

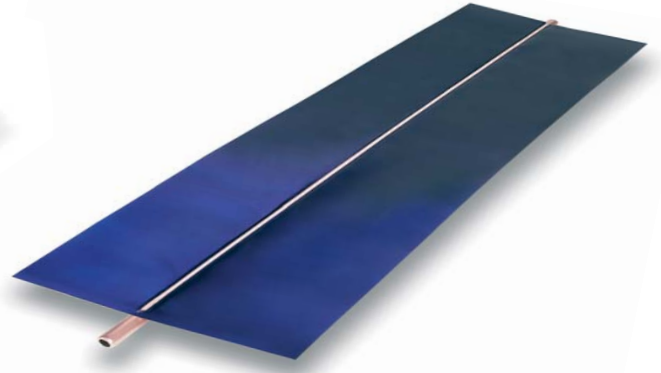
# STAPLA Ultrasonic Welding Systems SOLSTAR-3

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## STAPLA Ultrasonic Welding Systems



25 kHz Ultrasonic  
Seam Welder



### Applications

Examples of the solar industry:

Tube $\varnothing$ [mm]:	8.0	10.0	12.0	15.0
Wall thickness [mm]:	0.5	0.5	0.7	1.0

Absorber foil thickness (Cu and Al): 0.12 to 0.3 mm

Absorber foil width: 60 to 150 mm

### Technical Data

Weld speed	up to 15 m/min (dependent on material)
Frequency	25 kHz
Ultrasonic power	3000 W
Supply voltage	230 V AC $\pm$ 13 %, 50/60 Hz
Air supply	min. 6.5 bar (dry and clean air)
Weld force	by pneumatic, adjustable
Drive	servo motor
Oscillating system	cooled (ventilator / suction)
Toolings	sonotrode $\varnothing$ 53 mm rotating anvil / fixture according to application
Control	ultrasonic generator and electric control integrated in 19", 3 HE cabinet
Weight of machine	weld and tube cleaning system approx. 100 kg

❖ Maintenance-free and non-wearing oscillator system

❖ Multilingual machine software (even Asiatic characters can be displayed)

❖ Easy tool exchange

❖ Smart user guidance by single-knob-control

❖ Efficient sonotrode cooling without additional medium

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