SINAX H-15
Sinergo industrial "hot iron 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 hot iron **soldering head** and **tip cleaner**.
- controlled soldering process.
- wide working area.
- custom versions available.
- remote management.
- option: database, statistics and traceability.
- accurate risk assessment and safety protections.
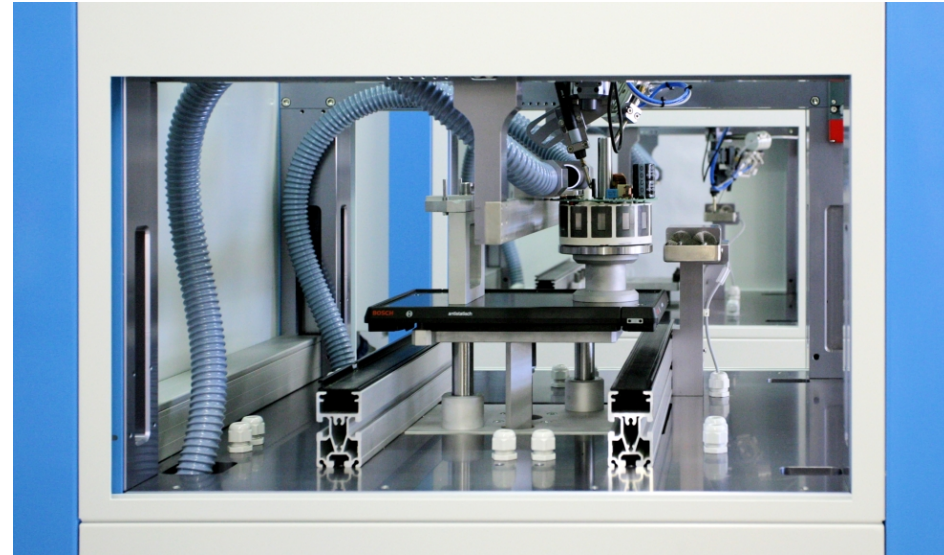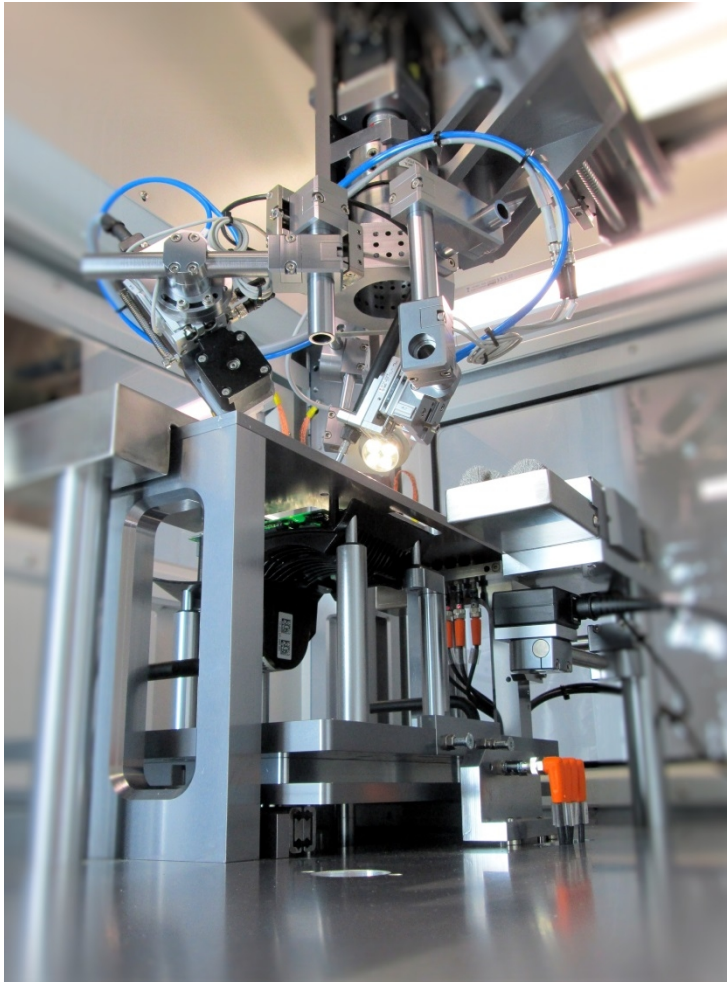- CE compliant.
- EPA compliant.

Made in Italy

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- "desktop" or "floor version"
  (detachable stand).
- piece loading by operator, on tray.
- rotating servo table version.
- fully automatic versions:
  pallet line or smema line.

