

SMT Auto Aqueous Stencil Cleaning Machine



Introduction:

I.C.T-800 is a high quality aqueous detergent stencil cleaning machine which used to clean solder paste stencil, red glue stencil, red glue cooper stencil, mis-print PCB, large size PCBA.

The total process--aqueous detergent clean, water rinse, hot air dry are complete just in one wash chamber. The Unique 4 fixed cleaning spray rods, 4fixed air knives and stencil move back and forth design makes the machine stable, reliable and super cleaning result.

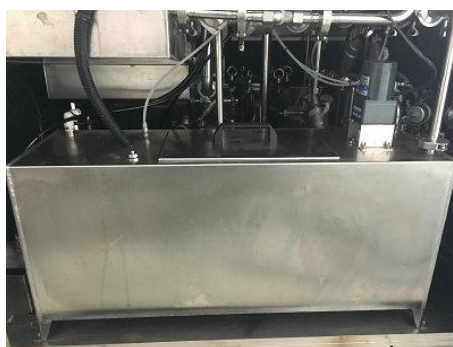
Features:

1. Suitable to clean SMT stencil ,cooper mask, resin mask, misprint PCB and large size PCBA;
2. The unique 4 spray rods and 4 air knives fixed and stencil moves clean mechanism, more stable, quick and efficient to clean remaining solder paste, red glue and flux on SMT stencil, cooper mask, resin mask, misprint PCB and PCBA;
3. The unique real-time aqueous detergent filtering system is right for precise stencil cleaning;
4. State of the process is visible through a large observation window;
5. Real-time measure DI water resistivity and monitoring cleaning effect;
6. The remaining detergent in the pump and pipes are blown off by compressed air and flow back to cleaning tank. This function saves detergent up to 50%;
7. Can be used as PCBA cleaning machine to clean PCBA up to 800*800mm;
8. English color touch Panel operational interface, PLC procedure control, cleaner temperature, clean time, rinse time and rinse times, clean temperature, hot air dry time and temperature, resistivity can be set and monitored as required.

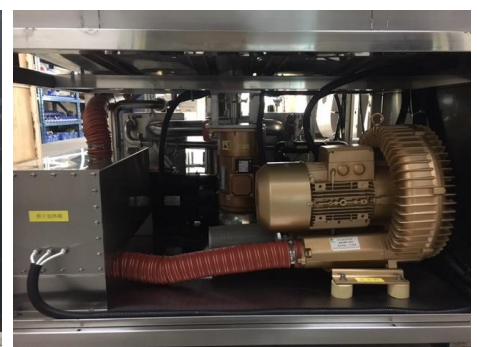
Material:



Control Box
Mitsubishi, Schneider, CKD, Omron

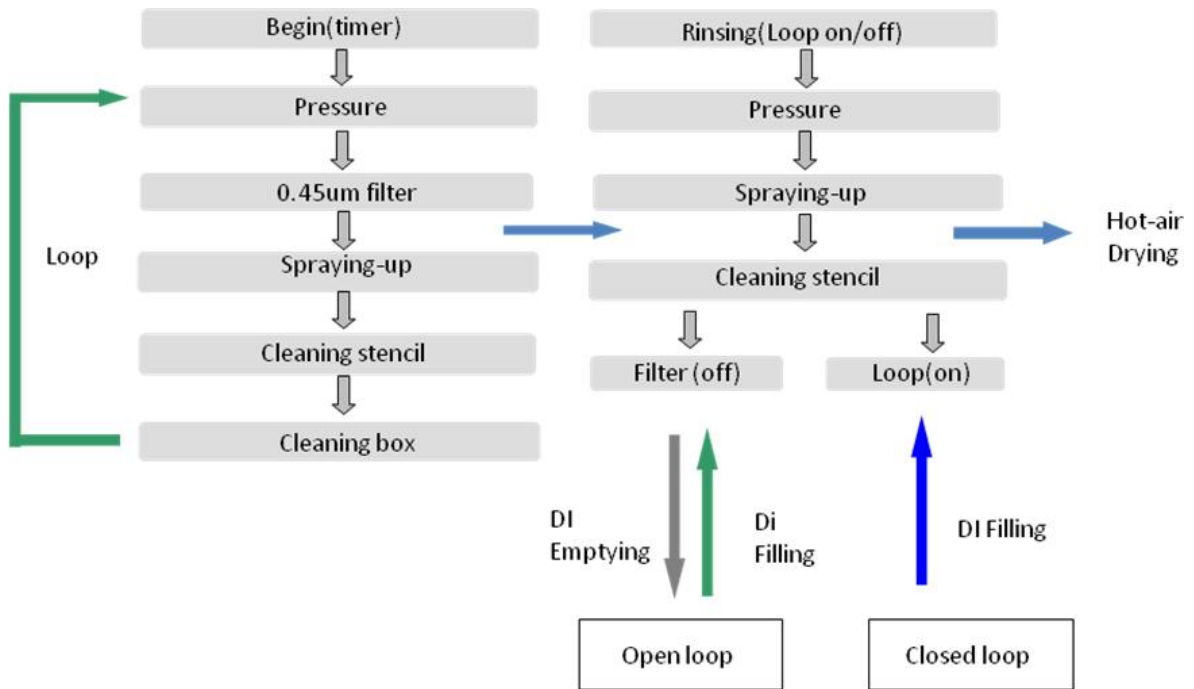


Pipe and valve
Stainless steel 304



Pump
High pressure, high flow, electric

Cleaning process:



