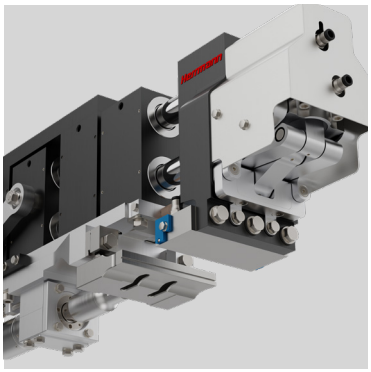
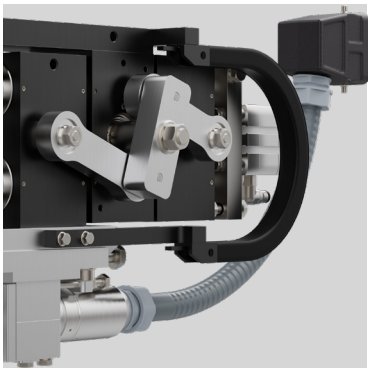
TSM

Top Seal Module

ULTRASONIC SEALING TECHNOLOGY





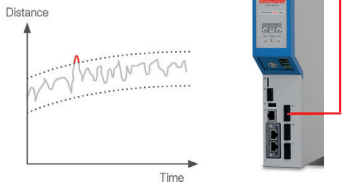

Herrmann Ultrasonics

TSM
For ultrasonic sealing of pouches

The TSM from Herrmann Ultrasonics brings together the experiences from thousands of top-seal stations across the globe. Its modular design enables easy configuration for a variety of packaging machine types. Whether integrated into new machinery or retrofitted onto existing ones, the TSM seamlessly enhances sealing operations. If the system is designed with ingress protection class IP65/67, the TSM is also suitable for use in washdown or dusty environments requiring advanced cleaning protocols. For space-constrained settings, we offer the TSM Slim, while the TSM XL supports larger pouch formats. Explore our extensive network of global OEM partnerships for tailored solutions to meet your specific requirements.

Integrated process control

The TSM includes our High-precision Distance Measurement (HDM) sensor to detect double, folded, or missing pouches before sealing. The generator provides process parameters for evaluating each closure, ensuring consistent quality control of packaging machine sealing stations. It includes closed-loop feedback, which involves monitoring parameters to drive the desired hermetic and cosmetic seal outcomes with trusted and consistent integrity.

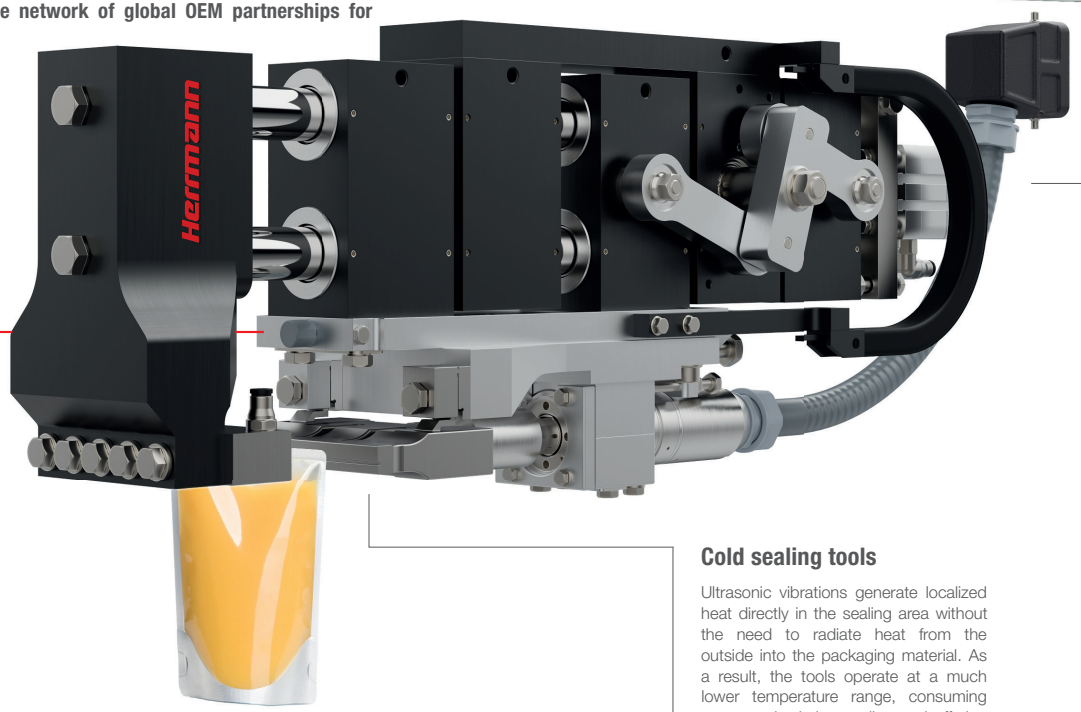


Modular setup

The TSM product range offers modular configurations to meet the demands of different installations. We have a variety of standard tool widths and pneumatic force cylinder sizes available. The drive can be mounted either on the left or on the right side of the TSM. This is particularly advantageous for duplex systems or limited space.

