

# AUTOMATIC PCBA BRUSH CLEANING MACHINE



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## | Specifications



**Equipment model:**

AA-PCBA-8A Series

**Product Overview:**

Automatic PCBA Brush Cleaning Machine



## | Specifications

AA-PCBA-168A (Can be customized)	
Maximum width of PCB board	200mm
External Dimensions	(L1900*W780*H1150±20MM)
Coating roller size	φ95mm
Disc brush size	φ200mm
Spindle speed	0-500 rpm (infinitely variable)
Working Voltage:	220V 50HZ
Total power:	1 (KW)
Transmission speed:	0.05~1.8m/min (infinitely variable)

AA-PCBA-528A (Can be customized)	
Maximum width of PCB board:	500mm
External Dimensions	(L2300*W1080*H1150±20MM)
Coating roller size	φ95mm
Disc brush size	φ520mm
Spindle speed	0-500 rpm (infinitely variable)
Working Voltage:	220V 50HZ
Total power:	2.2 (KW)
Transmission speed:	0.05~1.8m/min (infinitely variable)

AA-PCBA-328A (Can be customized)	
Maximum width of PCB board:	300mm
External Dimensions	(L1900*W880*H1150±20MM)
Coating roller size	φ95mm
Disc brush size	φ320mm
Spindle speed	0-500 rpm (infinitely variable)
Working Voltage:	220V 50HZ
Total power:	2 (KW)
Transmission speed:	0.05~1.8m/min (infinitely variable)



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## | Product Features

**Transportation system:** new structural design and application of wear-resistant materials at the stress points greatly enhance the transportation load capacity and the service life of the rail.

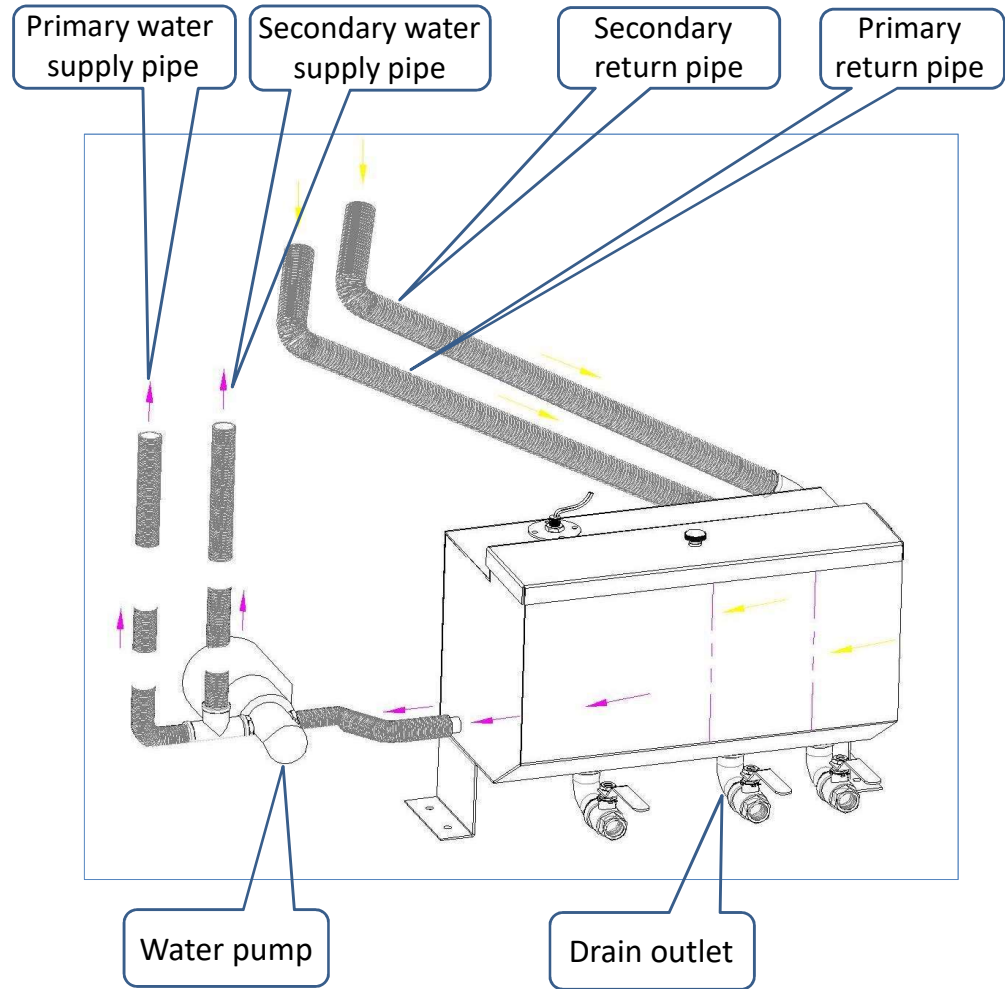
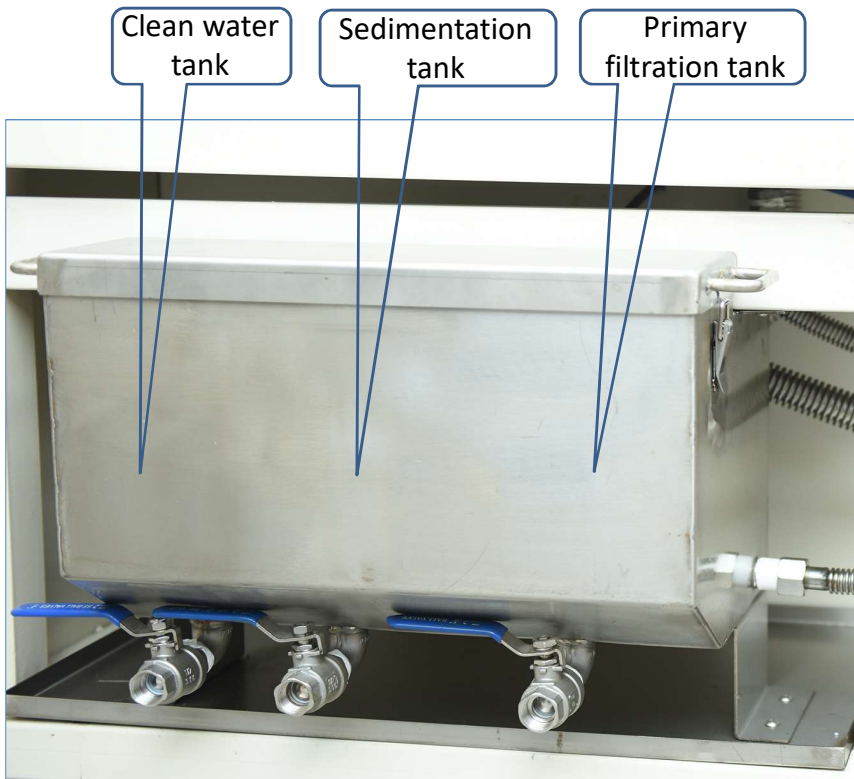
**Water supply system:** Optimize the mechanical design and program software in the cycle path of washing water to minimize the amount of washing water.

