



# STAPLA Ultrasonic Welding Systems RSK

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The RSK ultrasonic welding system is the production machine for manufacturing absorber fins in the solar thermal power industry.

The modular design offers the possibility of linking further processes to the system, such as uncoiling, straightening and cutting the plates to size.

Our customers benefit from more than 25 years of experience in the field of ultrasonic joining technology and process automation.

This know-how flows into all the core components of our products, to the advantage of our customers. The transducer system that Schunk has developed for the RSK is equipped with a maintenance-free and wear-proof bearing system. This is another significant feature when drawing comparisons to competitors' products.

With a welding speed of up to 30 meters/minute, the RSK is the fastest machine on the market for manufacturing of absorber fins for solar thermal power technology. In addition to outstanding welding speed, welding quality is given top priority at Schunk. For instance, there is an integrated process control which provides for a remarkably stable process and for welds with an optimal thermal efficiency.

Fins with widths between 40 and 180 mm can be processed on the RSK. For pipes, diameters can range from 6 to 15 mm; depending on the hardness of the material used, wall thicknesses of 0.4 to 1.2 mm are possible. Machine models are available for processing either individually-cut pipes and fins or wound material from a coil.

❖ **Expandable machine design – production of individual and infinite fins possible**

❖ **More than 25 years of experience in ultrasonic joining technology**

❖ **Welding speeds of up to 30 meters/minute**

Simple and efficient operation of the unit is carried out via single-knob-control on the control unit. All relevant process data and parameters can be displayed in the local language of the user – we currently offer German, English, Portuguese, Spanish and Chinese.

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