

EZSoldering Machine specifications

최종 수정일 : 2026-03-12

구분	항목	사양	상세
1. General info	Equipment size	W1460 x D1660 x H1485 (mm)	
	Working area	Min : 80 x 80 (mm) Max : 380 x 380 (mm)	
	Pass Line	900mm	Height adjustable 850mm to 950mm
	Control method	PC control	
	Equipment weight	Approx. 700 kg (without solder)	

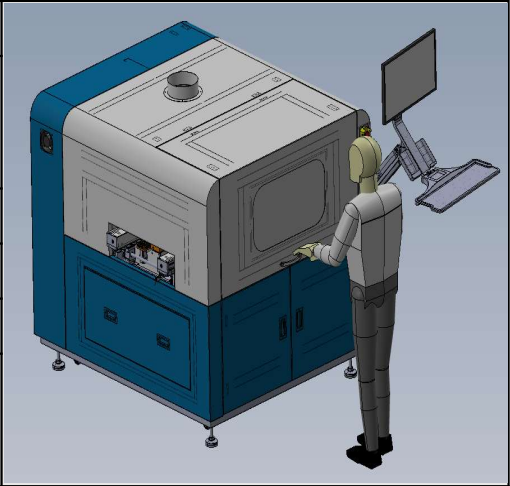
2. Utility	Exhaust	Equipment top (200pi)	
	Power	Rated Power (Max.) : 7.5 kW (based on installed components; option dependent) Typical Consumption : 3~5 kW (steady-state after warm-up; depends on ambient and process duty)	380v →220v Down trans : 3kW
	Air	Approx. 4~6 bar	Main air In : 10Ø Regulator LED Monitor
	N2	Max. 50 L/min	Main N2 In : 10Ø Regulator LED Monitor

3. Solder pot	Solder weight	approx. 13 kg (effective)	
	Power	3kw (1kw x 3ea)	380v 3 phase
	Temperature range	RT – 350°C	
	Impeller drive	AC servo motor	RPM closed-loop control
	Solder pot size	200(W) x 130(D) x 90(H) mm	
	Solder supply method	DC motor auto feeding	DC 24v / Option
	Solder level detection	fiber sensor	
	Monitoring camera	Solder nozzle flow monitoring	
	Vision camera	Fiducial recognition, solder inspection	over / under / bridge
	N2 heat	N2 box side to solder heater	
	Sensor	Temp senor, 1ea	

4. Preheater	Composition	Circle IR Heater (1kw x 1ea)	
	Power	1kw (1kw x 1ea)	380v single phase
	location	Solder nozzle around	
	Control method	ON/OFF SCR Control	
	Sensor	Temp sensor, 1ea	

5. Flux	Composition	Micro jet valve	100mm up/down cylinder
	location	Solder pot side	
	Air	4bar ~ 7bar	
	Valve line	Flux line	
		Air line	
	Amount control method	on/off time control	

6. Conveyor	Conveyor composition	Helical gear & Roller	
	Motor	AC motor, inverter driven (3-phase)	220v 3 phase S9I90GTH (Motor) S9D150B (Gear head)
	Min, Max speed	0.5 - 2.3 M/min	
	acceleration/ deceleration	Inverter, PC Software control	
	Width	Servo motor control	
	Total length	1500mm	
	Rail width range	80 to 400mm	Working area : 380 x 380 (mm)
	PCB Stop	Air cylinder	Side stroke
	PCB Push	Air cylinder	Side press
	PCB detect sensor	Photoelectric sensor, 2ea Fiber sensor, 1ea	Inlet, Outlet → Photoelectric sensor Working area → Fiber sensor

7. Case	Material	SS400	
	Design color	Side edge : dark blue Overall : ivory Base : ivory	
	Electric box	Fans : 2 on each side	
		Electrical/Pneumatic Separation	
		Door for maintenance	
	Base	Base frame : 50×50 steel pipe Base plate : 6T steel Cover : SGCC 1.6T	

8. Servo	Motor	Panasonic servo motor & driver	X axis : 400W Y axis : 400W Z axis : 200W Impeller : 100W Width : 200W
	Robot	X, Y, Z 3axis	Brand : Alpha, Panasonic
	Robot base	Rust-proof base	용융아연도금강판(GI), SGCC, t=1.6mm
	Control method	RTEX servo control	
	Sensor	- Limit, Home, + Limit	
9. PC	Control board	PCIe Board, 8axis, RTEX Master Card, DSP 적용	AJIN
	Interface	SMEMA	
	PC Software	EZS Software	Easy setup & intuitive operation
	Recipe method	Image-based coordinate mapping	
	Function	XYZ Speed control (mm/s)	Servo control
		Width Speed control (mm/s)	
		Solder temp control (°C)	ML-D4C, SCR control
		Preheater temp control (°C)	
		Solder flow control (RPM)	Servo control
	Parameter	Solder temp (°C)	
		Preheat temp (°C)	
		Air, N2 press	
		Cycle time (sec)	
		Conveyor width (mm)	
	I/O	32 ea	
	Devices	Monitoring Camera	CCTV
		Vision Camera	Fuducial, AOI
		Auto feeder	
		PCB Scanner	PCB Image