

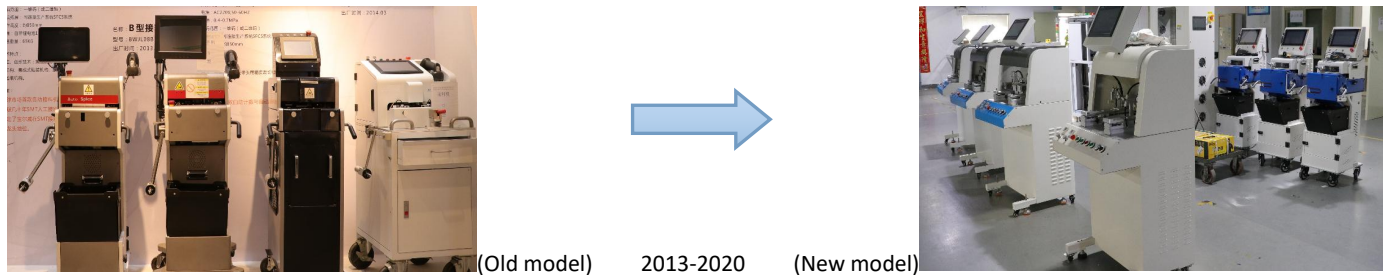
SMT Automatic Intelligence Splicing Machine



China's market share exceeds 90% (2013-2020)

Introduce:

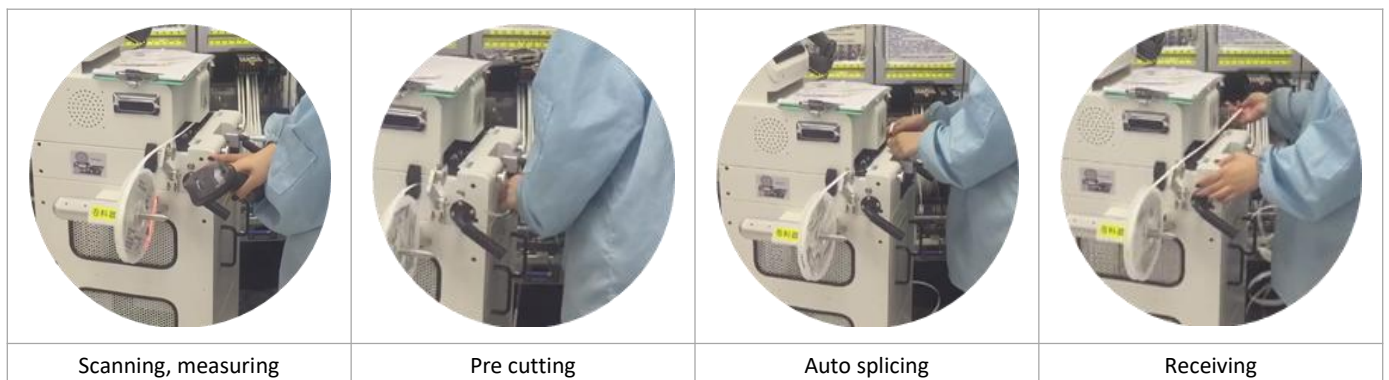
I.C.T SMT Automatic Splicing Machine is developed to meet the requirements of SMT automatic production line for fast refueling without shutdown. It can automatically detect the position of empty component, accurately cut and over probability of more than 98% for the head and tail of two rolls of material belts with the same specification. It can be equipped with RC measurement function to reduce dependence on manpower, reduce management cost, improve detection efficiency, improve the production rate of SMT production line and avoid batch misfeeding. I.C.T SMT splicing machine has completed the full coverage of 4-16mm feeder.



In 2013, the first Splicing machine was born in I.C.T.

2013-2020, More than 800 units sold with us, China's market share exceeds 90%.

