

REK Innovation GmbH

go for perfection. all ways

Vacuum soldering

SC series



REK Innovation enters the era of Internet of Things (IoT) and Smart Manufacturing presenting the next generation vacuum soldering systems.

The SC series combines the flexibility and capability of a R&D platform with the design for high performance and reliability of 24/7 production equipment.

Be a part of the next industrial revolution together with us. We share decades of experience in packaging technology with you and provide our competent support as your reliable partner.

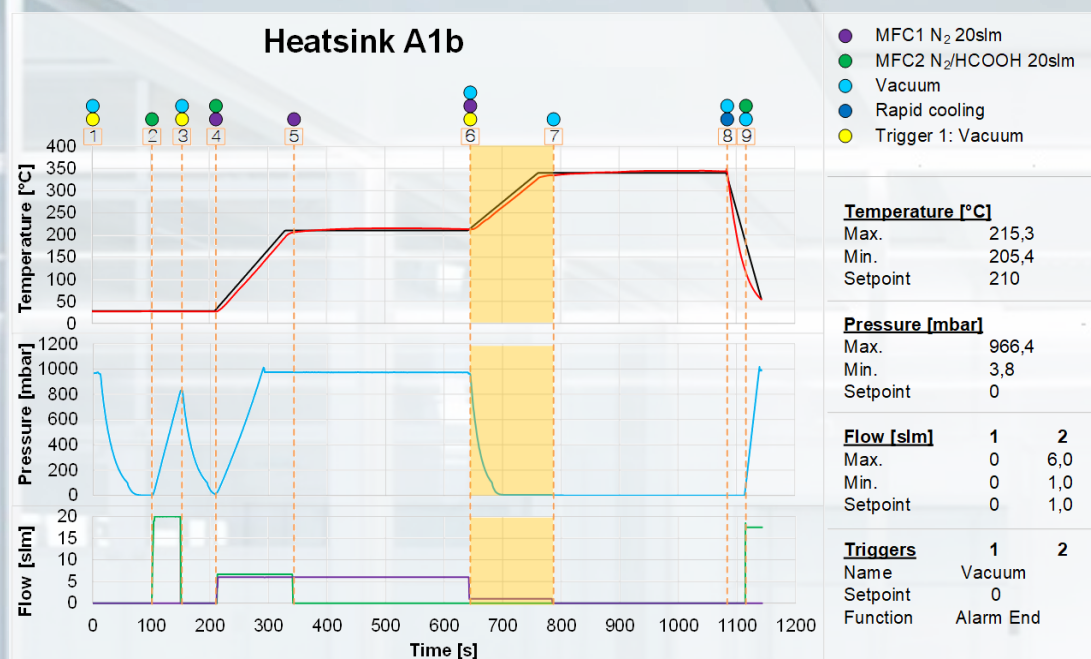
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Made in Germany

