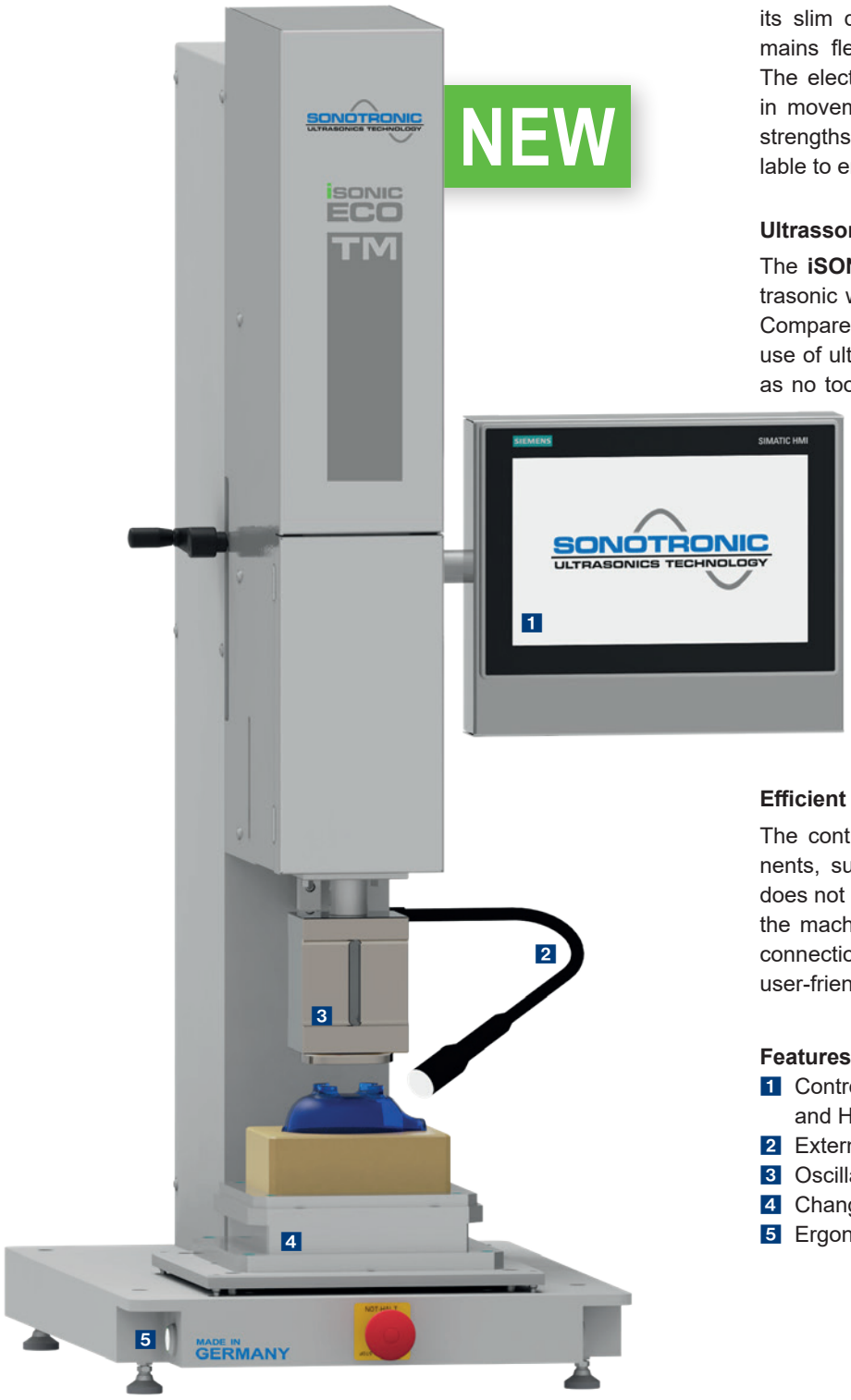
iSONIC ECO TM

Ultrasonic power with dual drive option – electric or pneumatic



Drive technologies as required

Which drive do you prefer? Electric or pneumatic? The **iSONIC ECO TM** is designed to offer both options. With its slim design and versatility, this tabletop machine remains flexible for your individual application processes. The electric drive demonstrates its outstanding efficiency in movement tasks, while the pneumatic drive shows its strengths in holding times. Various cylinder sizes are available to ensure maximum force.

Ultrassonic in perfection

The **iSONIC ECO TM**, electric or pneumatic, masters ultrasonic welding, riveting, embossing, cutting and sealing. Compared to conventional thermal welding processes, the use of ultrasound is characterized by its energy efficiency, as no tool heating is required. However, if the application requires it, thermal or non-contact welding methods can be used. The combination of efficiency and flexibility makes the **iSONIC ECO TM** the perfect solution for application processes in the automotive, plastics, technical textiles and packaging & food industries.

Intuitive operation and programming

The swivel-mounted control panel has a smart 12“ touch display and therefore offers simple and user-friendly control.

Efficient workspace

The control cabinet with the electrical parts and components, such as the generator, is installed externally and does not interfere with the actual work process. This keeps the machine slim, flexible and easy to reposition. Plug-in connections on the machine and control cabinet offer user-friendliness and transportability in one.

Features iSONIC ECO TM

1. Control panel with 12“ touch display and HTML 5-based programming
2. External lighting (right)
3. Oscillating element changing system
4. Changing system for the component holder (optional)
5. Ergonomic 2-hand operation

iSONIC ECO TM

Adapts to requirements and can be supplemented with accessories

1. **Acoustic protection hood** to reduce noise emissions
2. **Film feed unit** to protect sensitive component surfaces
3. **Sliding table** for ergonomic positioning of the components under the sonotrode
4. **Changing system for the component holder** for quick tool change

iSONIC ECO TM P63
View without cover with pneumatic drive, 63 cylinder, 20 kHz

iSONIC ECO TM
With acoustic protection hood, sliding table and film feed unit

iSONIC ECO TM STEP
View without cover with electric drive, 20 kHz

Technical data				
Operating frequencies*	20 kHz		30 kHz	35 kHz
Output powe [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
Pneumatic welding force	63 or 80 cylinder = 280 N – 2200 N		40 cylinder = 120 N – 660 N	
Electric welding force	50 N – 1.850 N			
Air consumption	110 NL/min			
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]	710 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 Schaltschrank	50 kg			

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

SONOTRONIC GmbH ▪ Becker-Göring-Str. 17-25 ▪ 76307 Karlsbad-Ittersbach, Germany