

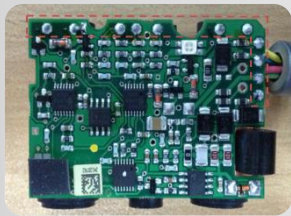
SELECTIVE SOLDERING SYSTEM SELECT450

Ultra Compact System for PCB's
up to 350 x 450mm



Selective Soldering System SELECT450

- Ideal for automatization of Selective soldering tasks
- Shortest ROI through low investment
- Ultra compact Stand Alone System
- PCB's up to 350 x 450mm
- Titanium Solder pot with selective soldering nozzle
- Integrated spray fluxer
- Industrial PC with Windows Software for easy programming and operation
- Optional preheating of PCB, Fiducial recognition, Soldering Live Camera



Wire Soldering



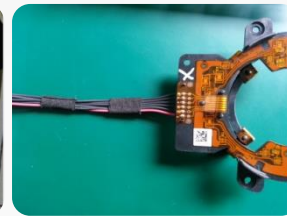
Mixed PCB



Automotive Sensor



Mini SUB Connector



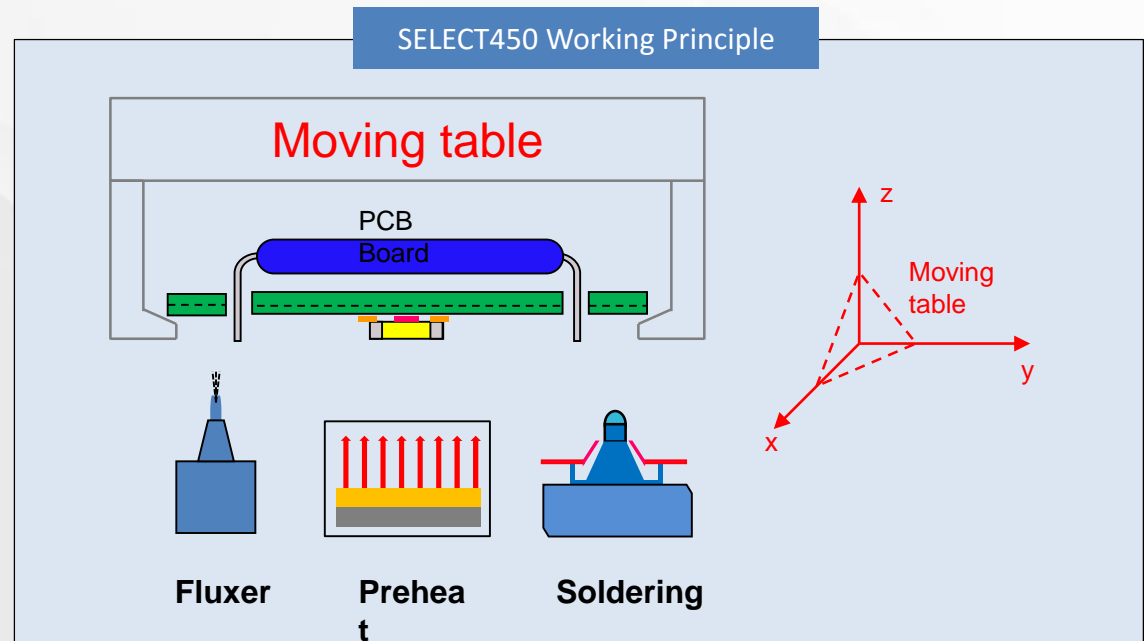
Flex PCB to plastic cover



Mixed PCB, tall
components beside
soldering pad

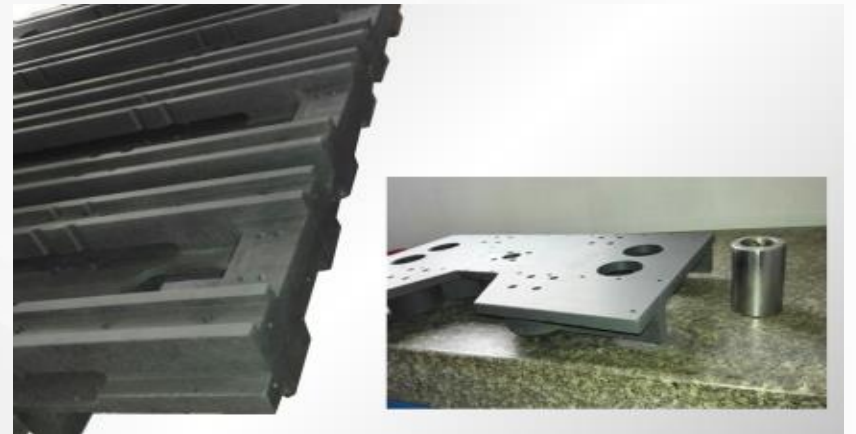
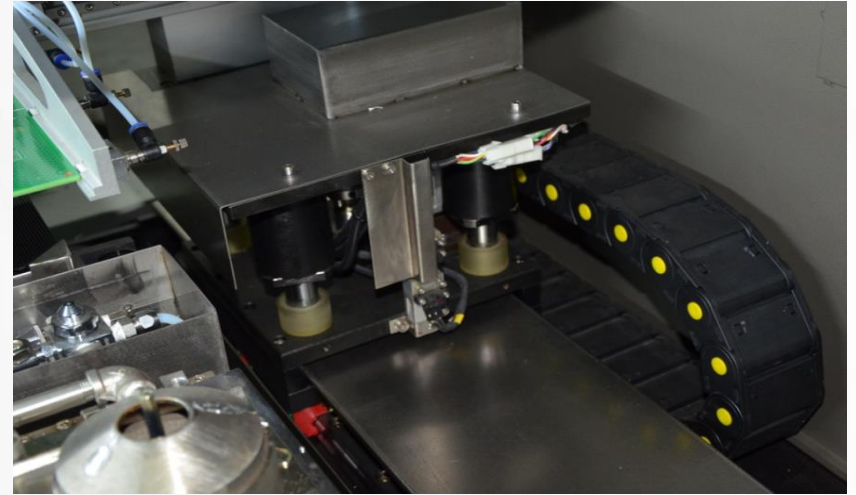
