

## Partner for ultrasonic technology in the packaging industry

- Application-specific solutions for sealing, punching and cutting different types of packaging using ultrasonic
- Development and production of ultrasonic units and assemblies, as well as complex special machines
- More than 45 years of experience in plastics joining and roughly 200 customized projects per year



### Ultrasonic technologies

- Sealing
- Punching
- Cutting

### Applications

- Stand-up and flat pouches with or without spouts, e.g. for drink cartons or pet food
- Form-fill-seal-bags and pouches, e.g. wound pads
- Tubular bags, e.g. for salad or cheese
- Blister packs, cups, capsules and trays, e.g. for coffee pads, coffee capsules, drugs, hygiene articles or electronic consumer goods
- Tubes, e.g. for toothpaste
- Thermoplastic-coated cartons, e.g. for milk or juice cartons
- Folding boxes, e.g. for gifts

### Properties and advantages of ultrasonic technology

- Air and water tight seams, even in contaminated areas
- No adhesives or solvents are required
- Eco-friendly: very low energy consumption thanks to short sealing or punching process
- Very thin packaging materials can be used
- Different materials can be worked on their own or in combination
- High quality: visually perfect and durable sealing results
- Cold tools: ideal for heat-sensitive goods
- High cycle rates and process optimization

### Consulting and Applications Engineering

We offer skilled project advice and monitoring:

- Consultancy
- Practical tests

### Ultrasonic systems for packaging

- Head sealing unit KSE:  
Mechanical sealing tongs for free head sealing of upright and flat bags
- Tube sealing unit TSE:  
Sealing the ends of tubes securely and tightly
- Sonotrode table: Sealing and punching of blister packs, trays, pots, cups or capsules in one step
- Ultrasonic sealing systems for tubular bags: Absolutely tight seal seams and extremely material and energy efficient
- Ultrasonic sealing systems for bags: Sealing of prefabricated, flat-ended bags and flat bags
- Ultrasonic roll seam module with cantilevered sonotrode:  
Continuous sealing and weld separation without interfering contours
- Ultrasonic welding systems for cartons:  
Suitable for cartons which are coated with a weldable surface
- Ultrasonic cutting systems for food:  
Whether in large industrial bakeries, in confectionery manufacture or cheese-making – our ultrasonic cutting technology is versatile in application

### Ultrasonic components

100% SONOTRONIC: production according to own design and in-house manufacture to high quality standards at our own production centre:

- Converters
- Sonotrodes
- Anvils & Parts nests
- Boosters
- Feed units
- Ultrasonic generators

### Ultrasonic standard machines

- ECOFLEX iSONIC: Modular cabins with individual working area for small and medium-sized parts
- ECO iSONIC: Bench-top machines with feed unit in 35, 30 and 20 kHz for small parts
- NC iSONIC: Bench-top machine with servo drive an open control concept



## Linked with success: tradition. progress. future. Made in Germany.

With innovative energy and always with an eye to quality we design and produce machines, components and systems for joining plastics by ultrasonic. Our products are used worldwide by well-known OEMs in the manufacture of plastic interior and exterior parts. Above and beyond this, SONOTRONIC also develops and manufactures hi-tech ultrasonic systems for the plastics, packaging, foodstuff, textile, medical and environmental industries. As a strongly developing technology company we work with more than 300 employees at the headquarters in Karlsbad, as well as in our branches in Spain, USA and China.



### Current data

- Owner and CEO: Ingo Nagel
- Year of foundation: 1974
- Number of employees: 300
- Export ratio: 60 %
- Turnover 2021: ~45 million €
- Quality management: EN ISO 9001
- Environmental management: EN ISO 14001

### Industry solutions

- Automotive
- Plastics
- Packaging & Food
- Technical Textiles
- Environmental

V-Card  
SONOTRONIC  
Germany



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### Agents

- Bursa, Turkey
- Huizhou, China (production)
- Johannesburg, South Africa
- Kawasaki, Japan
- Kuala Lumpur, Malaysia
- London, UK
- Marietta, Georgia, USA
- Puebla, Mexico
- Sao Paulo, Brazil
- Vallentuna, Sweden