
Full Automatic Pneumatic Stencil Cleaner Technology Solution



Application:



Communication



Aerospace



vehicle electronics



the medical

1. Equipment introduction

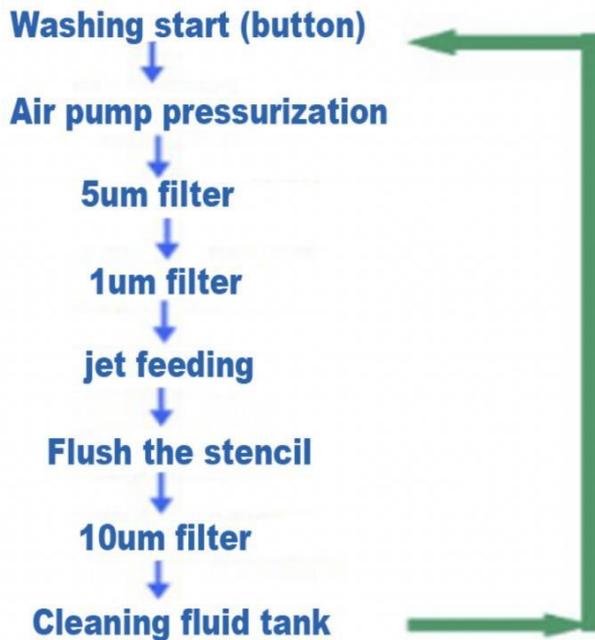
Equipment Name:

R-8800 Full Automatic Pneumatic Stencil Cleaner

1.1. Machine introduction

This machine uses compressed air as its energy source, and it is a new type of high-performance fully pneumatic cleaning equipment. Put the stencil into the cleaning room manually, after adjusting the cleaning and drying time, press the start switch, the stencil will be cleaned and dried automatically. When the set time is reached, it will automatically stop running. The time will be automatically reset when the door is opened. , in order to realize the next workflow, it is convenient for the operator to clean the stencil, and the production efficiency is greatly improved. Among them, the liquid used for cleaning can be recycled in the machine, which greatly reduces the consumption and cost of the liquid, and the operation time is greatly improved. Shortened, the operator does not need to touch the liquid, and will not harm the human body. The power source used by this machine is compressed air, which does not require any power input, so that its safety performance reaches 100%, and there is no requirement for liquid. Each control element is Use imported brands to make the machine run stably and have a long service life. Reduce the after-sales service after the warranty period. The exhaust gas produced by drying is discharged through the exhaust device with a special structure inside the machine to reduce the volatilization of liquid and reduce the consumption of liquid and compressed air.

1.2. Cleaning process



1.3. Equipment-related dimensions and parameters

Applicable stencil size: maximum L750 × W750 × H40(mm)

Extra large size needs to be customized

Cleaning liquid capacity: 40L (maximum)

Cleaning method: 360°rotary cleaning liquid spray and high-pressure air spray (cleaning→drying)

Cleaning time: 2-4 minutes (conventional process)

Drying time: 2-5 minutes (conventional method)

External air source: 0.4Mpa ~ 0.6Mpa

Tin slag filtration method: Three-stage filtration

Level 1 filtration: 10μm (filter impurities and labels)

2-stage filtration: 5μm (filter tiny particles and solder paste)

3-stage filtration: 1μm (filter tiny particles and rosin)

Exhaust port size: Φ120 × H40(mm)

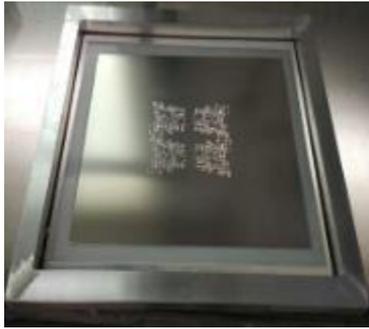
Machine net weight: 200kg

Machine size: L945 × W650 × H1645(mm)

