

SMM-1100 Multi-Module Cleaning Machine



SHENZHEN SOUTHERN MACHINERY SALES AND SERVICE CO.,LTD

INTRODUCTION:

SM-1100 utilizes a combination of modules, integrating various cleaning technologies, mainly for post-SMT soldering flux residue removal from PCBAs. It enables multi-stage cleaning, rinsing, and drying process combinations with high cleaning batch quantities and high post-cleaning surface cleanliness.

The cleaning equipment includes: **ultrasonic jet units, dynamic shower units, jet bubble units, and hot air drying units**. It uses immersion cleaning methods, utilizing multi-workstation continuous operations to ensure excellent cleaning and rinsing effects. It is designed for **removing residual soldering flux, solder paste, SMT glue, etc. from electronic components, semiconductor silicon wafers, circuit boards, and electronic product parts**.

Advantages:

1. Flexible cleaning mode combinations for various needs.
2. Modular design enables production process adjustments without full replacement.
3. Dual-function modules allow customizable cleaning processes.
4. Built-in filtration maintains clean wash liquids.
5. High capacity for medium to high volume production.



General cleaning process:



Loading → Ultrasonic Jet Cleaning (or Dynamic Shower Cleaning) → Dynamic Shower Rinsing (or Jet Bubble Rinsing) → Jet Bubble Rinsing (or Dynamic Shower Rinsing) → Recirculation Hot Air Drying → Unloading

Ultrasonic & spraying module

The ultrasonic cleaning module uses cavitation bubbles to clean workpieces effectively. The addition of jet spray enhances cleaning performance.

Cleaning Medium: Water-based cleaning solution/Deionized water

External Dimensions: 850(L)×900mm(W)×850mm(H)

Internal Dimensions: 710mm(L)×350mm(W)×405mm(H)

Internal Volume: 100L, only needs 80L liquid during operation

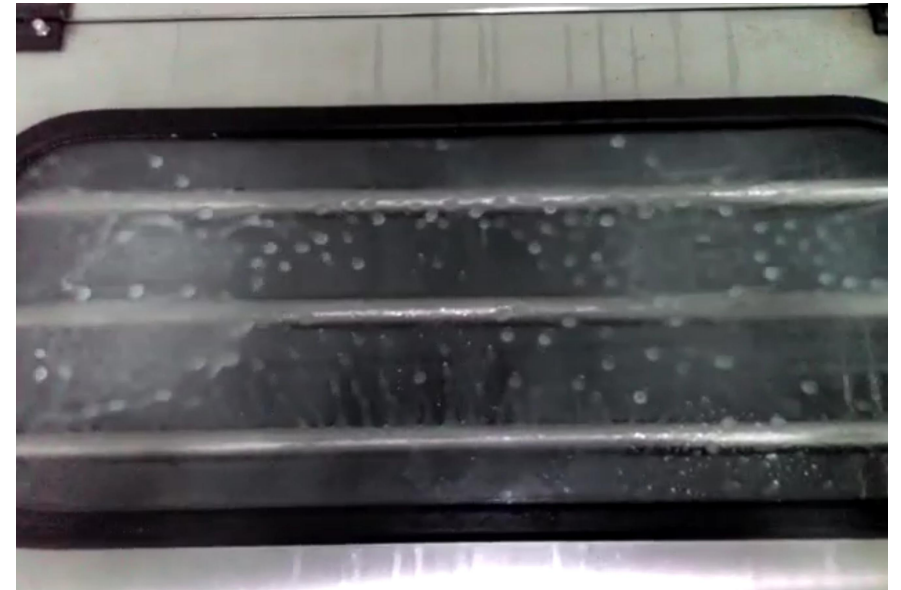
Filtration Accuracy: 100-300μm bag filter

Heating Temperature: Adjustable from room temperature to 80°C

Heating Power: 3KW

Ultrasonic Power: 2KW

Ultrasonic Frequency: 40KHz



Air bubble& spraying agitation module

The jet cleaning module uses underwater jets and bubble agitation for thorough cleaning. The filtration system keeps wash liquids contaminant-free for extended use.

Cleaning Medium: Water-based cleaning solution/Deionized water

External Dimensions: 850(L)×900mm(W)×850mm(H)

Internal Dimensions: 710mm(L)×350mm(W)×405mm(H)

Internal Volume: 100L, only needs 80L liquid during operation

Filtration Accuracy: 100-300μm bag filter

Heating Temperature: Adjustable from room temperature to 80°C

Heating Power: 3KW

Jet Pressure: 0.3MPa



Dynamic spraying module

The shower cleaning module uses high-pressure sprays to clean workpieces from all angles without missing any spots.

