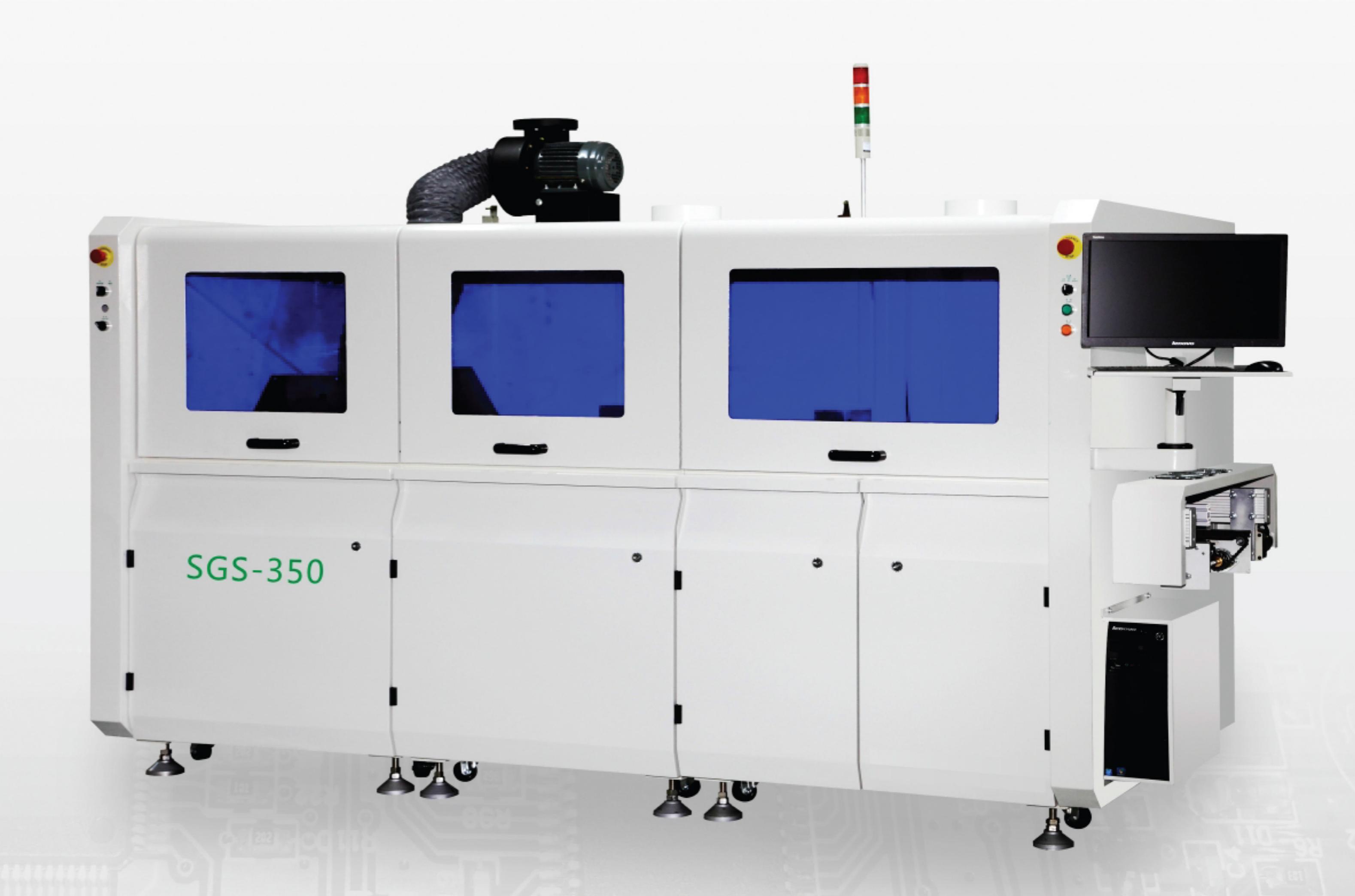
Requirements and Specifications

Items SGS-350	Specification	Remark
Body		
Structure	three segment	available to splitting and combining
Machine dimension	L3000 × W1600 × H1700 mm	aranabio to opinting and combining
Board Handling	20000 X II TOOU X II TOO IIIII	
PCB Size	50X120~350X350 mm	including the fixtures
Max.PCB weight	5KG	including the fixtures
	20KG	including the fixtures
PCB upper enge	100mm	
PCB lower Space	50mm	
PCB lower Spacee		
PCB process edge	≥4mm 750 - 50 mm	
PCB conveyor height	750 ± 50 mm 0.5~10 m/min	Electronic control
PCB conveyor speed		Electronic-control
PCB conveyor direction	L-R OR R-L	
Conveyor stable	No jumping and shaking phenomenon	Face des Face services and March 41/21 les
Conveyor resolution	0.05mm/s	Encoder Frequency Max. 1KHz
Conveyor alarm	Real-time alarm card board, plate alarm	
Width adjustments	Motorized	
Fluxer Spray		
Spraying height	70~100 mm	
Spraying travel	350x350 mm	
Spraying platform	XY table+ server system	programmable
Spraying nozzle	Max. 500mm/s	Servo motor
Re-position accuracy	± 0.25 mm	
Spraying uniformity	±3% or better	
Spraying accuracy	± 1% or better	
Nozzle self-cleaning	compression air cleaning	
Exhaust	No flux on the surface	No flux for 8 hours working
Maintenance range	> 1 week	
Flux Flow	10~200ml/min	flow meter control
Flux buffer capacity	2 L	available to have the external container
Air pressure	0.4 Mpa	
Air consumption	7m³/H	
Flow accuracy	± 3ml	According to different kind of flux
Preheater		
Pre-heating	Max. 180℃ (PCB bottom surface)	
Pre-heating	Max. 150℃ (PCB upper surface)	
Temp. setting	Max. 300℃	
Temp. control	±2℃ @3 sigma	
PCB heating	5°C @3 sigma	Standard board
Heating method	IR -heating	Option: 1.8m, 3 independent pre-heating zone
Heating power	9*2KW	
Top heating	Hot air	Option
Solder		
Solder capacity	200~240KG	
Tem. Control	±1°C @ 3 sigma/Cpk≥1.33	
Max.temperature	300℃ (Highest 300℃)	
	280℃ (highest used temperature 280℃)	
Heating power	6*1.6KW	
soldering wave heights	0~4mm	
Solder pot in/out		
Coldor pot illipodit	Motorized	
Solder up /down	Motorized Server control system	
Solder up/down Solder up/down travel	Server control system	
Solder up/down travel	Server control system 50 mm	frequency converter control
Solder up/down travel Solder wave driving	Server control system 50 mm High precision motor	frequency converter control
Solder up/down travel Solder wave driving Solder melting time	Server control system 50 mm High precision motor <2 hr	frequency converter control
Solder up/down travel Solder wave driving Solder melting time Solder pot	Server control system 50 mm High precision motor <2 hr Ti– alloy	frequency converter control
