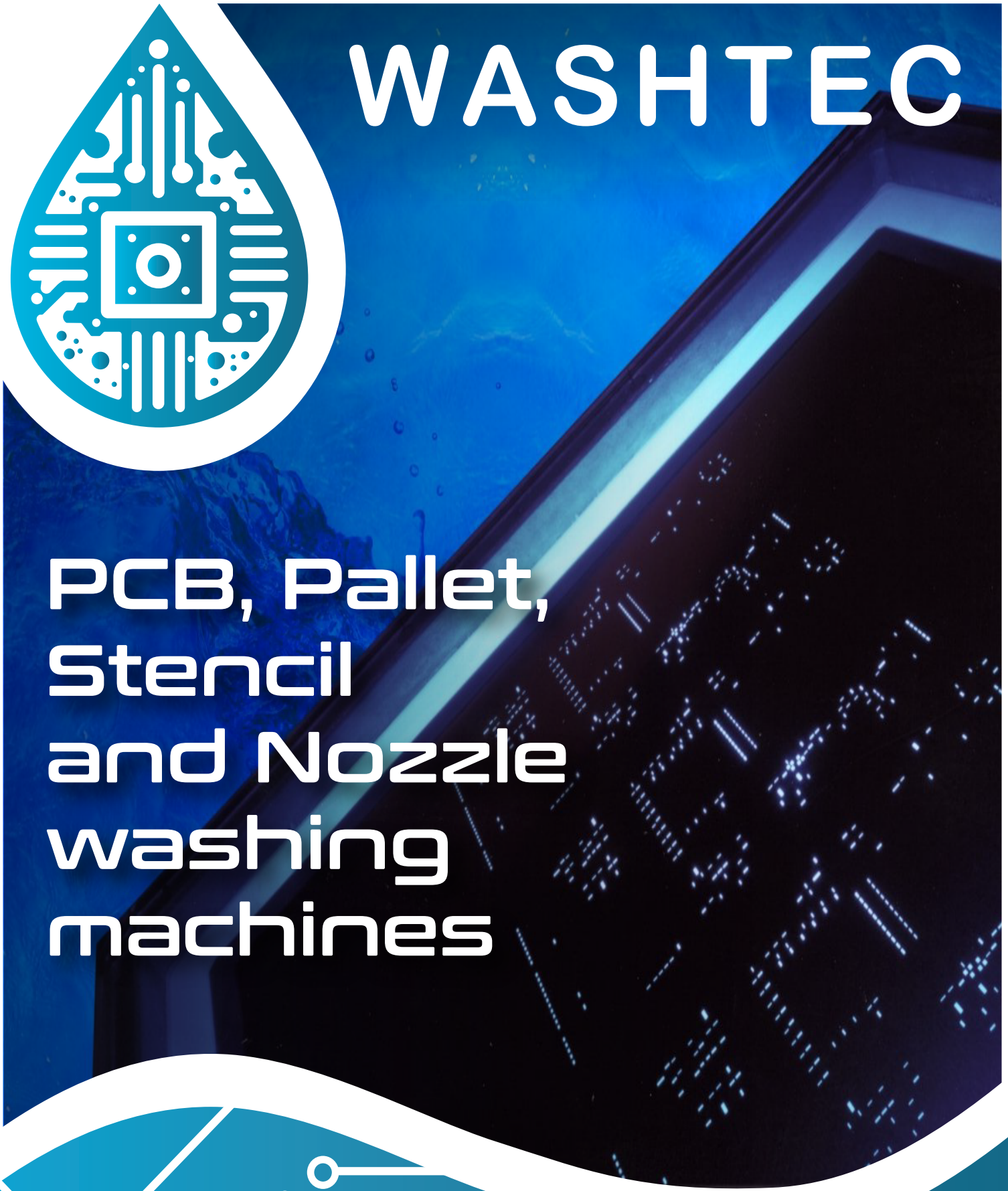
WASHTEC

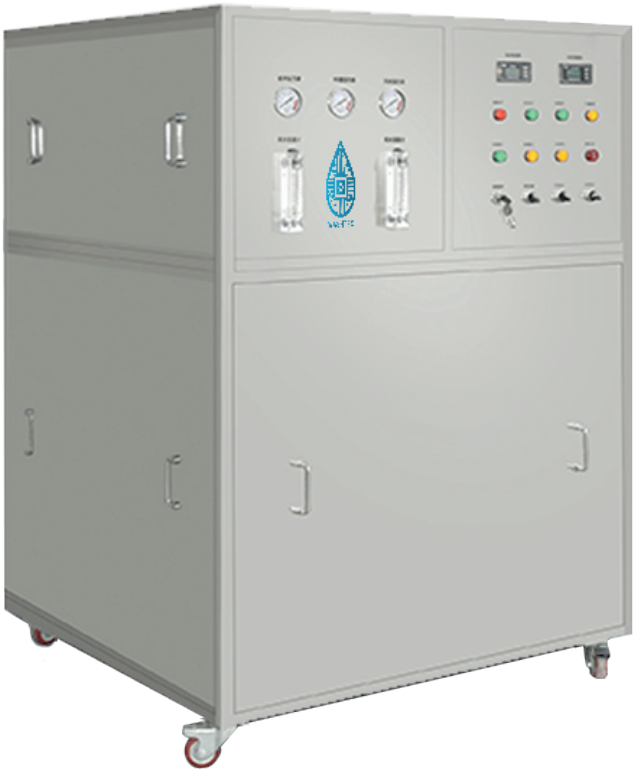


PCB, Pallet, Stencil and Nozzle washing machines

Made by:
MADigital

CONTENT

WT-DIW DI Water Machine



This machine has a small footprint, it can produce up to 250 liters of deionized water per hour. It has 3 main parts which are: Treatment, Reverse Osmosis, Resin bed.

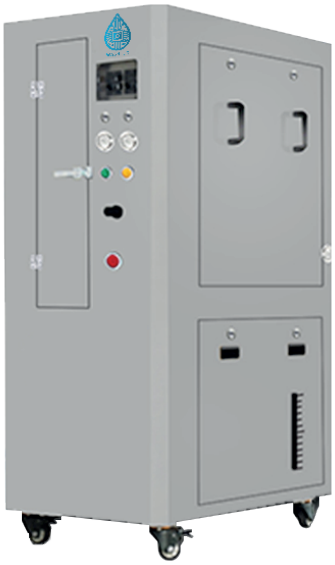
This deionized water can be used for PCB and tooling washing machines.

- The machine consist of quartz and filter, actived carbon filter, high pressure.
- RO&MB combination technology: the most advanced ultrapure water making process.
- The control system is fully automatic, and the quality of the output water is stable.
- Ultra low pressure reverse osmosis membrance components with low energy consumption and high water production.
- Fully enclosed integrated design, with a small footprint.

Electric requirements	220VAC, 50/60 Hz, 1phase
Machine size	1100 (Large) x 1100 (Wide) x 1600 (Height)
Machine weight	400 Kg
Tap water supply	1.5 T/Hr
DI water productivity	250 Lt/Hr
Water tank capacity	160 L
DI water resistivity	15 MOhms.
Carbon + sand capacity	25 Lt.
Soften resin	25 Lt.
RO Film	40 x 40, 1 pcs.
MB Resin	50 Lt.

WT-SPC

Pneumatic Stencil Cleaning Machine



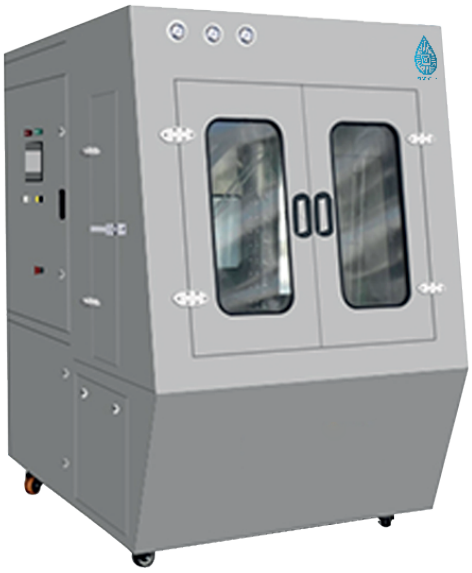
For the cleaning of SMT steel mesh, copper mesh, wire mesh, microporous mesh, crystal disc and other kinds of stencil in the electronic industry.

The equipment uses compressed air as energy source completely, does not use electricity, and there is no fire hazard. With humanized design and one key operation, it is easy to clean and dry; From cleaning to drying, It is a kind of high-performance pneumatic automatic cleaning equipment, which uses air pressure to operate automatically. Circulating use of cleaning fluid, low loss.

- All stainless steel body: beautiful, wear-resistant, corrosion-resistant, in line with environmental requirements and standards.
- All pneumatic operation, no electricity, no fire and other safety hazards.
- Side wall air inlet blow dry design.
- Humanized design: one key operation, automatic adding and discharging liquid function, easy to operate.
- Replaceable modular controller and fast plug-in design, maintenance is also very simple and convenient.
- Design of two-stage filter system, low air outlet and S-type exhaust pipe.
- High density, equal pressure, double side rotary cleaning nozzle, strong cleaning power, no damage to the tension of steel mesh.
- Systematic integration of global high-quality control devices to ensure excellent quality, stable performance and long service life.