Selective Soldering System SELECT450

- Soldering moving speed, wave height and soldering temperature are programmable for different components
- High precision X/Y/Z movements by Panasonic servo motor & drivers
- Standard equipped with flux sprayer for down to minimum dot diameter 10mm
- Standard equipped with "N2" heating system for best soldering results
- Different diameter standard soldering nozzle available
- Customized nozzle for specific request additionally available



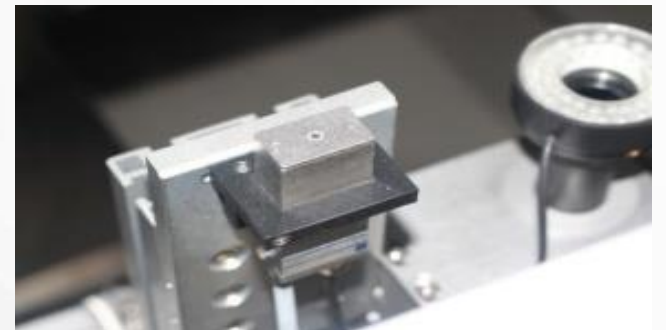
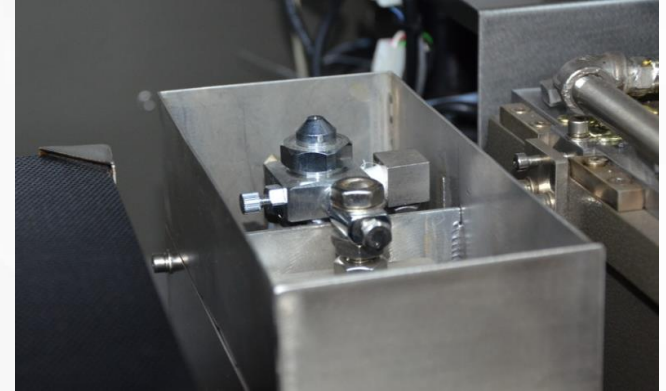
SELECT450 Motion System

- High quality Servo Motors, ball screw drives and high precision linear rails for X/Y/Z movements
- High precision Cast Aluminum for all movement parts for light weight, fast movements



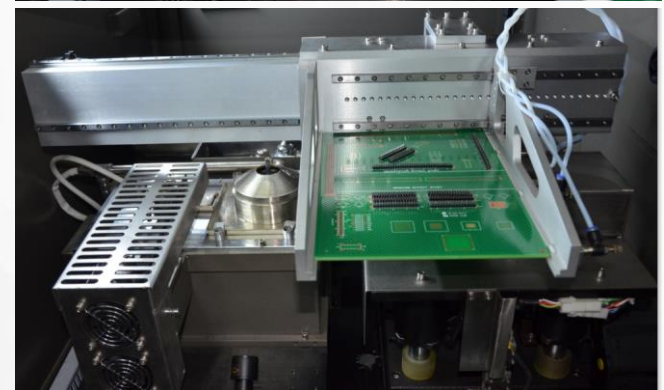
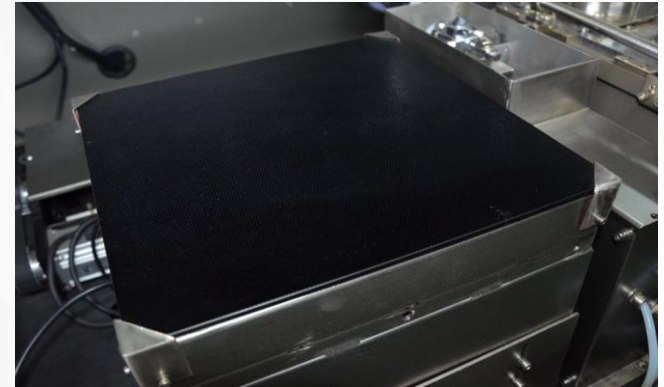
SELECT450 Fluxing Systems

