

Ultrasonic Pouchmaker PM



KARLVILLE

The game changing Pouchmaker has the outstanding advantages of the ultrasonic welding technology with the following characteristics:

- A sandwich-tool concept
- Meeting customer's requirements
- Wide range of performance
- High reliability and low interference
- Advanced operation
- Significant performance in a small space
- Flexible machine concept

Machine Specifications

Description	Spec
Speed	Up to 90 cycles/min
Pouch Height	100mm — 270 mm
Pouch Width	80mm — 200 mm
Roll Width	Max 520mm
Roll Diameter	Max 600mm
Usable Materials	OPP, PP, & PE Films from 0.1mm up to 0.180 thickness

Ultrasonic Welding

With Ultrasonic Sealing heat is generated at the inside of the film (between the two layers), not by heat input from the outside as is the case with heat sealing, for example. The tools (sonotrode and anvil) that come into direct contact with the packaging material, remain cold during the entire weld process.

The support layer in the laminate remains almost cold and upon termination of energy input, the heat dissipates faster to the outside due to the temperature difference between the support layer and the sealing layer so that the hot-tack resistance is significantly higher.

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Advantages of Ultrasonic Welding

- Up to 70% increase of cycles
- Use of recyclable film material
- Reliable production process by constant energy input
- Up to 80% lower setup and changing times
- No risk of burns during cleaning work
- Optimal energy efficiency
- Very high repeatability
- Contamination by filling can be detected
- Increase of quality
- Targeted energy input

Layout

