Company History :

The History of our company :

In 2010, our company was founded in Hangzhou.

In 2012, the scale was expanded , Shenzhen branch was established;

In 2014, the scale was expanded again , Guangzhou branch was established;

In 2015, our company established Shandong branch to further development in North China, and our business covered the whole country.

In 2016, our business expanded to the world, our products received unanimous praise in Europe and the United States ;

In 2017, our company established a joint SMT laboratory with Hangzhou Dianzi University;

In 2018 , our company owned more than 50 patents of pick and place machine .A number of products obtained CE and ISO 9000 certificate.

In 2019, our company passed the certification of National High-tech Enterprise.

In 2020, our company finished the joint-stock reform.

Company and office address:

Company address:

4th Floor, Building 5, No. 2, Huayi Road, Yuhang Street, Yuhang District, Hangzhou

Email：jemma.zhang@tronstol.com

Tel：86-19816879553

Shenzhen Office:

11A, Jindacheng Building, Xinqiao Street, Shajing Center Road, Baoan District, Shenzhen, Guangdong, China

Manager Wang 13003653813

Tel： 0755-83551995

Fax：0755-83551996

JiNan Office:

401, Building 11, Zone 2, Times Headquarters Base, 15 Lanxiang Road, Tianqiao District, Jinan, Shandong

Manager Zhang 15906672947

TRONSTOL

2020 Tronstol Pick and place machine

One Stop SMT Equipments Manufacturer and Provider

Brochure

Model name **TRONSTOL A1**

HangZhou Tronstol technology Co., Ltd

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...

Qualification honor and patent:

ISO9001/CE Certificate

Outstanding Enterprise in Innovation and Entrepreneurship Competition

More than 50 independent patents

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		
Placement system	Product model	
	Number of Head with Vision enabled	4
	Positioning accuracy	±0.02mm
	Rotation	±180°
	Placement Rate	High-speed placement mode:6000pcs/h Sensitive placement mode:2500pcs/h
	Smallest Component size	0201
	Largest Component size	35*35mm
	Component Height Maximum	8mm
	Placement Area	280mm*1500mm
Feeding system	Tape width of electric feeder	8mm 12mm 16mm 24mm
	Maximum number of electric feeders	58(All 8mm)
	Maximum number vibration feeders	5
	Customized feed bank	94(Only for IC)
Visual system	Visual system	Laser flight vision camera + Fixed camera area array light source + Dark field light source
	Number of CHIP camera	Two line laser flying camera + Two line Mark camera
	Fixed number of camera	One line IC camera
Control System	Operating software	Independent research and development
	Programmatically	Coordinate file import/Machine manual programming
Basic parameters	Machine size	Length 980 * width 760 * height1200mm(With Working Table)
	Machine voltage	110v/220v
	Machine power	150w
	Machine weight	98kg

Tronstol A1 Hardware features:

Real flying shot, invisible identification

Flying 3D Laser Identification and Correction Technology

Grating Full Feedback System

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.

Precision-0201 High Speed-6000cph

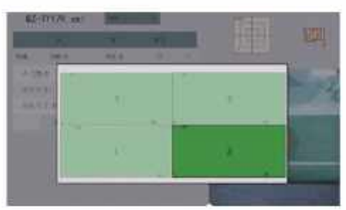
0402/0201 the perfect partner for precise placement of components

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

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

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

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



Imposition Preview

Mounting Preview

Import Preview

Tronstol A1 Software features:

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

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

Tronstol A1 Diversified customization:

Why not try A1 customized to meet your diversified needs?

Know what you need, do what you want

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.

Tronstol 3V Basic parameter table:

Product		
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*390mm(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	44(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	60KG	60KG

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.

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

Uniform heating and stable temperature

Simple operation and high efficiency

Accurate lateral temperature difference ±2℃

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

D5 reflow Oven

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

Semi-automatic printing table

Tronstol A1 Pick and place machine

Conveyor

L5 reflow Oven

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

Automatic printing table

Conveyor

Tronstol A1 Pick and place machine

Conveyor

L8 reflow Oven