

Application example Watertight welding of membranes

PLASTIC WELDING METAL WELDING	G CUTTING CLEANING SCREENING
<image/>	TaskThe compensation opening of a housing part is to be tightly sealed with a membrane. A special membrane laminate is used for this purpose so that any existing moisture can escape and the pressure can be equalised. These membranes are very delicate and often can- not be welded in a high-quality manner with conventional longitudi- nal ultrasonics. The "membrane effect" can result in tears or holes in the membrane or in films or fabrics.Solution Thanks to the SONIQTWIST® technology, membranes, films or filter fabrics can be welded tightly and gently, i.e. without excessive vib- rations.Configuration advantages Torsional technology makes it possible to weld different membra- nes tightly and reliably, even those made from different materials and those with high glass content. The membrane is not damaged
	in any way. When equipped with vacuum technology, the sonot- rode can pick up the prepunched membrane from a magazine and weld it into the part. There is no need for a handling device and the process is very fast and reliable. The sonotrode can also be fitted with a cutting edge so the membrane can be punched out from a strip and welded into the part at the same time.

The application can be produced with torsional SONIQTWIST[®] components of the TSP750 E welding system incl. TCS5 process controller and MAG generator (frequency 20 kHz, power 1200 W).

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