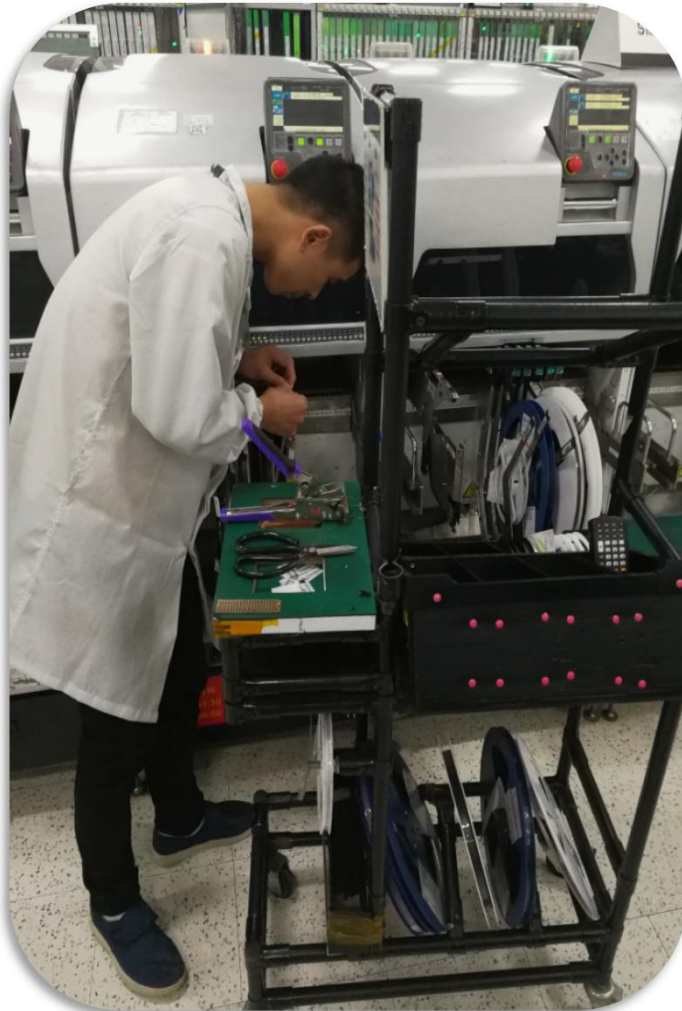


# SMT AUTOMATIC SPLICING MACHINE(MES)

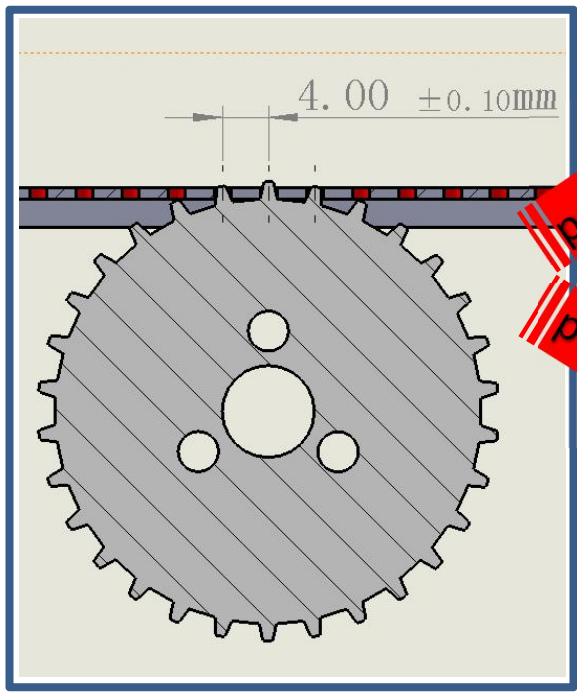


**VS**



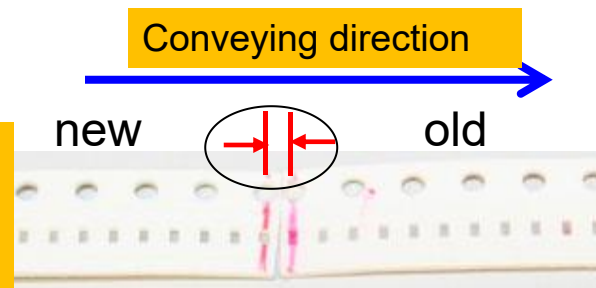
# Status analysis - reasons for manual stitching errors

