



INTERLLIGENT

Automatic solder paste adding machine



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Catalogue



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Comparison of manual and automatic solder paste addition

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Development history of automatic solder paste adding machine

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Introduction to our automatic solder paste adding machine

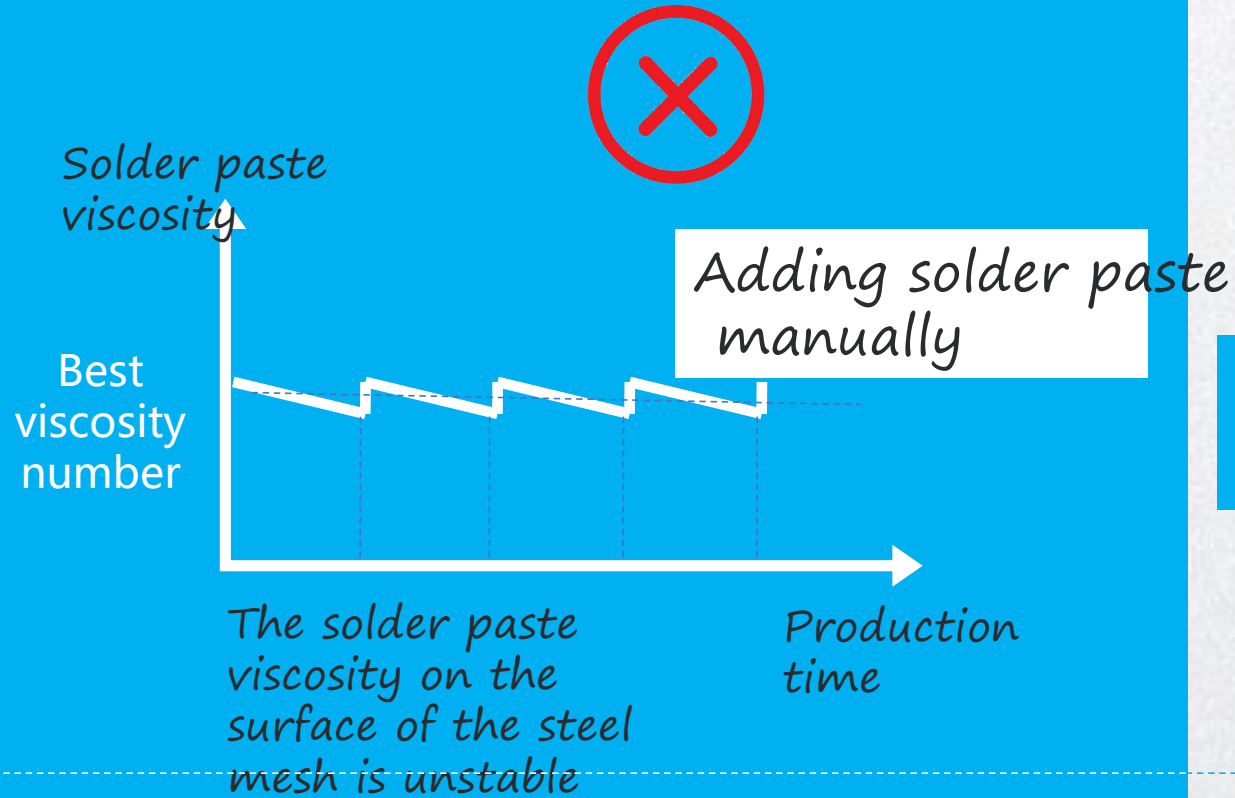
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Actual case and customer base

