



SINAX i-15

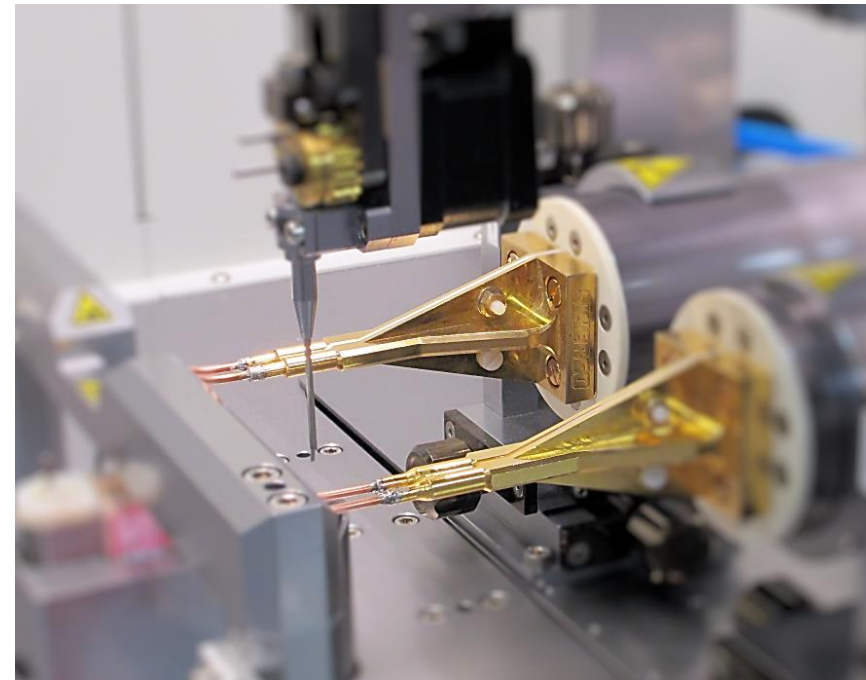
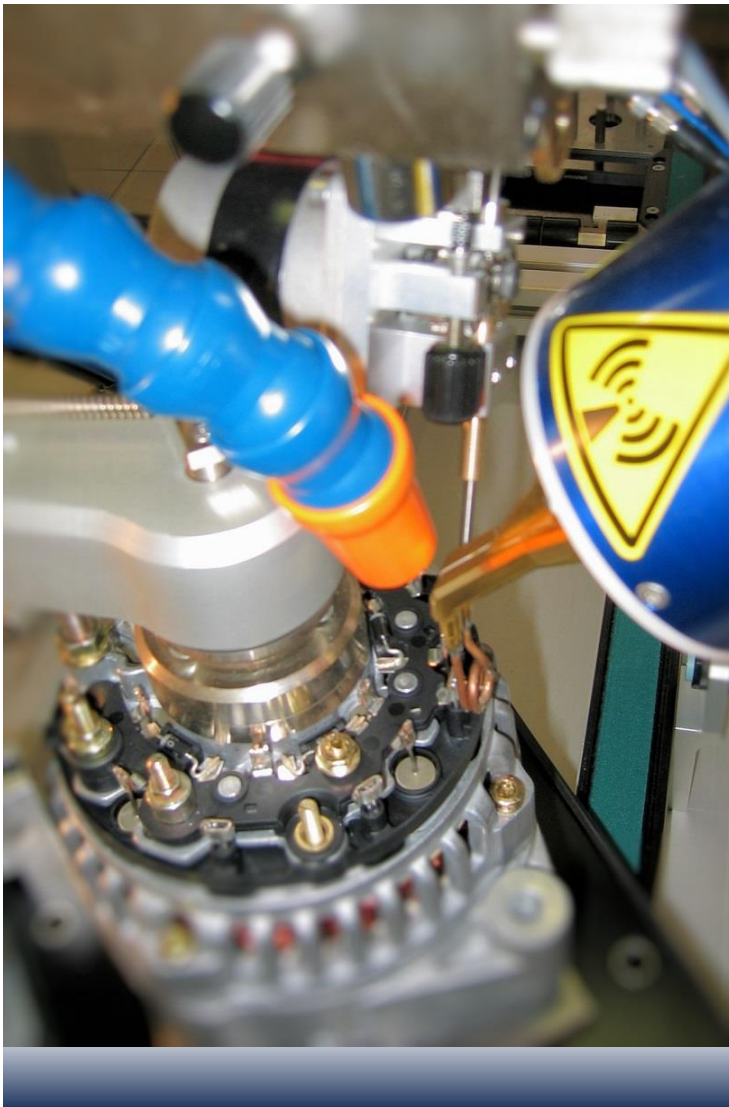
Sinergo industrial “e.m. induction soldering robot”

- “top class” design & construction.
- high performance PLC NC PC motion controller.
- up to six axes, brushless motors, interpolated.
- recirculating balls guides and screws.
- very high speed and precision movements.
- Sinergo electromagnetic induction generator
- controlled soldering process by IR pyrometer
- wide working area
- custom versions available
- remote management
- option: database, statistics and traceability
- accurate risk assessment and safety protections
- CE compliant
- EPA compliant



SINAX i-15 industrial “e.m. induction” soldering robot

- piece loading by operator, on tray.
- rotating servo table version.
- fully automatic versions:
 - pallet line or smema line.
 - custom version



- 330x350xH150 mm effective working area.
 - Induction head adjustable geometry.
 - Tin wire feeder unit with encoder “NC”
 - backlash free superfast rotating axis.
- buffered encoders: immediate start up, no “homing” required.