1.4. Machine Features

- (1) Compressed air is completely used as energy source, no electricity is used, and there is no fire hazard
- (2) Closed-loop cleaning: there will be no leakage of gas and liquid; it is conducive to improving the working environment
- (3) High-precision 3-stage filtration system: Effectively extend the cycle life of the cleaning agent
- (4) It is specially used for cleaning SMT stencils, PCB misprinted plates and printing machine scrapers, etc.
- (5) The equipment adopts precision filtration system
- (6) Cleaning + air-drying process to ensure cleanliness
- (7) The liquid pressure can be displayed through the hydraulic gauge on the operation panel
- (8) The independent exhaust device design makes the liquid consumption lower
- (9) The overall body is made of 304 stainless steel, durable, acid-resistant, alkaline and other cleaning fluids
- (10) One-button operation, easy to operate, easy to complete cleaning and air-drying work
- (11) The overall stainless steel structure has been processed by wire drawing; it is beautiful, durable and easy to maintain.
- (12) All pneumatic components of the equipment are imported original accessories; for example: pneumatic diaphragm pump, pneumatic timer, air source indicator light, pressure regulating filter, etc.; make the equipment durable and quality guaranteed

2. Cleaning objects



SMT/ SOP



Printing template

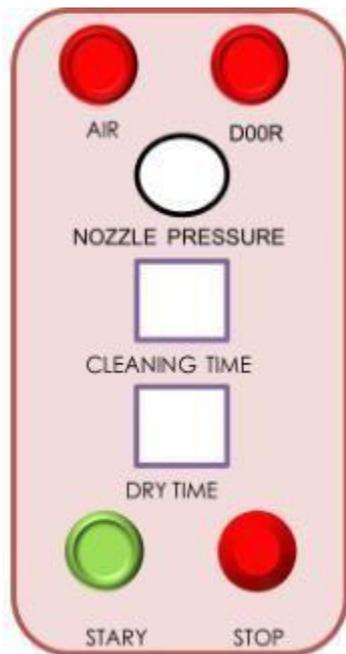


SMT Squeegee



PCBA/Misprinted board

3. Equipment function description



3.1 Operation interface

The equipment operation and display are integrated on the same panel; the operation status of the equipment can be grasped intuitively; the operation of the whole equipment is simple;

3.2 Intake pressure regulator

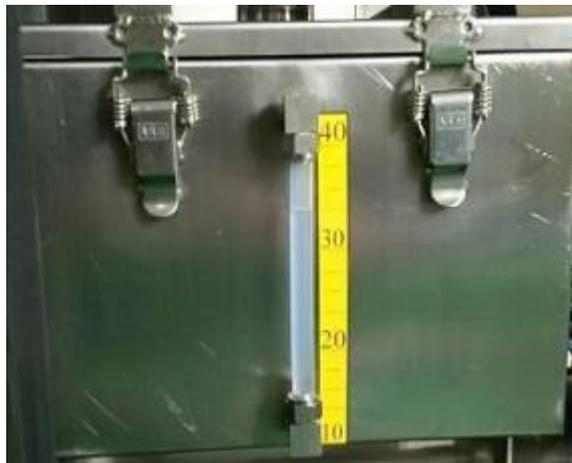
Air intake pressure regulator, can choose the appropriate air pressure according to the actual application; and can filter the oil and water in the compressed air;



3.3 Timer

The equipment adopts a fully pneumatic timer imported from Germany, and the timing is accurate;

3.4 The all-stainless steel liquid tank can store various types of cleaning fluids, and is resistant to acid and alkali; the liquid tank has a liquid level display mark, which can intuitively understand the change of liquid level



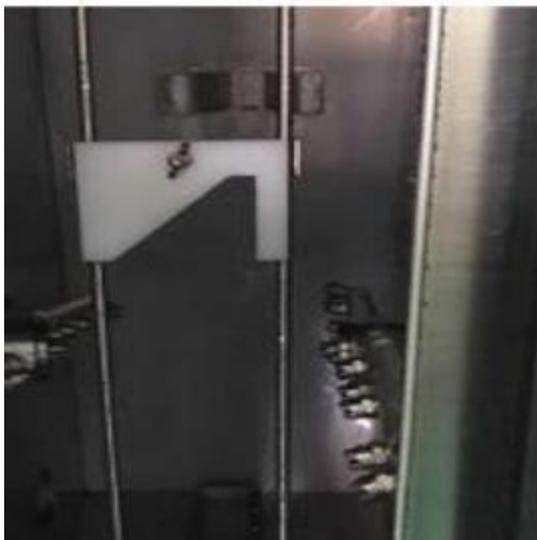
3.5 Imported pneumatic diaphragm pump is used, which is durable; the pump body is equipped with liquid filling and liquid discharge devices, which can effectively avoid liquid splashing caused by liquid filling and liquid discharge