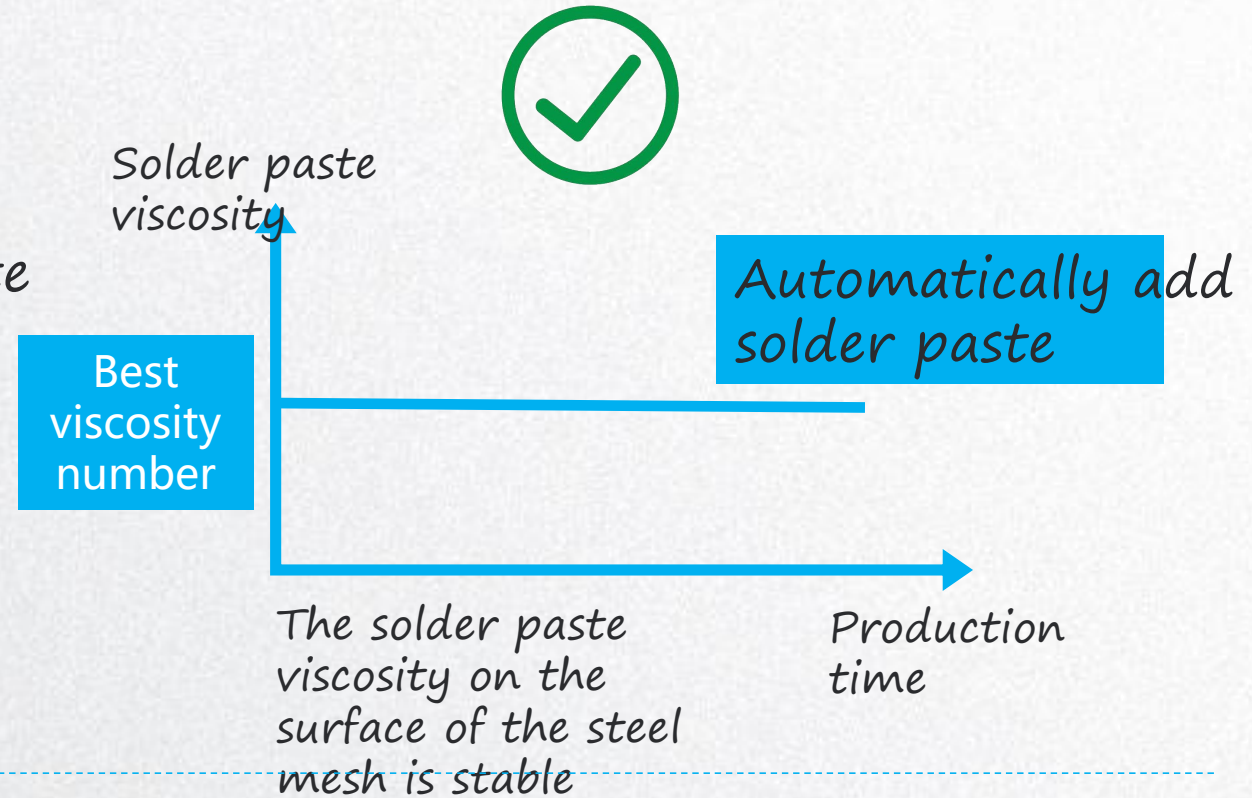
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Contact Us

CraftStabilization



The artificial addition of solder paste is very arbitrary ,
Solder paste viscosity changes greatly ,
The printing effect is uncontrollable.



Automatically add solder paste in strict accordance with the
procedure ,
Viscosity stability ,
Controllable printing effect.

ReduceWaste

Adding solder paste manually



The residue at the bottom of the bottle is about 15g



Residue on stirring knife: 3g/ time
(One bottle of solder paste 5 times)

