

Application example Plastic part with filter net

PLASTIC WELDING	METAL WELDING	CUTTING	CLEANING	SCREENING
	Ta Th be ca re sh ar	ask ne opening of the slip-o e sealed with a fine filte an enter. The filter net h liably welded to the ca nould be integrated into nd comprehensively mo	on cap of a medical in er net so that no partic blank should be punch p without damage. Th o a fully automated mo ponitored and logged.	haler device must cles of dust or dirt ned out of a belt and nis production step anufacturing process

Solution

The torsional SONIQTWIST® ultrasonic welding process enables the filter net to be simultaneously cut out and welded in in one work step. The application was implemented with a TSP750 torsional ultrasonic system and a TCS5 process controller or through integration of components in a special-purpose system. A razor-sharp, circular cutting blade on the sonotrode ensures the net is cut out reliably.

Configuration advantages

The torsional SONIQTWIST® joining technology optimally meets the high requirements of the joining task. The torsional stimulation of the tool ensures fibre-free cutting

of the filter net and reliable embedding in the plastic cap, without damaging the fine net mesh (no membrane effect). The process is economical and, in automated lines, the TCS5 controller offers many advantages - particularly when process monitoring and statistical evaluations are required.



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The application was produced on a torsional SONIQTWIST® TSP750 system or with corresponding components in a special-purpose system.

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