

Misprinted PCB Cleaning Machine



The TX-210 cleaning machine utilizes an organic volatile solvent as its cleaning medium. It is a fully pneumatically controlled unit designed for cleaning misprinted PCBs, specifically tailored for small-batch applications involving misprinted solder paste. The machine automatically executes the entire cleaning and blow-drying process; it effectively removes misprinted SMT solder paste, dust, and other organic and inorganic contaminants. Since the organic solvent is highly volatile, no water rinsing or additional drying is required; cleaned PCBs can be immediately returned to the printer for re-printing. Furthermore, the process ensures that the solder pads remain free of oxidation, thereby preserving their solderability.

Features

- 1)Safety:**Powered entirely by compressed air; it utilizes no electricity, thereby eliminating any safety hazards associated with electrical sparks igniting volatile solvents.
- 2)Structure:**Features a full stainless steel construction that is resistant to acid and alkali corrosion, ensuring robustness and durability. It boasts a compact footprint, a well-engineered internal layout, and an aesthetically pleasing exterior.
- 3)Automated Cleaning:**Operates according to pre-programmed settings to automatically execute the entire cleaning and air-drying process. It features a small form factor and a compact mechanical design.
- 4)Spray Cleaning Design:**The spray nozzles are arranged in a staggered, multi-directional pattern (incrementally spaced horizontally and offset vertically). Nozzle flow rates and positioning are precisely calculated based on the cleaning surface area to completely eliminate any cleaning blind spots.
- 5)Operation:**Features one-touch operation, making it intuitive and easy to master.
- 6)Filtration:**Equipped with a high-capacity filtration system that generates higher spray pressure, resulting in superior cleaning performance and reduced cleaning cycle times.
- 7)Spray Chamber:**Features a mirror-finish stainless steel interior liner that facilitates rapid liquid drainage and recirculation, thereby conserving solvent.
- 8)PCB Dimensions:**Supports a maximum PCB size of 450mm (L) × 450mm (W) × 180mm (H).
- 9)Modular Control System**
- 10)Customization:**Specifications can be tailored to meet specific requirements.

