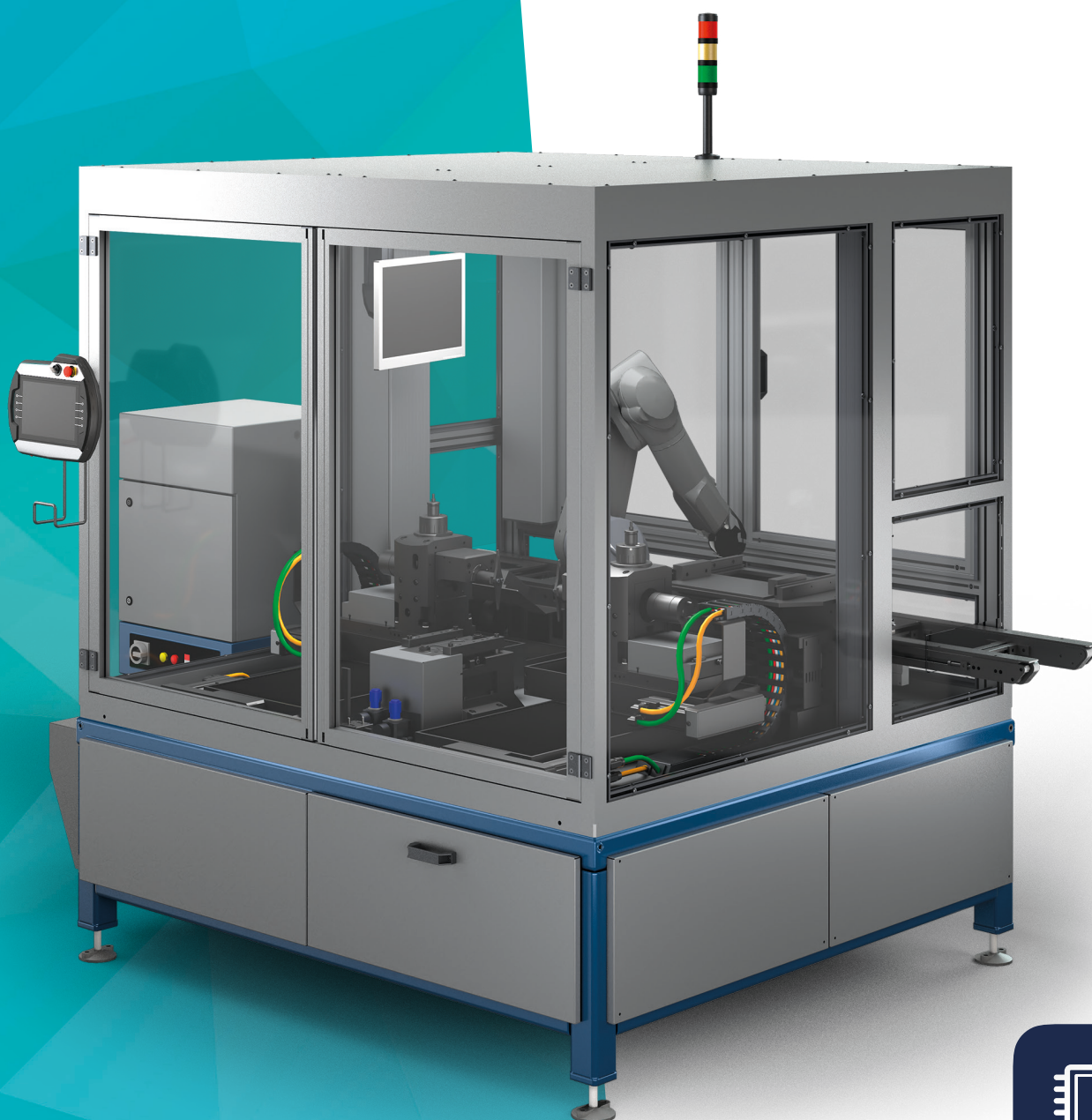




Sonosystems®

ultra fast. ultra strong.
ultrasonic.

