

Application example LED backlight module

controller.

PLASTIC WELDING	METAL WELDING	CUTTING	CLEANING	SCREENING
		Task A coloured, transparent, curved PMMA panel is to be welded onto the ABS/PC plastic housing of a bus LED backlight module with a watertight connection. The integrated LEDs must not be damaged by the joining process and the light panels must retain their flaw- lessly injection-moulded, smooth surface. As is usual for vehicle construction, the process parameters must be saved and logged to ensure complete traceability.		
		The application was pro- process and a USP3000 rasonic generator and a welding system can be of of light by replacing the worked into the sonotro Configuration advanta The universal high-perfo controller can be used for targeted formation of th the welding parameters ring the function of the that no marks are left or The TCS5 controller offe toring functions. The M/ heavier sonotrodes when	duced using a near-fie joining system with a professional TCS5 pro- converted quickly and of tool set. The curved sh de contact surface by ges rmance USP3000 weld or a multitude of differ e connecting seam an minimise the energy in LEDs. The 3D-milled to n the panel. rs comprehensive pro- AG generator offers a n welding larger panel	Id ultrasonic welding modern MAG ult- cess controller. The easily for other types hape of the panel is means of 3D milling. ding system and TCS5 ent applications. The d the optimisation of hput to avoid impai- bol surface ensures cess and quality moni- soft-start function for ls.
The application was produced on a USP30 welding system with MAG 3600 W generation of the system with with with with with with with with	000 20 kHz ultrasonic ator and TCS5 process			

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