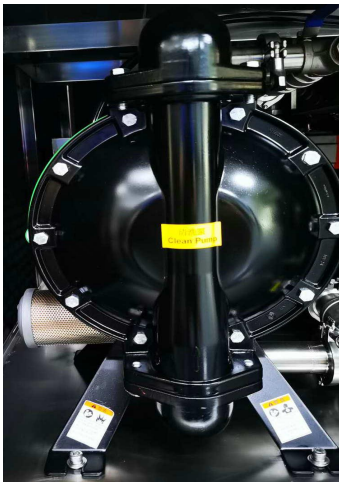
Machine Structure



Control Panel



Cleaning Fluid Tank



Pump



High-Capacity Filtration System

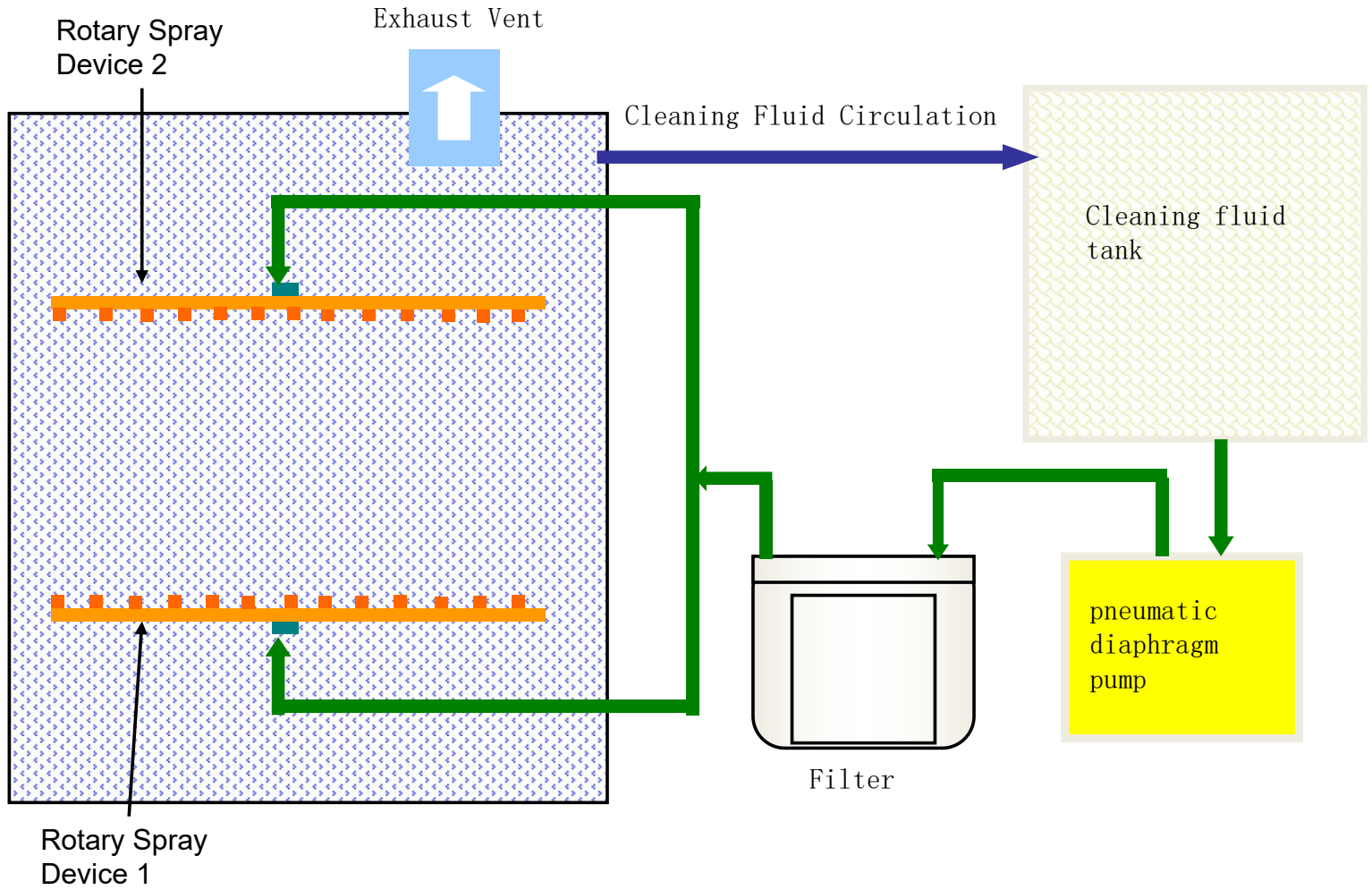


Exhaust Port

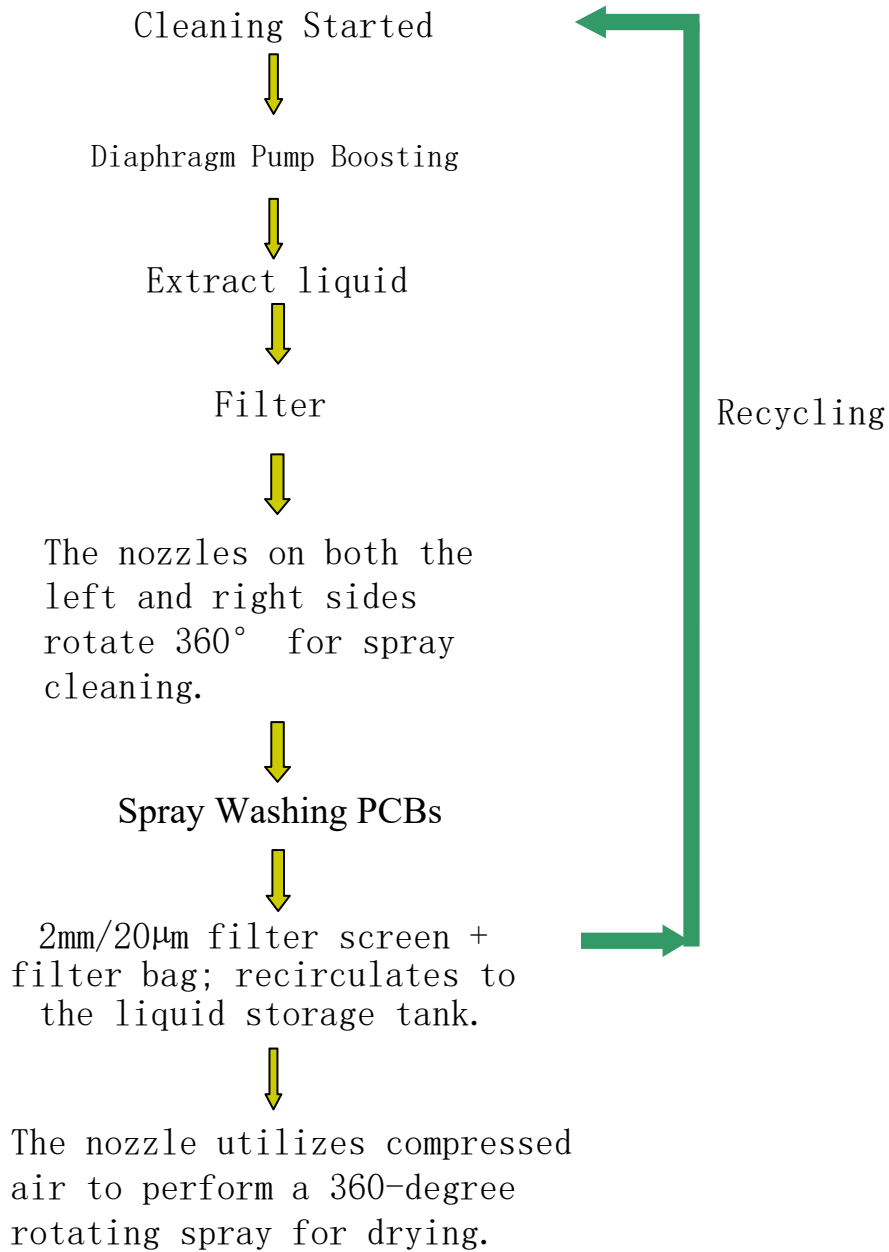


Cleaning Room

Operational Schematic



Operational Schematic



Specifications and Parameters

No	Name	Specifitions
1	Applicable PCB Dimensions	MaxL450mm*W450mm*H180mm
2	Cleaning Fluid Capacity	60L (Max)
3	Filter Capacity	15L (Max)
4	Optimal Liquid Volume	Approximately 45 - 50 L
5	Cleaning Method	360° Up-and-Down Rotating Spray Cleaning Nozzle
6	Drying Method	Compressed Air Drying
7	Recommended Cleaning Time	3~6 seconds
8	Recommended Drying Time	3~6 seconds
9	Filtration Method	Standard 1μm Wound Filter Cartridge
10	Air Supply	0.5Mpa~ 0.7Mpa
11	Air Consumption	400~600L/min
12	Machine Net Weight	260Kg
13	Exhaust Port Dimensions	Φ125mm
14	Machine Dimensions	L1060*W800mm*H1600mm