**Ventilation system:** A new air curtain ventilation system is adopted. Minimize the leakage of wash water odor.

**Brush performance:** the use of anti-static brushes, reasonable toughness of the brush, to ensure the best cleaning effect and the role of the PCBA board force

**Brush Height Adjustment:** Newly designed brush height adjustment structure, precise control of the brush and PCBA board contact strength and depth.

# Machine Principle



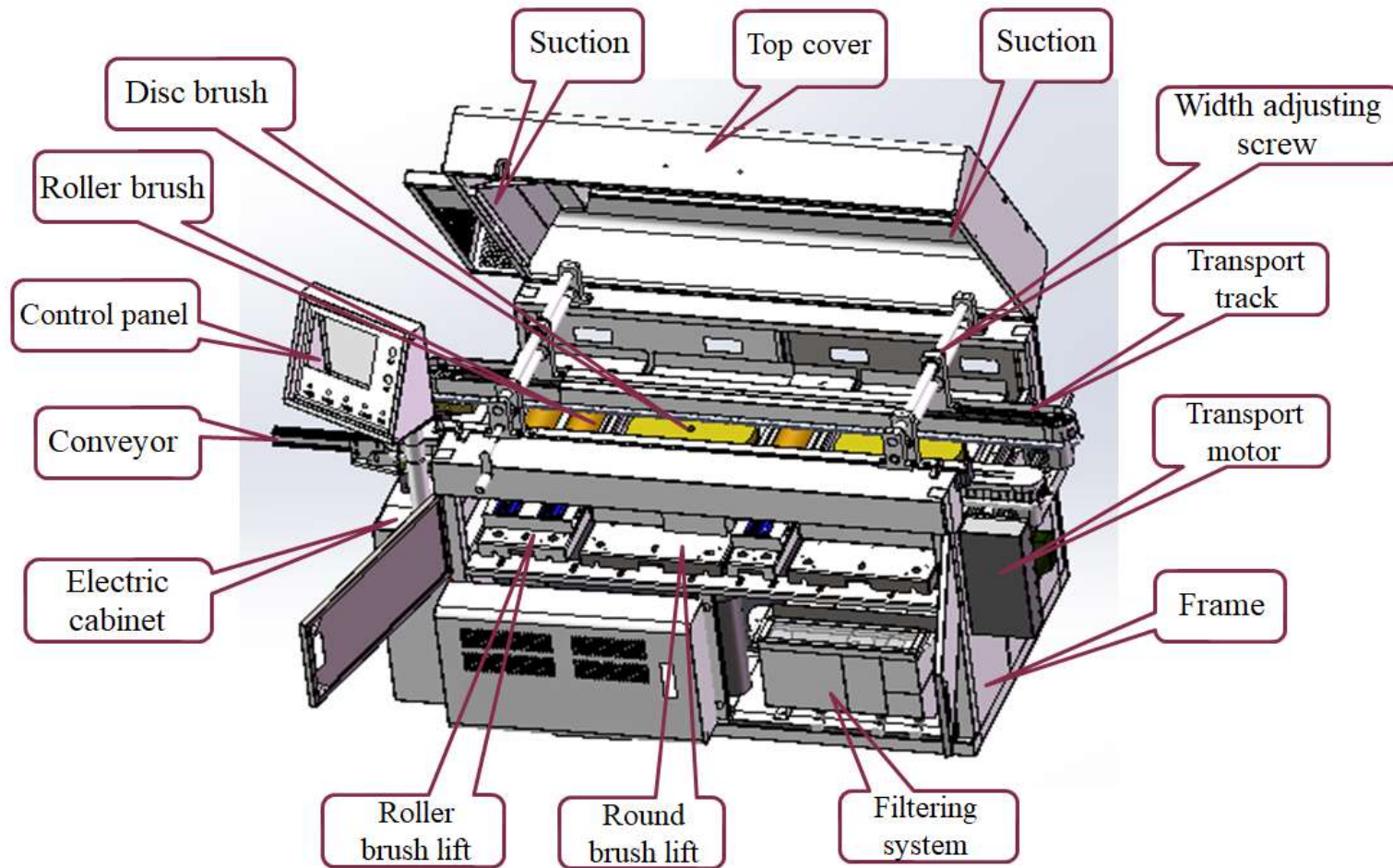
Cleaning tank → Liquid storage tank → Primary filtration tank →  
 Sedimentation tank → Liquid storage tank → Circulation pump →  
 Return to cleaning tank for repeated use



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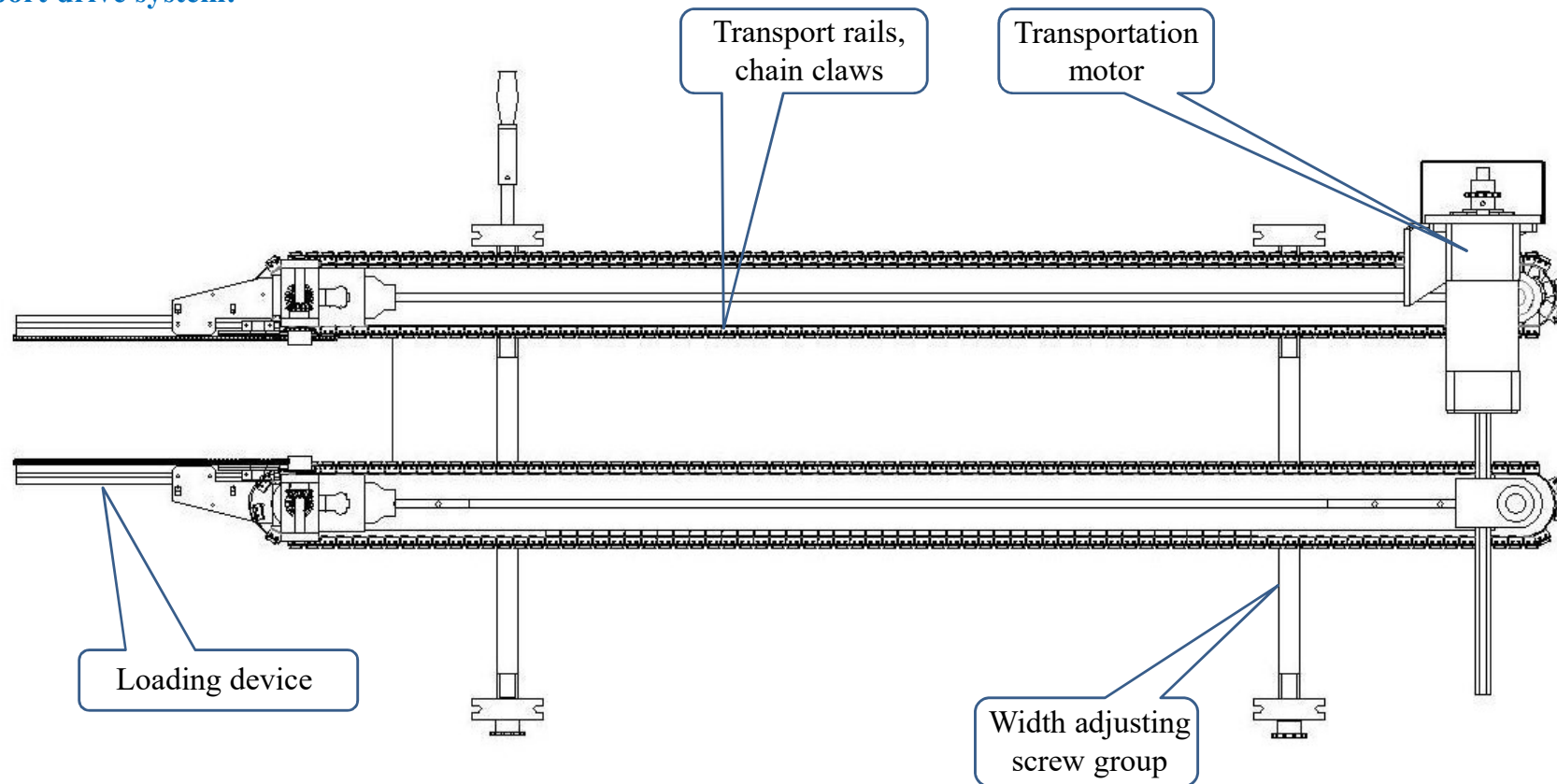
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## Machine Schematic



