



**JENTSCHMANN AG**  
SWISS PRECISION, COMPETENCE AND INNOVATION

**Specifications WELDSONIC™ FILTER:**

Welding Width:	max. 10 mm
Program Storage:	99
Pleat Height:	10 – 100 mm, optional other dimensions
Pleat Length:	variable
Cut / Weld Operation:	yes - with optional tooling
Gluing:	yes - with optional guiding device
Seam Press:	yes - optional
Electrical Power:	220 vac, single phase
Compressed Air:	6 bar

**Advantages of Ultrasonic Welding:**

- Rotary sonotrode allows continuous process - no gaps, high throughput.
- Electronically controlled drive ratios of anvil wheel and sonotrode prevents shifting of layers.
- Precise and consistent alignment of materials with guiding devices.
- Precise and consistent control of welding process throughout the entire seam.
- Easy recall of application specific welding parameters using touch screen display.
- Energy efficient.
- Environment friendly - no fumes, no microwave radiation.
- Quiet operation.

**Advantages vs. liquid hot melt gluing:**

- No warm up time - ready to use immediately.
- Clean work area - no sticky residue or waste.
- Precise and consistent use of heat activated adhesive tape lowers and environmental impact.
- Low energy use.

# WELDSONIC™ FILTER

Ultrasonic Welding / Gluing of Pleated Filters



WELDSONIC™ FILTER

**JENTSCHMANN AG**

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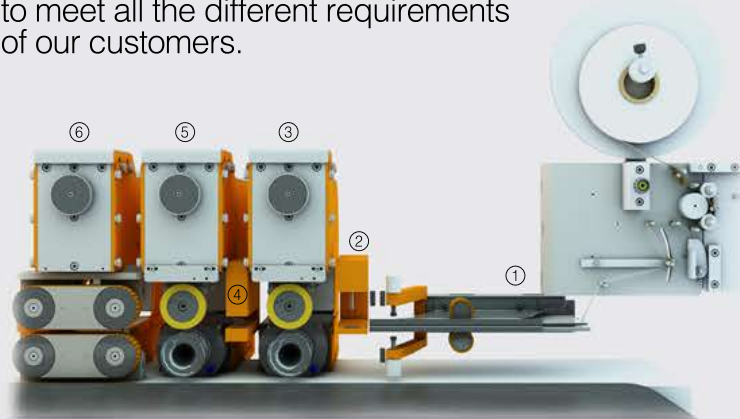
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# Energy efficient working with Weldsonic™ Filter by Jentschmann.

The Weldsonic™ Filter is built up modular to meet all the different requirements of our customers.



## Modules

- ① Pleat guiding device:  
standard guiding device or semi-automatic guiding device with separate active transport of the top and bottom pleat for the automatic alignment correction before the welding process.  
Including automatic adhesive tape unwinder for a tension free tape feeding.
- ② Automatic tape cutter
- ③ Ultrasonic welding head
- ④ Edge trimmer
- ⑤ Ultrasonic welding head II:  
For increasing the production speed up to 100%.
- ⑥ Seam press:  
transports and presses the welding seam during the curing process to achieve the best bonding.



Work surface conveyor is synchronized to machine speed to ensure large / heavy cartridges are easily and precisely handled.



New "free-arm" design allows pleats to be glued or welded in their natural position, without excessive bending that lowers quality and productivity.



By adjusting the guide position and table height, various pleat heights can be handled. Weld can be at the pleat, at the edge, or any position in between as required.



Easy setup and operation using the touch screen display. Application specific welding / gluing parameters can be stored and easily recalled using user assigned names.



Work table and conveyor height is electronically adjustable to accommodate various pleat heights. This makes loading the pleat into the guiding device easy, while the synchronized conveyor ensures consistent feeding of long and heavy cartridges.



Standard or custom designed anvil wheels provide a choice of seam design to meet your requirements. For non-weldable materials, a heat-activated adhesive tape can be fed through the guiding device to glue these materials together. With suitable adhesive, even wire mesh filters can be bonded.



For monitoring the continuity of the welding seam a temperature sensor reads the surface temperature of the welding seam. The control gives the alarm if the temperature is too low or too high.

Adhesive tapes can be cut automatically right after the welding process. A sensor reads the end of the filter and initiates the cut.

For more than 4 decades, the Jentschmann AG is developing and manufacturing cutting, sewing, welding and bonding plants for the manufacture of awnings, blinds and other technical textiles. Permanent innovation in cooperation with the industry as well as a high reliability and productivity of the plants, made Jentschmann AG for many years to a leading supplier with a wide product range for all significant awning manufactures. Benefit from that experience for a high security of your investment, for now and for the future.

ITRS - Industrieverband Technische Textilien – Rollläden – Sonnenschutz e.V.



TECHNISCHE TEXTILIEN – ROLLADEN – SONNENSCHUTZ e.V.

Jentschmann AG is member of the organization ITRS (engl. technical textiles industry organization) and supports the manufacture of technical textiles with the planning of the production cycle and the creation of the appropriate machine layouts as well as for the development of the appropriate plants.