy adaptation in the spindle mounting fixtures of tool machines.

SONOTOOL DUPLEX 35

HANDHELD CUTTING MODULE



SONOTRANS SYSTEM

RESONANT CUTTING SYSTEM FOR INNOVATIVE MATERIALS



SONOTRANS SYSTEM

WITH QUICK CHANGE MODULE



SonoTrans system with quick change module for robotic systems

SONOTRANS SYSTEM

WITH HSK MOUNTING FIXTURE



SonoTrans system with HSK mounting fixture for tool machines

Revolutionize your production processes.

Ultrasonic solutions from Weber Ultrasonics.

We see knowledge and action as one. We know the potential of ultrasonic technology because we repeatedly and successfully surpass its limits through our own research. And we have internalized the success criteria in your industry based on our many years of industry experience. We convert knowledge into success. Into your success.

Increase your competitiveness through new, more productive production processes. Discover new dimensions in cutting technology and use our pioneering ultrasonic cutting systems to tap new, lucrative markets. Talk to our competent sales employees to receive detailed advice and look forward to a genuinely successful partnership.

WE KNOW, WE DO

Certified Quality

How do you benefit from this?
With top-level technology and service.



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