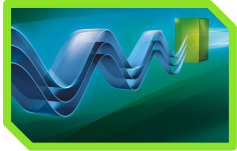


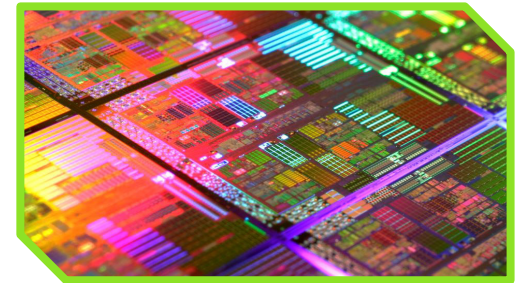
Nürnberg
16–18 May 2017



smthybridpackaging



pcim
EUROPE



SINERGO[®]
ELECTRONIC ENGINEERING

equipment for semiconductor power modules production and test

... from DBC Mastercard to the finished power module.

DBC MASTERCARD DIVIDER

from mastercard magazine
to magazines of single modules
MV inspection
no any human touch
fully automatic

SELECTIVE SOLDERING of POWER LEADS on DBC

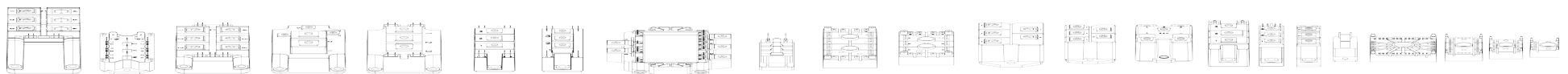
no oven required
no fixtures
multiproduct
quick set-up
fully automatic

PRESSFIT PIN on DBC SELECTIVE SOLDERING

pin cutting from reels
3D laser AOI control
robotic arms handling
no oven, no fixtures required
multiproduct; quick set-up
fully automatic

DISPENSING

glue dispensing
UV curing
option: in VACUUM
silicones (A+B) dosing
precision weighing
fitting – pressing
fully automatic



we fit all your parts ...together



ASSEMBLING - CASING

DBC & baseplate

glue dispensing
UV curing
case attaching
silicone (A+B) filling
precision weighing
bushes pressing 1 ton
multiproduct - quick setup
fully automatic



HOT IRON SELECTIVE SOLDERING

power modules on PCB
boards,
... odd components
... power connectors
... automotive parts
5 axis CNC equipment



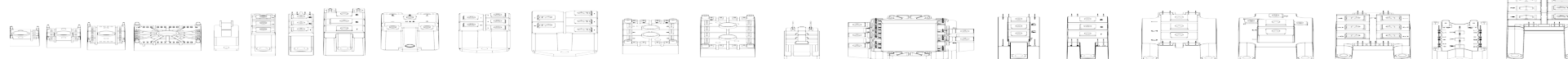
HANDLER - MARKER for PARAMETRIC TESTER

DBC & baseplate modules
cold & hot parametric test,
high voltage insulation test
laser marking - class sorting,
machine vision controls
multiproduct - fully automatic



HANDLER - MARKER for FULL POWER TESTER

DBC & baseplate modules
cold & hot dynamic test,
high voltage insulation test
laser marking - class sorting,
machine vision controls
multiproduct - fully automatic
super quick setup



**ULTRASONIC
TORSIONAL WELDING**
of power leads.
customized equipment
semi and
fully automatic.
powered by Telsonic

**WAFER TESTING
MARKING
LASER ABLATION**
TRR measuring
robotic wafer handling
die laser ablation/killing
cleanroom ready
traceability + MES
5"-6" wafer; dice > 40 mils
fully automatic

LASER SELECTIVE SOLDERING for
power leads, wires, ceramic sensor,
microelectronic devices, ...
powered by Sinergo Sinlas laser
fully automatic – very high speed
wire cutting + trimming, from reels
cleanroom ready
3D AOI controls
traceability + MES

WAFER TESTING
robotic arm driven
by machine vision
test handler equipment
die TRR measuring
fully automatic
wafer handling
cleanroom ready
traceability + MES

