

SolderSmart

Multifunctional desktop soldering robot

Latest integrated soldering technology



Suitable for fully automated soldering

Soldering Technology - Automation - Special Machinery

Description:

SolderSmart® is a multifunctional table-top soldering robot. A perfect and cost-effective solution for the fully automatic, point-by-point and reliable piston soldering of smaller to medium numbers of pieces.

The integrated Windows PC has an user interface that allows straightforward operation without much previous knowledge. As the master control system, the PC stores all relevant soldering data for process monitoring such as heating time, temperature profile, feed length etc. either locally or on a server. This ensures traceable process reliability (traceability). The table-top soldering robot can be adapted to the soldering process with various additional options in each individual case.

SolderSmart® has a portal axle system consisting of four electric axes. For optimal heat transfer, the system has an additional axis to position the soldering iron on the solder joint in a path-controlled-/ force-controlled manner. Due to flexible and modular design, the table soldering robot can be integrated as a stand-alone machine or in an existing production facility. SolderSmart® will be connected with a standard mains cable 100-120VAC / 50-60Hz or 230VAC / 50-60Hz. A compressed air supply is not required.

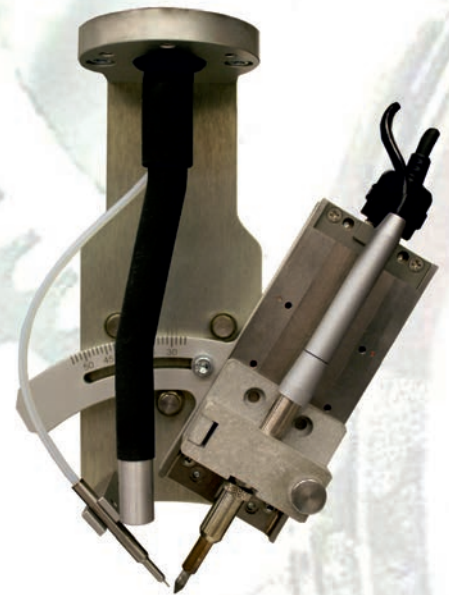
SolderSmart unit consists of:

- Four linear axes and one rotational axis
- Cleaning unit
- Soldering head with precision wire feed
- Programming and control via ELMOTEC Software
- Ready to accept a smoke suction system
- Protective enclosure according to CE (optional)
- Parts platform standard version or parts drawer (optional)
- Camera integration (optional)
- Automated adjustment for soldering tip (optional)

Technical specification:

Working surface:	500x400mm (basic version)
Cartesian axes system:	Four linear axes and one rotational axis for the positioning of the soldering tip
Axis accuracy:	± 0.02mm
Speed:	approx. 400mm/s
Control:	Only electrical (no compressed air)
Interface:	Ethernet / USB / Digital I.O / HDMI
Supply voltage:	100-120VAC / 50-60Hz or 230VAC / 50-60Hz
Power consumption:	Max. 10A
Dimensions:	880x880x770mm (880x880x830mm with Protective enclosure)
Wight:	approx. 75Kg

Soldering head



Subject to technical changes

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