

# L-CAT EVO-II

## Desktop or In-Line Soldering Robot

L-CAT EVO has been upgraded and renamed as L-CAT EVO-II . This robot can be used for in-line or desktop applications.

The L-CAT EVO-II has expanded Input and Output capability and an Ethernet function.

The X/Y/Z/R-axes move more smoothly and are much more reliable.

The L-CAT EVO-II has a capacity of 100 programs and 100,000 points to meet virtually all PCB soldering requirements. The soldering temperature can be customized inside each of the 300 soldering profiles to provide optimal quality and cycle time. X&Y motors with high accuracy rotary encoders achieve 0.01mm resolution (repeatability 0.02mm) with a maximum speed 750mm/sec.



**Accessories**

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ZSB Feeder




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Air Blow Cleaners

CRB CRB-A2




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Rotary Cleaners

SRC-500DC BRC-3000 SRC-3000




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Fume Extractors

Bofa VAC-3000

VAC-4001A VAC-4002A




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Pre-Heater

YPH-10




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Micro Monitoring Camera

CSS-2100




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High-Quality Portable Video Recorder

CVR-2100




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Tip Thermometer

TTM-140



# “The Robot Designed Exclusively for Soldering” Designed & Built by Apollo Seiko

## Exclusive Gantry Type Soldering Robot

All 4 axes (X, Y, Z & R) are suspended from the gantry which allows for simple fixture design and easy integration into conveyor, manual load & dual shuttle environments. Fixture size and weight & cable/wire harness lengths are not an issue as the fixture remains stationary on the robot base table.

## Programming Freedom & Flexibility

Normally soldering robots have a fixed sequence to program solder parameters. However, the L-CAT EVO-II has a very flexible solder sequence that can be customized to meet the needs of your specific application. The L-CAT EVO-II offers flexibility of parameter sequencing to provide solutions for high thermal energy, fine pitch devices, large & small lead combinations etc. The soldering parameters (solder feed amount, feeding speed & temperature) can be arranged in a sequence that provides a solution for each particular soldering challenge.

L-CAT-EVO-II 4330 Operation Range Dimensions (WxDxH) Weight	X=300mm, Y=300mm Z=60mm, R=340° 520×995×714mm 50kg
L-CAT-EVO-II 4430 Operation Range Dimensions (WxDxH) Weight	X=400mm, Y=300mm Z=60mm, R=340° 620×995×714mm 52kg
L-CAT-EVO-II 4540 Operation Range Dimensions (WxDxH) Weight	X=500mm, Y=400mm Z=60mm, R=340° 720×1100×714mm 55kg
Soldering Condition	198Conditions
Soldering Step	21Step
Setting Temperature	TEM:0~500°C
Solder Feeding Speed	S+ / S-:1~50.0 (mm./sec.)
Timer	TIM:0.1~99.9 (sec.)
Iron Up/Down	CY:ON / OFF
Solder Diameter	φ0.4~1.6mm
Heater Capacity	130W (Option:200W available)

Drive Method	5 Phase stepping motor with X,Y Axes
X, Y Axes	750mm/sec.
Z Axis	150mm/sec.
R Axis	360°/sec.
Teaching Method	Remote teaching (JOG) Manual Data Input (MDI)
Program Capacity	100 program
Memory Capacity	100,000 point
SYS-IO	IN:16 OUT:10
Free I/O	IN:16 OUT:16
External Interface	Ethernet, RS232C
Solder Feeding Amount Resolution	0.01mm
Repeatability	±0.02mm
Portable Weight	3kg
Power Source	AC94V~260V (Single Phase)
Air Supply	0.4~0.5 MPa (Dry & Clean air)
Power Consumption	MAX330VA (including heater)
Nitrogen Generator	Standard Equipment to Robot inside with Digital Flow Meter