Schematic diagram of the standard material hole distance into the feed gear:



### Failure mode 1

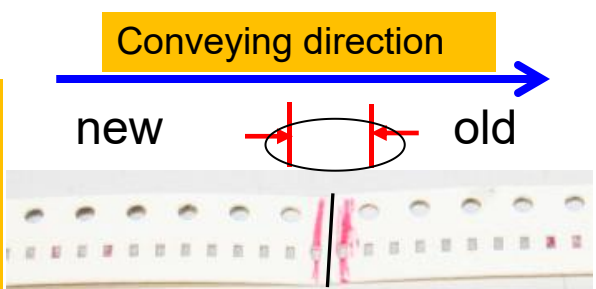
Pitch between the first hole of the new tape and the last hole of the old tape after stitching is less than the standard 4mm



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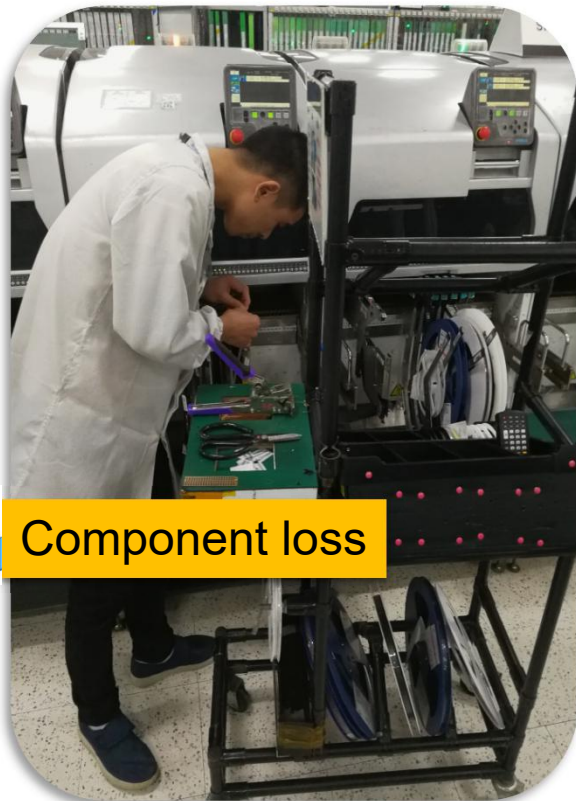
### Failure mode 1

Pitch between the first hole of the new tape and the last hole of the old tape after stitching is less than the standard 4mm



