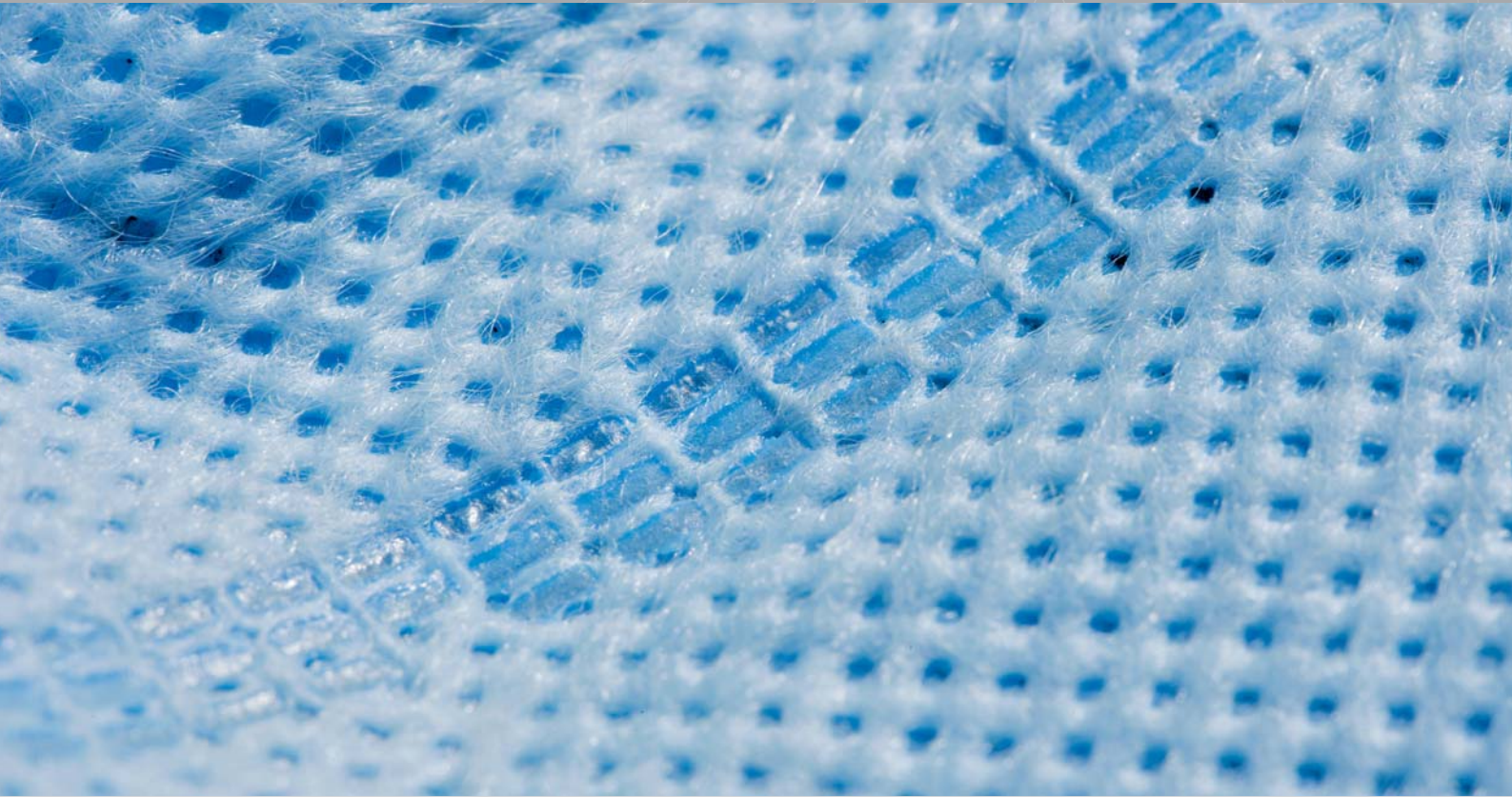


TEXTILE INDUSTRY

RINCO ULTRASONICS – Ultrasonic welding technology





The professionals in ultrasonics

RINCO ULTRASONICS has been specialising in developing and manufacturing high-quality ultrasonic cutting and welding machines for more than 30 years. The Swiss company has been part of the international CREST GROUP since 1997 and has a global workforce of some 80 employees.

