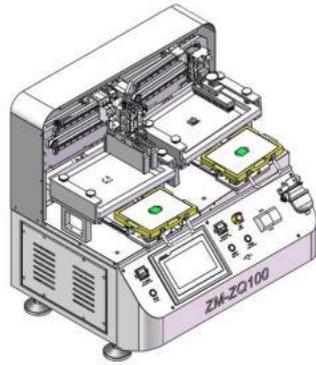


Plant the ball

Printing station

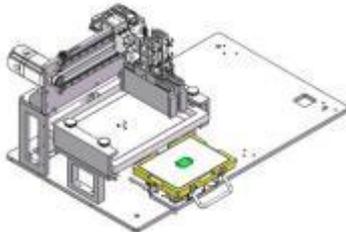


Main

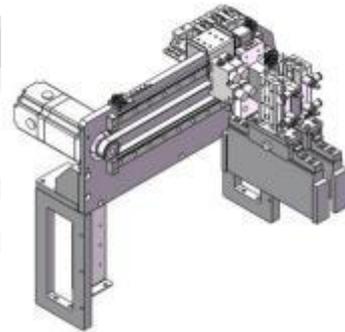
1. Printing station
2. Plant the ball

Semi-automatic printing & ball-planting

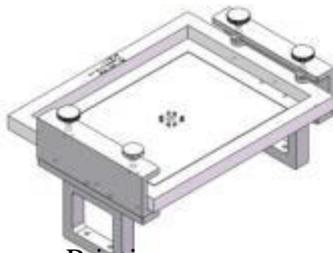
1. Introduction of the equipment structure



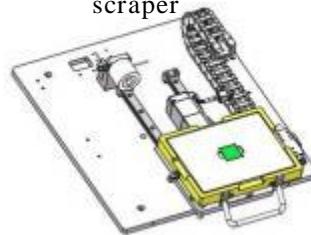
Printing station



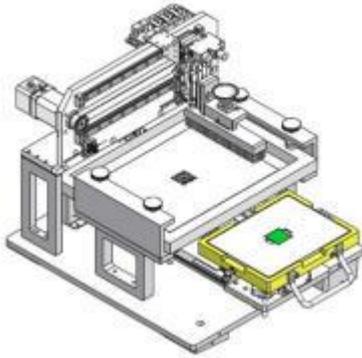
Printed scraper



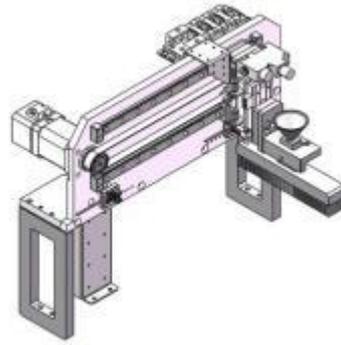
Printing steel mesh



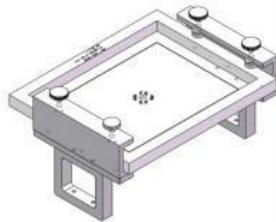
Printing platform components



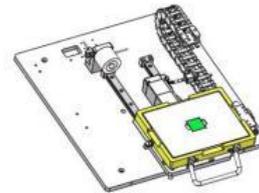
Plant the ball



Plant ball hair brush assembly



Ball-planting



Plant ball

2. Introduction **steel, mesh equipment structure flat, table-ures**

desktop type

◆ Semi-automatic

The printing station is a semi-automatic desktop equipment, man control, simple operation, simple parameter editing, simple and fast wire change. The feeding mode is manual loading and unloading, with strong operability. The overall size of the whole model is about 700mm * 570mm * 671.5mm (subject to the actual design), for easy transportation carry. Compatible BGA The maximum size is: 65mm * 65mm * 3mm, can be printed with different spherical sizes of BGA, strong overall compatibility.

