

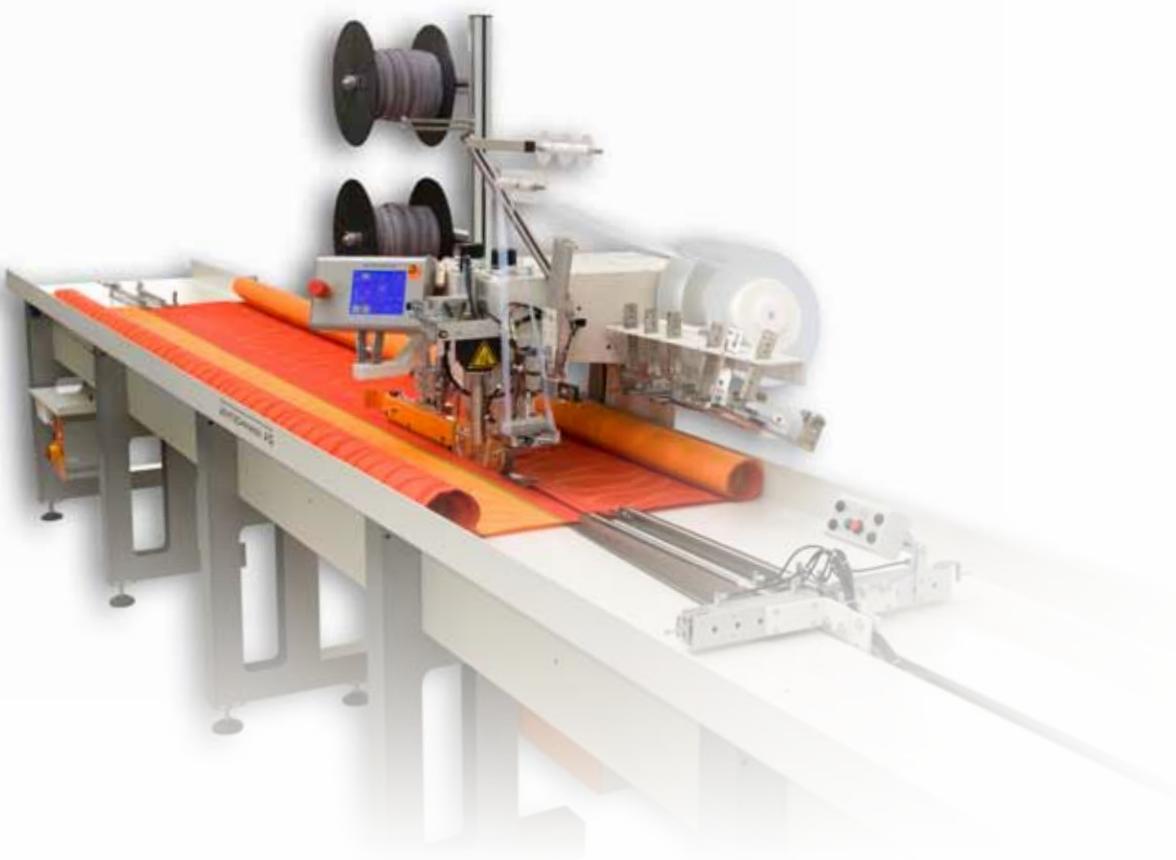


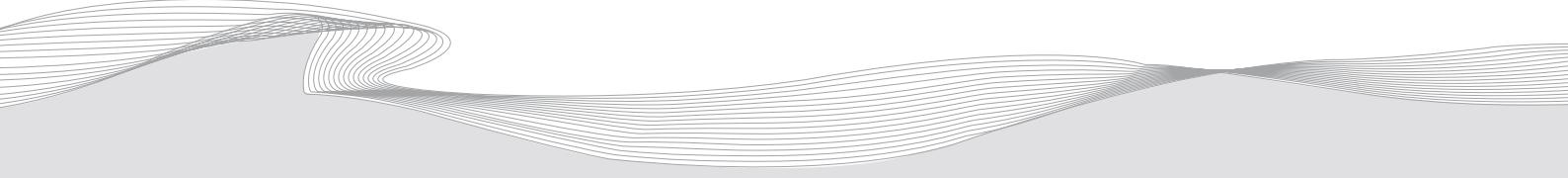
JENTSCHMANN AG

SWISS PRECISION, COMPETENCE AND INNOVATION

Weldsonic™Twin – Ultrasonic welding machine for bonding thermoplastic coated membranes and gluing Acrylic / Polyester woven fabrics with heat activated adhesives.