- Standard equipped with precision spray nozzles (Made in Japan) for dot sizes down to 10mm
- Pressure flux tank with regulating valve to make sure flux is always under same pressure, so to provide stable fluxing performance.
- Optional with drop jet valve from Germany originally, which can meet dia 2mm flux dot dimension.



SELECT450 Preheat and Soldering

- Optional bottom preheating zone. PCB is moved to this position for a programmable preheat time and temperature
- Titanium solder pot for lead free and standard applications. Equipped with a mechanical pump system for easy maintenance
- N2 heating system as a standard to enhance the wetting ability for lead free solder. Can heat N2 up to 350 C degree

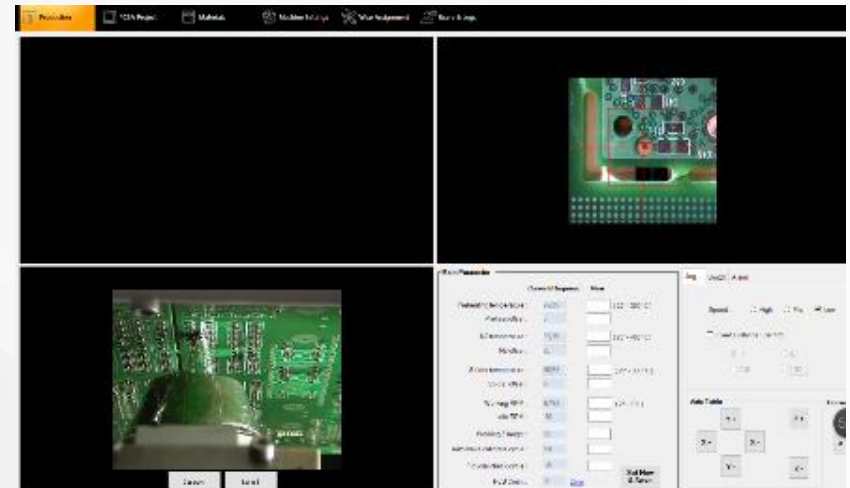


SELECT450 Soldering Nozzles and Vision System

- High quality Soldering Nozzles. Customized solder nozzle's for specific applications. Special nozzles with grooves to get high and stable solder head for fine pitch soldering tasks (can handle 0.5mm clearance pad). Talk to our specialist for your specific application.

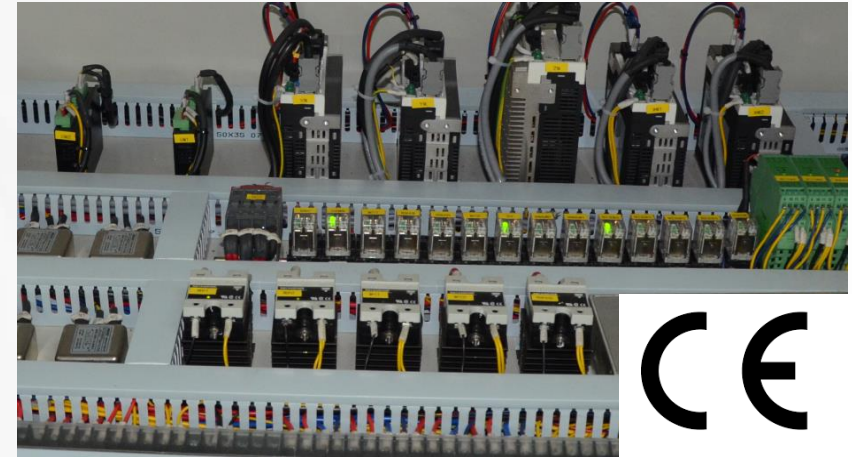


- Optional Live Camera System to supervise the soldering process in real time
- Optional automatic Fiducial recognition system

