



Press release
05.05.2020

iSONIC MASK WELDER – a strong duo: Short delivery time for the ultrasonic welding machines for the production of mouth and nose masks

The simplest and fastest way to produce mouth and nose masks from non-woven textiles is the production using ultrasound. For this purpose, SONOTRONIC Nagel GmbH developed an ultrasonic machine concept for manual workstations in April 2020, which is well-priced, quickly available and immediately ready for use. The solution consists of the iSONIC MASK WELDER Duo, a 20 kHz and a 35 kHz ultrasonic standard machine.

The concept focuses on easy handling, short cycle times and user-friendliness – mouth and nose masks can be produced without any previous knowledge.

The non-woven mask blank is manually inserted into the machine for ultrasonic welding. Afterwards, actuation of the foot switch triggers the automatic welding process, which is pneumatically controlled. The operator only needs four ultrasonic welds for the production. Added together, with the small operations like the manual folding of the non-woven edge, a mouth and nose mask can be produced in about 18 seconds.

With this machine concept, SONOTRONIC has responded to the strong demand for the production of mouth and nose masks and has recently been listed as a critical infrastructure operator (KRITIS) by the Federal Office for Civil Protection and Disaster Assistance. All ultrasonic components are manufactured according to high quality standards and one hundred percent at the site in Karlsbad. This guarantees high machine availability, attractive prices and very short delivery times.

For the classic production of face masks as well as for the manufacture of FFP masks and hygiene and protective equipment, the use of ultrasonic tools is an environmentally friendly solution in addition to the economic aspect. Ultrasonic systems or ultrasonic roll seam units for continuous ultrasonic welding or cutting and sealing (Cut & Seal) can be used in all semi or fully automated production lines that process synthetic materials. Existing lines can also be optimized with ultrasonic modules to increase the automation within the processes.

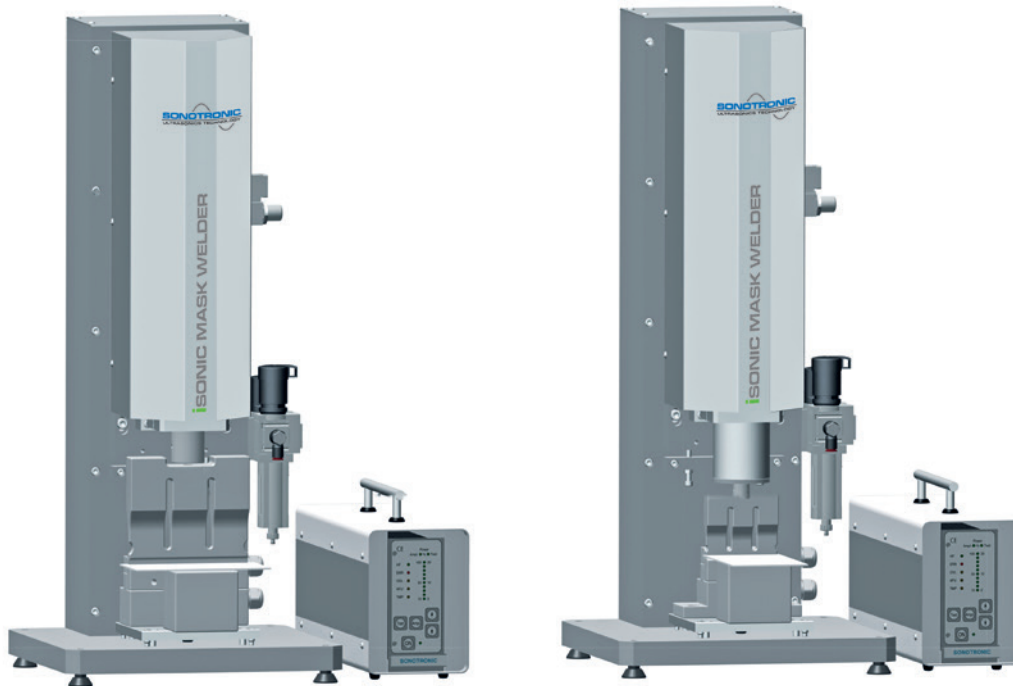
SONOTRONIC realises your project according to your wishes. With our worldwide subsidiaries and sales partners, we provide global coverage for ultrasonic textile processing. Benefit from our ultrasonic know-how.