# Analysis of the status quo - manual cutting shear accuracy is not enough, the process is cumbersome.

## Manual stitching

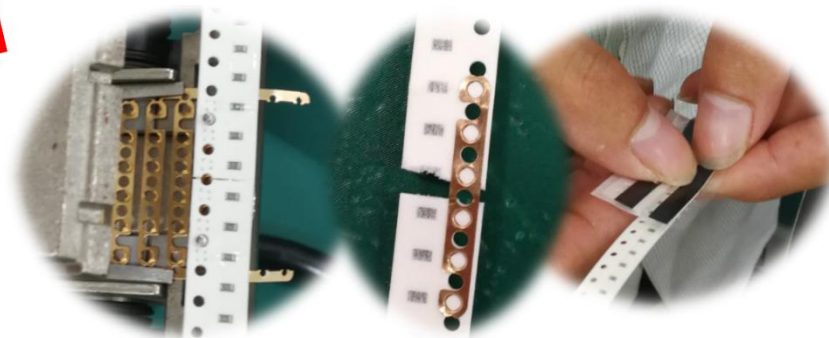


 Component loss

 No benchmark, error



 Heavy workload, low efficiency



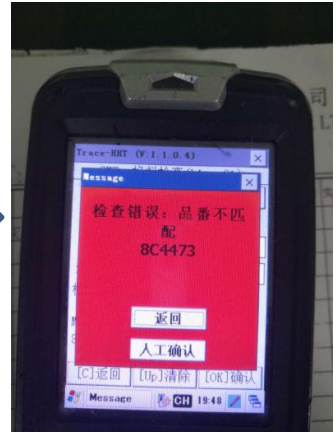
problem  
problem

# smart system

1. Scan material barcode



2. Scanner alarm reminder



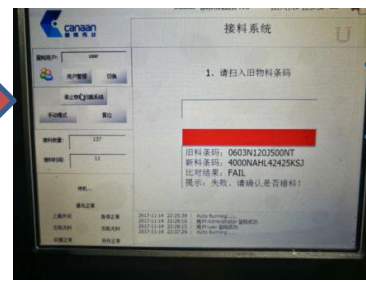
Manually continue to splicing



1. Scan material barcode



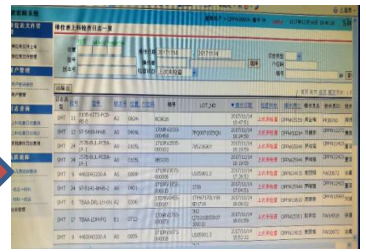
2. Scanner alarm reminder



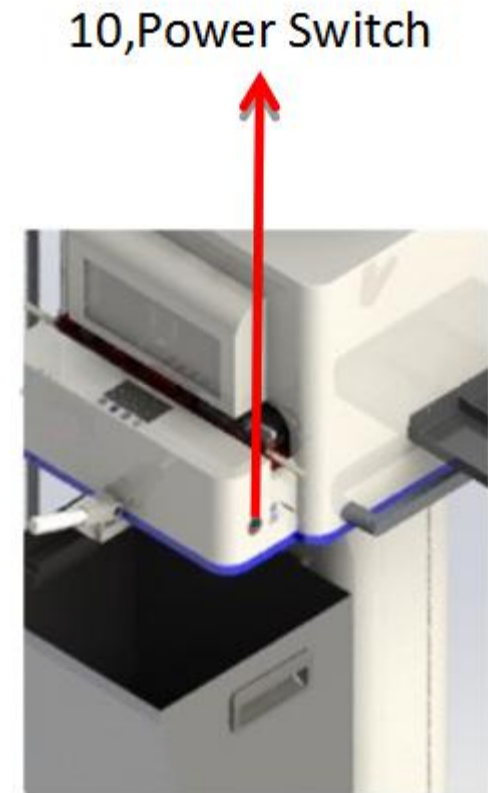
3. STOP



4. To prevent splicing caused by non-compliance by personnel, the system automatically records material-related information and displays correct rules.



# Structure



# The Introduction of Intelligent Auto Splicing Unit Advantage

## Features

1. Easy to operate; 10 minutes to learn proficient operation, no longer rely on skilled employees, reduce downtime, improve efficiency
2. Save manpower: mobile operations, can achieve two-line one operation (specifically, customer line planning)
3. The parts are non-destructive; the use of optical fiber automatic detection of the presence of materials, automatic accurate calibration of the docking position, no parts loss
4. The recovery tape: Press the button strip realized by a worker recovered length after a successful splicing automatic rewinding, fast and convenient
5. Accurate and high-efficiency: The preparation of the spare parts can be completed in about 8s per pick, and the success rate of picking up can reach **97%**.
6. Equipment out of chance: the receiving unit on the machine passing rate of more than **97%**
7. Error prevention system: self-provisioned material bar code scanning comparison error prevention (optional customer misplaced)



## Auto Splicing Machine -Features

1. Built-in industrial computer, and interact data with MES and other systems through the wireless module.
2. the old and new material can be distinguished easily by the auxiliary barcode scanner, which can prevent the wrong material be used
3. precision cams and fiber optic.sensors are make sure the quality of the spliced tape is accurate and.superior
4. with four wheels ,which is convenient for employees to move .
5. Only one –button press, the Tape will rolling up quickly
6. With two lithium batteries sot that it can be charging alternately , and the service time is about ten hours after charging for five hours.



## Auto Splicing Machine VS Manual Operation

1. This Machine, SMT auto splicing unit , Splice tape stable ,improve Machine running rate/about **22%**; one smt line can reduce one worker ;in fact ,one year one smt line can save **90K USD**.

