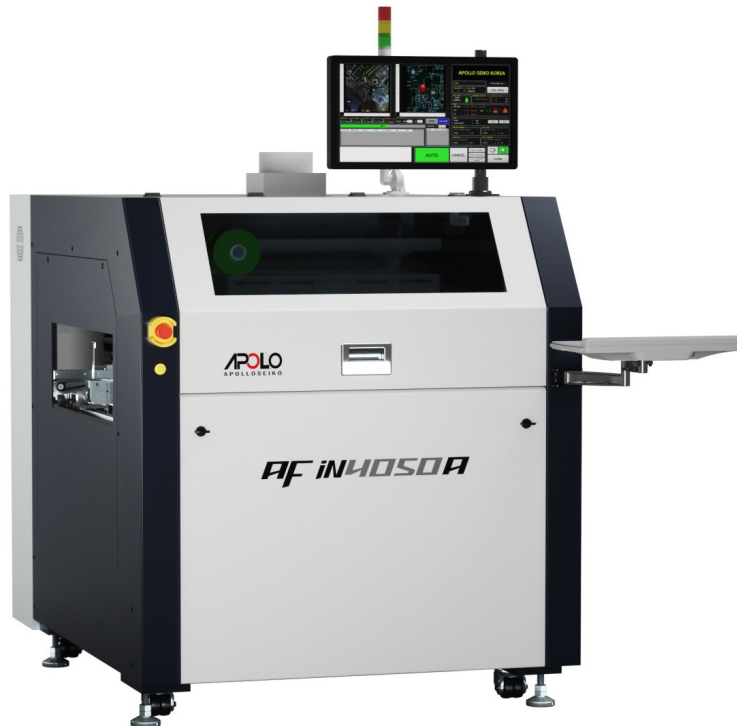




AF iN4050A

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MODEL : AF iN4050A

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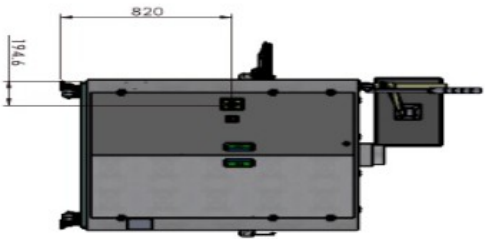
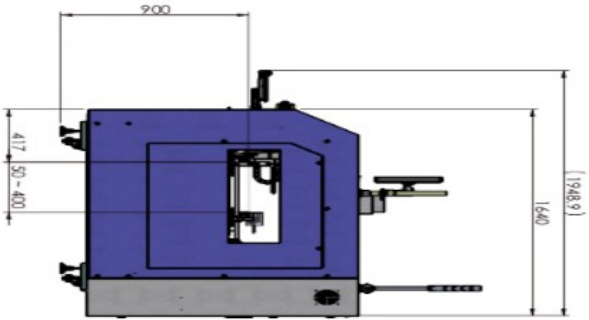
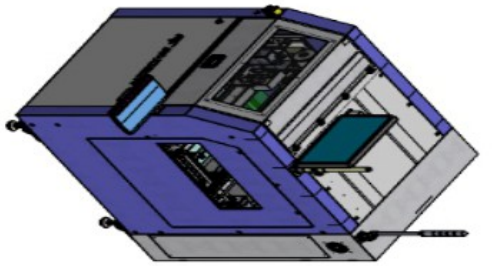
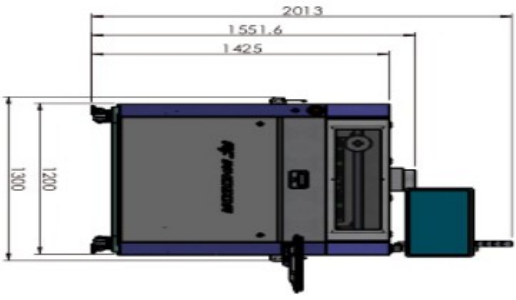
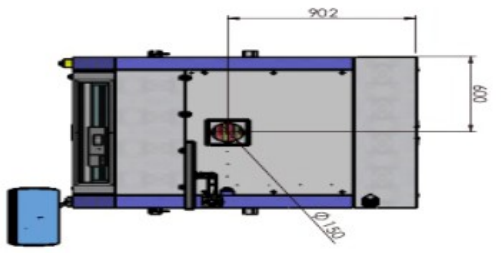
IN line All-in-one Selective Soldering Model

As **IN LINE** machine, Fluxing, Top preheater and Soldering in **ONE MODULE**

- Auto flow height adjustment by touch probe
- Auto nozzle cleaner
- Auto solder feeder & solder level sensor
- Auto adjustment of coordinates by the FIDUCIAL VISION
- Automatic adjustment of solder pot temperature
- Preheater : Top 3ch IR heater
- Save of the soldering video & Management of the soldering condition(MES/Option)
- Language support (English, Korean,Japanese, Chinese)
- Remote control support by internet

