

Application example Toner cartridge end cap

tem with MAG 3.6 kW generator and TCS5 controller.

PLASTIC WELDING METAL WELDING	G CUTTING CLEANING SCREENING
	Task To avoid toner powder leaking during global transport or usage, the cartridge must be hermetically sealed with an end cap after filling. A snap closure is not possible as the product could be tam- pered with. Solution The end cap is welded onto the cartridge economically in high quantities using ultrasonics. The joining zone is in the form of a pinch seam, which guarantees a tight weld. A device with a pneu- matic clamp is used to fix and position the moulding around the neck of the end cap during welding. The application was produced on a USP3000 ultrasonic welding system, frequency 20 kHz, with
	MAG generator and TCS5 process controller. Configuration advantages The ultrasonic welding technology guarantees a tamper-proof, hermetically sealed closure and prevents any toner leaks. As a substance-to-substance connection technique, it does not require any consumables, e.g. environmentally harmful adhesive. The TCS5 process controller offers extensive quality assurance options.

www.telsonic.com