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One Stop SMT Equipments Manufacturer and Provider



Tronstol Pick and place machine **Brochure**

Scope of domestic and foreign trade:

After years of development, HangZhou Tronstol technology Co., Ltd has expanded its business scope to all over the world. In addition to the Chinese market, there are other overseas agents around the world. More offices will be established in the future, and more agents will join our team...



Tronstol A1 Overview of Pick and place machine:

Tronstol A1 is the latest high-precision laser flying mounter developed by our company, which can stably and efficiently mount high-precision components such as 0201 and BGA. Based on the Linux system platform, A1 combines the advantages of CAN hardware and LIN communication protocol, and systematically connects nearly 80 sub-devices of the whole machine with 5 modules, providing you with industrial-grade performance and stability.

Tronstol A1 Basic parameter table:

	Product	Product					
		Product model					
		Number of Head with Vision enabled	4				
		Positioning accuracy	±0,				
		Rotation	±1				
	Placement	Placement Rate	Hig				
	system		Sei				
		Smallest Component size	020				
		Largest Component size	35*				
		Component Height Maximum Placement Area	8m				
		1	280				
	Feeding	Tape width of electric feeder Maximum number of electric feeders	8m 58(
	system	Maximum number of electric feeders	5				
	System		5 94(
		Customized feed bank					
		Visual system	Laser				
	Visual	Number of CHIP camera	area Two lin				
	system	Fixed number of camera	Or				
	Control	Operating software	Inde				
	System	Programmatically	Coordi				
	0,000	Machine size	Length				
	Basic	Machine voltage	11(
	parameters	Machine power	150				
		Machine weight	160				
			200				





).02mm

L80°

gh-speed placement mode:6000pcs/h nsitive placement mode:2500pcs/h

201

*35mm

nm

0mm*1500mm

nm 12mm 16mm (All 8mm)

(Only for IC)

r flight vision camera + Fixed camera array light source + Dark field light source ne laser flying camera + Two line Mark camera ne line IC camera ependent research and development

inate file import/Machine manual programming

980 * width 760 * height1200mm(With Working Table) L0v/220v

0w

160kg

Tronstol A1 Hardware features:

Real flying shot, invisible identification

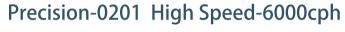




Flying 3D Laser Identification Grating Full Feedback System and Correction Technology

Using Flying 3D Laser Identification and Correction Technology, the component is scanned and recognized as picked up, and the mounting coordinate error is calibrated in real time.

The identification and calibration have been completed before the CHIP components are mounted, which is the real flying shot with invisible identification process.





0402/0201 the perfect partner for precise placement of components

Tronstol A1 Software features:





The automatic following intelligent track can stay at any position and optimize the mounting schedule according to the actual situation.



With independent feed bank, the line change can be completed in 1 minute

Independently developed software system based on Linux platform, with industrial-grade full touch screen, provides you a unique sensory experience. The software has a number of built-in functions and a user-friendly design, making it easier and faster for you to use. The software functions can also be customized for your individual needs.



The automatic feeder stack calibration can greatly save manual calibration time.



Screen recording and screenshot function, after-sale feedback makes communication smoothly.

> The software system can provide preview function from file import to final mounting, which makes users directly verify the accuracy of data during the editing process and improve the programming efficiency

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Imposition Preview

Tronstol A1 Diversified customization:

Why not try A1 customized to meet your diversified needs?





The 3D graphical interface intuitively reflects the machine data performance, making the operation easier.





Mounting Preview

Import Preview

Tronstol 3V Overview:

Tronstol 3V features dual head, 44 feeder slots, vision system and flexible positioning system, which is suitable for prototyping, small-medium batch production with stable performance and affordable price.

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Tronstol 3V Features:

Full Vision 2 Head System

2 high-precision placement heads with ±180° rotation could satisfy the need of wide range components.

Patented Automatic Peel-box

Patented electromagnetic actuators, you don't need to get rid of the wasted nylon film manually, which saves you more time and effort.