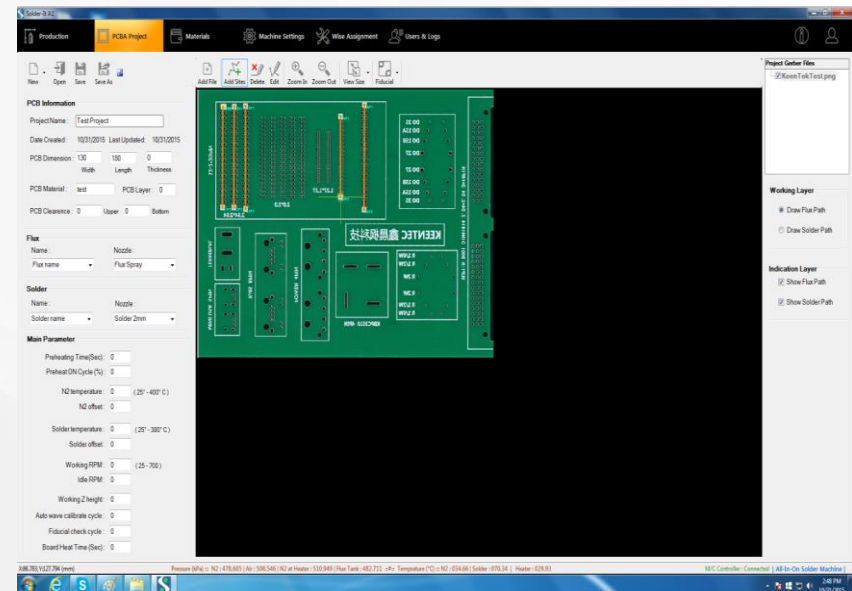


SELECT450 Control and Operation System

- High quality brand electrical systems (Panasonic servo and drivers, ABB relay and contact, Swiss Carlos SSR, fully CE Certified)



- Easy to operate Software
 - Programming from scanned PCB image
 - Draw line or dot in scanned board picture for path programming
 - All soldering parameters can be stored in a library
 - Windows based Software



SELECT450 – Technical Data

General	
Operating power/Max power	2KW/5KW
PCB dimension	50x50---350x450mm
Machine dimension	1100 (W) *1150 (D) *1275 (H)
Net weight	400KG
Power supply	1PH 220V 50HZ
Air supply	3-5 bars
Exhausting required	200M3/h
PCB Robotic Platform	
Axes of Motion	X, Y, Z
Motion Control	Servo motors for X,Y,Z
Position Accuracy	+ / - 0.05mm
Solder Management	
Standard Solder Stations	1
Solder Pot Capacity	15 kgs
Solder Temperature Control	PID
Heat-Up Time	20 Minutes
Max Temperature	380 C
Solder Pot heater	3kw

Solder Nozzles	
Mini Wave Nozzles	Dia 2 to 8mm
Customized nozzle	Available
Nozzle Material	Proprietary Alloy
(N2) Inertion Management	
N2 heater	Standard Equipped
N2 Temp PID Control Range	0 - 350 C
N2 Consumption per Nozzle	1.2m3/H
Required N2 Purity Oxygen	O2 < 20 PPM
Optional Flux Management	
Spray Flux Nozzle	Standard equipped with sprayer nozzle with can meet dia 10mm dot at PCB
Spray Flux Durability	High Durability Stainless Steel
Flux Capacity	1L
Flux Tank	Constant pressure tank
Optional preheat	
IR heater	2kw
Controlling System	
Industrial PC	Yes
Typical Program Time	10 Minutes
Program method	Setting by Displayer
Controlling system	Industrial PC

SELECT450 Selective Soldering System - Summary

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- Customized nozzle for specific request additionally available
- Optional
 - preheating of PCB
 - Fiducial recognition
 - Soldering Live Camera
 - Offline Programming Station
 - Exchangeable Solder Pots for different Leads



Renting instead of buying

Get your Selective Soldering Equipment with low monthly rates and the full flexibility to react to changing production demands.

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WHEN YOU CAN LEASE
BETTER FOR LESS?



About Lavortec

- Lavortec is a **Company based in Switzerland** being in the business of electronic manufacturing equipment for **over 11 years**
- Our team in Shenzhen/China carefully **selects and qualifies proven** suppliers with a **large installed base** in Asia and a **good reputation** from world wide known users.
- **Process evaluation Center** to test and set up the process for your specific product
- **Product Adaptation** for European requirements can be effected
- All products are **CE tested and certified** by our own team
- All products have to pass a **Quality Check** before they are shipped to Europe
- A **European network** of sales and after sales partner guarantee you **local support**
- In our Hub in Switzerland we arrange **all payments in full safety** as well as taking care of the **import administrations** and the **transport arrangements**



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