## | Machine Schematic

### Transport drive system:



There are two types of transportation systems: heavy-duty track and light-duty track.



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## | Machine Schematic

### Anti-static brush:



Dry Cleaning Anti-Static Brush

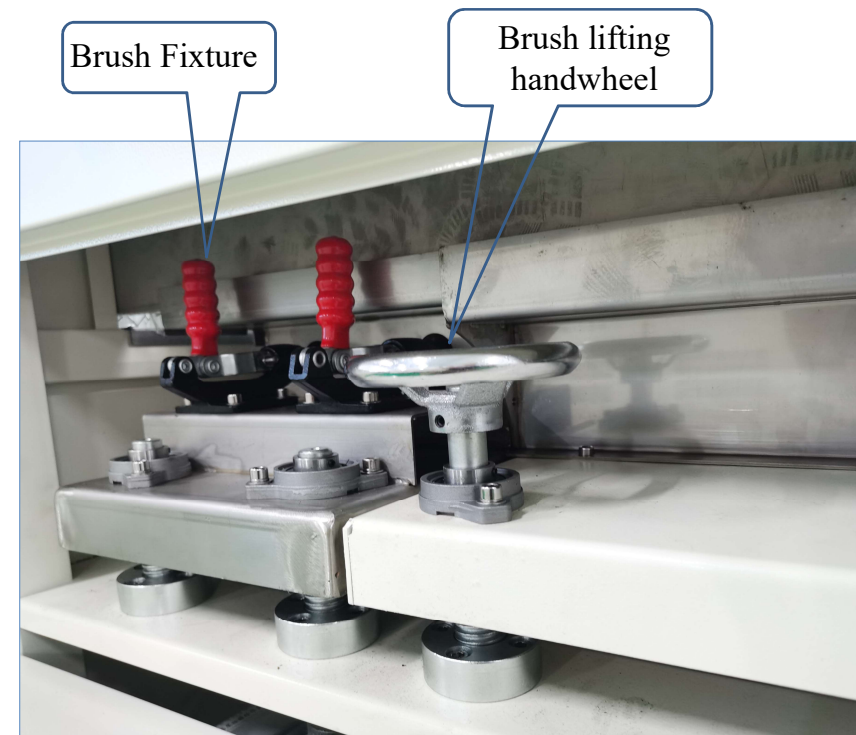
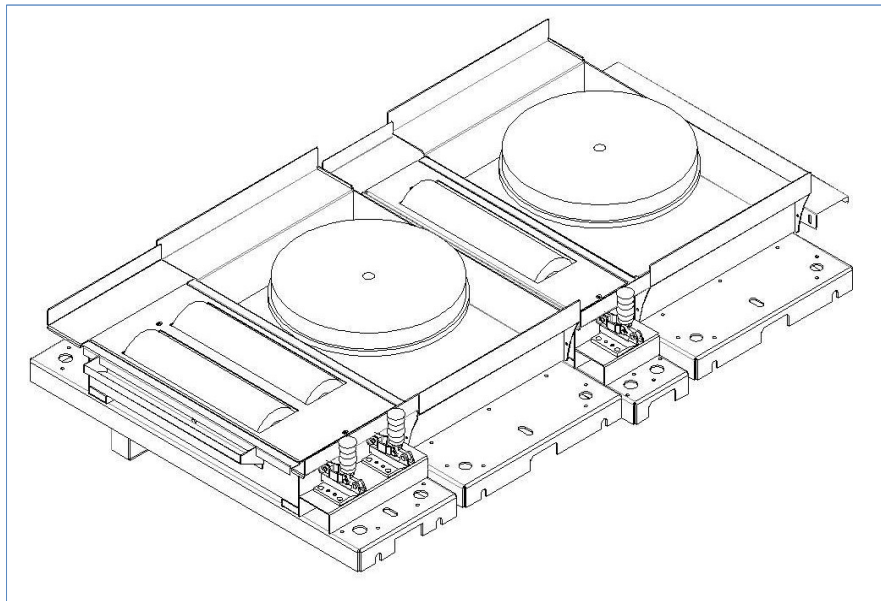