Solder up/down travel Solder wave driving Solder melting time Solder pot Soldering nozzle	Server control system 50 mm High precision motor <2 hr Ti– alloy customized	frequency converter control
Solder up/down travel Solder wave driving Solder melting time Solder pot Soldering nozzle PCB position	Server control system 50 mm High precision motor <2 hr Ti– alloy	frequency converter control
Solder up/down travel Solder wave driving Solder melting time Solder pot Soldering nozzle PCB position Control System	Server control system 50 mm High precision motor <2 hr Ti– alloy customized XYZ axis air cylinder clamping	frequency converter control
Solder up/down travel Solder wave driving Solder melting time Solder pot Soldering nozzle PCB position Control System Power supply	Server control system 50 mm High precision motor <2 hr Ti– alloy customized XYZ axis air cylinder clamping 3P5W 380V, 50/60Hz	frequency converter control
Solder up/down travel Solder wave driving Solder melting time Solder pot Soldering nozzle PCB position Control System Power supply Total Power	Server control system 50 mm High precision motor <2 hr Ti– alloy customized XYZ axis air cylinder clamping 3P5W 380V, 50/60Hz 28 KW	frequency converter control
Solder up/down travel Solder wave driving Solder melting time Solder pot Soldering nozzle PCB position Control System Power supply Total Power Normal Power	Server control system 50 mm High precision motor <2 hr Ti- alloy customized XYZ axis air cylinder clamping 3P5W 380V, 50/60Hz 28 KW 7 KW	frequency converter control
Solder up/down travel Solder wave driving Solder melting time Solder pot Soldering nozzle PCB position Control System Power supply Total Power Normal Power withstand voltage	Server control system 50 mm High precision motor <2 hr Ti- alloy customized XYZ axis air cylinder clamping 3P5W 380V, 50/60Hz 28 KW 7 KW 1500V 5S	frequency converter control
Solder up/down travel Solder wave driving Solder melting time Solder pot Soldering nozzle PCB position Control System Power supply Total Power Normal Power withstand voltage Grounded resistance	Server control system 50 mm High precision motor <2 hr Ti– alloy customized XYZ axis air cylinder clamping 3P5W 380V, 50/60Hz 28 KW 7 KW 1500V 5S <1 Ohm	frequency converter control
Solder up/down travel Solder wave driving Solder melting time Solder pot Soldering nozzle PCB position Control System Power supply Total Power Normal Power withstand voltage	Server control system 50 mm High precision motor <2 hr Ti- alloy customized XYZ axis air cylinder clamping 3P5W 380V, 50/60Hz 28 KW 7 KW 1500V 5S	frequency converter control