Flexible PCB positioning

By using PCB support bars and pins, wherever you want to put the PCB and whatever the shape of your PCB is, all can be handled well

Integrated Controller

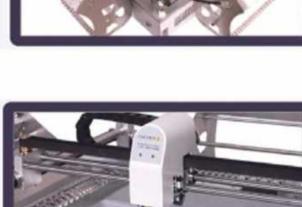
More stable performance and easier to do maintenance.

Tronstol 3V Basic parameter table:



Model	Tronstol 3V (Standard)	Tronstol 3V (Advanced)
Number Of Heads	2	2
Placement Accuracy	±0.02mm	±0.02mm
Rotation	±180°	±180°
Mounting speed	3500pcs/h(Close vision) 2500pcs/h(Open vision)	3500pcs/h(Close vision) 2500pcs/h(Open vision)
Mounting area	320*420mm(X*Y) (Feed only on the left)	320*350mm(X*Y) (Feeding on the left and rear sides)
Visual system	Up and down vision	Up and down vision
Nozzle type	CN030、CN040、CN065、CN100、CN140、CN220、CN400、	CN750 etc (Support special-shaped components customization)
Applicable components	0402-5050 , SOP,TQFP etc	0402-5050, SOP,TQFP etc
Number of tube stacks	5(Vibration feeder is optional in full sop8	5(Vibration feeder is optional in full sop8)
Tape width	8mm、12mm、16mm、24mm	8mm、12mm、16mm、24mm
Feeder Capacity	24(Full 8mm)	44(Full 8mm)
Operating software	Independent research and development	Independent research and development
Compatible file format	csv format	csv format
Programmatically	Online and offline programming	Online and offline programming
Vacuum pump	Brushless hollow cup mute type: 0.92KPA (no external air source required)	Brushless hollow cup mute type: 0.92KPA (no external air source required)
Numbers Of Pumps	3	3
Power	160~200W	160~200W
Electricity Supply	AC220V/110V	AC220V/110V
Machine Size	820(L)*680(W)*410(H)mm	820(L)*680(W)*410(H)mm
Net Weight	55KG	60KG









Reflow oven overview:

Reflow oven worked with hot wind to solder PCB, support most normal components, LED and kinds of IC.

Crawler-type structure matched with different heating zones can make inside temperature more accurate and well-proportioned, just need 15-20min to reach the working temperature.

Chain type transmission way. Speed adjustment is controlled by automatic electronic analog switch, which sensitivity no more than 1 degree, control accuracy ±10mm/min.

Reflow oven D5



Reflow oven L8

Reflow oven basic parameter table:

Model	L5	L8	D5	D8
N.W(KG)	210	300	120	230
Peak Power(KW)	7	12	7	12
Working Power(KW)	3	5	3	5
Input Voltage(V)	380/220	380/220	380/220	380/220
Conveyor Width(mm)	300	300	300	300
Components Max Height (mm)	55	55	55	55
Max Speed of Conveyor (mm)	1200	1200	1200	1200
heating zones	5	8	5	8
Len*Wid*Hei(mm)	1700*700*1280	2100*700*1280	1700*612*650	2100*700*700

Reflow oven features:

Using AC motor to drive the conveyor



Simple operation and high efficiency



Uniform heating and stable temperature



Accurate lateral temperature difference ±2°C



SMT ASSEMBLY LINE:

Application industries: household appliances industry, automotive electronics industry, power industry, instrumentation industry, communication industry, intelligent control industry, Internet of things industry and military industry, etc.

Solution 1: An Economical SMT Line for Sample Production with 0402 accuracy and about 30 types of components





Stencil Printer

Tronstol 3V Pick and place machine

Solution 2:An Economical SMT Line for Small Production with 0201 accuracy and about 60 types of components





Semi-automatic solder printer

Tronstol A1 Pick and place machine

Solution 3:An Economical SMT Line for mass production line with 0201 accuracy and about 120 types of components





Automatic Conveyor solder printer

and place machine







D5 reflow Oven



Conveyor



L5 reflow Oven