

L-CAT EVO-II

Iron Tip Soldering Robot

In-Line/ Cell production type

The newest version of the EVO series has the most exclusive features for soldering.



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 a conveyorized system.

Fixture size and weight as well as cable/wire harness lengths are not an issue as the fixture remains stationary on the robot base table.

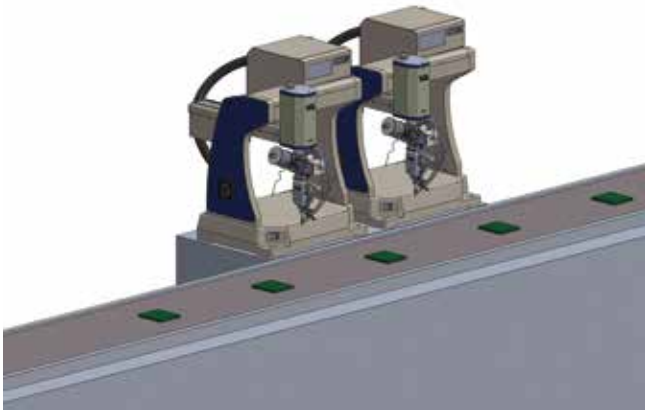
Programming freedom & flexibility

L-CAT EVO-II has a very flexible solder sequence that can be customized to meet the needs of your specific application.

Soldering parameters can be arranged in a sequence that provides a solution for each particular soldering challenge.

In-line/ Cell Production

An example of the L-CAT EVO-II being used with a conveyor.

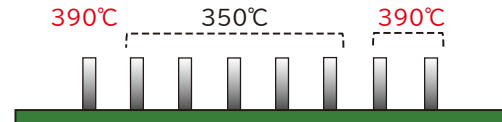


Standard nitrogen gas generator

Increases the solder wettability, and provides better results and minimizes solder defects.

Iron tip temperature can be set individually for each point

High-quality soldering of components with different heat capacities, reliable filling of through-hole, and perfect back fillets can be achieved.



Iron unit & feeder, all on the same axis

Due to the iron unit and feeder being on the same axis, when rotating it, the feeder tube does not twist or loosen.

Type		L-CAT EVO-II 4330	L-CAT EVO-II 4430	L-CAT EVO-II 4540
Operation Range	X axis	300mm	400mm	500mm
	Y axis	300mm	300mm	400mm
	Z axis	60mm	60mm	60mm
	R axis	340°	340°	340°
Repeatability		X, Y, Z axes $\pm 0.02\text{mm}$		
Resolution		X, Y, Z axes 0.01mm		
Teaching Method		Remote teaching (JOG) / Manual Data Input (MDI)		
Program Capacity		100 programs		
Memory Capacity		100,000 points		
External Input / Output	SYS - I/O	IN:16 OUT:10		
	Free I/O	IN:16 OUT:16		
Soldering Condition		198 conditions		
Setting Temperature		0 ~ 500°C		
Solder Feeding Speed		1.0 ~ 50.0mm/sec		
Solder Feeding Amount Resolution		0.1mm		
Solder Wire Diameter	Using ZSB Feeder	$\Phi 0.4 \sim 1.0\text{mm}$ (Option: $\Phi 0.3\text{mm}$)		
	Using Normal Roller	$\Phi 0.3 \sim 1.0\text{mm}$		
	Using Large Diameter Feeder	$\Phi 1.2 \sim 2.0\text{mm}$		
Heater Capacity		200W (Max.)		
Air Supply		0.4 ~ 0.5MPa (Dry & Clean Air)		
Power Source		AC94 ~ 260V		
Power Consumption		330W		
Dimensions (W×D×H)		520×995×714mm	620×995×714mm	720×1,100×714mm
Weight		50kg	52kg	55kg

* Position repeatability is not a guarantee of absolute precision. With usage conditions, it may exceed the above value.