ULTRAPACK generators

Highly effective and efficient generators are available for both intermittent and continuous applications. The digital generators are designed for use with fast-operating packaging machines. The powerful software functions allow for precise control of the optimal sealing process resulting in the highest possible sealing quality for your products. Industry standard fieldbus options are available for real-time process control with a Programmable Logic Controller PLC.



Consistent sealing

The pneumatic force cylinder enables optimal sealing pressure. This pre-load capability guarantees process stability, even during high machine speeds, facilitating efficient operations. These advantages promote consistent quality, product integrity, efficiency, versatility, and waste reduction. Electronic force adjustment is available for further customization.

Flexible drive options

The TSM jaws offer versatility in drive options, utilizing servo, cam, or pneumatic actuations. Multiple drive shaft configurations are available to fit your specific production requirements.

Cold sealing tools

Ultrasonic vibrations generate localized heat directly in the sealing area without the need to radiate heat from the outside into the packaging material. As a result, the tools operate at a much lower temperature range, consuming energy only during sealing and offering significant energy savings.

Advantages of ultrasonic sealing technology

- Hermetic sealing through contamination
- Increased productivity
- Integrated quality control
- Low maintenance and machine downtime
- Cold sealing tools protect the filling goods and the packaging materials
- Reduced headspace for improved product shelf life and material utilization
- Ability to seal mono-materials, including paper substrates

Application examples

- Retort ready meals
- Military MRE
- Wet pet food
- Beverages
- Proteins
- Powders
- Soups
- Fresh-cut foods
- Energy gels
- Shredded cheese
- Liquid cosmetics
- Ask us...

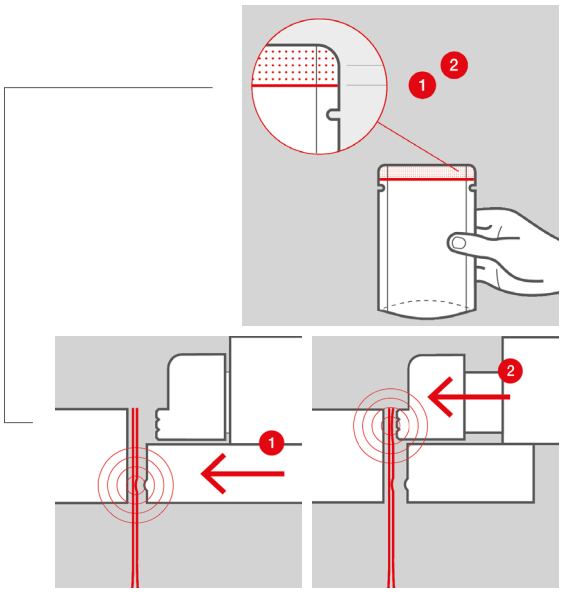
Herrmann Ultrasonics

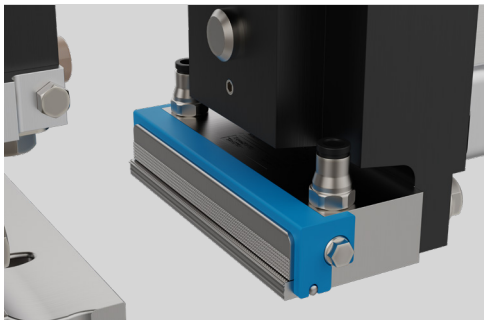
Ultrasonic sealing technology
For packaging

COS
Cosmetic Seal

The TSM integrated COS option revolutionizes packaging sealing stations, seamlessly merging efficiency with aesthetics in a single station.

By integrating COS, you can streamline your packaging process and meet productivity goals by reducing the number of stations required. Our technology eliminates the need for a heat and subsequent cooling unit, resulting in additional energy reduction. The freed-up space can be utilized to integrate an inspection rejection, printer, or nitrogen flush station. With our hermetic seal and the sequential COS option, your products are guaranteed to meet the rigorous standards of the packaging industry.





Advantages of TSM ultrasonic sealing with the COS option

- Produce a hermetic and cosmetic seal in one station
- Reduced energy costs, packaging machine space, and waste
- Consistent, visually attractive sealed pouches

Technical data Top Seal Module TSM

TYPE DESIGNATION	TSM35	TSM30
Frequency [kHz]	35	30
Sealing length [mm] [inch]	40 - 130 | 1.57 - 5.12	80 - 207 | 3.15 - 8.15
Generator output [W]	1200	1800
Sealing force max. 6 bar [N]	750	1200
Opening width max. [mm] [inch]	100 / 3.94 | 50 / 1.97	
Possible drives	Servo, rotary cam, pneumatic	
Dimension L x W x H [mm] [inch]	615 x 150 x 210 | 24.22 x 5.90 x 8.27	
Power requirement [VAC]	230 +10% / -15%	

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