2. High success rate; The success rate of machine splicing is **97%**, **22%** higher than manual splcing. Becase of the high success rate,the machine can running all the time .It can improve the running rate and productivity of the machine.

3. Saving time and operator

Auto splcing unit can save time in useless splcing by operator.

For example,it can shorten the time in 11 hours in splcing by operator to 7 hours by auto splicing machine.According to our survey,this unit can help us to save about **10,000USD** from the operator and time.

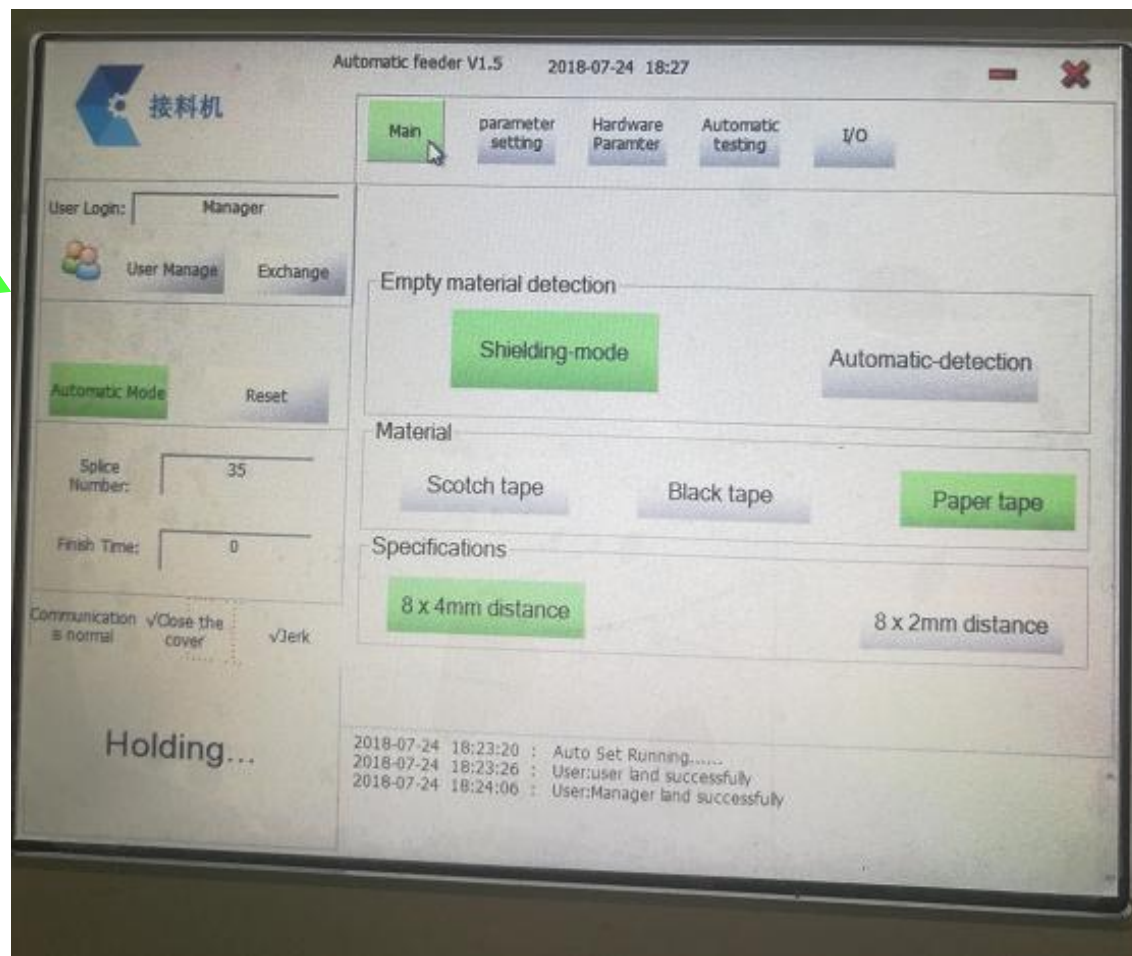
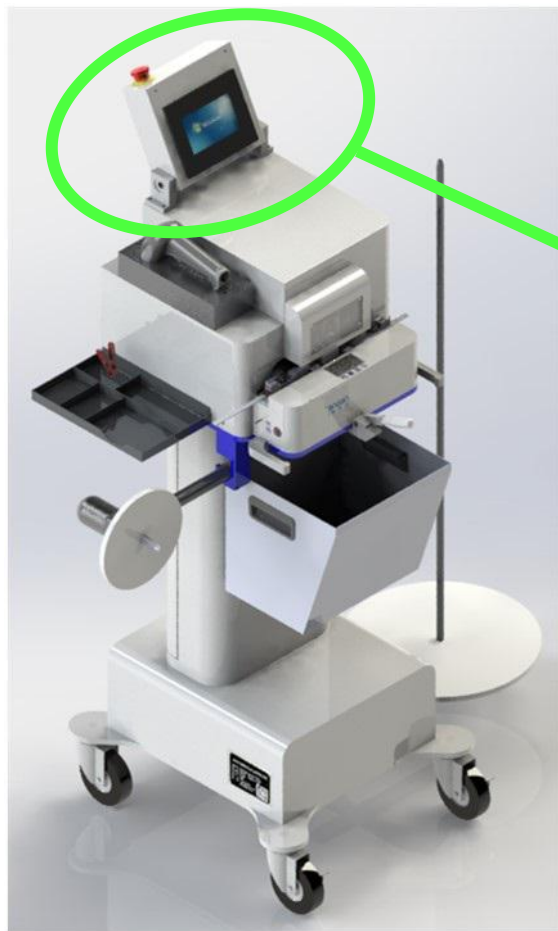
4. Certification: ISO9001, SGS, CTI, ROHS





