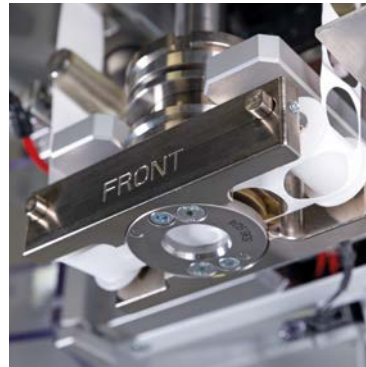


# MPW

## ULTRASONIC WELDING TECHNOLOGY



# Punch & seal module MPW.

## Ultrasonic punching and sealing in one step.

The Herrmann product line MPW, modular punch welding system, combines three production steps in one process: Punching, applying, and sealing. This allows cycle times of less than two seconds – which saves on costs and guarantees high reproducibility.

### Individual configuration

Roll diameter and tape width are freely configurable depending on the membrane material used.

### Flexible design

Customer-specific mounting variants of the tape applicator guarantee easy access to the individual machine components.

### High reproducibility

Circular blank diameters from 6 to 22 mm are achieved with precision tools and intelligent tape feeding; guaranteeing precise reproducible membrane positioning.



### Outstandingly efficient

Membranes are also used as so-called PBE (pressure balancing elements), in addition to their application as filter elements. They protect against the formation of condensation and changes in pressure. The application and processing of the individual membrane have to meet the highest quality requirements.

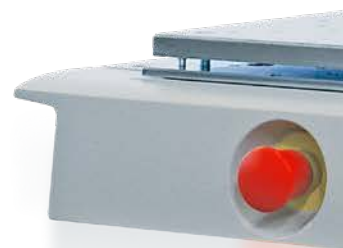
The MPW was developed specifically for this application – punching membranes out of a strip of material mechanically and sealing them onto a plastic part ultrasonically in only one production step – thus saving time and costs efficiently.

### Easy system integration

Four different product lines enable simple and individual integration into automation lines.

### Safeguarding process data

All produced process data can be reliably saved and archived with the optional DataRecorder G3. This allows process optimizations and continuous traceability.





## Ready for Industry 4.0

The MPW system can be integrated into superordinate systems via standardized field buses (e.g. PROFINET).

## Vacuum process control

The MPW system reliably checks for the presence of the punched membranes by means of a vacuum sensor. As a result defective processes are prevented.

## Ideal weld process

With its intuitive user guidance, the integrated weld process control ensures the optimal setup and operation of the machine.

# MPW punch & seal module.

## Modularly configurable.



### Technical data

MPW BT manual work station, MPW IS module variants

Frequency [kHz]	35
Generator power [W]	1,200
Weld force min./max.* [N] *at 8 bar	30 / 160
Control panel	8.4" touch screen color
Operating modes	5
Application memories	32
Number of saved welds (weld data)	100 per memory
Punch diameter min./max. [mm]	6 / 22
Membrane range min./max. [mm]	8 / 30



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