SONOTRONIC Nagel GmbH

With innovative energy and always with an eye to quality, we at SONOTRONIC Nagel GmbH, design and produce machines, components and systems for joining plastics by ultrasound. Our products are used world-wide by well-known OEMs in the manufacture of plastic interior and exterior parts. Above and beyond this, SONOTRONIC also develops and manufactures Hi-Tech ultrasonic systems for the packaging, foodstuff, textile, medical and environmental industries. As a strongly developing technology company we work with more than 350 employees at the headquarters in Karlsbad, as well as in our branches in Spain, USA and China.

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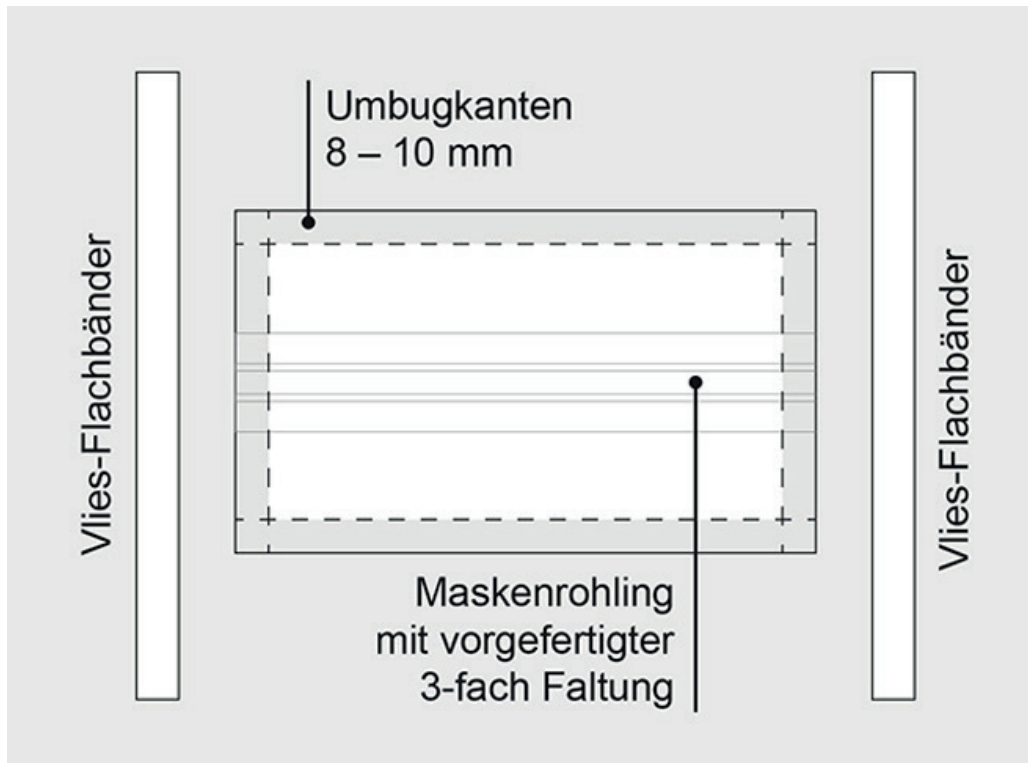
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Caption: iSONIC MASK WELDER 20 kHz and 35 kHz for the production of mouth and nose protection masks.

