



SINAX L-50

Sinergo industrial "laser diode 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 "SINLAS 50" laser source
- soldering process controlled by fast IR pyrometer and advanced PID+Fuzzy programmable algorithm.
- wide working area.
- custom versions available.
- remote management.
- option: database, statistics and traceability.
- accurate risk assessment and safety protections.
- CE compliant.
- EPA compliant.







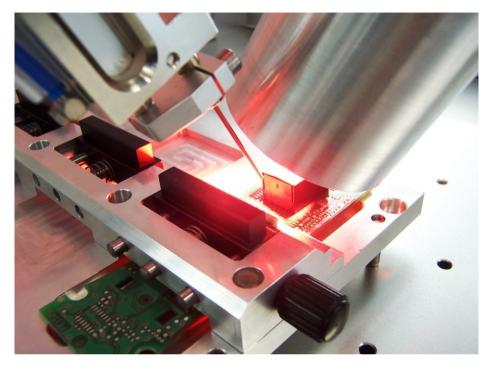




SINAX L-50 laser diode soldering robot

- Several versions available:
- Manual loading of piece inside the cell
- piece loading by operator, on sliding tray.
- rotating servo table version.
- fully automatic versions like .. pallet line or smema line.





- 330x350xH150 mm working area.
- Special laser head with sensors.
- Tin wire feeder unit with encoder "NC"
- backlash free superfast rotating axes.
- buffered encoders: immediate start up, no "homing" required.

OPTIONS:

- machine vision for the self-alignment & robot driving
 laser device to detect the effective height of piece
 - soldering process study and optimization
 - dedicated tooling design and supply.
 - barcode or datamatrix reader integration
 - Larger working area version



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Integrated:

- "SINLAS 50" laser source
- "OP" infrared pyrometer or thermo camera (opt.)
- "SI-CHILL 25" water cooling set rack 19"

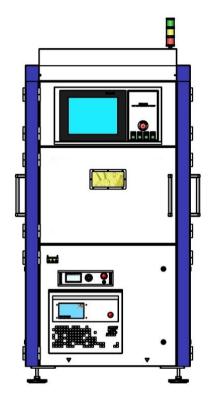


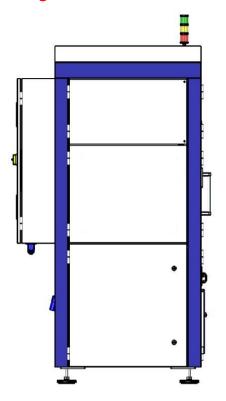
- 18" touch panel PC Human Machine Interface.
- Multilanguage display (language file loading)
- Infinite numbers of working programs.
- Many functions available: single point, step by step, sliding soldering, skip to, pre-tinning functions,
- Temperature profile management.
- Inert gas protection during soldering.
- 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, ...





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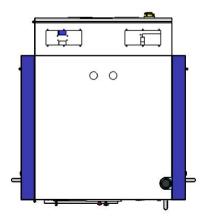






CLASS 1 laser product.
"sealed" laser system
containing a CLASS 4 laser source.

Width 1150 mm max
Depth 1200 mm max
Height 2100 mm max + lights
Weight ~550 Kgs max



main supply: 3x400 Vac 50-60Hz max. 12A 3poles + GND socket 32A option: independent supplies: 1x230 Vac 50-60 robot only 10 A max. - chiller 16A max. - laser 6A 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