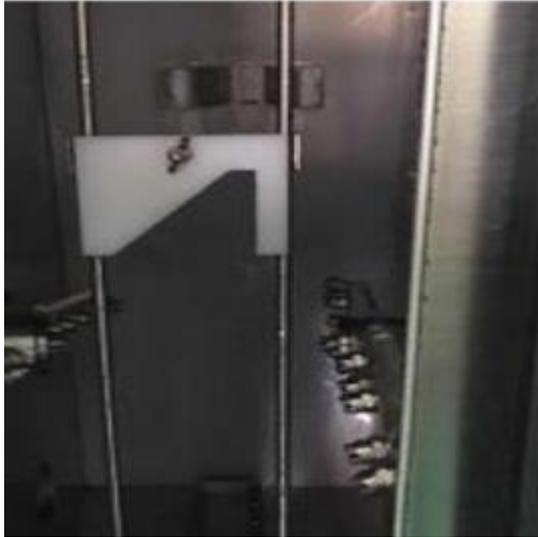
3.6 There is a filter system in the liquid tank, which can filter the dross above $10\mu\text{m}$ and improve the service life of the liquid



3.7 All 4 SUS304 stainless steel filters, filter tiny particles, filter precision $5\mu\text{m}$ and $1\mu\text{m}$;



3.8 Exquisite stencil holder design, so that the stencil cleaning process will not shake; suitable for different sizes of stencil cleaning, the maximum size is $750 \times 750 \times 40$ (mm)



3.9 .The S-shaped exhaust pipe design can effectively recover the vaporized liquid; the position of the low exhaust port, , reduces the liquid atomization and volatilization



4.0. Detachable chute: convenient for maintenance, cleaning and maintenance;



4. Equipment capacity and resource consumption

Equipment capacity

1 stencil can be cleaned per batch

Consume resources

(1) Compressed air: 400- - 600L/Min;

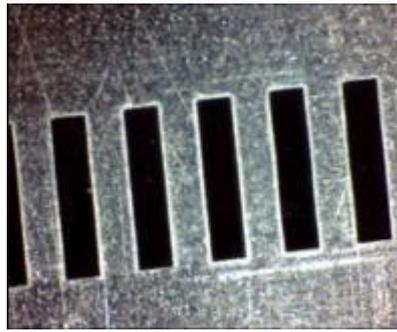
(2) Liquid consumption: According to the experiment, each batch consumes 180~300 ml (the consumption will be different due to the size of the stencil and the type of cleaning liquid selected);

(3) Filter element: : The replacement cycle is recommended to be 3~5 weeks (due to the difference in frequency of use);

5. Comparison of cleaning examples



Before cleaning



After cleaning



Before cleaning



After cleaning

6. List of important equipment accessories

Equipment main configuration list

Part Name	brand	place of production	place of origin
Equipment enclosure	GB 304 stainless steel	1 set	China
Cleaning water pump	Ingersoll Rand	1 set	U.S.
Cleaning timer	HENGSTLER	1 PCS	Germany
Air dry timer	HENGSTLER	1 PCS	Germany
Air source indicator	Koganei	1 PCS	Japan
Safety door indicator light	Koganei	1 PCS	Japan
Air control valve	CHELIC	4 pcs	Taiwan
Angle seat valve	GB 304 stainless steel	1 pcs	China
304 Stainless Steel Cleaning Fluid Filter	Jin Yifeng	2 set	China

Panel Hydraulic Gauge	DONGGUAN YADE INSTRUMENT	1 pcs	China
Emergency stop switch	CHELIC	1 pcs	Taiwan
Cylinder	SMC	1 pcs	Japan
Start switch	CHELIC	1 pcs	Taiwan
Pressure regulator filter	CHANTO	1 set	Taiwan
Casters	Xiang Rong	4 pcs	China
304 stainless steel foot cup	Xiang Rong	4 pcs	China
304 stainless steel nozzle	Xinchiyuan	22 pcs	China
304 stainless steel handle	Ming Hua	5 pcs	China
front door close handle	CCM- HARDWARE	1 set	China
Liquid pipeline	GB 304 stainless steel	1 set	China

*Product quality certification: CCC; CE; RoHS

*Management system certification: ISO 9001;ISO 14000

*Factory area of 4000 square meters

*With a number of mechanical & electrical design professionals, with super R&D strength, it has won many patents and user honors.



Honor Clients :