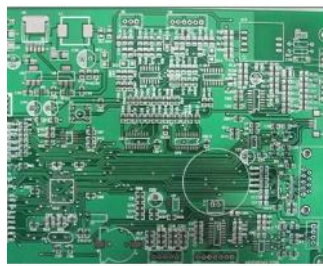
Application:



Stencil



Squeegee



PCB



PCBA

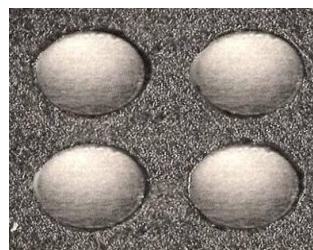
Effect:



Before cleaning



VS

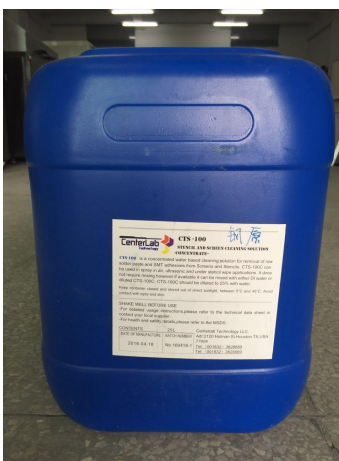


After cleaning



Cleaning report:

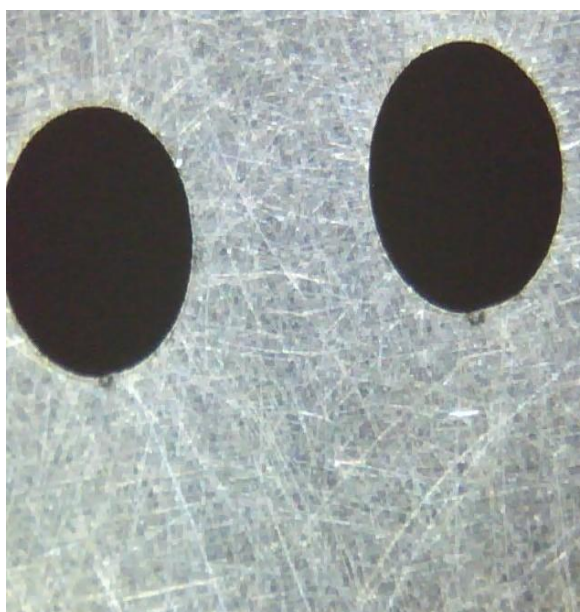
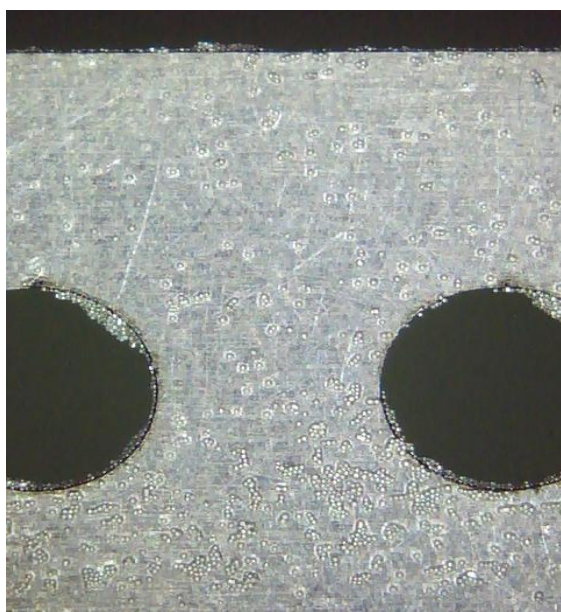
1. Customer: ON Semiconductor(Shenzhen) Co,Ltd.
2. Inspection Tool: 200 times electronic magnifier
3. Test sample: PCB stencil, Water based cleaning agent CTS100