Waste : $15g + 3g * 5 = 30g$



Automatically add solder paste



Residue + bottle weight: 33.6g

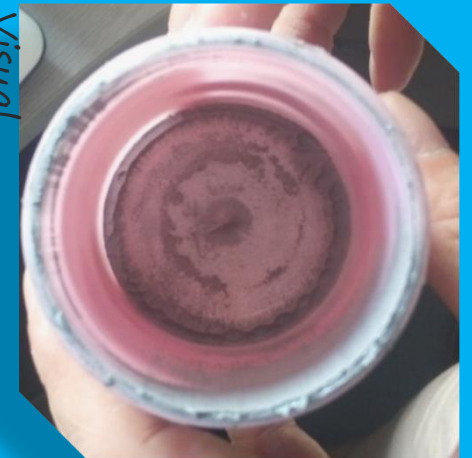


Empty bottle weight: 30.8g

Waste : $33.6g - 30.8g = 2.8g$

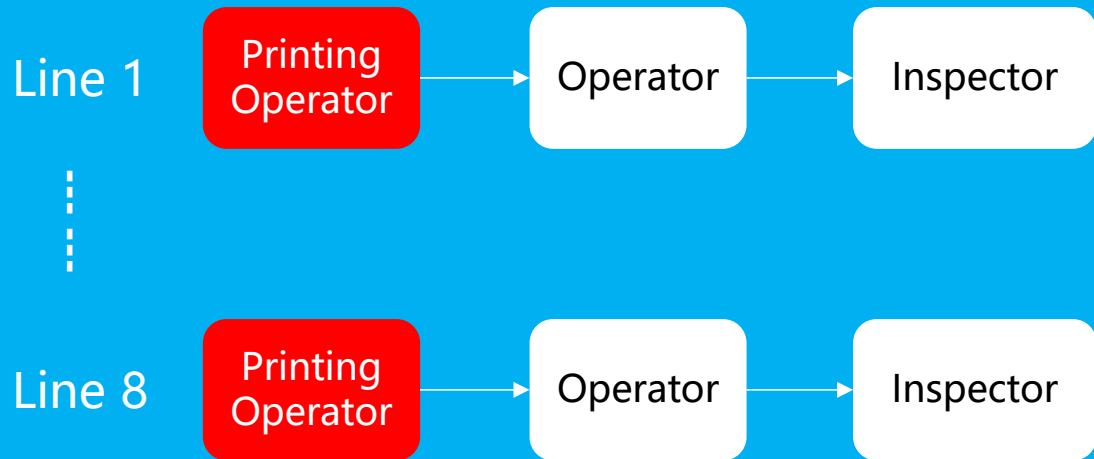


Visual effect



Save man-hour

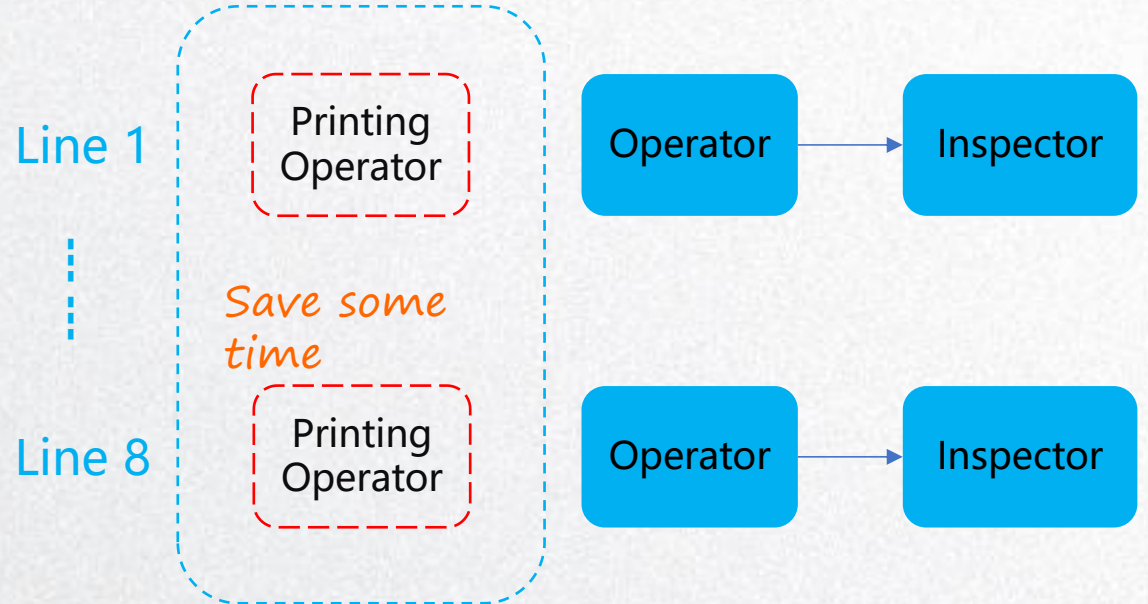
Adding solder paste manually



Special person, regularly check the tin quantity
Stop line adding solder paste, production waste, the cumulative immeasurable