Production of mouth and nose masks in four steps with the duo iSONIC MASK WELDER



1. Production principle.

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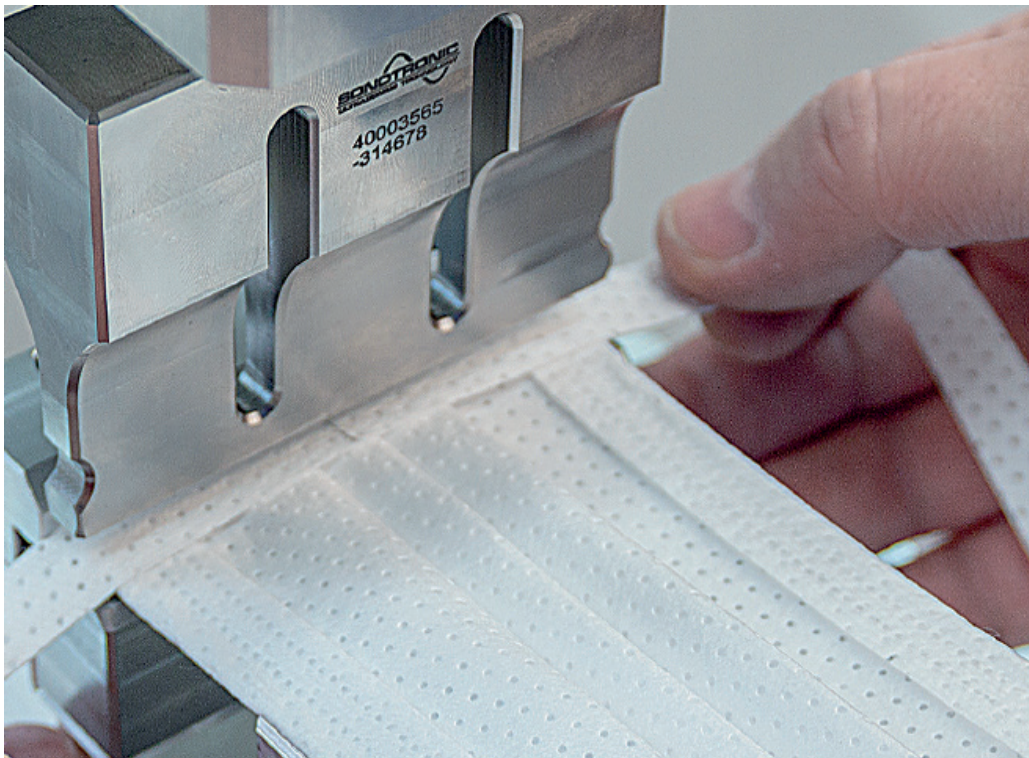