Cleaning Medium: Water-based cleaning solution/Deionized water

External Dimensions: 850(L)×900mm(W)×850mm(H)

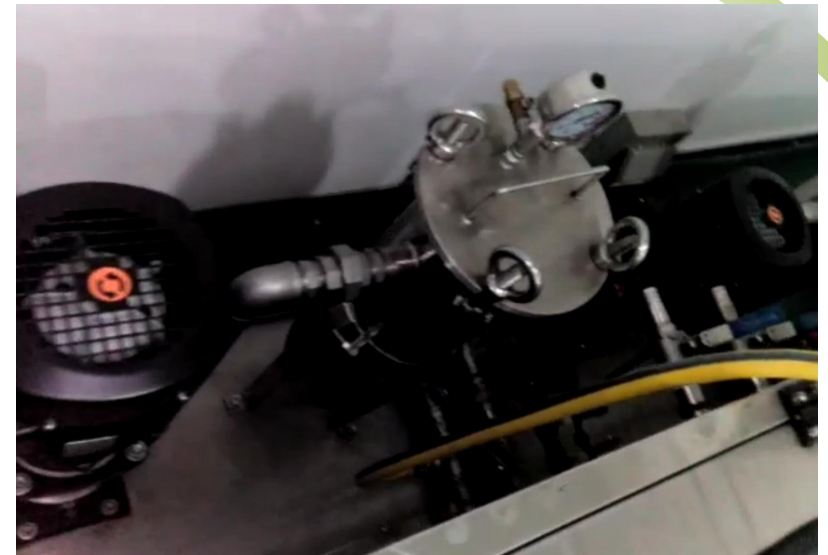
Internal Tank Dimensions: 710mm(L)×350mm(W)×405mm(H)

Internal Tank Volume: 100L, reservoir tank 40L, only needs 40L liquid during operation

Filtration Accuracy: 100-300µm bag filter

Heating Temperature: Adjustable from room temperature to 80°C

Heating Power: 2KW



Drying module

the recirculating hot air dryer uses ducted heated airflow and temperature sensor and digital temperature display for temperature control purposes.

Cleaning Medium: Water-based cleaning solution/Deionized water

External Dimensions: 850(L)×900mm(W)×850mm(H)

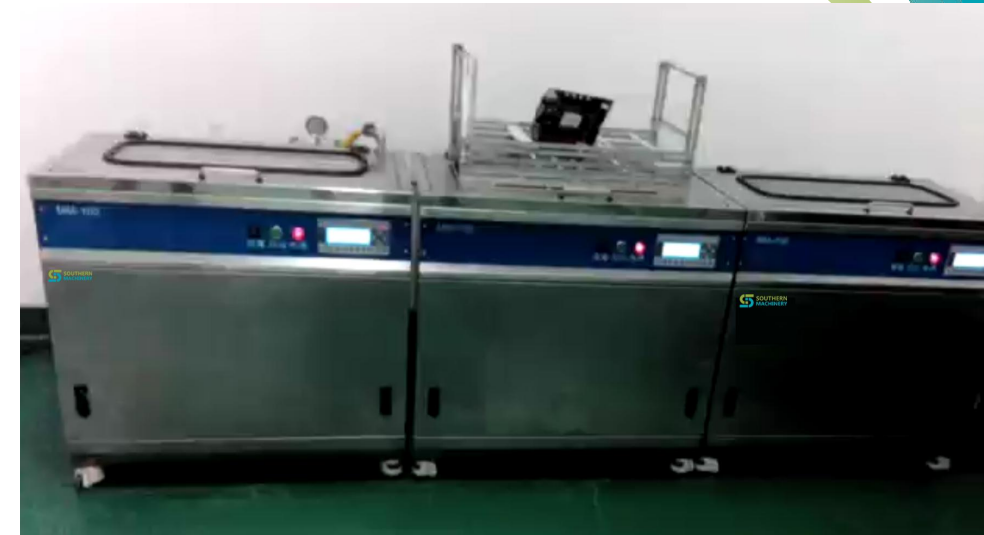
Internal Tank Dimensions: 710mm(L)×350mm(W)×405mm(H)

Internal Tank Volume: 100L, reservoir tank 40L, only needs 40L liquid during operation

Filtration Accuracy: 100-300µm bag filter

Heating Temperature: Adjustable from room temperature to 80°C

Heating Power: 2KW



Best After-sales service

- **Free Installation/ Training**
 - **1 day lead-time (spare parts)**
 - **5 days customized design**
 - **7x24 Worldwide Support**
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