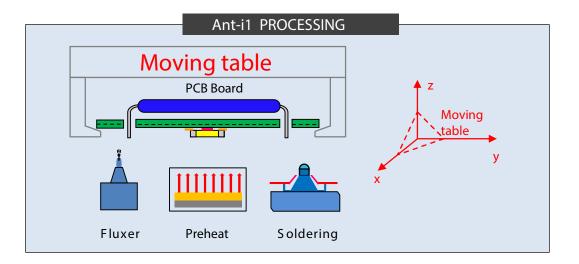


Machine working concept:

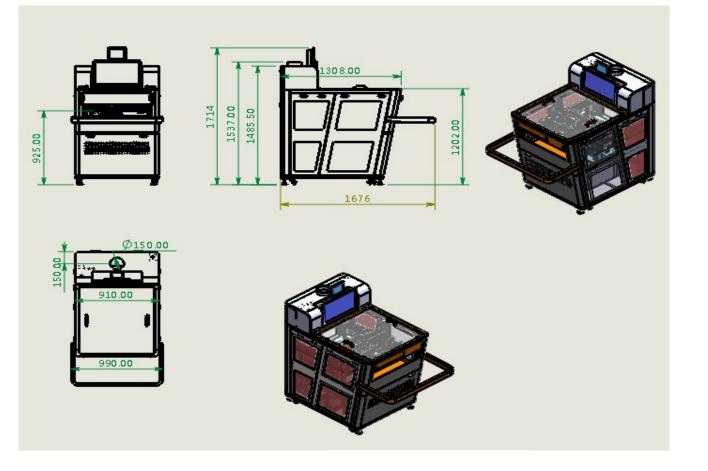
PCB is moved by X/Y table with servo motor, Solder pot is moved in Z with servo motor, drop jet flux is moved in Z with aircylinder.

Standard equip Drop jet fluxer, bottom preheating, selective solder pot, inline N2 heater, auto wave height calibration, live-on camera, Windows 10 English software.





MODEL: Ant-i1 OFFLINE SELECTIVE SOLDERING MACHINE



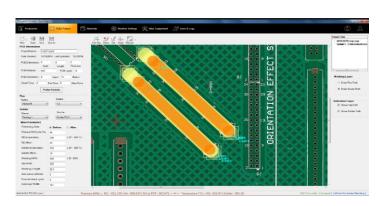


Software System

Path programming

Solder It

"Solder it" is windows10 based software. With board scanned picture or Gerber file, "POINT AND CLICK" to "draw and drag" motion path easily, make the initial programming in less than 10 minutes.



:

"Point and Click"

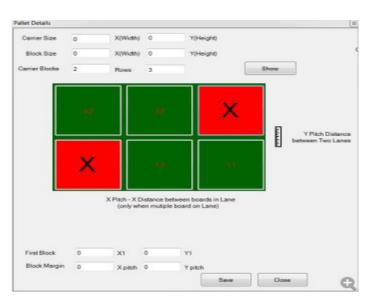
to draw path with scanned picture as background, easiest way for path programming.

Name	Sequence	Use in Production?	Z-Offset	Pump RPM Offset	EmptyMove Time	Site Working Time	Total Time
S2	1	V	0	0	1.803	15.192	16.995
S4	2		0	0	3.873	3.800	7.673
S1	3	V	0	0	1.707	3.800	5.507
53	4	V	0	0	3.760	4.858	8.618
Name P1	Vel (mm/ 30.000	(a) X 20.828			well [s] \$	0 RPM	Slop Time 0.0
			36	576 2			
P1 P2	30.000 10.000	20.828 116.248	36	576 2	2.000	0	0.0

Moving speed, Z height, wave height, Dwell time, wave slope speed etc are editable, get max flexibility to fit different type of components on the board. Empth move time, site working time, total cycle time are estimated once path programming finished. Easy for balance production line.



Support Pallet function :



only need to program one board on pallet, then input

X/Y pinch to array the same programming. Also can

choose which board no need to solder on the pallet.