Ultrasonic welding technology is suitable for fabric and nonwovens with a minimum 50% synthetic fibre content and has the advantage over mechanical cutting that the cutting edge is sealed by the ultrasonic vibration, thus avoiding fraying and guaranteeing a high-quality centre selvedge. Additional sewing of hems becomes unnecessary.



1 Ultrasonic cutting of precision fabric for screen-printing.

2 Textiles ultrasonic welding of pocket springs.



Left-hand picture:
Ultrasonic welding of fabric off the roll.

Right-hand picture
Continuous ultrasonic cutting with the LC35-3.



Large variety of applications



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Whether it is the continuous cutting of awning cloth, the punching of medical filter material or the bonding of Velcro, our long experience is used in application technology advice and solution development in many sectors.

- 3 Weld seam on a medical mask
- 4 Ultrasonic welding on a stamp pad
- 5 Welded joint of a nonwoven cloth bag
- 6 Welded joint of fabric for cleanroom clothing



Picture above:
Hand cutting unit HC35-4

Picture below:
Cutting station CS35

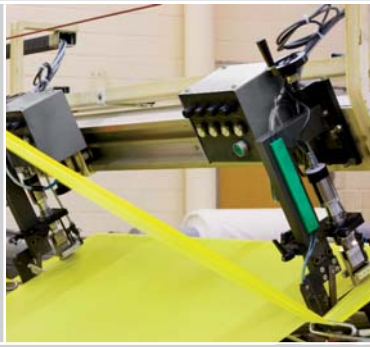
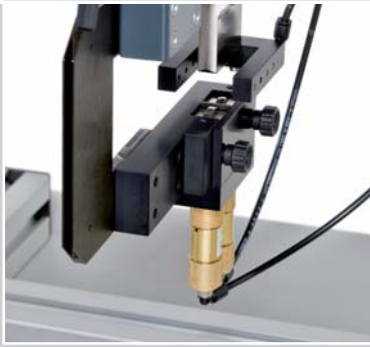
Cutting and sealing

Manual cutting made easy! Textiles, fabric and film can be cut readily and quickly using the ultrasonic hand-held cutting unit HC35-4. The hand-held device is driven by either an SL or an RL generator. The continuously adjustable preload force ensures optimal cutting results with minimum possible tool wear. Whether contour cutting or straight cutting with the cutting bar, the HC35-4 allows for all forms of continuous cutting.

Simple contour cutting

The cutting station with integrated special actuator SV35-40 is best suited to the cutting of contours. The cutting station is the ultimate solution in particular for back injection moulded plastic parts, from which waste fabric has to be removed. It is therefore very popular in the automotive industry, where interior linings such as ABC pillars are cut cleanly and quickly. The ultrasonic operation is activated by foot switch pedal which makes it supremely user-friendly. The cutting station is available as both a desktop and a floor-standing model and can be easily integrated into automation lines.





Pre-sealing and cutting

Whether direct from the web machine or off the roll, the LC35-3 makes it easier than ever to cut

selvedges. The fabric is first pre-sealed and then immediately cut, giving a perfectly sealed cutting

edge. With the LC35-3 it is thus possible to continuously cut lengths of material to the desired size.

Ultrasonic welding generator
UGI



High-performance and good value

The ultrasonic welding generator UGI does not let you down even in continuous welding or cutting applications! Up to 5 generator modules fit into a UGI multi rack. This means that 5 oscillator

