



Sonosystems®

ultra fast. ultra strong.
ultrasonic.

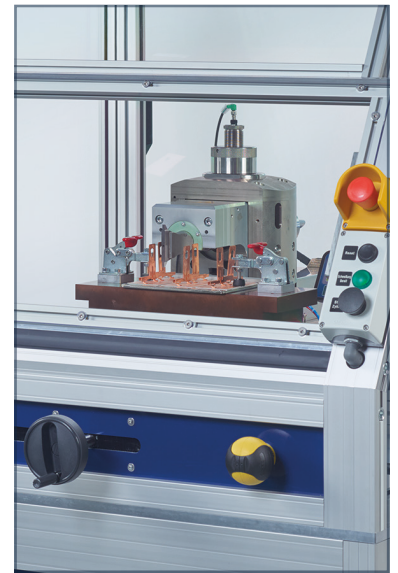
DS20-S-plus



DS20-S-plus

Ultrasonic Welding Machine

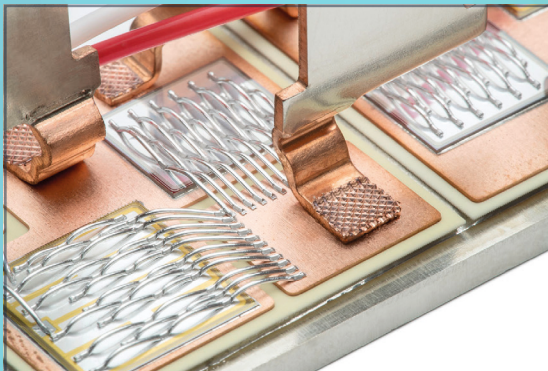
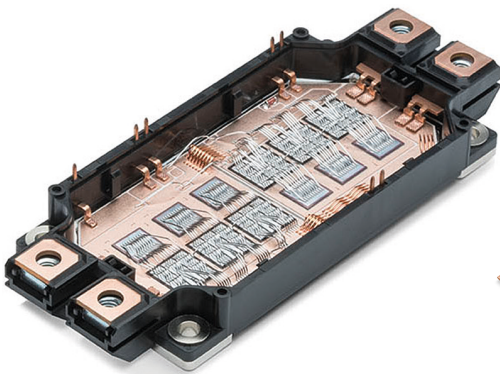
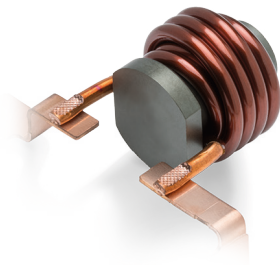
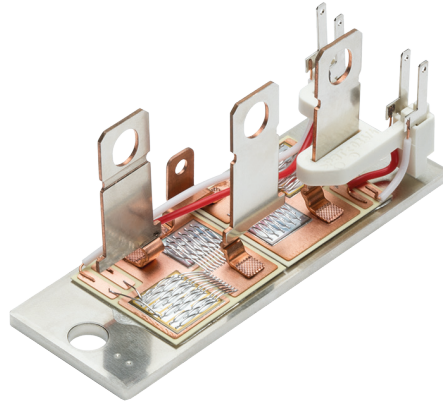
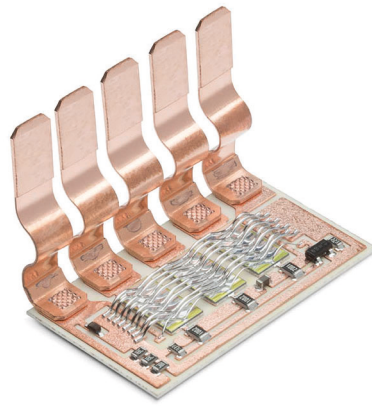
Manually machine - flexible concept
for laboratory, prototyping and
small series production



Ultrasonic welding head	20kHz (35kHz available on demand) quick change solution for welding tools
Weight, basic machine	approx. 420 kg
Outer dimensions, basic machine	L x W x H: approx. 950 mm x 1000 mm x 1850 mm (without monitor holder)
Accessibility in z-direction	max. 62 mm (special long welding tool available)
Working area (x-y-table)	x-axis: 100 mm / y-axis: 250 mm (manually with crank handles) special stiff axis systems, resistant to ultrasonic vibrations
Welding stroke (z-movement)	max. 30 mm adjustable (higher stroke on demand)
Digital Ultrasonic generator system	3.000 W (4.000 W available)
Special customized clamping systems	clamping force up to 12.000 N including vacuum system for reliable welding results
Welding force	50 N - 900 N (1400 N on demand) soft touch down available
Major welding parameters	adjustable for each welding point: force (pressure), amplitude, energy, heights, deformation
Patented dynamic process control	monitoring of power and height curve, adjustable tolerances for welding time, heights and deformation for each welding point
Optional features:	
DMC (Data Matrix Code) reader	Traceability for e.g. product serial number
Measurement and calibration station	Embedded tool adjustment

DS20-S-plus

Applications (examples)



Customized tooling available.
Let's talk about your application!

Schunk Sonosystems GmbH

Ultrasonic Metal Welding

- More than 10 years competence in Ultrasonic Metal Welding for power module industry
- More than 35 years experiences in Ultrasonic Metal Welding
- Customer related welding tests and support in special applications by our own laboratory
- Worldwide recognized as specialist in the field of Ultrasonic Metal Welding
- Optimal customer care thanks to our worldwide network of local subsidiaries and local sales/service partner for on-site support
- **ONE face to the customer -
Ultrasonic Metal Welding AND Automation Solutions**

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