Vanstron

electronic assembly & traceability

Electronic assembly & Traceability



www.vanstron.com | Making small change, Making the bigger success

Vanstron. is a global supplier that is manufacturing and exporting board handling equipment, laser marking machine, and ovens for SMT Automation Process.

With continuous product development in the SMT field, as an AVL (Approval Vendor List) company that has been recognized for its product quality and responsiveness from customers around the world in automotive, electricity & electronics, defense industry and medical fields, we are becoming the leading manufacturer of SMT peripherals in Korea with continuous sales growth.

Especially in the center of the 4th industrial revolution, by providing Smart Conveyor System of SMT Automation Process which is a specialized service of Vanstron Support, we are providing prompt and accurate service as well as customer needs.

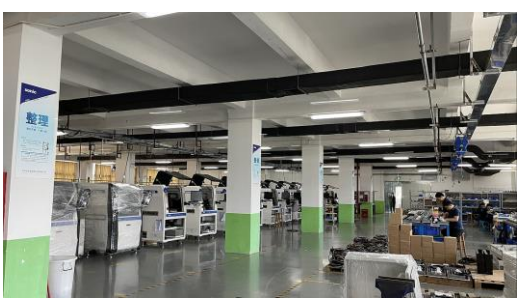
In the future, we will be a leader in linking the world to reflect the needs of our customers with steady technology development.

Typical customer





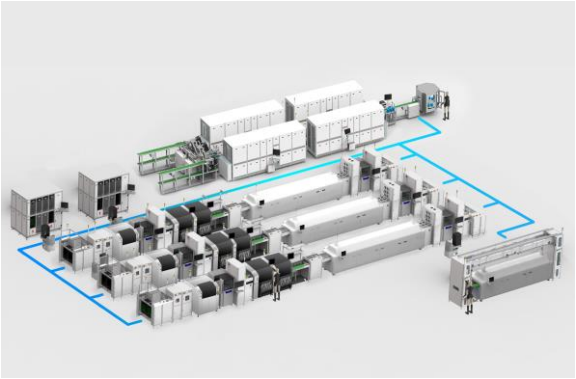




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Smart Conveyor system

Vanstron's Smart Conveyor System can build Smart SMT Line. This is a solution that enables an enterprise-wide integrated management and automated production line.



The Vanstron equipment constituting the smart SMT line is connected to the line control PC(A separate computer for central control of the Vanstron facilities) through LAN communication. The customer transfers the PCB information to each Vanstron facility through the line control PC, so that the operator can change the width easily. In addition, it is attracting attention as a next-generation SMT solution that improves the productivity and competitiveness of customers by enabling real-time monitoring of facility status.



1) Automatic width adjustment	When applying the data of the production model, each transport device of Vanstron carries out automatic width control.
2) Real-time status monitoring	Real-time monitoring possible with PC
3) Maintenance Alarm Function (Optional)	If the maintenance period is set to a certain cycle for each equipment, an alarm will ring.
4) 'LogFile' Creation	Production history management and infinite data processing
5) Set access permisiions	The user can edit accessibility to the system

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Inline Laser marker machine



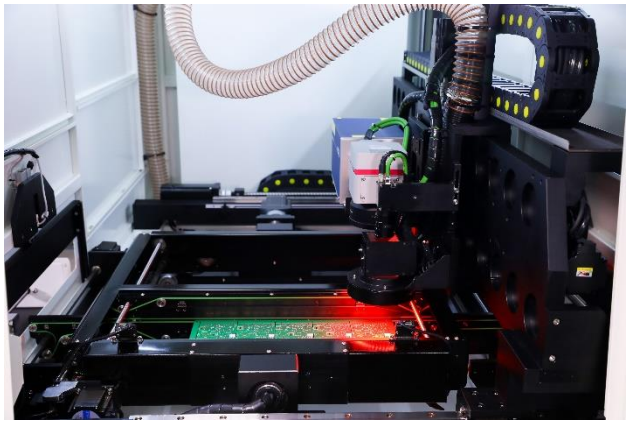
Why

We need a inline laser marker machine in the SMT production line?