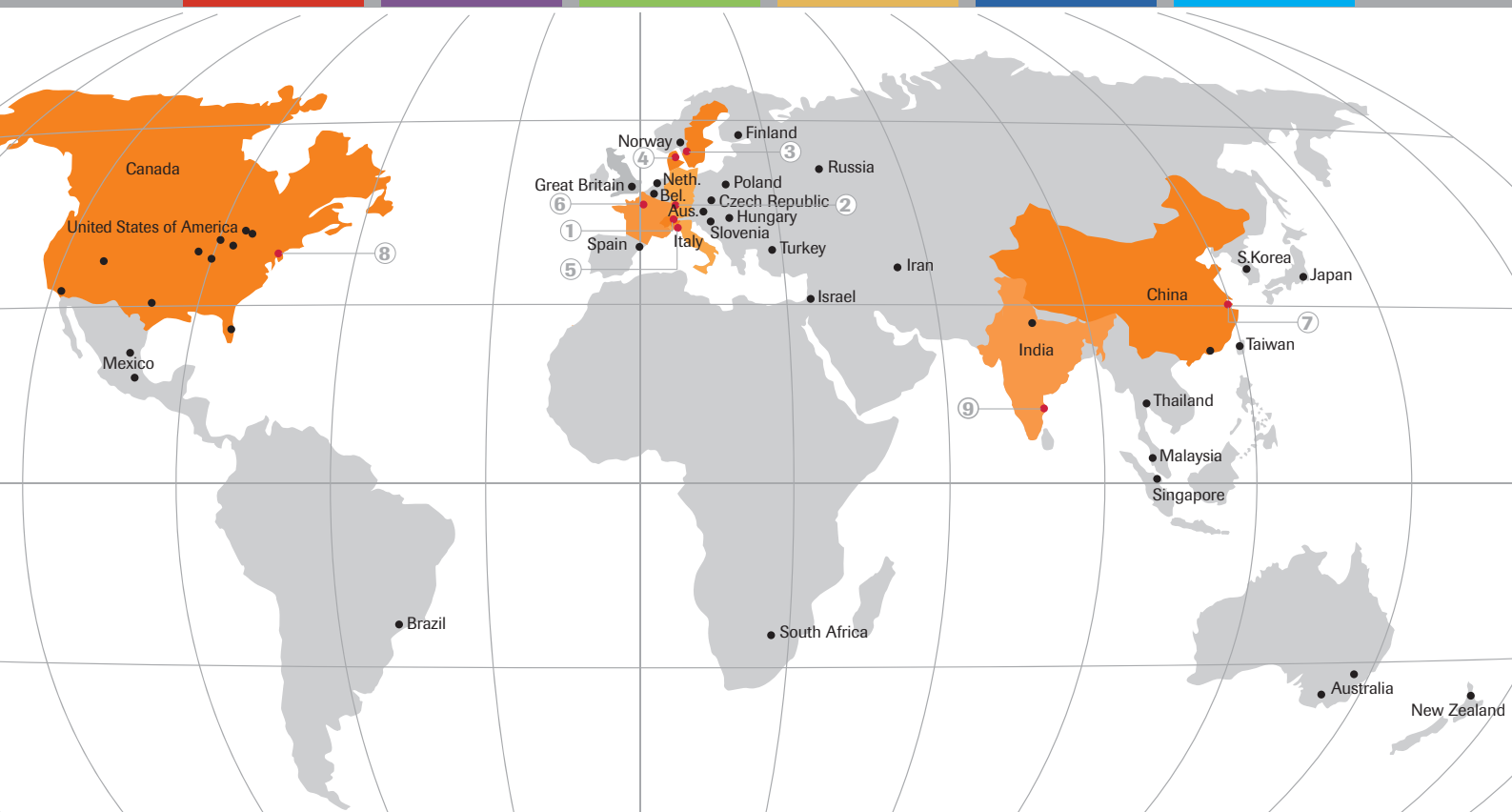
systems can be operated at the same time on just one multi rack. The UGI is available in 5 different frequencies and various power classes. The efficient system owes its popularity however not just to

its modularity and absolute reliability, but also because it is extremely good value and therefore the optimal solution for textile ultrasonic applications.

Manual textile welding

With the new hand-held ultrasonic welding unit HT35-2, you have textile welding applications firmly under control! The ergonomic device with automatic ultrasonic activation allows convenient spot welding of synthetic textiles, non-wovens, plastic film, coated cardboard and various other materials. The HT35-2 can be equipped with flat or knurled tools as required.





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