Automatically add solder paste



No need for special personnel, equipment alarm after processing

Add tinning paste non-stop, no loss of production capacity, save a lot of hours

Sum

Up

Adding solder paste manually



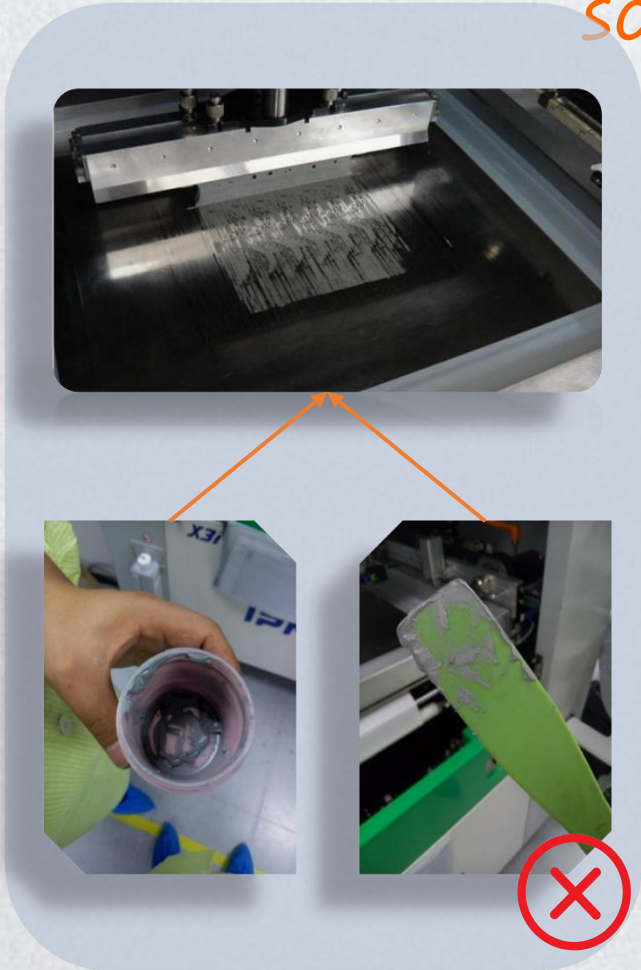
- **shutdown operation – Waste of time**
Waste 3min each time adding tin, less production 1h per day
- **manual check – Lack of reliability**
Manual inspection of solder paste remaining amount, visual judgment is not accurate
- **Add solder paste at will – lack of stability**
A small number of times adding solder paste can not be achieved, the difference is large
- **Open cover add – temperature and humidity out of control**
The instability of temperature and humidity affects the stability of printing process