계			湯料		
选用:	IF 2005C	→ 透新 编辑 酬除	选用:	SAC305	~
生产商:	Interflux		生产商:	qiandao	
型号:	001		型号:	308	
色泽:	Clear		色译:	Sn-3.0Ag-0.5Cu	
固体含量 (wt/wt):	3.3	参考图片	密度:	0.813	
密度 25°c (77°c):	0.813	10×102.5	(梁贞 (*o) :	217	参考图片
酸值 (mg KOH/g):	28				
湯点 (T.C.C):	15	W 2005C United and an address of the second			
助焊剂类型:	No clean	2 02			
刻喷嘴			尔 科马姆亚		
剂喷嘴 选用:	Jet valve	J 25.5 1988 1988	\$\$%购嘅 选用:	Solder 2mm	~
	Jet valve Drop jet R v	J 25.55 1848 MB2		Solder 2mm Round V	~
选用:		(mm)	选用:		~ (mm)
法用: 嗚囓类型:	Drop jet R ~		选用 : 选用 :	Round	

Material database system:

Customer can save their flux information, solder information, fluxer nozzle information, solder nozzle information to the database. And when making the programming for board, engineer can choose which material used in this board. So a full programming for board will not only include motion information like path, speed, pasue time, Z height, dwell time, wave, temperature etc, it will also include what flux used, what solder used, which fluxer nozzle and which solder nozzle used. This will be helpful for repeating soldering quality.



	nance					Machine Mainten Part Maintena	ance Part Replacement							
Part Maintena	nce Part Replacement					Sequence	Machine Part	Estin	nated Maintenance Time	Cycle (Hrs)	Actual Used Time (Hrs)	Remaining time (Hrs)	Last Maintenance Done	Action
Sequence		Estimated Maintenance Time	Cycle (Hrs)	Actual Used Time (Hrs)	Remaining time (Hrs	1	Replace Nozzle	10mir		0.2		0.2	6/1/2018 5:06:08 PM	NA
ooquonoo						2	Replace Impeller Replace Impeller Shaft	45mir 45mir		0.3		0.3	6/1/2018 5:06:08 PM 6/1/2018 5:06:07 PM	NA
1	Clean Flux nozzle	5mins	0.1	0	0.1	4	Replace Graphite Sleeve	45mir 15mir		0.4		0.5	6/1/2018 5:06:07 PM	NA
2	Check if Flux Nozzle(s) blocked	15mins	0.1	0	0.1	5	Replace Bearing	15min		0.6		0.6	6/1/2018 5:06:06 PM	NA
3	Clean Flux Sensors	10mins	8	7.67	0.33	6	Replace Wave Chain	15min	15	0.7	0	0.7	6/1/2018 5:06:05 PM	NA
						7	Replace Wave Sprocket	15mir		0.8		0.8	6/1/2018 5:06:04 PM	NA
4	Flux X and Y guide lube oil	10mins	168	22.51	145.49	9	Replace N2 Heater Replace N2 Diffusion Ring	10mir 10mir		1		0.9	6/1/2018 5:06:04 PM 6/1/2018 5:06:03 PM	NA
5	Flux X and Y origin coordinates	1hours	168	22.51	145.49	10	Replace N2 Temperature Thermoco					1.2	6/1/2018 5:06:03 PM	NA
6	Flux Electric bax cleaning	1hours	168	23.78	144.22	11	Replace Solder Temperature Therm	nocouple 10min		1.3		1.3	6/1/2018 5:06:02 PM	NA
7	Flux Lube oil on transport guide rail	10mins	720	407.95	312.05	12	Replace Z Axis Synchronous Belt	-		1.4		1.4	6/1/2018 5:06:02 PM 6/1/2018 5:06:02 PM	NA
'						13	Replace Limit Sensors			1.5	0	1.5	6/1/2016 5:06:02 PM	NA
8	Check Flux the rail gauge	10mins	720	407.95	312.05									
9	Flux Lubricate the cylinders	1mins	720	407.95	312.05									
10	Preheat Clean sensor	-	1	14.82	-13.82									
11	Preheat Electric bax cleaning	9	168	22.51	145.49									
12	Preheat Lube oil on transport guide rail	D	720	407.95	312.05									
13	Check Preheat the rail gauge	-	720	407.95	312.05									
14	Check Preheat heat pipe is working properly	2	4320	407.95	3912.05									
15	Check whether Solder nozzle is axidized	5/	0.45	0	0.45	Preview Per	riod • Export Items							
16	Clean the tin slag in solder pot	15mins	8	7.48	0.52	6/5/20	18 9:32:31 AM	NA						
17	clean the solder dross around solder level sensor	10mins	168	22.51	145.49	6/4/20	18 6:30:35 PM	NA						
	Check Solder Temperature(using Thermometer)	10mins	168	22.51	145.49	6/4/20	18 6:30:41 PM	NA						
18		resident to all	0.32	0	0.32	6/1/20	18 3:05:31 PM	NA						
18 19	Replace the solder in solder pot	Thours	U.UL											
19	Replace the solder in solder pot Clean the tin slag in wave pump	1hours 1hours	0.33	0	0.33	6/1/20	18 3:05:31 PM	NA						
				0	0.33 0.34	-		NA						
19 20 21	Clean the tin slag in wave pump	1hours	0.33			6/1/20	18 3:05:30 PM							
19 20	Clean the tin slag in wave pump The wave chain adds lubricant	1hours 10mins	0.33 0.34	0	0.34	6/1/20	18 3:05:30 PM	NA						

