

## Application example Cutting fabric

knife points, MAG generator and tightly sealed converter.

PLASTIC WELDING	METAL WELDING	CUTTING	CLEANING	SCREENING
		Task Fabrics for all kinds of applications are woven as a wide web of material. The fabric then has to be cut to size on an individual basis before undergoing further tailoring. In many applications, it is very important to seal the cut edges to prevent fraying. It is not just straight cuts that have to be made, but all sorts of other shapes as well. Solution		
		In contrast to cutting me sonic cutting generates h material to melt in the cu sealing the edge. The 20 integrated into x/y syster tours possible.	ethods that are purely neat locally, causing th utting area at the sam I KHz ultrasonic compc ns or 3D robots, maki	mechanical, ultra- ne thermoplastic e time and thereby nents can be easily ng any cutting con-
	tours possible. <b>Configuration advantages</b> Interchangeable knife points mean that all sorts of materials and shapes can be cut reliably, with simultaneous sealing of the cut edge where applicable. The state-of-the-art MAG ultrasonic generator can be integrated into systems without difficulty. The amplitude is sta- bilised to within +/-3 % to ensure consistently high cutting quality. The following advantages are equally important: the ability to re- spond rapidly to alternating resonance and load conditions, and the constant power and amplitude across a wide voltage range of 180 to 260 V. The converter is tightly sealed inside a corrosion-resistant steel housing and can be cooled with air if required.			
The application was solved using 20 kHz of incorporated into a special system: sonotro	components, which were ode with interchangeable			

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