Cut’n’Seal with Ultrasonics

Cutting and Sealing · Cutting
Punching · Perforating
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.
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.

Cutting with heat  Cut’n’Seal with ultrasonic

Double utility Cut’n’Seal tool

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

Automotive bumper with punched out openings for distance sensors

Cut’n’Seal special machine

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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.

When cutting tire rubber or polyurethane belts with ultrasonic knives smooth transitions are achieved which help to minimize the danger of unbalanced end products.
Cut’n’Seal is an ultrasonically assisted process where thermoplastic 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.
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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Filter membrane punched out and welded to plastics part in one step

Variety of Cut’n’Seal applications

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