Maintenance & replacement assisting function :

we know how important the maintenance for a selective soldering machine. In the software, we list all maintenance job, time taking, comsumable parts life and remain life, etc. It can export to excel list, engineer can check what parts need to replace in next 3 month or 6 months, in this way to they can prepare everything in advance.



Auto Home		Sensor and Axis Statu	S
Auto Wave Height Calibration	STOP	Auto Solder Fill-up	STO
Auto Clean Solder Nozzle	STOP	Navigator For Position Calil	bration
Machine Maintenance	10		

Log function:

Can set 3 level different users. All logs will be saved and customer can check who use the machine and what happen.

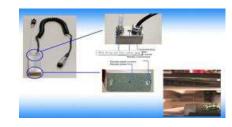
	РСВА项目	材料库 💮 机醋设	置 💥 调试助手	建一使用者与登录				
				日志	24 04-2019 05-05-2017 05-05-2017 0-	志日補贈 (令補贈) (日補贈) (日補贈) (日補贈) (日補贈)		
管理				显示日志大小 5	795 Bytes 日期	类型		
5	日期	用户类型	删除	显示日志大小 用户名 sasinno				
5 10	Manufacturer	14/03/2019 10:08:59 AM	Delete	用户名	日期	ResourceNotF		
5 10				用户名 sasinno	日期 24/04/2019 03:35:37 下午	ResourceNotF ResourceNotF		
5 10	Manufacturer	14/03/2019 10:08:59 AM	Delete	用户名 sasinno sasinno	日期 24/04/2019 03:35:37下午 24/04/2019 03:35:37下午	ResourceNotF ResourceNotF ResourceNotF		
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Wise assignment:

contains every basic feature which are used to prepare machine before starting production, including Auto Home, Sensor and Axis Status, Auto Wave Height Calibration, Auto Solder Fill-up and Navigation for position calibration.







Selecting Soldering Pot

Flx-DropJet : Standard equipped with drop jet valve from Germanny originally, which can meet dia 2mm flux dot dimension.

Titanium soldering pot, 100% capable for lead free application. Standard equipped with mechanical pump, easy for maintenance.



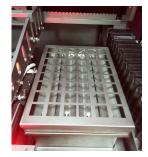
N2 direct heating system is standard equipped, enhance the wetting ability for lead free sodlering.





Preheating

Sod-ProcMoni: Without open machine's door, operator can see soldering process in real time.



Pre-BPRE: Bottom preheating zone, before soldering PCB will move here to heat up setting time under setting temperature.



Sod-WetNoz: Standard equipped with wet nozzle for customer's universal application. Can also design solder nozzle according cusotmer's application



Controlling system



All brand electrical parts, such as Nidec, ABB, Mitsubishi etc. All wiring cetificated by CE . Industrial PC for controlling.

Option



Sof-FICC: The monitor camera is used to fidicious checking



	Ant-i1 Specifications
General	
Operating power/Max power	4KW/6.5KW
PCB dimension	50x50350x260mm (Can manually rotate board to 180degree to meet L700mm x W260mm)
Machine dimension	W990mm x D1308mm X H1714MM
Net weight	400KG
Power supply	1PH 220V 50HZ MAX 30A Equip 40A contactor in factory
Air supply	3-5 bars
Exhausting required	200M3/h
PCB Robotic Platform	
Axes of Motion	X, Y, Z
Motion Control	S ervo 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	About 30mins
Max Temperature	380 C
Solder Pot heater	2kw
Solder Nozzles	
Mini Wave Nozzles	Dia 4, 6,8,10,12mm
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	1.5m3/H
Required N2 Purity	>99.99%
Flux Management	
Spray Flux Nozzle	Standard equipped with drop jet nozzle made in Germany
Flux Capacity	1L
Flux Tank	Constant pressure tank
preheat	
IR heater	2kw
Controlling System	
Industrial P C	Yes
Typical Program Time	10 Minutes
Program method	Draw path in scanned picture of board Manufactured
Controlling system	PC Manufactured