Process:



Advantages:

1. Simple operation: learn to operate in 5 minutes, everyone can operate, and reduce dependence on personnel.
2. Error proofing: automatic code scanning and error proofing, which can be connected with the customer's MES for double foolproof.
3. Empty components detection: CCD detection can identify the above 01005.
4. Accurate traceability: connect MES production system to facilitate customer traceability.
5. Increase the production line production rate: increase the production line production rate of SMT with a probability of more than 95%.
6. Determination of measured value: RC measured value function can be selected to avoid batch wrong components.

7. Labor saving: one person operation realize two smt lines.
8. Determination of empty components level and spacing: use CCD optics to automatically detect the presence or absence of components, and automatically and accurately calibrate the cutting position of components.
9. Recycling: after the components is received successfully, the operator will press the components reel recycling button for a long time to realize automatic material collection, which is convenient and fast.
10. Accurate and efficient: each time only about 10s to complete.



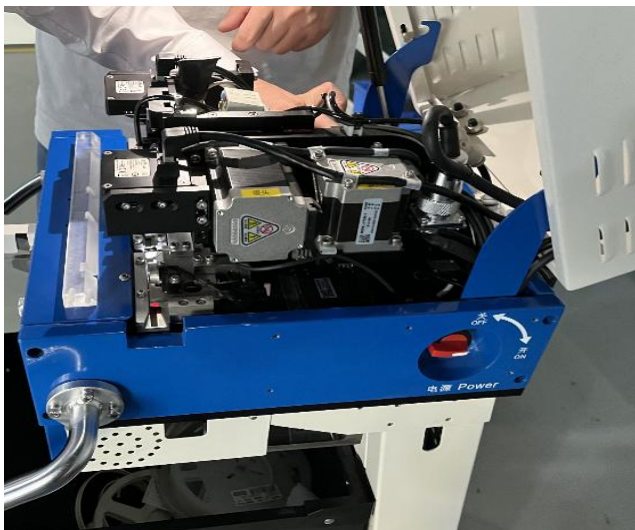
Operating system

Touch screen operation, simple operation, 5 minutes to learn to operate, barrier free, Chinese and English optional.



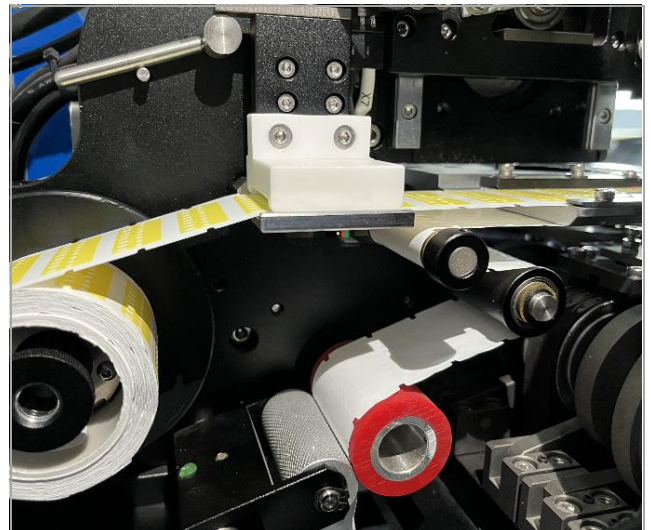
CCD system

Empty components detection: CCD detection can identify the above 01005, and the docking accuracy is ± 0.08 .



Splicing system

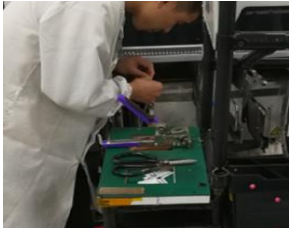
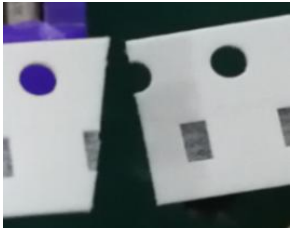


Stepper motor drive, special gear structure. accurate, patented structure design, success rate 98%.



Feeding system

Mold manufacturing, more than 2000 machines are verified in the customer's factory, with perfect stability.