WELDSONIC™TWIN





The Jentschmann Weldsonic™ Twin is an ultrasonic welding system designed for continuous welding of materials such as PVC membranes, Polyester- or Fibre glass screen, Soltis® etc. , and gluing of materials such as Acryl- and Polyester fabrics with hot melt adhesive tape.

The Weldsonic™ Twin uses 35 KHz technology with 2 rotary sonotrodes for bonding technical textiles which transfer the energy continuously into the materials. The use of two ultrasonic welding units provides high speed operation, better seam quality and less material distortion.

The welding width and the seam design is defined by two anvil wheels. They are available in different dimensions and patterns. The anvil wheels and rotary sonotrodes are driven independently and are synchronized with the machine movement speed. This avoids shifting or puckering during the seam operation.

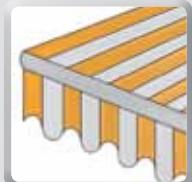
Before starting the welding process material is positioned, clamped and tensioned. Special guiding devices ensure consistent seam dimensions over the entire seam length. When gluing these devices also guide the hot melt adhesive tape into position.

Different Materials require different machine settings. The corresponding machine parameters can be adjusted by the operator, stored into material specific welding programs and easily recalled.

The Weldsonic™ Twin is ideal for everyday use with different technical textiles.

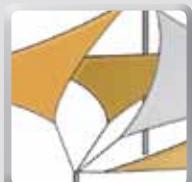
Typical applications are:

- Manufacturing of Awnings, Umbrellas and Roller Blinds
- Production of Geotextiles, Cover for Swimming Pools and Green Houses, Drainage films
- Fabrication of Large Format Banners, Promotional Textiles, PVC Billboards
- Making of fabrics for Architecture and Construction



The following processes can be performed with the Weldsonic™ Twin:

- Overlap joining of fabrics
- Hemming of material edges
- Pockets for weight elements and PVC ropes
- Bonding of Profil keder
- Zip Keder Application
- Welding of reinforcement strips onto awnings
- Seam reinforcement with glass fiber tapes
- Welding of Aluminum coated fabrics
- Gluing of impregnated fabrics