"Making the traceability available in your production line and maximise product quality with reduced costs within your manufacturing processes."

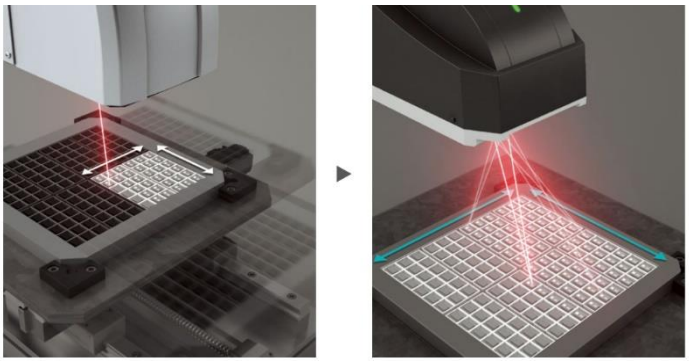
-------Vanstron engineering team

The laser head inside the machine, it working with the a head moving in X and Y axes, the laser head marks on the abjects,and it is available to mark the 1D/2D codes, chargeers and logos on the surface of materials.



Marking accuracy:+/-0.01mm

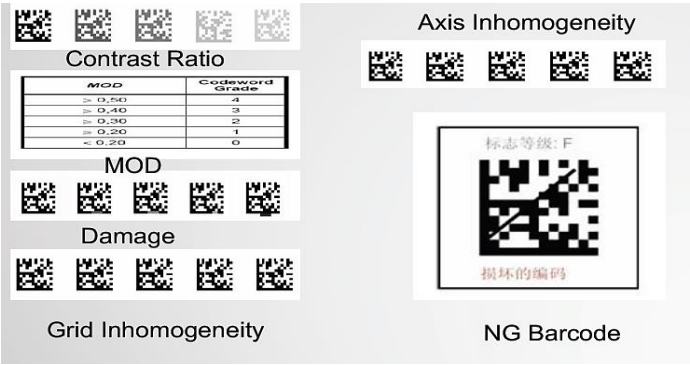
With a large marking area, our laser system is available to mark multiple target at once cover a larger area or a higher Quantity of products, which allows for improved production efficiency. (Optional)



Standard configuration:
1. Double side marking
2. Fiducial recognition
3. Barcode quality grade verification
4. Barcode reading
5. Fume collection

Optional Spec.:
1. Marking power detection
2. Ionizer
3. MES system
4. Double laser head (top and down)

Barcode Grade verification



Do not flow NG barcode

DPM(Direct part mark)barcode have 5 grade :A\B\C\D\F Element impact the barcode grade as follows：
Laser marking machine can use CCD to check the barcode grade online

Model		S-460		S-600
PCB size(L*W)		50x50mm-510x460mm		50x50mm-600x460mm
Line	Clearance	Upper : 30mm and down 30mm		
	PCB thickness	0.6mm-6mm		
	Transport heights	900+/-20mm (or specify)		
	Flow direction	Left to right, right to left (as per customers request)		
Machine dimensions		W860*D1440*H1780mm		W1200*D1950*H1800mm
Weight		720KG		1108KG
Laser Head	Laser type	CO2,10W, forced air cooling (or according to the customer requirements) UV, 5W, water chiller cooling.		
	Wave	10.6um		
	Laser level	Class 4		
	Dot size	0.11mm		
	Marking max. size	CO2: 70*70mm ; Min. 1.2mm*1.2mm UV: 90*90mm; Min.:0.7mm*0.7mm		
	Character type	1D Barcode (Code39, Code128, ITF, 2of5, NW7, JAN) 2D Code (QR Code, Micro QR Code, ECC200 DataMatrix, GS1 DataMatrix) DataBar (GS1 DataBar Truncated, Stacked and Limited) Logo Image (Customer Logo, CAD Data, BMP/JPEG/PNG/TIF formats)		
	Graphic data	VEC,DXC,BMP,HPGL,JPEG,AI,EPS		
	Guide Laser	Red Laser Pointer		