Comparison:

Manual splicing	Automatic splicing
 	 
The success rate about: 80%	The success rate about: 98%
Alarm repeatedly	N/A
components waste	CCD, no waste
Possible wrong parts	MES barcode scanning protection
SMT mounter stops, efficiency low	Efficient, non-stop


Success rate of splicing: 99.19%

Date	Material quantity	Number of Splicing	Number of successes	Success rate of splicing
2021/4/20	65	260	258	99.23%
2021/4/21	85	340	339	99.71%
2021/4/22	67	268	266	99.25%
2021/4/23	91	364	359	98.63%
2021/4/24	97	388	385	99.23%
2021/4/25	74	296	292	98.65%
2021/4/26	100	400	396	99.00%
2021/4/27	96	384	382	99.48%
2021/4/28	105	420	418	99.52%
Total:	780	3120	3095	99.19%



Option:

RC Measuring Instrument
(automatic detection of capacitance and resistance)



<ol style="list-style-type: none"> 1. Imported professional elastic test needle to protect electronic components. 2. Up to 6 groups of simultaneous tests to ensure the test success rate 3. Measurement accuracy error: 0.05%. 4. Test range: resistance and capacitance 01005-1206 (paper tape). 5. Measuring speed: high speed: 80 medium speed: 12 low speed: 5.9 (times/s). 6. Test frequency 20hz-300khz optional. 7. 6-bit reading resolution. 8. Signal source: 0-2v/0-20mA, DC offset: ±5V/50mA, External DC bias up to 120A. 9. DCR test function, resolution 10UΩ. 10. Maximum test speed 12.5ms/time. 11. Signal source impedance: 30 Ω, 50 Ω and 100 Ω are optional. 12. Voltage and current monitoring and automatic level adjustment function. 13. 10 gear sorting function, sorting result audible and visual alarm. 14. Support USB flash disk file storage, and the instrument program can be upgraded through USB flash disk. 	<p>Measurable components size: 01005/0201/0402/0603/0805/1206.</p> <p>Measured value quantity: 01005~0402 test 6 groups at a time. 0603~1206 test 3 groups at a time.</p> <p>Probe material: Pure imported elastic probe has good protection for electronic components.</p> <p>Function:</p> <ol style="list-style-type: none"> 1. Measured value. 2. Traditional code scanning + MES comparison, Fool proof and error proof. 3. Hinge
--	---

Installation Site:



Specification:

Model	I.C.T-ASM08	I.C.T-AISM08	I.C.T-AISM16
Photo			
RC Measuring Instrument	N/A	Standard	Option
Example			
Applicable Mounter	Full SMT brand		

SMT Tape(mm)	8 Paper 8 Embossed	8 Paper 8 Embossed	8.12.16.Paper and Embossed
Splicing Mode	Auto Cutting Auto Splicing	Auto Cutting Auto Splicing	Auto Cutting Auto Splicing
Splicing Tape Size	32mm	32mm	32mm*2
Splicing Tape Package	Reel		
Splicing Tape Number	1	1	2
Splicing Accuracy	±0.2mm	±0.2mm	±0.05mm
Empty Tape detection	CCD	CCD	CCD
CCD Number	2	2	2
Splicing Cycle Time	6-12sec (excluding manual operation and empty tape detection time)		
Passing Rate on Mounter	95%	98%	98%
MES	Support	Support	Support
Control Method	Industrial Pad+Win10		
Power Supply	24V lithium battery*2		
Battery Supply Time	12-14H	12-14H	12-14H
Dimension(mm)	550*470*1300	400*470*1400	360*310*1320
Weight	Approx: 65KG	Approx: 65KG	Approx: 70KG

* The data is obtained under ambient temperature of 25℃ and humidity of 60%.

Standard Accessories:

No.	Item	Quantity
1	Splicing Tape	1 reel
2	Battery	2 pcs
3	Bar code scanning gun	1 pcs

* I.C.T keeps working on quality and performance, specifications and appearance may be updated without particular notice.

YouTube Video Link: <https://youtu.be/71TTsoWhiHA>

Thanks for choosing I.C.T.
I.C.T looks forward to win-win cooperation.
Thank you.