2. Manual folding of the non-woven edge before ultrasonic welding.

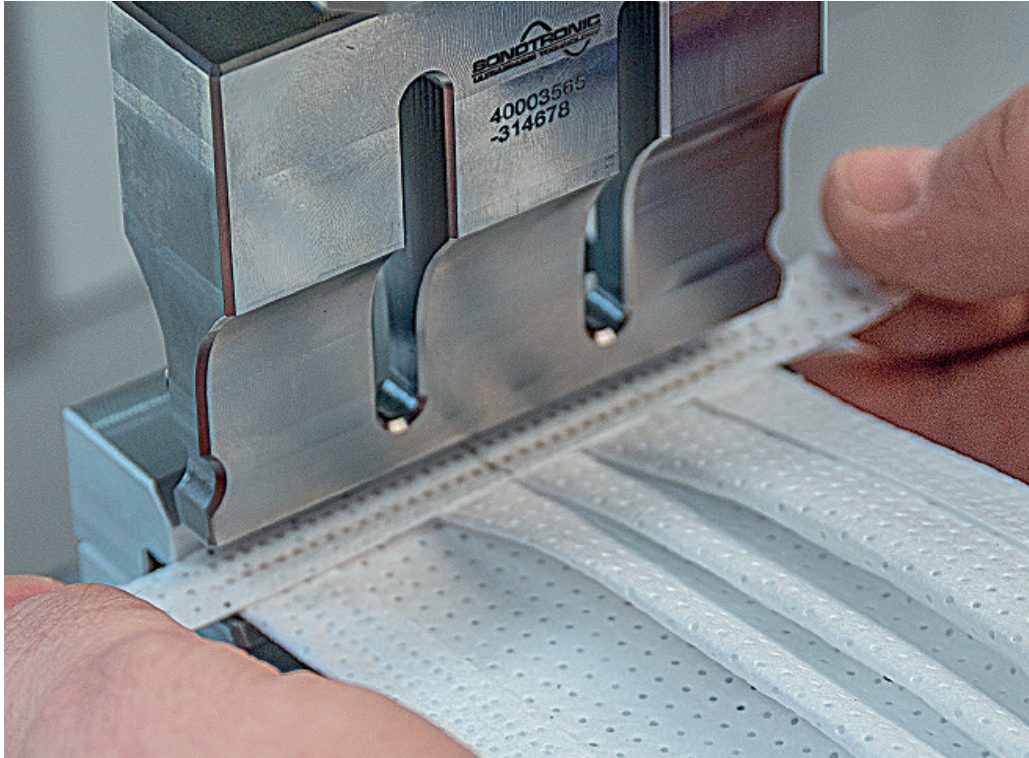
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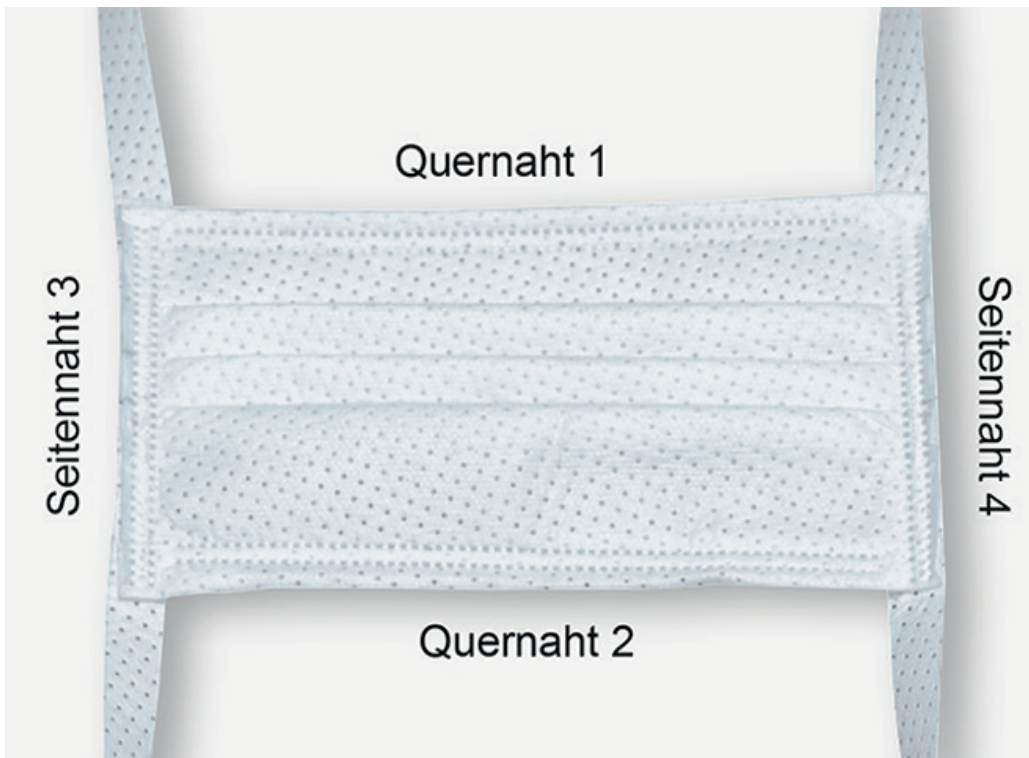
3. Horizontal ultrasonic welding of cross seams 1 and 2. The nose band is slid in manually (no illustration).
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4. Placing of non-woven, used for the fixation on the head, at the short side.
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5. The non-wovens are fastened by vertical ultrasonic welding of side seams 3 and 4.
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6. Finished mouth and nose mask.
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