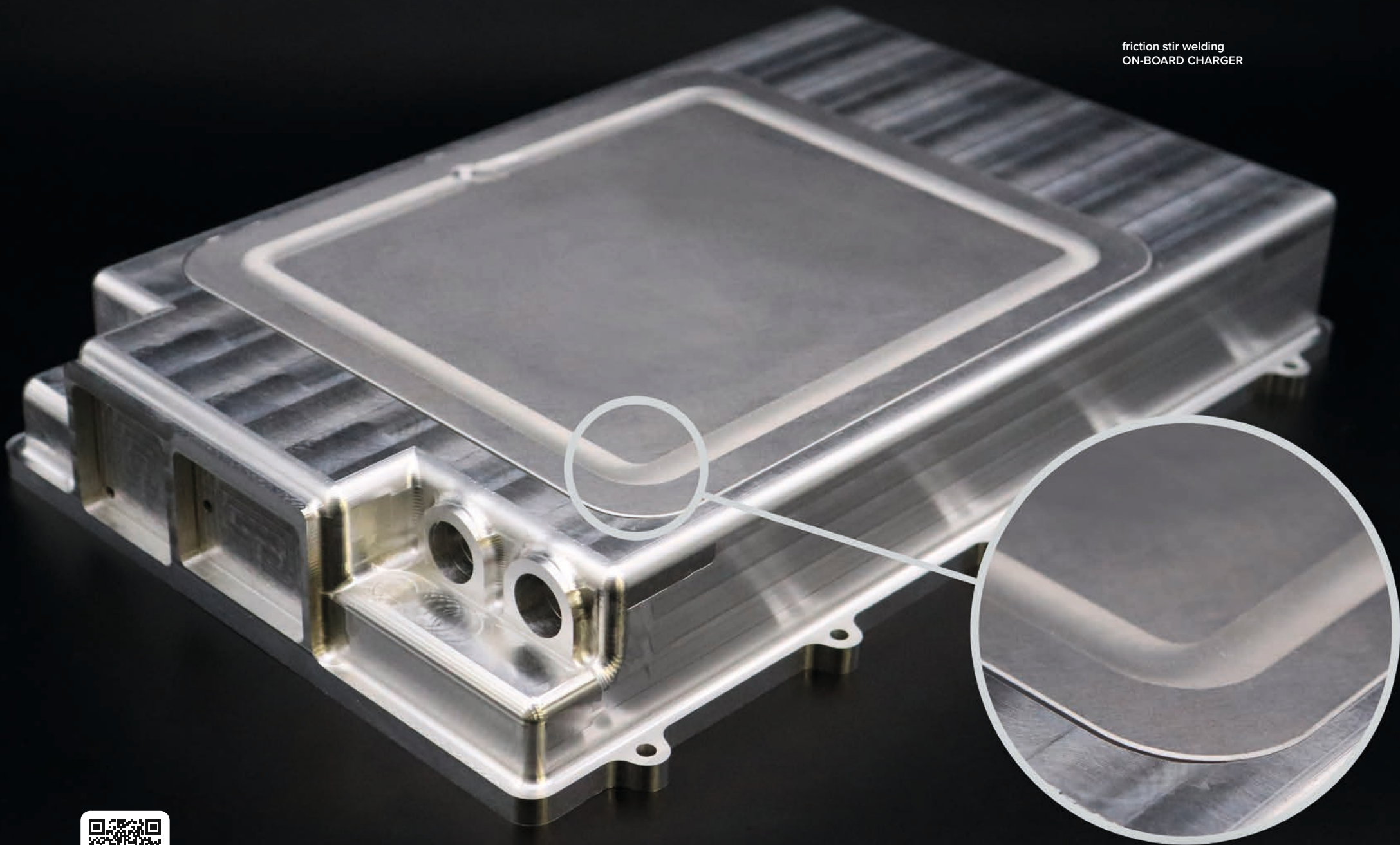


friction stir welding
ON-BOARD CHARGER



find your application on our website www.stirtec.at
how to weld: inverter housings and heat sinks

V-FSWC550 COMPACT

HIGH-PERFORMANCE FRICTION STIR WELDING UNIT



Specifications

The Stirtec V-FSWC550 Compact provides state-of-the-art Friction Stir Welding technology for industrial application with smaller dimensions on high-scale production volume due to separate operating machine tables.

- ▶ STIRlytics process software for 100% traceability
- ▶ FSW force and position control system for optimum welding results
- ▶ highest repeatability and accuracy due to rigid machine frame
- ▶ suitable for all aluminum alloys and die casting components
- ▶ preparation for high TCS cleanliness requirements
- ▶ automatic/manual tool change system

MACHINE INFORMATION

machine dimensions	2300 x 2535 x 2780 mm
spindle orientation	vertical

OPERATING TRAVELS (3-AXIS FSW UNIT)

X-axis binder (table traverse)	900 mm
Y-axis cross slide	1000 mm
Z-axis slide ram	300 mm

FSW WELDING FORCES & FEED RATES

max. welding force in Z-direction	15 kN; spindle rotation speed 5.000 rpm
rapid traverse in X, Y, Z-axes	10.000 mm/min
positioning accuracy in X, Y, Z-axes	0,01 mm

CONTROL SYSTEM

control system	SIEMENS Sinumerik one
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MACHINING TABLE (DIMENSIONS)

table dimensions	550 x 500 mm (x2)
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- ✓ HV inverter housing, cooling units and heat exchanger with part size up to L 400 x W 400 mm
- ✓ high-volume production with two separate tables
- ✓ ultra small machine footprint, fully protected workspace following CE-conformity