FX20-2L-R



FX20-2L-R

Ultrasonic Welding Machine for Power Electronics

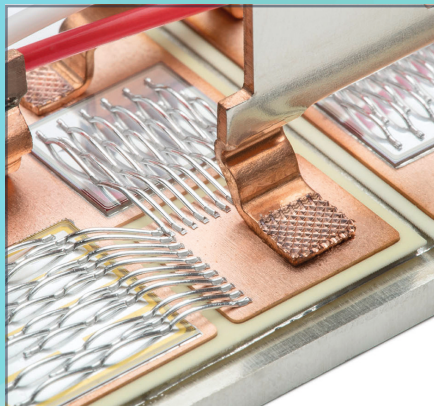
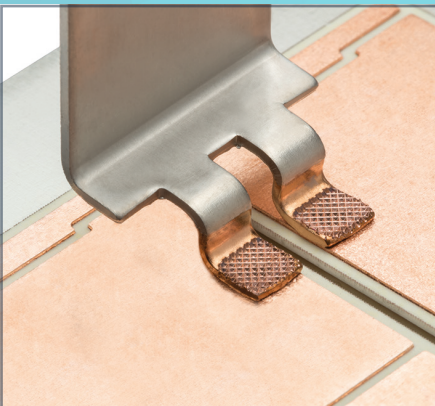
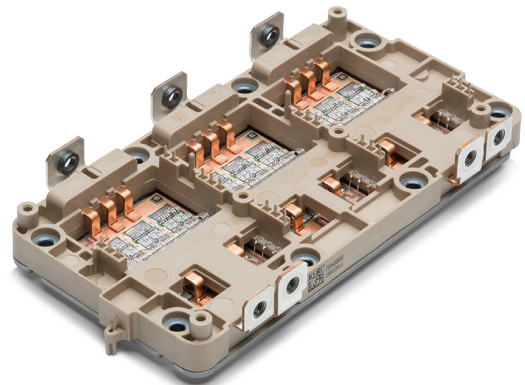
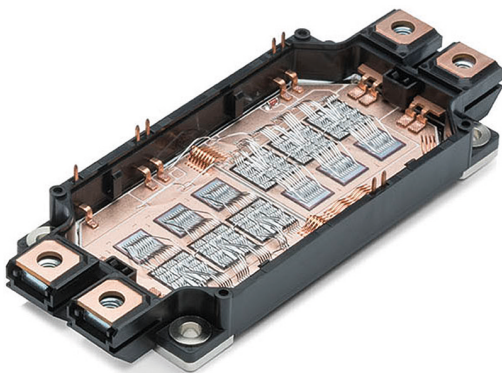
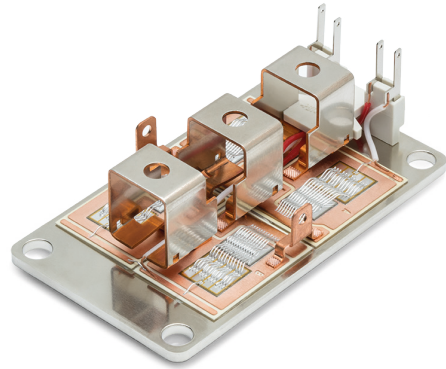
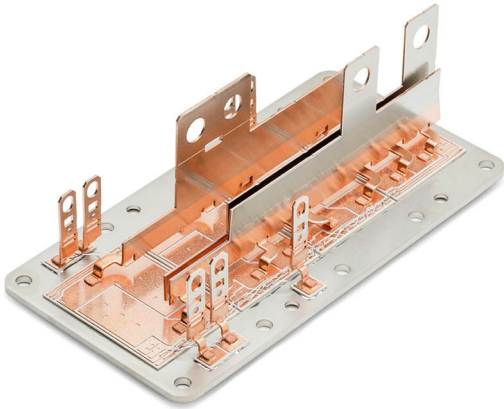
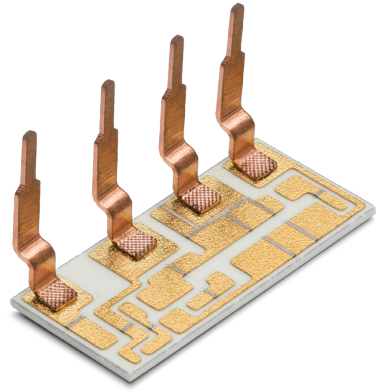
Automated machine for production



Ultrasonic welding head	TWO welding heads - 20kHz (35kHz available on demand) embedded adjustment and quick change solution for welding tools
Weight, basic machine	approx. 2.000 kg
Outer dimensions, basic machine	L x W x H: approx. 1800 mm x 2300 mm x 2300 mm
Accessibility in z-direction	max. 62 mm (special long welding tool available)
Working area (TWO x-y-tables)	x-axis: 200 mm / y-axis: 600 mm, axis equipped with brake systems for maximum stiffness while welding process special designed 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:	
Pattern recognition system	to check and correct the welding positions
DMC (Data Matrix Code) reader	Traceability for e.g. product serial number
Measurement and calibration station	Semi-automatic machine self check possible Embedded tool adjustment and quick change solutions
Particle cleaning (integrated system)	useful process after welding
Loading system	customizing possible (e. g. robot, conveyor)
Integration in line automation	Improved concepts for linking of welding systems with customer-specific MES systems application-specific system adaptation up to integration into complex assembly lines

FX20-2L-R

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**

Schunk Sonosystems GmbH
Hauptstrasse 95
35435 Wettenberg
Germany
Phone: +49 (0)641 803-0
Fax: +49 (0)641 803-250
sonosystems@schunk-group.com
www.sonosystems.com

