


Ultrasonic

## Cut'n'Seal with Ultrasonics

Cutting and Sealing · Cutting  
Punching · Perforating



NONWOVENS



*door panel (automotive)*

Cut'n'Seal applications with large surface areas require high forces for successful operation, whereas Power Punching of plastic parts with thick wall section demands high ultrasonic output and powerful presses.

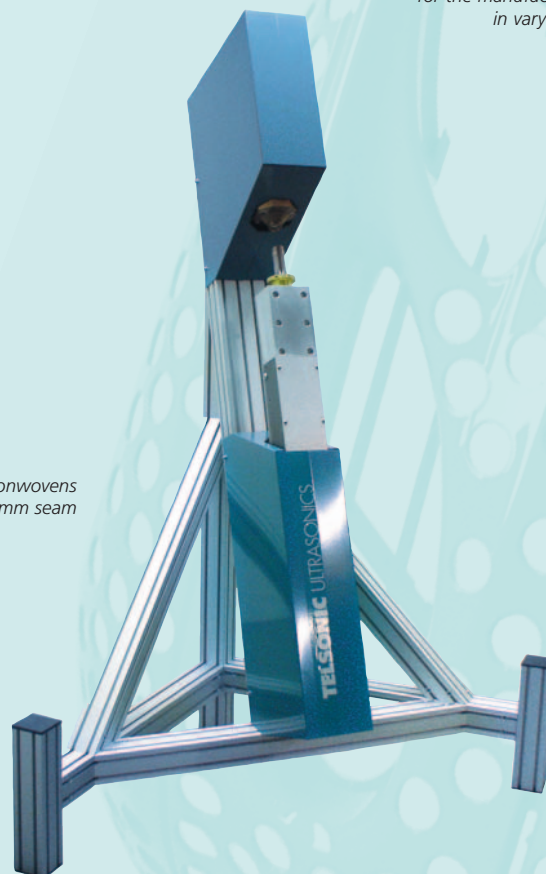
Telsonic have both and apply them for customer specific solutions of application problems – We can also help with any special applications that you may have.



*Fully automatic Cut'n'Seal machine for the manufacture of medical compresses in varying sizes and formats made up to 5 layers of material*



*Cut'n'Seal portal for nonwovens applications up to 720 mm seam*

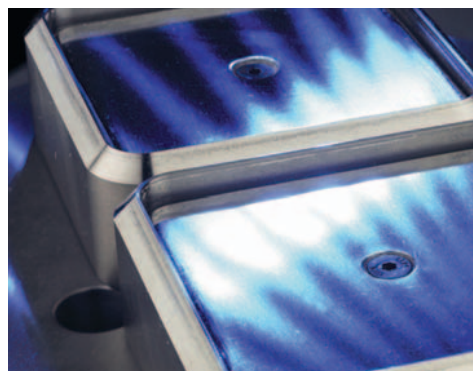


*Power Punching Press*

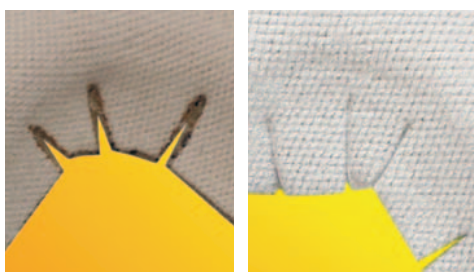
You want to cut or punch out even the smallest parts at extremely short cycle rates, and optionally seal them at the same time?

No problem with TELSONIC's highly advanced Cut'n'Seal technology.

Success in your production is guaranteed by precise Swiss tool manufacture and application specific ultrasonic components, from standard design to tailor-made high-tech special systems.



*Double utility Cut'n'Seal tool*



*Cutting with heat*

*Cut'n'Seal with ultrasonic*



*Twin unit for the simultaneous cutting and sealing of openings in automotive components.*



*Cut'n'Seal special machine*



*Automotive bumper with punched out openings for distance sensors*



For many years ultrasonically supported cutting has been used for non-plastic applications.

When cutting bakery goods, energy bars, cheese, pizza, pies etc., the vibrating (cold!) sonotrode reduces friction and cleans itself of adhering product particles.

The results are clean and reproduceable cuts without deformation or thermal degradation of the product.



Sponge-cake



Cake with cutting sonotrode

When cutting tire rubber or polyurethane belts with ultrasonic knives smooth transitions are achieved which help to minimize the danger of unbalanced end products.



Ultrasonic cutting of cheese



Ultrasonic knife for the cutting of tire rubber





*Cosmetic pads with soft edges*



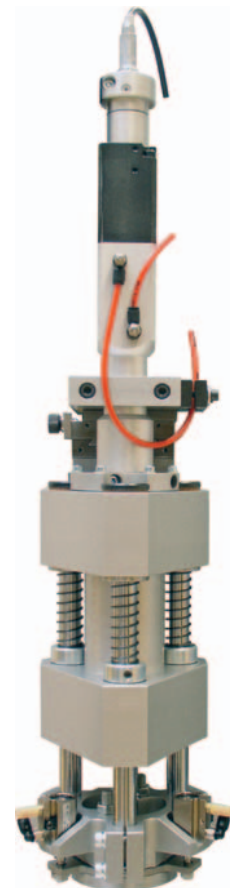
*Filter membrane punched out and welded to plastics part in one step*

Cut'n'Seal is an ultrasonically assisted process where thermo-plastic material is cut or punched out and simultaneously sealed at its edges with itself or with a second plastics part.

As a pioneer in the Cut'n'Seal technology, TELSONIC will solve your application problem with the comprehensive know-how based on many years of experience.



*Variety of Cut'n'Seal applications*



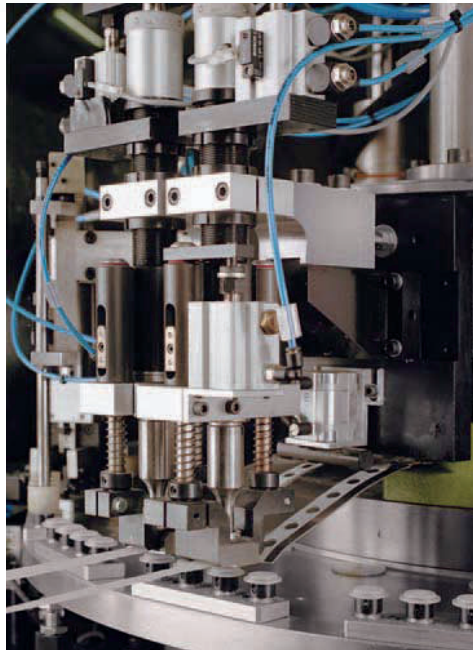
*Cut'n'Seal unit for filter membranes, integrated into automated production line*

POWER PRECISION **EXPERIENCE**

Bag for vacuum cleaner



Cut'n'Seal applications



2 Cut'n'Seal-TWIN-Stations in fully  
automated rotary table machine

TELSONIC's product portfolio comprises a wide range of technologies and equipment for the following applications:

- Ultrasonic Welding
- Cut'n'Seal
- Laser Welding
- Vibration Welding
- Hotplate Welding
- Hot air Welding
- Metal Welding
- Cleaning
- Sieving
- Sonochemistry

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