Automatically add solder paste

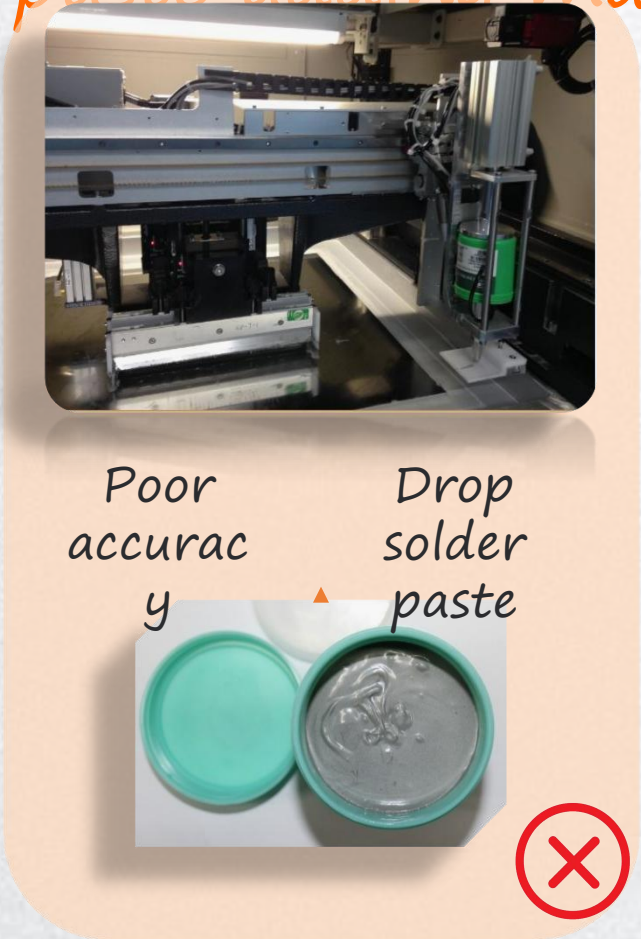
- **Run adding solder paste – increase production capacity**
Change the bottle for 30 seconds, the whole line does not stop, and the production capacity is not wasted
- **Program control – stable and reliable**
Add solder paste in production, add alarm
- **Uniform addition – stable solder paste amount**
The amount of solder paste is stable and controllable, and the frequency of adding solder paste can be set
- **Closed operation – temperature and humidity controllable**
Temperature and humidity real-time monitoring, printing machine internal overtemperature alarm

Development history of automatic solder paste adding machine



Adding solder paste manually

Automation

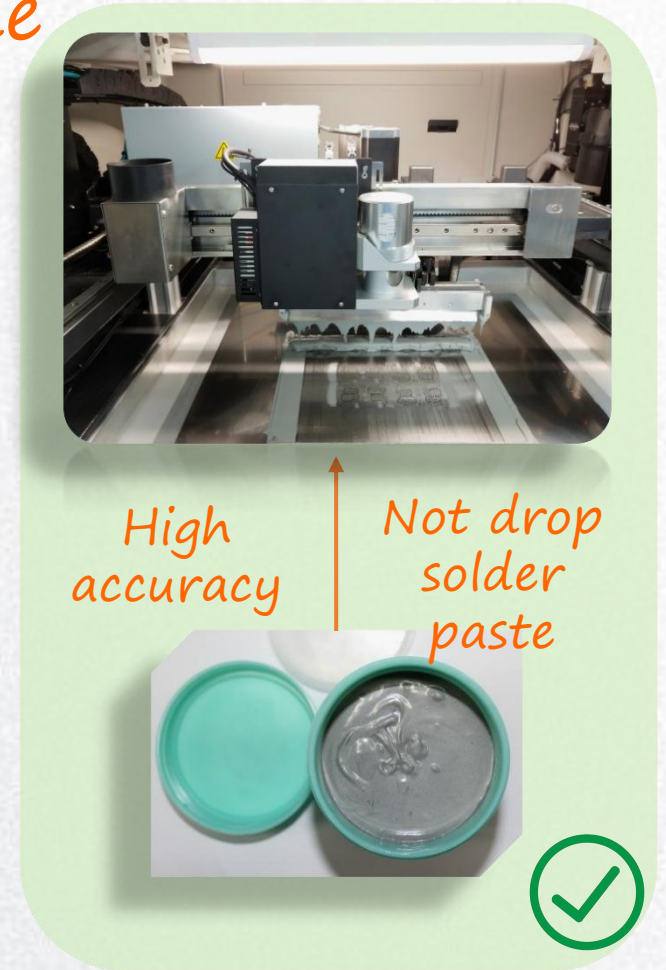


Poor accuracy

Drop solder paste

Pneumatic solder paste adding machine

Intelligent



High accuracy

Not drop solder paste

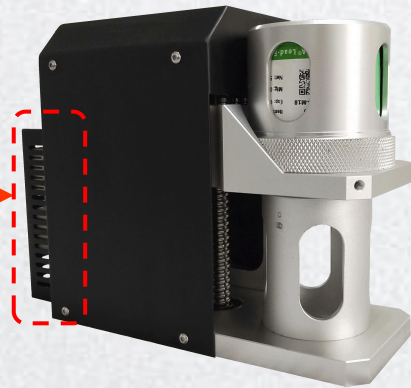
All electric intelligent solder paste adding machine

