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ULTRASONICS TECHNOLOGY

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Two frequencies. One machine. Countless applications

Ultrasonic technology rethought: iSONIC ECO TM

The iSONIC ECO TM combines everything that modern production processes require: a compact, modular design combined with a powerful, purely electric stepper drive - completely without compressed air.This makes it maintenance-free, cost-efficient and particularly environmentally friendly. Two integrated frequencies and innovative interchangeable holders offer a wide range of possible applications - whether welding, punching, embossing or riveting. Ideal for the automotive industry, plastics processing, technical textiles and the packaging and food industries.

Ultrasonic in perfection –
Energy-efficient & flexibly applicable

The iSONIC ECO TM offers modern technology in a compact design. The swivelling 12-inch touch display enables intuitive operation and clear visualization. Optionally, a Waveshare 9.3“ display can be integrated – for an even more detailed representation of all process parameters. All electrical components are housed in the external control cabinet to save space. This keeps the machine slim, flexible to set up and particularly easy to transport - and thanks to plug-in connections, it is ready for operation in no time at all.

Compared to traditional thermal processes, ultrasonic scores with significantly higher energy efficiency: no warm-up time is required, which saves time and resources. If the application requires it, thermal or contactless welding methods can also be added.

Benefits
100 % electric - no compressed air no maintenance required
Compact design - ideal for limited production areas
Two ultrasonic frequencies - flexible use for a wide variety of materials
Modular & mobile - external com components, pluggable connections
Intuitive operation - 12” touch display with clear visualization
Energy efficient - no warm-up time time, low operating costs

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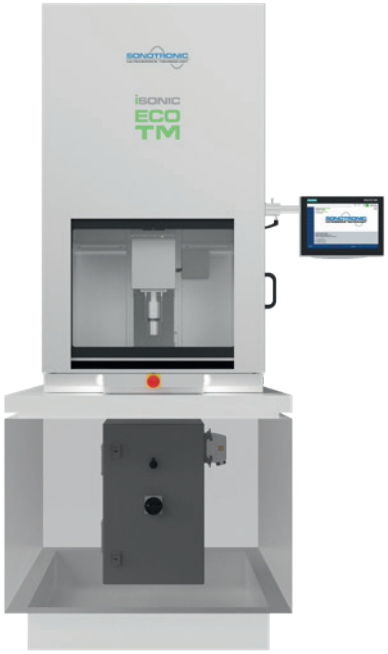
Accessories for maximum flexibility of the iSONIC ECO TM

With sliding table
For ergonomic positioning of the components under the probe



With sound insulation hood
To reduce the noise emission

With film feed unit
For the protection of sensitive component surfaces

Technical data				
Operating frequencies*	20 kHz		30 kHz	35 kHz
Output power [W]	1.000 / 1.500 / 2.000	3.000 / 4.000	2.000	400 / 800 / 1.200
Electrical connection	230V AC + PE	3 x 400V AC+N+PE	230V AC + PE	230V AC + PE
Mains frequency	50 Hz	50 Hz	50 Hz	50 Hz
Power consumption	4,3A / 6,5A / 8,7A	4,3A / 5,7A	8,7A	1,7A / 3,5A / 5,2A
Electrical welding force	50 N – 2.100 N Depending on the drive variant			
Working stroke Welding head	100 mm			
Height adjustment of welding unit	200 mm			
Dimensions iSONIC TM [WxHxD]	690 mm x 1150 mm x 730 mm			
Control cabinet dimensions [WxHxD]	380 mm x 600 mm x 350 mm			
Workpiece clamping plate	300 mm x 300 mm x 12 mm			
Weight iSONIC ECO TM	150 kg			
Switch cabinet weight	max. approx. 40 kg (depending on configuration)			

*Optional conversion of the operating frequencies by exchanging the ultrasonic components

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