SONOTRONIC
ULTRASONICS TECHNOLOGY

Ultrasonic Welding:
Manual assembly stations for the production of mouth and nose masks.

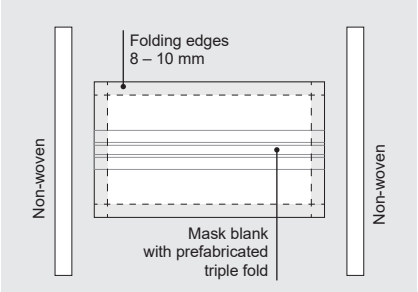
With our ultrasonic serial machines iSONIC MASK WELDER mouth and nose masks are safely welded. The ultrasonic welded seams are hard-wearing and can be used without the need for threads for processing and welding textile materials such as non-wovens as well as PA, PES, PP, aramid, Dyneema®, glass filament glass and mixed fabrics.

Ultrasonic tools for welding textiles can be integrated in manual assembly stations and in existing machine concepts and ultrasonic processes can also be incorporated such as welding of a plastic valve, for example. The seam geometries can be designed to individual requirements and allow continuous weld joints with a variety of different contours as well as spot welding.

The advantages

- Welding of elastic and non-elastic textiles
- Minimum seam overlap
- Flexible seam design
- Cold tools
- Energy-saving

Production of mouth and nose masks in four steps:

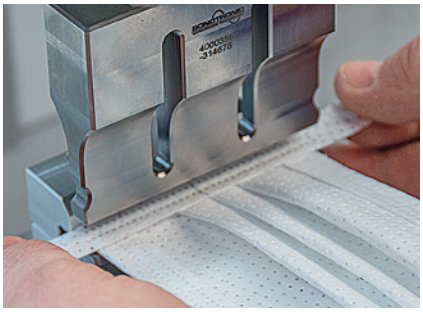


1. Production principle.

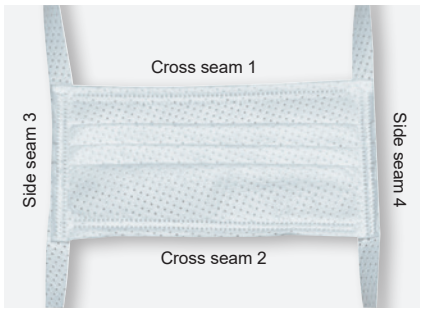
2. Manual folding of the non-woven edge before ultrasonic welding.

3. Horizontal ultrasonic welding of cross seams 1 and 2. The nose band is slided in manually (no illustration).

4. Placing of non-woven, used for the fixation on the head, at the short side.



5. The non-woven are fastened by vertical ultrasonic welding of side seams 3 and 4.



6. Finished mouth and nose mask.

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Well-priced table-top machine with a feed unit of 20 kHz and 35 kHz for the production of mouth and nose masks.

Detailed view of the ultrasonic components: Sonotrode and anvil with seam contour

iSONIC MASK WELDER 20 kHz/2000 W
Ultrasonic welding for the upper and lower mask seam

- Frame table made of Aluminium
- Pneumatic feeding unit 20 kHz
- Converter 20 kHz, 4000 W
- Booster 20 kHz, Titan
- Sonotrode 20 kHz, Titanium
- Anvil with contour and stop bar
- Base-plate adjustable
- Ultrasonic-Generator 20 kHz/2000 W with free standing housing
- Pneumatic control
- Machine with foot switch
- Dimensions (wxhxd) = 350 mm x 802 mm x 350 mm
- Weight: ca. 60 kg

iSONIC MASK WELDER 35 kHz/800 W
Ultrasonic welding for the left and right mask seam

- Frame table made of Aluminium
- Pneumatic feeding unit 35 kHz
- Converter 35 kHz, 1200 W
- Booster 35 kHz, Titanium
- Sonotrode 35 kHz, Titanium
- Anvil with contour and stop bar
- Base-plate adjustable
- Ultrasonic-Generator 35 kHz/800 W with free standing housing
- Pneumatic control
- Machine with foot switch
- Dimensions (wxhxd) = 350 mm x 802 mm x 350 mm
- Weight: ca. 60 kg

Contact
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