Our automatic solder paste adding machine

Main control module



Temperature and humidity monitoring module



(Option) On-line monitoring &MES link software



(Computer provided by customer)

Host module

Half bottle weighing module



Movable support frame



上、下双感应器

Induction counting



(Option)
Panasonic laser ranging

Innovative modular design concept!

Our automatic solder paste adding machine

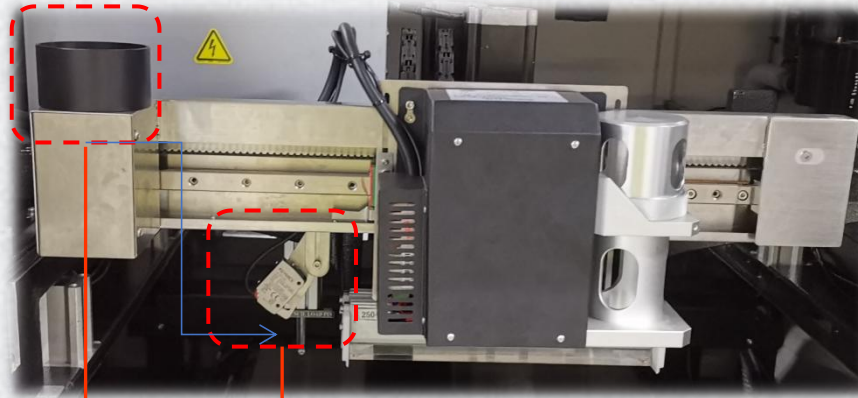
Pressure, induction type weighing module is adopted

With analog to digital converter

Get weight data directly and assign value automatically

Effectively handle half a jar of solder paste of any weight

Avoid false test, high reliability

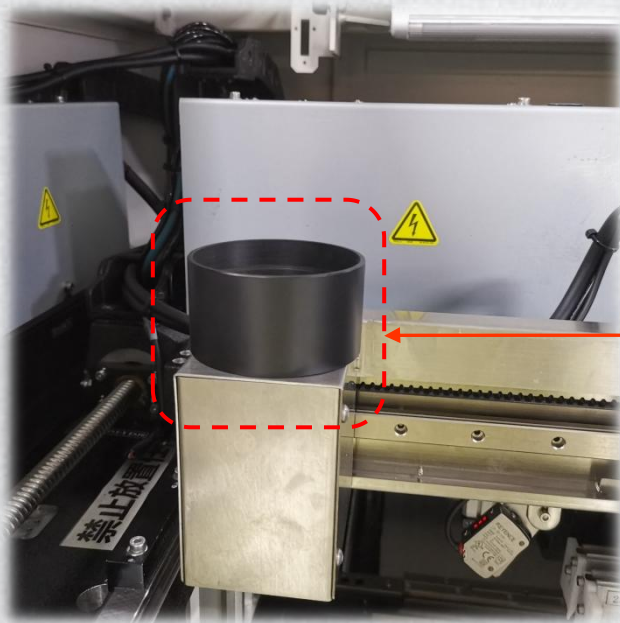


Using Panasonic laser ranging sensor;