- 330x350xH150 mm effective working area.
- soldering head adjustable geometries.
- hot iron adjustable damper.
- Tin wire feeder NC numerical controlled
- backlash free superfast rotating axes.
- 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
- "robot driving by machine vision" integration
- Larger working area version

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SINERGO ELECTRONIC ENGINEERING

Operatore	Administrator	Matricola	0000

Programma di lavoro
900WR — Carica programma

Punto in lavorazione
Punto 001 - Punto 1

Codice datamatrix
13_XYLEM_000456

Posizioni assi

	Posizione punto	Posizione attuale	
X	175.150	175.150	mm
Y	237.504	237.504	mm
Z	62.008	62.008	mm
R	133.149	133.149	mm

Parametri lavorazione

Temperatura	390	402	°C
Preriscaldo		2.000	sec
Quantità stagno erogato		5.000	mm
Velocità erogazione		9	mm/sec
Rampe erogazione		200	msec
Ritorno filo		2.000	mm
Postriscaldo		1.000	sec
Raffreddamento		0.000	sec

Pezzi totali	116	
Pezzi parziali	35	Azzera
Tempo ciclo	22	sec.

Controllo esecuzione ciclo
- Controllo stato finestre
- Controllo stato cassetto
- Blocco cassetto
- Sollevamento pallet
- Lettura codice datamatrix
- Caricamento programma di lavoro
- Avvio del ciclo di lavoro
- Inizializzazione dei parametri del ciclo
- Attesa macchina pronta per avvio ciclo
- Caricamento punto di lavoro
- Movimento sul punto di lavoro/prestagnatura
- Prestagnatura punta
- Movimento sul punto di saldatura
- Ciclo di saldatura del punto
- Svincolo da posizione di saldatura
- Pulizia punta
- Movimento sul punto di svincolo
- Fine lavorazione punto
- Pulizia punta finale
- Termine programma
- Abbassamento pallet
- Sblocco cassetto

START
STOP
PAUSA

Specifica punto di partenza del ciclo

Saldatura punto

Ciclo   Manuali   Manutenzione   Programmi   Dati   Parametri   **Monitor**   Uscita
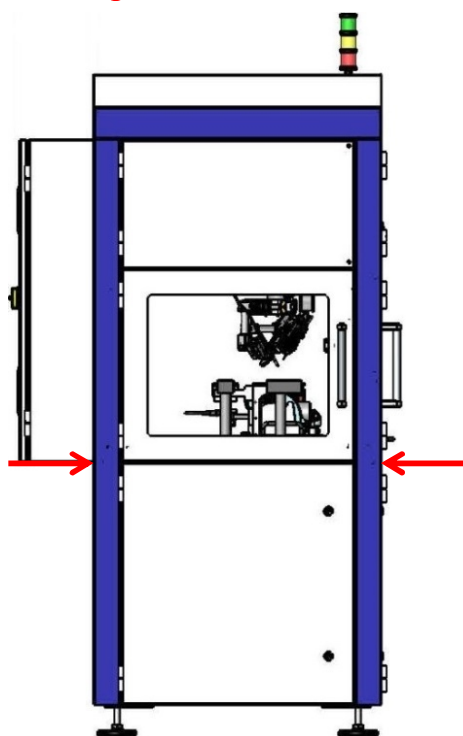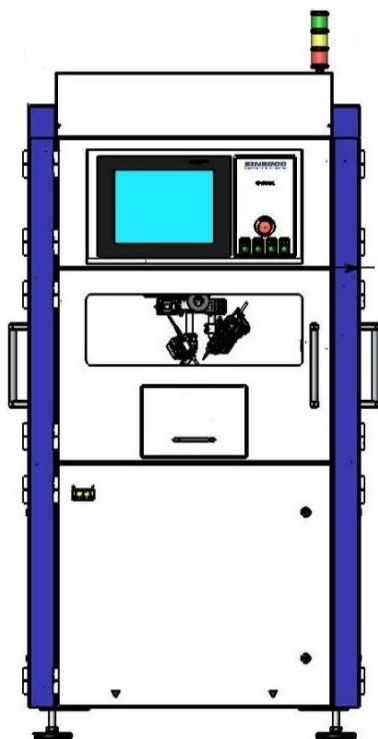
- 15" touch panel PC Human Machine Interface.
- Multilanguage display (language file loading)
- Infinite numbers of working programs.
- Many functions available: single point, step by step, sliding soldering, skip to, pre-tinning functions, programmable tip cleaning, …
- Program multiplying for PCB matrix mainboards.
- 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, …
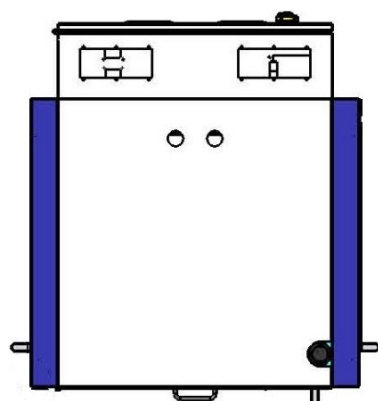
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since 1991

Width   1150 mm max
Depth   1200 mm max
Height   2100 mm max + lights

Weight ~450 Kgs max

Detachable floor stand.
Stand height 800 mm

main supply: 1x230 Vac 50-60 Hz CEE17 16A socket
power consumption: max 12 A
compressed air 6Kg/cm^2 connection
LAN & USB socket
collector for external fume extraction
ESD bracelet socket
Sinergo software license
panel PC Windows 7 license

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