

## Application example Medical compresses with sealed edge zone

PLASTIC WELDING	METAL WELDING	CUTTING	CLEANING	SCREENING	
		Task Medical compresses are f usually made from severa materials of various kinds erties). Consequently, it is zone is perfectly sealed to wound. Ideally, the shape in a single operation.	I layers of fabric (nor , sometimes with specers very important to er p prevent fibres from	ecial absorbent prop- nsure that the edge migrating into the	
		Solution The ultrasonic cut and seal process provides the ideal basis for solv- ing this demanding task. With the help of hardened, wear-resistan sonotrodes and anvils with appropriate contours, any shapes can be cut out and simultaneously welded all along the edge zone using ultrasonics. In accordance with the size of the parts and the level of force/power required, various pneumatic systems from the USP series are used along with a MAG generator and the TCS5 pro- cess controller.			
		Configuration advantages The ultrasonic cut and seal process is extremely reliable and cost effective, and the cost of investment can be recouped in next to time. Compared to the thermal method of cutting out the shape and welding the edge zone, the ultrasonic method results in a much cleaner cut and an aesthetically appealing sealed edge. The hardened tools can be cost-effectively reground multiple times. The TCS5 process controller offers various monitoring and quality assurance options. With its range of selectable ramps, the MAG			
		generator even allows sn processes for large sonot	nooth and gentle pov		

The applications were solved using ultrasonic systems from the USP series, the TCS5 process controller and hardened sonotrodes made from wear-resistant special-purpose steel.

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