INCLUDED FEATURES

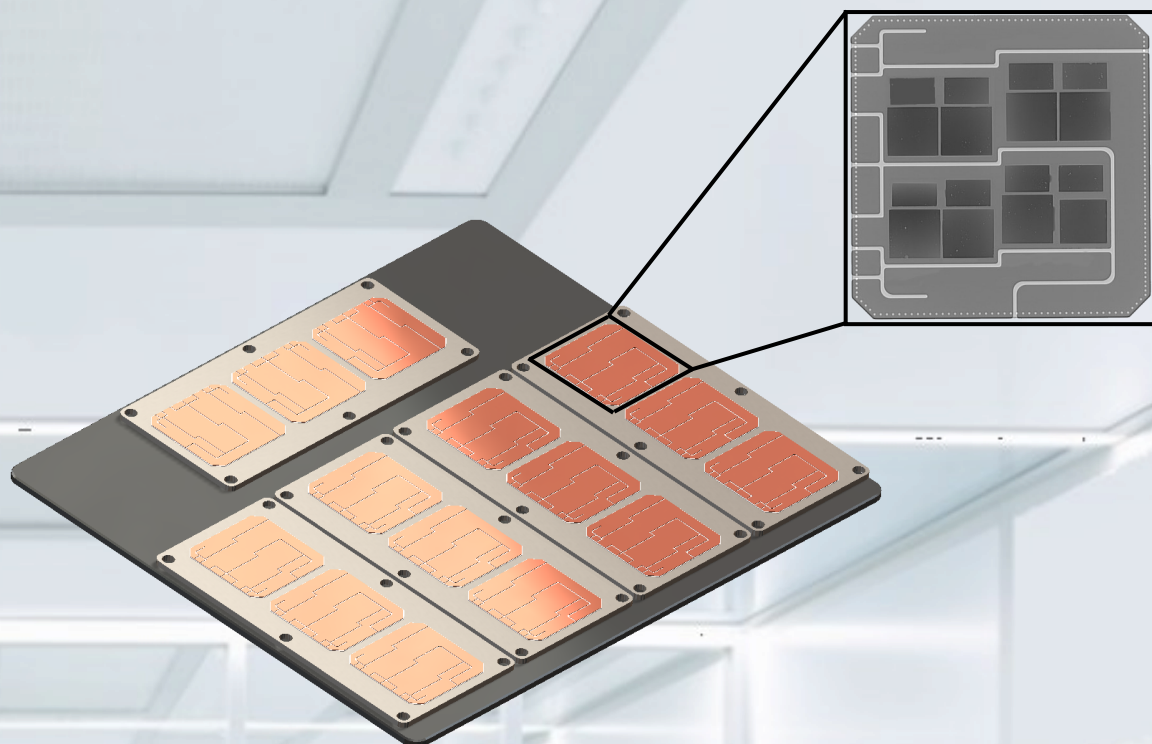
contact and contactless heating and cooling
integrated intuitive recipe editor
remote connection (IoT)
IR radiative heating
up to 500 °C



OPTIONAL FEATURES

RGA
high vacuum
O₂ monitoring
barcode reader
integrated chiller
flux management
hydrogen/forming gas
custom-tailored tooling
active cooling in vacuum
heater array in chamber lid
high temperature up to 1000°C
camera for enhanced visual inspection

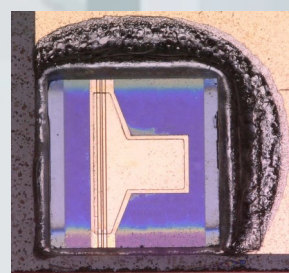
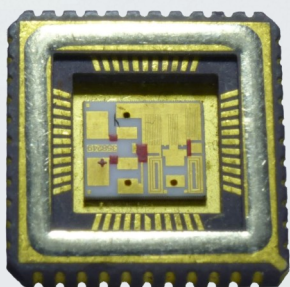
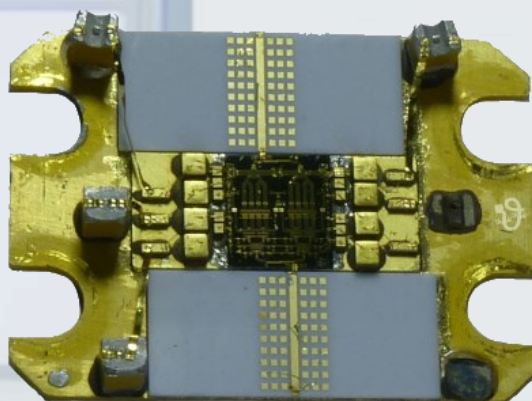




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APPLICATIONS

die attach (i.e. IGBT, power LED, laser bars, MEMS, flip chip)
substrate soldering for power modules
transient liquid phase bonding
wafer level packaging
wafer bump reflow
package sealing
T/R modules
sintering
alloying



FEATURES

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TECHNICAL DATA

	SC-350
amount of chambers	1
process area [mm]	400x350
clearance height [mm]	100
maximum temperature [°C]	500
control deviation [K]	± 0,5
heating power [kW]	21
heating rate K/min	270
cooling rate K/min	150
temperature uniformity	1%
vacuum level [mbar]	5x10 ⁻² mbar
ultimate vacuum [mbar]	5x10 ⁻⁶ mbar
cycle time	JDEC
dimensions of the system (W x D x H)	800x1600x1300
working height	SEMI S8
weight [kg]	250
floor space incl. pump and chiller [m ²]	1,28
power supply	TN-C-S/32A
viewing port [Ø mm]	80
multi-touch display	11,6"
temperature measurement	Typ K TC
	1x control
	2x monitor
cooling down in vacuum	✓
ESD protection	✓
5 color status lamp	✓
designed for 24/7 production & R&D	✓
designed for cleanroom class ISO5	✓
remote maintenance	✓