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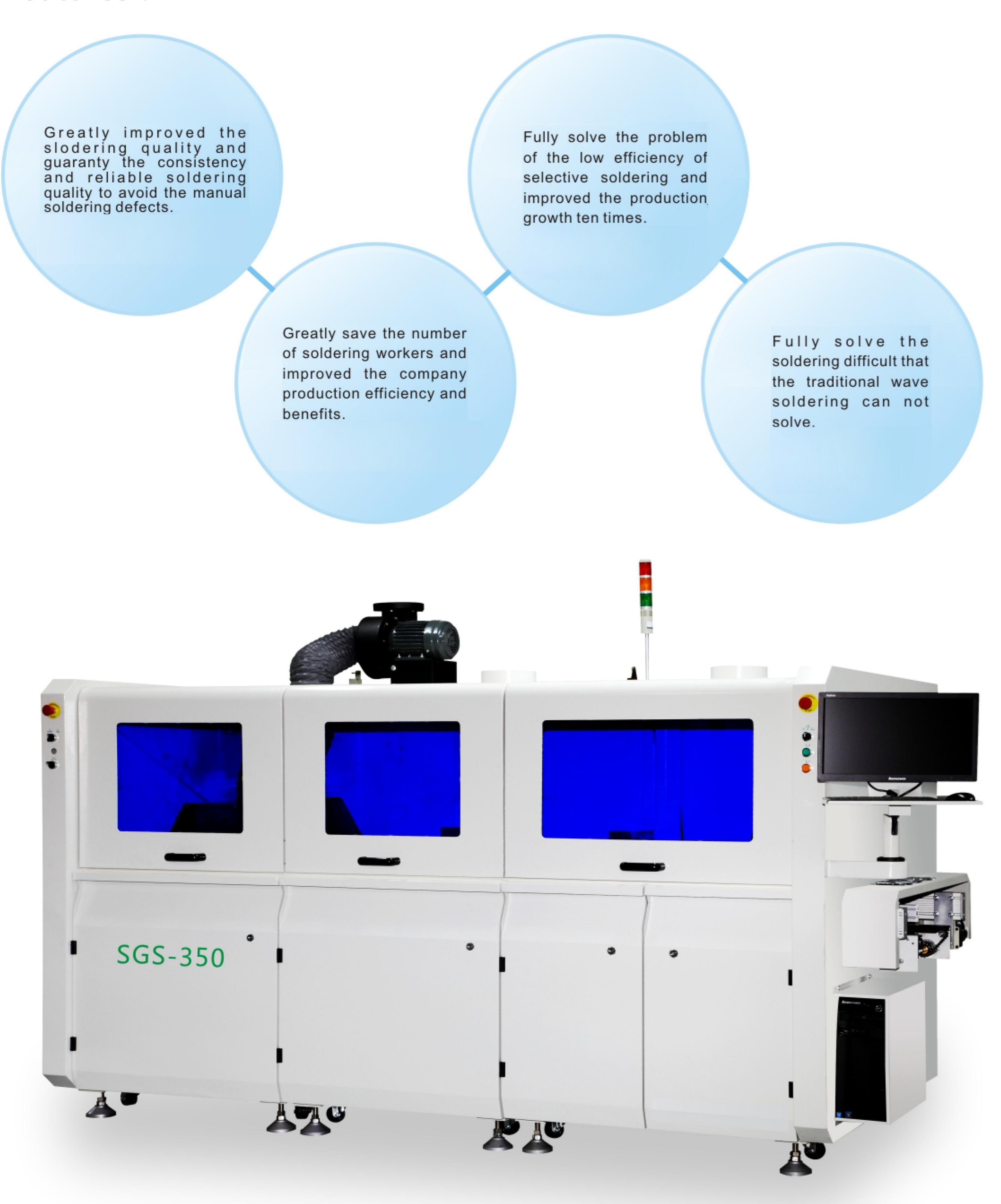
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4Features:



Features:

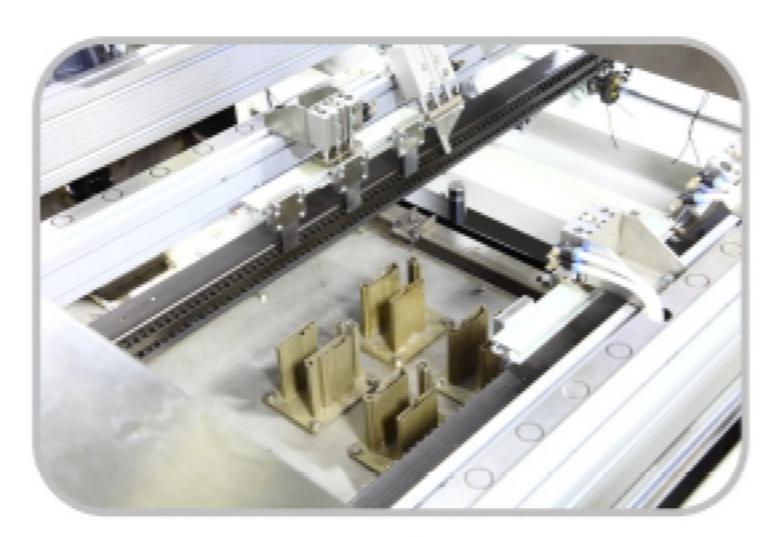
With the high precision and reliable making process, the soldering quality of the machine is beyond than the traditional wave soldering under some conditions.



The spray system adopts the XYplatform + servo motor drive, which can be selectively spraying, and effectively save the flux.

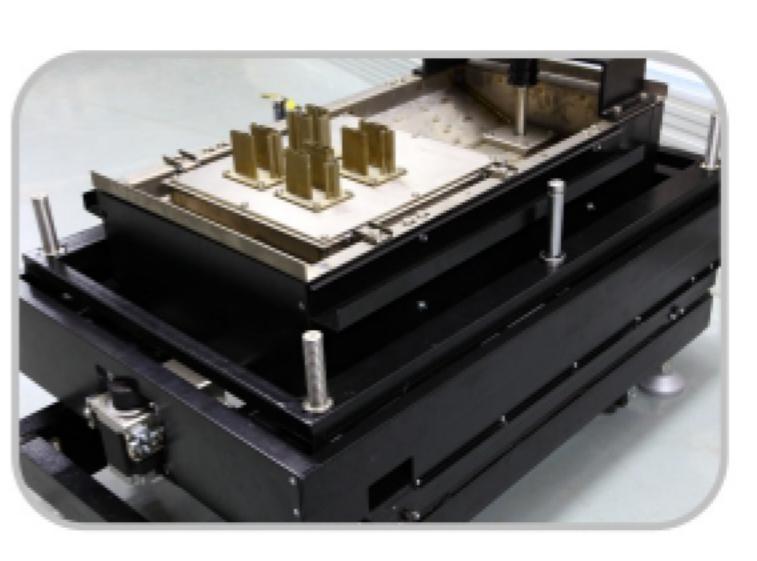


The position of the PCB allows a high accuracy and reliability, which is controlled by the clamping device from the aircylinder of X,Y,Z direction.

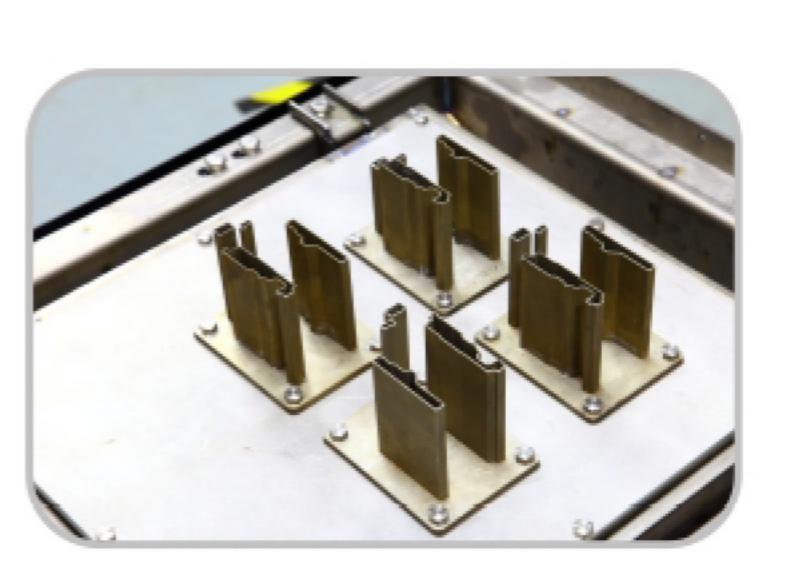




With the independent temperature control, and using cesium heating lamp, the machine can significantly improve the thermal efficiency and temperature uniformity.



The lifting of solder pot is adopted with the high precision ball screw rod and servo motor control, which features the high position accuracy and quantifiable precise control.



The soldering nozzle is adopted with the full Ti-alloy material and high precision processing to ensure the stable performance. It totally meets the soldering requirements from the PCB (bottom spaces MAX. 50mm) and breaks throughout the process limits of traditional wave soldering and selective soldering.

Successful cases:

