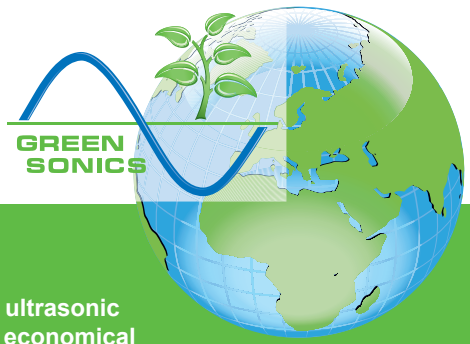
SONOTRONIC
ULTRASONICS TECHNOLOGY

Eco friendly packaging

Ultrasonic roll seam module with cantilevered sonotrode for integration into existing or new packaging machine concepts



The use of ultrasonic systems is an economical process for sealing environmentally friendly packaging materials. In contrast to other thermal processes, ultrasonic technology allows the use of mono films, since no heat-insensitive outer layer has to be laminated onto the film. Furthermore, the continuous ultrasonic process can also be used to seal very thin polymer films (15 µm) in high quality, which is not possible with other thermal processes.
This has not been possible to date with other thermal sealing systems.

Compared to other sealing methods, ultrasonic sealing technology consumes up to 75% less electrical energy during the manufacturing processes.

Advantages

- Continuous weld seams
- Tight seal seams even with product wetted areas
- No heat radiation that damages the product or the film
- Mounting directly underneath the bag
- Sealing of mono films and very thin films (15 µm) possible
- No slippage or rippling of the film
- Use in VFFS and HFFS machines as well as for the production of four-seal edge pouches
- Eco friendly and energy-saving
- Stepless starting and stopping

Ultrasonic sealing units for sustainable packaging solutions – high product safety with reduced packaging material consumption

Roll seam module with canilevered sonotrode V2.0: Technical data	
Welding process	Ultrasonic with rotating titanium sonotrode of 10 mm or steel sonotrode of 7 mm (for cut & seal)
Welding force [N]	161 - 482
Frequency [kHz]	35
Power [W]	400
Welding speed [m/min]	max. 120
Welding seam width [mm]	max. 10
Drive of the sonotrode	Servo motor
Amplitude regulations	Proportional to the welding speed possible
Compressed air [bar]	max. 6
Connections	1 x 230 V, 16 A

More info online

Tubular bag packaging made of recyclable mono-material

Efficient processes for versatile packaging applications

With our ultrasonic systems, process and set-up times are very short, thus increasing the productivity of packaging machines. In addition, permanent monitoring of the sealing parameters is ensured and assures process control.

Especially packaging materials with thermoplastic sealing layers achieve optimal melt bonds with ultrasonic. Consequently, ultrasonic is also suitable for cardboard or paper as well as packaging materials of more complex structure. In order to better adapt the packaging materials to the ultrasonic technology, we continuously optimize them together with the film manufacturers.

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