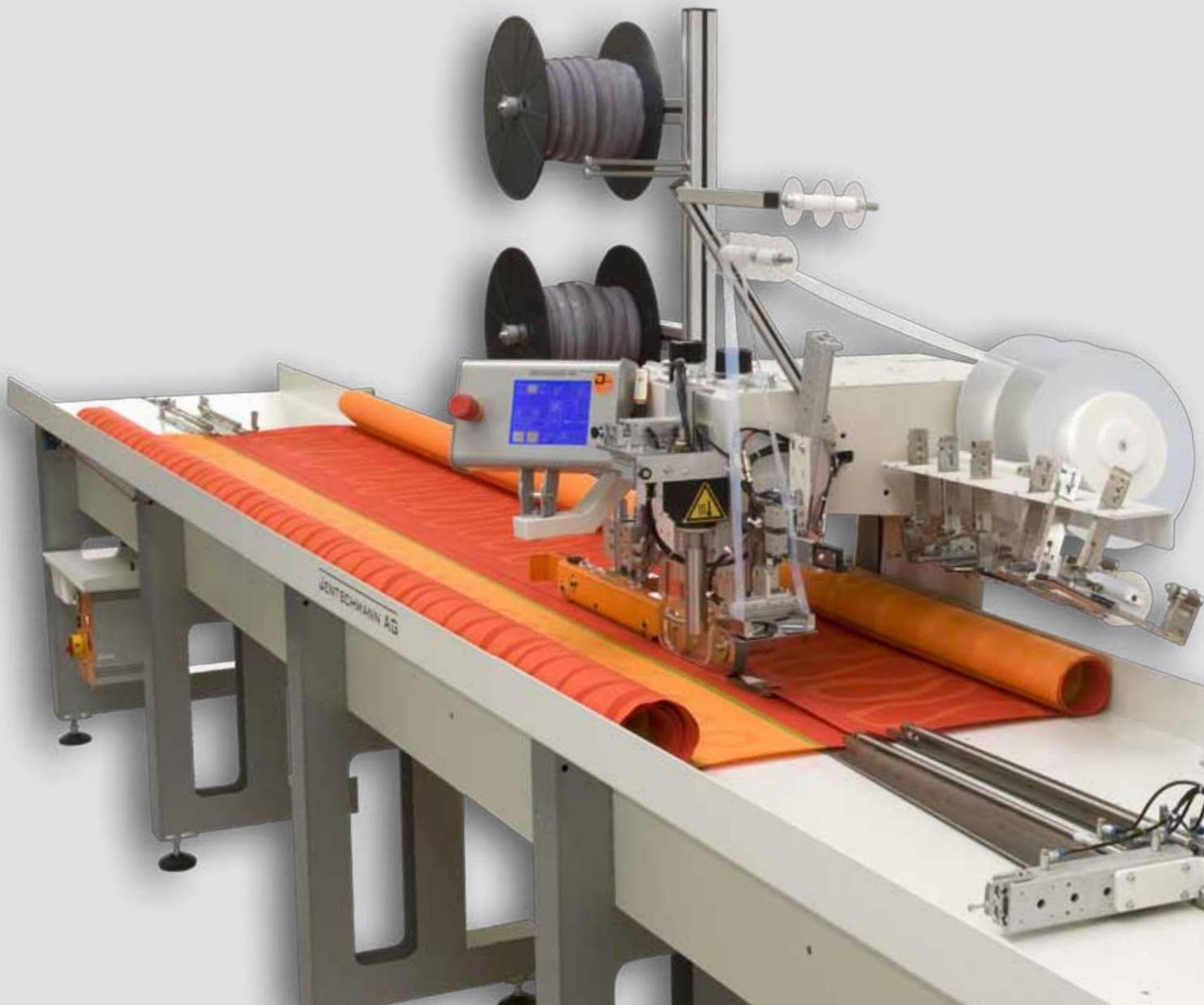
ITRS - Industrieverband Technische Textilien – Rollladen – Sonnenschutz e.V.



Jentschmann A.G. is proud to be a member of ITRS and supports the technical textile industry with research and development of production processes, machinery, and systems.

TECHNISCHE TEXTILIEN – ROLLLADEN – SONNENSCHUTZ e.V.

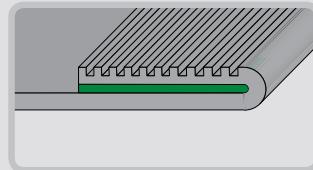
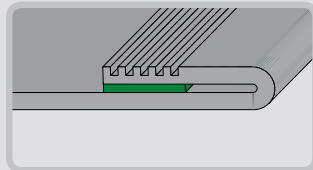
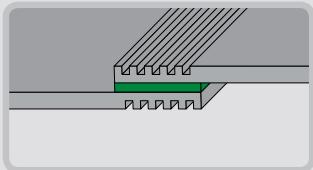
Weldsonic™ Twin , the latest generation High Speed ultrasonic welding from Jentschmann.



For over 2 decades, Jentschmann A.G. has designed and built cutting, sewing, and welding / gluing technologies for awning covers, window shades and other textile markets. Constant innovation in partnership with the industry allows Jentschmann A.G. to deliver the most reliable, productive and comprehensive systems for awning manufacturers. You can be confident that your investment will be profitable and secure today, and in the future.