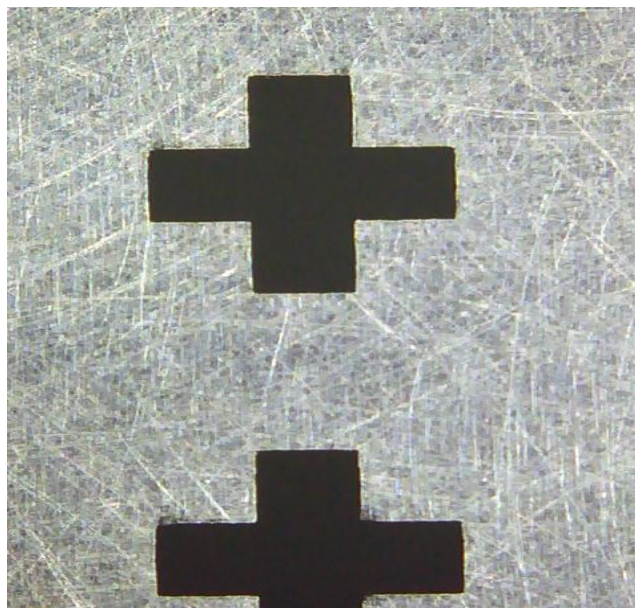
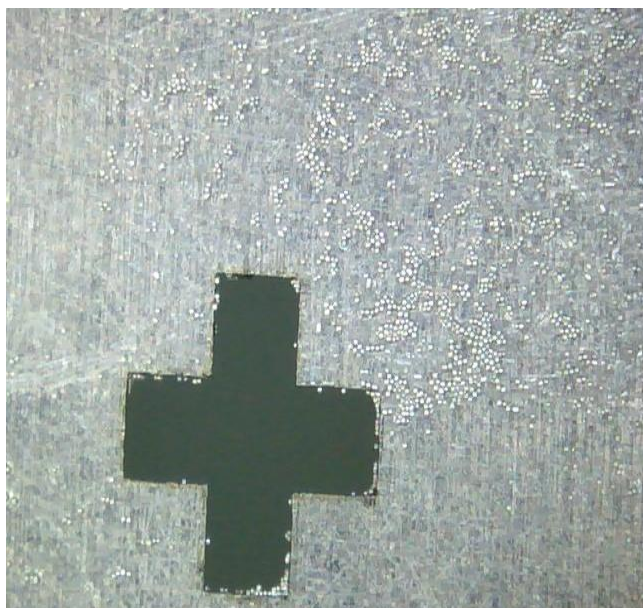


4. Condition setting:

| | |
|----------------------------|-----------|
| Machine | I.C.T-800 |
| Cleaning liquid | CTS-100 |
| Clean time | 300s |
| Rinse time | 120s |
| Dry time | 300s |
| Compressed air pressure | 0.5Mpa |
| Cleaning fluid temperature | 40°C |
| DI water temperature | 20°C |
| Dry temperature | 80°C |

5. Effect comparison:





6. Conclusion:

- This cleaning test, CTS-100 water-based environmental protection cleaning fluid was used on I.C.T-800 cleaning machine. Heating to 40°C, rinsing with DI water at room temperature, cleaning in 300s, rinsing in 120s, drying in 300s. The remaining residues on the inner wall of the stencil opening and the stencil surface were completely cleaned.
- In specific use, process parameters can be adjusted, such as cleaning time, drying time, spray pressure, etc., in order to better meet the actual production requirements.
- Regular cleaning can solve the problem of solder paste residue on the stencil surface and mesh holes, and improve the printing quality and product yield.
- Water based cleaning fluid, no volatilization, recycling, can save cleaning costs; no flash point, safe, environmental protection, in line with the requirements of fire protection and environmental protection. There is residual cleaning fluid, which can not be completely dried. It can be left standing for natural air drying.
- The Cleaning will not damage the stencil.

Standard Accessories:

| No. | Item | Spec. | Quantity |
|-----|------------------|----------------|----------|
| 1 | Power start key | / | 2pcs |
| 2 | Door lock key | / | 2pcs |
| 3 | Air tube | ∅10mm | 1pcs |
| 4 | Filter cartridge | 10 inches, 1μm | 6pcs |

Specification:

| | |
|------------------|-----------------|
| Item | I.C.T-800 |
| Max stencil size | L750*W750*H40mm |
| Liquid tank | 60x2pcs |
| Clean time | 2~5min |
| Wash time | 1~3min |

| | |
|---------------------|---|
| Dry time | 3~5min |
| Rinse times | 1~99time |
| Clean detergent | Aqueous detergent |
| Rinse water | DI water(water) open-loop or close-loop |
| Dry method | High pressure hot air dry |
| Detergent heat temp | 0~60℃ |
| Hot air dry temp | 0~90℃ |
| Clean heat power | 9KW |
| Rinse heat power | 9KW |
| Hot air heat power | 6KW |
| Clean/rinse filter | 0.45um |
| Resistivity range | 0~18MΩ |
| Power | AC380V, 3Phases, 50/60HZ, 33KW |
| Dimension | L1300*W1400*H1950mm |
| Net weight | 720KG |

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

YouTube Video Link: <https://youtu.be/mqds5k7z4Zc>

Thanks for choosing I.C.T.

I.C.T looks forward to win-win cooperation.

Thank you.