◆ Printed scraper assembly

Printing scraper station with scraper lifting moving component, can fit BGA of different sizes; scraper lifting component blade has certain elastic clamping design, can make the amount of tin of each welding inventory printing uniform and unified, avoid the defects of more tin, less tin, tin, tin leakage, etc.; scraper blade Both sides are provided with buffer scraper block edge to prevent tin paste from spilling.

◆ Printing of the steel mesh assembly

It can realize the alignment of printing steel net and BGA welding inventory manually, and adopt nano-coating treatment, which can greatly improve the yield of printing process.

◆ Printing platform components

The handle design is convenient for manual free push and pull, with electromagnet parts to facilitate manual automatic positioning; the removable special treatment tool replaces different ones for different products, with good compatibility; the components of the treatment tool are equipped with vacuum function and positioning pin, which can effectively guarantee the positioning accuracy of the treatment tool and smooth operation of manual push and pull platform components, and the platform has place prevention and avoidance, manual handling and feeding (for product printing, positioning, reserved vacuum fixation, some products are not suitable for vacuum fixation according to the specific products provided.); The printing lifting platform components is equipped with electric lifting mechanism, which can effectively ensure its positioning accuracy.

◆ Plant ball brush assembly

The workstation is equipped with a brush lifting moving assembly for BGA of different sizes; it prevents tin ball leakage (tin The ball is stored inside the brush) and the brush has a certain elastic clip design, and is equipped with the ball funnel this workpiece, easy for manual automatic ball.

◆ Ball-planting steel net assembly

The treatment of the ball steel mesh and the yield of the printing process.

◆ Plant the ball platform assembly

The handle is designed for manual free push and pull with electromagnet parts to facilitate manual automatic positioning; the removable special treatment equipment for different products with good compatibility; the platform components are equipped with vacuum function and positioning pin, which can effectively guarantee the positioning accuracy and the smooth operation of manual push and pull platform components, and the platform is equipped with prevention and avoidance, and manual feeding (for fixed products,

Reserved vacuum fixation mode, some products not suitable for vacuum fixation mode will be based on the specific product provided Structure); the planting ball lifting platform assembly is equipped with an electric lifting mechanism, which can effectively guarantee its positioning accuracy; the platform is provided with an angle of about 5° Mechanism to improve the yield of the planted bulb.

◆ Superior security and protection function

With leakage protector, the equipment is reliably grounded; anti-static treatment with the contact parts of the product can best protect the product; inside the machine

The outer surface is contact without burrs and edge personnel or workpiece; there are sound and light alarm and alarm information

3. Equipment specifications and technical parameters

	project	parameter
1	Device name	Semi-automatic printing ball planter
2	Operate mode	semi-automatic
3	Delivery method	Artificial loading and unloading
4	Compatible with the BGA size	Compatible maximum size: 65mm * 65mm * 3mm
5	Fixed mode of treatment equipment	Positioning pin + vacuum fixing mode
6	The BGA product is fixed mode	Vacuum adsorption + special treatment device
7	Product and steel network positioning mode	Mechanical positioning
8	Plant ball / printed steel mesh size	The outer frame is about 308mm * 250mm * 20mm, subject to the actual design
9	Printing / planting ball accuracy	The deviation amount is less than 1 / 3 of the spherical diameter
10	The BGA substrate deformation amount	Planarity of 10% spherical diameter
11	Production yield	≥95%
12	The product line change time has been adjusted	About 10min
13	Replace the steel mesh for the calibration	People observe with the naked eye
14	Overall dimensions of the whole machine	About 700mm * 570mm * 671.5mm, specifically subject to the actual design
15	weight of equipment	About 100, specific subject to the actual design
16	Man-machine authority	Operators / maintenance personnel / engineering personnel three-level authority mode
17	E SD	Anti-static treatment with the product,
18	Safe	1, sound and light alarm, alarm information prompt 2. Emergency stop button 3. 3, leakage protection device, equipment reliable grounding
19	Power source	AC :220±10%,50/60HZ 1Φ