# Operation Interface

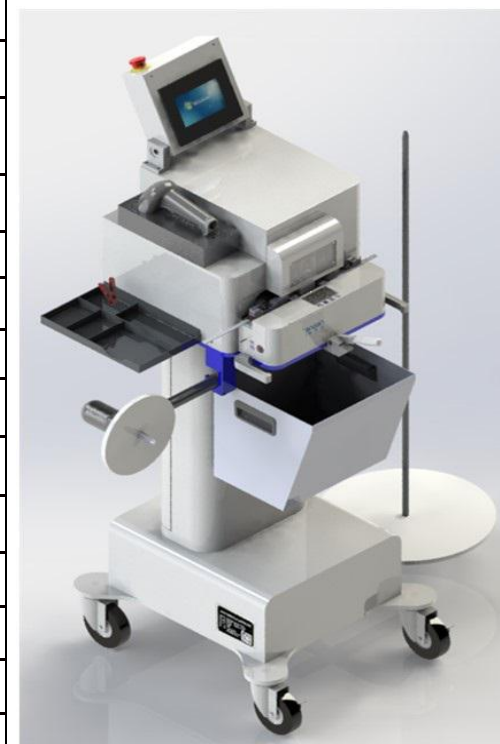
Man-machine interface device



## Application scope :

The width of paper tape and tape is 8mm. The thickness of 0.25 1.3 mm , 99% of the materials in the general market (please confirm with our company for special materials)

<b>Dimensions</b>	520mm*460mm*1340mm (L*W*H)
<b>Working height</b>	910mm
<b>Splicing Period</b>	8s (It is not including automatic receipt time )
<b>Splicing</b>	meet 0.25-1.3mm 8MM Tape, Paper Tape
<b>Power Object</b>	Accompanied DC 36V Supply Lithium battery power DC 36V
<b>Working time</b>	20H 9ull power state 20H
<b>Charging power supply</b>	220V 50Hz
<b>Low voltage warning</b>	Accompanied low voltage alarm function
<b>Material loss</b>	Accompanied empty splicing testing function
<b>Splicing passing rate</b>	≥97%
<b>Mechanical noise</b>	decibel
<b>Rated power</b>	220W
<b>Vacuum pressure</b>	-20Kpa
<b>Tape rewind function</b>	Button control automatic receipt
<b>Splicing Consumable materials</b>	3000 rolls per film
<b>Anti-error material system</b>	Self-provided material barcode scanning and error proofing (optional customer error proof system docking)
<b>Equipment weight</b>	68KG





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