



STAPLA Ultrasonic Welding Systems SWR-20

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The SWR-20 ultrasonic welding system is the production machine for manufacturing flat-plate collectors in the solar thermal power industry.

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

Our customers benefit from more than 25 years of experience in the field of ultrasonic welding technology and process automation. This know-how flows into all the core components of our products, to the advantage of our customers. With a welding speed of over 30 meters/minute, Schunk is clearly in the fast lane on the market for solar thermal power technology.

❖ **One-stop-shopping for ultrasonic welding and automation**

❖ **The highest welding speed on the market – more than 30 meters/minute**

❖ **More than 25 years of experience in ultrasonic welding and automation**

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. Perfectly matched and balanced components round off this machine concept and produce absorbers with the highest degree of surface quality.

The transducer system that Schunk has developed for the SWR-20 is equipped with a maintenance-free and wear-proof bearing system. This is another significant feature when drawing comparisons to competitors' products.

The dimensions of the flat-plate collectors which can be welded on the standard unit can measure up to 2.5 x 2.5 meters. Both harp-type and serpentine-type collectors can be used as a pipe system.

Simple and efficient operation of the unit is carried out via an input device manufactured by Siemens. For monitoring welding processes, a Schunk process controller is available; all further machine functions are controlled through a Siemens S7 control unit.

Process data and parameters can be displayed in the language of the user – we currently offer German, English, Portuguese, Spanish and Chinese.

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