Wet cleaning Anti-static Brush



## Machine Schematic

Four-stage cleaning module



- Two wet brush rollers + a disc brush + a wet brush roller + a disc brush
- Cleaning solvent automatic coating system: to ensure that the PCBA board welding surface can be evenly coated with washboard water, does not affect the surface of other parts.
- Height and speed of cleaning brushes can be adjusted to meet different levels of cleaning needs.
- Ensure that PCBA boards are cleaned in all directions without dead ends.

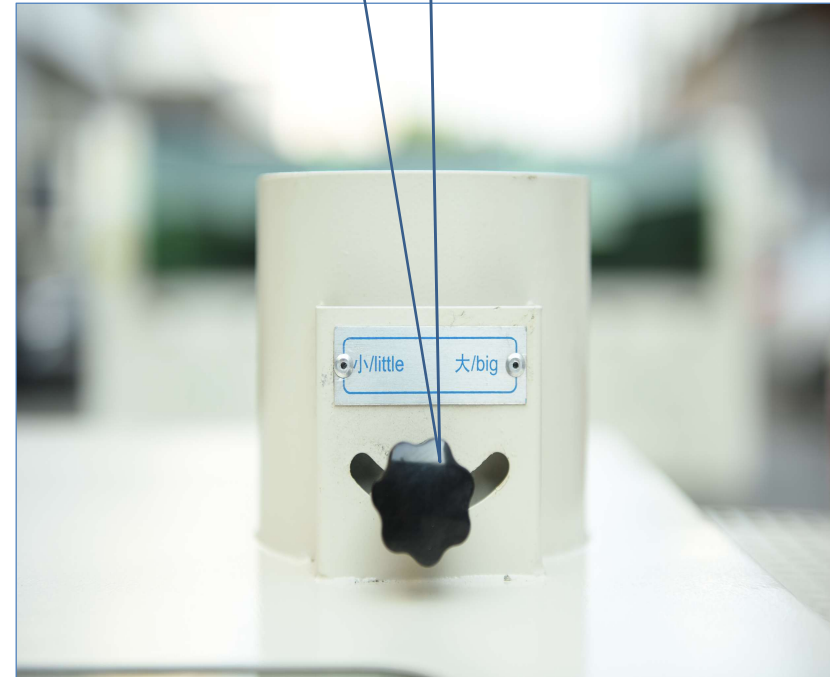
## | Machine Schematic

Suction module:

Suction duct



Air volume  
adjustment handle



## Machine Schematic

Air drying module:



The use of powerful fans, large air volume instant effect on the PCBA board, so that the product quickly drying.

# Machine Schematic

Control section:



Push-button control panel (optional)



Touch screen control panel



## | Cleaning Process

Put in pcba → First- brush cleaning → Second- circular scrubbing → Third- brush cleaning → Fourth- circular scrubbing → Air drying → Finish

Item	Process Name	Cleaning medium	Cleaning time	Cleaning method	Cleaning Tank	Remarks
1	Brush Cleaning	Solvent	As required	Roller Brush (Abrasive)	Special SUS	
3	Dry-Cleaning	---	As required	Disc Brush (Brown)	Special SUS	
4	Brush Cleaning	Solvent	As required	Roller Brush (Abrasive)	Special SUS	
5	Dry-Cleaning	---	As required	Disc Brush (Brown)	Special SUS	



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## | Machine



Button control



Touch screen control