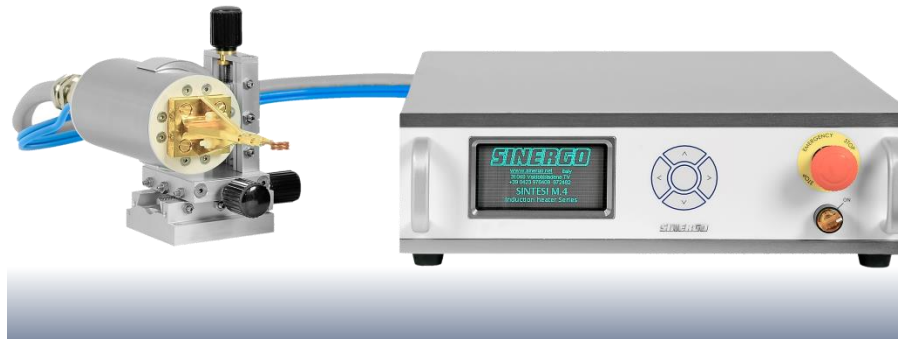
OPTIONS:

- soldering process study and optimization
 - dedicated tooling design and supply.
- barcode or datamatrix reader integration
 - “machine vision” integration
- “machine vision robot driving” integration
 - Larger working area version

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Integrated:

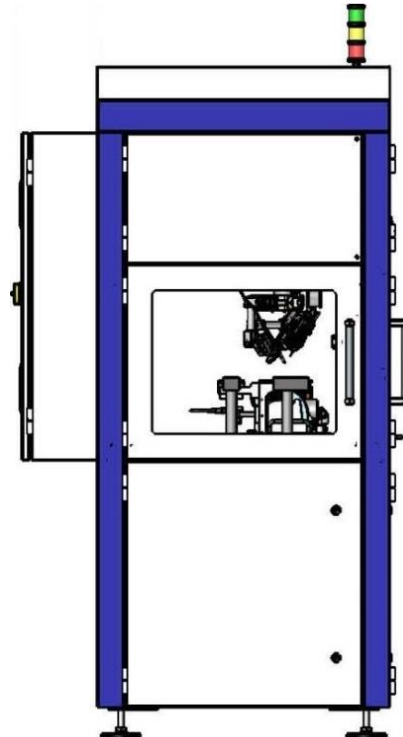
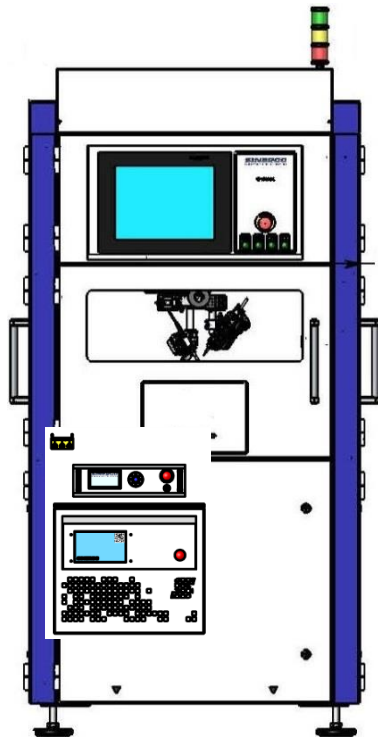
- “M4” electromagnetic induction generator
- “OP” infrared pyrometer or thermo camera (option)
- “SI-CHILL 25” water cooling set rack 19” (option)



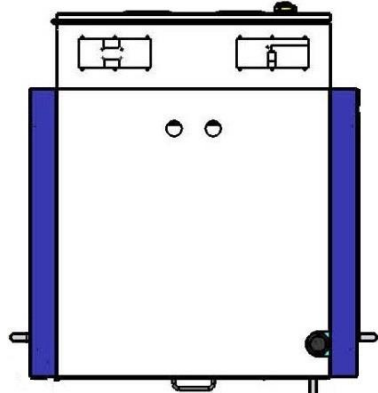
- 18” touch panel PC Human Machine Interface.
- Multilanguage display (language file loading)
- Infinite numbers of working programs.
- Many functions available: single point, step by step, sliding soldering, skip to, pre-tinning functions, ...
- Temperature profile management.
- Inert gas protection during soldering/brazing.
- Indexed fixtures and/or pallet RFID recognition.
- Local & remote program managing and recalling.
- Five levels password access.
- Diagnostic interface and maintenance banner
- Over internet remote diagnostic & managing
- Management of inert gas valves, pallet stopper and lifter, interface to external line PLC, ...



SINAX i-15 industrial “e.m. induction soldering robot”



Width 1150 mm max
Depth 1200 mm max
Height 2100 mm max + lights
Weight ~500 Kgs



main supply: 3x400 Vac 50-60Hz max. 15A 3poles + GND socket 32A
option: independent supplies: 1x230 Vac 50-60
robot only 10 A max. - chiller 16A max. - induction 16A max.
compressed air 6Kg/cm² connection
LAN & USB socket
collector for external fume extraction
ESD bracelet point socket
Sinergo software license
panel PC Windows 7 license