High precision, 0.2mm sensitivity

Can detect solder paste rolling diameter start adding solder paste

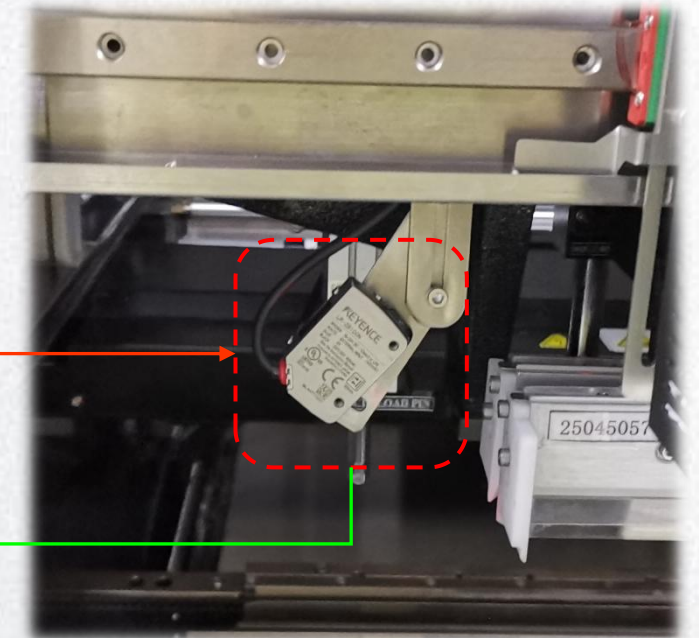
You do not need to change configuration parameters when replating a product



Half bottle weighing



Panasonic laser ranging sensor



Solder paste height monitoring module

Innovative modular design concept!

Technology Index



Performance Advantage & Irreplaceable



Drive mode: pure electric, automatic control, one click add solder paste
Trigger mode: ① upper and lower sensor trigger, ② Check solder paste rolling diameter start

(option)

Control mode: customized touch screen +PLC integrated machine, multiple communication ports

Drive unit: Custom stepper motor with feedback, imported

Slide
solder paste quantity: 2g
Automatic operation (fixed point/multi-point)

Operation depends on automatic operation (fixed point/multi-point)
Bottle bottom residue: about 3g (measured about 2g, solder paste viscosity slightly affected)

Half bottle mode: pressure weighing sensor, realizing the automatic addition of half bottle solder paste

Risk assessment: no dropping solder paste (set reasonable

parameters according to different solder paste viscosity)

Networking applications: Support for online monitoring &MES data connection (option)

Monitoring application: Equipped with temperature and humidity monitoring module, support data storage

Application type: process improvement application



Air source: 0.4-0.8Mpa

Power supply: 220V, 50/60Hz, 100W

User installation



•MPM actual installation effect



Suitable for all major printing press brands
Such as MPM, DEK, Panasonic, Fuji, ESE, IPM, GKG, Desen and so on

Accuracy test

The measured accuracy of adding solder paste is set at 0.5g, and the amount of solder paste is 5.5g



Take several groups of measured data to calculate:

$$21.6 - 16.2 = 5.4g,$$

$$16.2 - 10.5 = 5.7g,$$

The set value is 5.5g, the maximum error is 0.2g,
and the error rate is $0.2 \div 5.5 = 3.6\%$

Description: If the parameters are reasonable,
The actual solder paste quantity and the set
value error is less than 5%, High accuracy.

自动加锡机-部分使用客户列表

客户名称	客户类型	客户名称	客户类型
中兴通讯	通讯类	德赛西威	汽车电子
OPPO	通讯类	宿迁北斗星通	汽车电子
东莞华贝	通讯类	天津阿尔派	汽车电子
福盛创新	通讯类	长春希达电子	汽车电子
欣旺达	通讯类	东莞京滨汽车电喷装置	汽车电子
英华达	通讯类	昊阳天宇	汽车电子
长城开发（深科技）	通讯类	深圳伟创力	医疗电子
武汉富士康	通讯类	建溢宝集团	智能家电
卓翼科技	通讯类	海太半导体	半导体
深圳创维	通讯类	锐意科技	通讯类
东莞新能德科技	通讯类	威刚电子	通讯类
东莞技嘉科技	通讯类	立讯精密	通讯类



Thank You !!!

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