



# 2796 STG

## Specifications

Ultrasonic Generator:	35 kHz, 900 watt
Welding / Gluing speed:	up to 20m /min (66' /min)
Clearance under arm (w x h):	380 mm x 215 mm (15" x 8 1/2")
Welding Width:	up to 20mm (3/4") in one operation
Welding Length:	as required
Machine space:	Weld length + 1700mm (67") x 910mm (36")
Electrical Power:	203 – 220 vac 3 phase, 10 amp
Compressed Air:	6 bar (100 psi), 30 l /min (1 cu.ft. /min)
Operating Temperature:	18 – 35 C (65 – 95 F)
Operating System:	Windows/XP

## Advantages of 2796 STG Ultrasonic bonding

- Welding head travels while material is clamped in position to simplify material handling.
- Fabric is automatically guided by application specific roller folders / overlap guides.
- "Quick-change" guide mounting and provision for storing spare guides with adhesive film loaded enhances productivity.
- Adjustable material clamps for precise pre-tensioning of materials where required.
- Real Time monitoring and automatic adjustment of welding energy throughout the entire weld length.
- Ability to weld or glue from start to end of fabric – no gaps at either end.
- Precise electronic speed control and synchronization to ensure perfectly flat seams.
- Automatic end-of-material detection by optic sensors.
- Touch screen for entry and re-call of welding parameters.
- Very low energy usage without peaks, no wasted heat, no warm-up.
- Environment friendly – no fumes, no electromagnetic emissions.

**JENTSCHMANN AG**  
STEINACKERSTRASSE 12  
CH 8902 URDORF - ZÜRICH  
TEL. +41 44 735 83 83  
FAX. +41 44 735 83 84  
WELCOME@JENTSCHMANN.COM  
WWW.JENTSCHMANN.COM



# 2796 STG

**ULTRASONIC WELDING  
MACHINE FOR BONDING  
THERMOPLASTIC COATED  
MEMBRANES AND GLUING  
ACRYLIC / POLYESTER  
WOVEN FABRICS WITH  
HEAT ACTIVATED  
ADHESIVES.**

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.



**2796 STG**



# 2796 STG

Ultrasonic welding machine for bonding thermoplastic coated membranes and gluing acrylic / polyester woven fabrics with heat activated adhesives.

Work table holds material while welding head moves along seam to produce a continuous weld from start to finish.

Precise fabric positioning and tensioning with application specific material guides.

Welding and gluing with energy efficient and environment friendly Ultrasonic technology from Jentschmann.



Ultrasonic head, Touchscreen, and material guides with adhesive film feed are located in close proximity to provide an efficient workspace. All machine setup parameters are stored and easily recalled and implemented from the control unit.



The user friendly Touchscreen supports multiple languages. Machine parameters are easily entered and implemented by the control system. Welding parameters for specific materials / operations can be given meaningful names for later re-call as required.



Material is pre-tensioned as required with a precision adjustable clamp / torque applicator, ensuring the required tension is applied by every operator, every time.



The welding head travels while the material is clamped in the work table. Precise synchronisation of the head travel, sonotrode rotation, and anvil rotation is maintained to ensure flat seams. As the material passes between the rotating sonotrode and anvil wheel, it is welded or glued using heat activated adhesive film.



Application specific guiding devices ensure precise, consistent seams. A pneumatic "quick-change" mechanism allows these to be changed in seconds to maintain high machine throughput.



The material guides and clamps are designed to provide a continuous seam from start of material to end. Integrated adhesive film guiding ensures that the adhesive film is precisely positioned in the seam. An optical sensor detects the end of material and automatically stops the welding process.