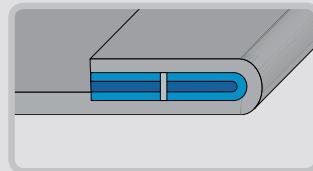
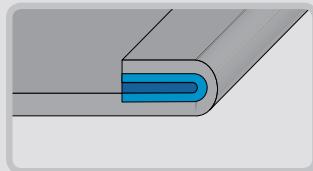
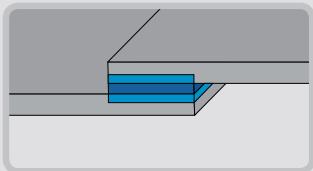
Multiseam Design

Bonding of small and medium-sized awnings made of Acrylic and Polyester
Gluetex hot melt adhesive tape AU 110 / AU 111 / AU 130



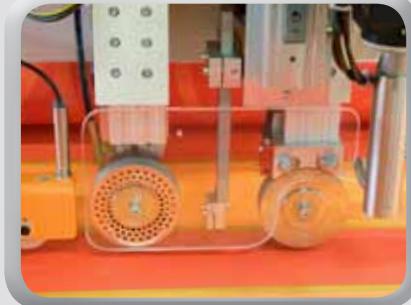
Seam reinforcement with glass fiber tape

Bonding of large awnings and blinds made of Acrylic fabric.
Gluetex hot melt adhesive tape AV 115





User friendly touch screen allows direct entry of machine parameters. Material specific settings can be easily stored and recalled.



The Ultrasonic Twin Technology provides high speed operation, better seam quality and less material distortion by using two ultrasonic welding units in series.



Application specific guiding devices are used to provide accurate seam and hem operations. Quick change device reduces change over time.



Material clamps hold the fabric in position during operation and avoid shrinkage on polyester based materials.

The rear clamp pneumatically tensions the fabric according to individual specifications. After the welding process, the clamp moves away and thus clears the work area for winding up the fabric.



Optionally, an electrically adjustable clamp is available which, after entering the awning dimension, automatically travels to the position corresponding to the length of the fabric. This shortens the handling time by the operator.



Adhesive tape spools are easily changed and remaining capacity is visible.



Special guiding devices are available for attaching zipper to material edge.



Option of automatic feeding apparatus for overlapping seams. With hemming guide from above, and overlap guide from below the appropriate guide is automatically positioned to minimize handling even further.



With the double hemming device option, the upper guide moves left / right as required for the side hems – no need to change guiding device.



Optional barcode interface for reading setup and order parameters from work order. Connection to customer's network available.



Optionally, a winding device for the seamed fabric panel is available. By means of the clamping jaws, the start and the end of the fabric panel is clamped and wound up under slight tension. Wrinkles and damage that can result from manual winding are thus avoided.



Certain materials such as transparent PVC, are best welded with hot air. The hot air nozzle option is an ideal complement to ultrasonic technology, so that virtually all materials can be assembled with the Weldsonic™Twin



Technical data Weldsonic™ Twin:

Welding speed (material-dependent):	up to 25 m/min
Clearance under machine arm:	380 x 215 mm
Welding Width:	up to 20 mm
Seam Length:	as required
Control Panel:	Touch Display
Detection End of Material:	by optical sensor
Seam Monitoring:	by optical sensor
Supply unit for adhesive tape:	3 rolls of 200 m
Electrical power:	single phase 203 - 220 V / 10 A
Air pressure:	6 bar
Ultrasonic Generators:	2 units with 35 kHz / 900 W real time control
Operating temperature:	18° C - 35° C
Machine dimensions:	Welding length plus 2 meters x 1 meter

Very low energy consumption with ultrasonic technology.
Environment friendly – no fumes, no electromagnetic emissions.

JENTSCHMANN AG

Feldstrasse 2
CH-8194 Hüntwangen

Tel. +41 44 735 83 83
Fax. +41 44 735 83 84

welcome@jentschmann.com
www.jentschmann.com