SPECIFICATION	AF iN4050A
SYSTEM	X, Y, Z, R AC SERVO (R = Flow motor)
	Flux (Dot) Unit
	Top 3ch Pre-Heater(Temperature control range : 50~150°C)
	Auto solder feeder
	Roller conveyor system
	Auto flow height check and adjustment by touch probe
	Auto nozzle cleaner
	Adjustment of solder pot temperature
	Fiducial Mark Vision
	Monitoring camera
	PC system & Monitor & Keyboard & Mouse
	SPECIFICATION
1. X, Y Axes AC SERVO's Speed : 0~500mm/sec (±0.05mm/sec)	
2. X, Y Axes Linear & Circular interpolation	
3. Control speed of roller conveyor (flow) : Min. 600rpm, Max. 1700rpm	
4. Control speed of roller conveyor (width) : Max. 20mm/sec	
5. Maximum load weight : 5kg	
[Solder pot]	
1. Consumption of solder pot : 2.0 kW (±1°C hot N ₂ support) 1. Consumption of solder	
2. Temperature control range of solder pot : Max. 400°C	
3. Capacity : 6.5 kg	
4. Nozzle base type : screw type (option : Magnetic type)	
5. Temperature control range of N ₂ heater : 150~260°C 5. Temperature control range	
[Flux unit]	
1. Micro drop jet fluxer	
2. Flux tank pressure : 30 kPa	
3. Flux tank Capacity : 2 l (liter)	
4. Fluxing : Dot	
[Preheater]	
1. Preheater type : Top (3ch), IR heater, RS485	
2. IR heater's temperature control range : 50~150°C (Top preheater)	
3. Consumption of IR heater : 1kW X 6ea	

SPECIFICATION	[Utility]
	1. Auto adjustment of coordinates by the Fiducial vision : Precision $\pm 0.1\text{mm}$
	2. Auto flow height check and adjustment by touch probe : Precision $\pm 0.1\text{mm}$
	3. Precision of flow rpm : $\pm 5\text{rpm}$
	4. Adjustment of solder pot temperature : Precision $\pm 2^{\circ}\text{C}$ (Thermocouple type)
	5. Auto solder feeder : 5kg, $\varnothing 2$ or $\varnothing 3$
	6. Solder level sensor type : proximity sensor
	7. Auto nozzle cleaner : Sponge type, capacity 30cc, Liquid - DF 500
	[Exhaust system]
	1. Fan type : size - $\varnothing 150$, air flow - Max. $356\text{ m}^3/\text{hr}$ 1. Fan type : size - $\varnothing 150$, air flow
	[Program Teaching]
	- Live Teaching
	- Scan image teaching
	- Gerber Data teaching
	- External Gerber, Scan image teaching
	[Progaming capacity]
- Flux job, Solder job, Garber data : more then 1,000 files	
[Language]	
- English, Korea, Japanese, Chinese	
[Option]	
1. Loader & Unloader	
2. Flux detection sensor	
3. N ₂ purity check unit 3. N ₂ purity check unit	
4. Save of the soldering video & Management of the soldering condition(MES)	
CONTROL SYSTEM	[System component]
	1. PC Control (ENG WIN10 pro 64bit OS) 1. PC Control (ENG WIN10 pro 64bit OS)
	2. PC (1) & Monitor (1) & UPS (1)
	3. Max. 7 axes
	4. Video Output Source : BNC, RCA
	[Communication]
	1. Communication mode : RS 232 / RS485
2. Axes communication mode : EtherCAT	
3. Vision system & PC communication mode : Ethernet	
OUTLINE SIZE	1300(W) X 1640(L) X 1551(H)
WORK AREA(X axis X Y axis)	500 X 400mm
WEIGHT	750kg
POWER SOURCE	AC200~240V, 50/60Hz, 3Phase
AIR Pressure	0.5 Mpa ~ 0.7 MPa
N2 Requirement	Pressure - 0.2Mpa ~ 0.4Mpa, Purity - 99.99%, flow - 50 ℓ /min
CONSUMPTION	11kW (50A)



Notes:

1. Material:
2. Color:
3. Control system:
4. Guarantee: uniformity of surface after the surface treatment and the color will be the same.
5. The product will not have the product in use harmful elements such as cracks and debris.
6. Will remove sharp burrs.
7. Other questions will consult with the designer.

Model No.	AF 1105SA	Product No.	
Part No.		Qty	1

Rev	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
DATE																				
SCALE	1:1	1:1	1:1	1:1	1:1	1:1	1:1	1:1	1:1	1:1	1:1	1:1	1:1	1:1	1:1	1:1	1:1	1:1	1:1	
TITLE																				
PROJECT																				
DESIGNER																				
CHECKER																				
APPROVED																				
DRAWING NO.	AF 1105SA																			



APOLLO SEIKO KOREA CO., LTD