Applicable steel mesh size	L740 × W740 × H40(mm) [oversized size to be customized]
Outline size	L980*W700*H1730 (mm)
Max. liquid tank volume	40 L
Optimum liquid usage	30 L
Cleaning method	360° rotary double side equal pressure spray roll high pressure spray (cleaning + drying)
Cleaning time	2-4min
Drying time	2-5min
External gas source	0.4～ 0.6 (Mpa)
Air consumption	400 ～600(L/Min)
Exhaust port size	Φ125×H25(mm)
Filtration system	Filtering impurities；filter solder paste and rosin particles
Net weight	200Kg

WT-SEC Electric Stencil Cleaning Machine



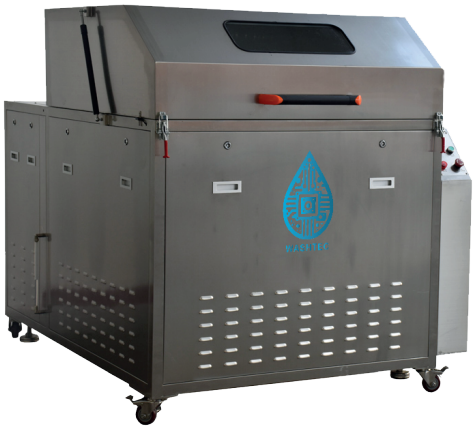
The water-based stencil cleaning machine is mainly aimed at SMT stencil cleaning in the electronic industry using water-based cleaning liquid. The machine consists of cleaning system, rinsing system, drying system and filtering system. The machine uses electricity and gas as its energy source, and manually puts the stencil into the cleaning room. After setting the cleaning, rinsing, drying and other related parameters by the touch screen, press the start button, and the mesh board will be automatically cleaned, rinsed and dried.

The machine is very convenient for operators to clean the stencil, greatly improving production efficiency and quality. The equipment uses water-based liquid or DI water as cleaning agent, without any potential safety hazards and harmless to personnel.

- High Pressure Spraying System for Cleaning Stencil with Water-based Cleaning Fluid
- Double liquid tank, equipped with heating system, implementation needs cleaning-rinsing-drying
- Cleaning process: cleaning - chemical isolation - rinsing (open loop/closed loop) - drying.
- Preparation of advanced automatic touch screen operating software, Program parameters can be saved, Easy to use.
- The counting function of the system can automatically accumulate the number of cleaning stencils and the number of circulating filters.
- Liquid and the pump pressure can be displayed through the panel pressure gauge, feedback the equipment running status in time.
- Integral stainless steel body, strong and durable, resistant to acid, alkali cleaning fluid, etc.
- Rinse water can be filtered by ion to achieve long time zero discharge.
- High-pressure fan + hot air drying, drying effect faster and thorough.
- Lower operating costs, only 50-120 ml of liquid is needed for each cleaning. After cleaning, compressed air is used to recover pipeline and pump residual liquid, which can reduce liquid consumption by 50%.

Dimension (mm)	L1600*W1160*H1920
Applicable stencil size (mm)	L740 *W740 * H40(max) Special size to be customized
Power supply	AC380V 50HZ
Total power	33KW
Gas source	0.4～0.7Mpa
Source of water	0.2～0.4Mpa
Exhaust port	Ø125
Cleaning/Rinsing liquid tank volume	60L*2PCS (max)
Optimum liquid usage	40L*2PCS
Cleaning fluid isolation time	40S
Clean time	3～8Min
Rinse time	3～10Min
Dry time	3～10Min
Cleaning and rinsing methods	Left and right movable high pressure liquid spray cleaning
Drying method	High pressure hot air shearing (optional super type)
Times of rinsing	1-99 times (settable)
Cleaning liquid recovery filtration	Filtration of 5 microns (filtering microorganisms: red gum and contaminants)
Rinsing liquid discharge filtration	Filtration of 5 microns (filtering microorganisms: red gum and contaminants)
Liquid heating temperature	Room Temperature to 60 C°
DI Water Supply	30～60L/min
DI Water Pressure	0.2--0.4Mpa
DI Water Access Connection Pipeline	3/4 inches
Noise	Less than 60 decibels
Net Machine Weight	500Kg

WT-PLTC Pallet Cleaning Machine

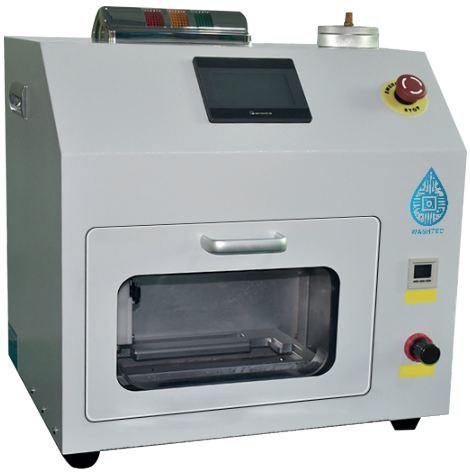


The equipment is suitable for all kinds of the outer surface of the workpiece cleaning, such as wave soldering pallet, reflow soldering tray, condenser cleaning, printing scraper, machine parts surface flux, oil contamination, dust etc. "Spray cleaning machine" uses the technology of high pressure spray cleaning, high pressure spray rinsing, high pressure air shearing and hot air drying of large flow fan in rotating basket to ensure the cleaning effect

- One button operation, Automatic completes the whole cleaning process, Auto add and drain clean/rinse liquid.
- Equipments running low energy consumption, low noise, no pollution, energy conservation and environmental protection.
- Machine with Cleaning, rinsing and drying function.
- HIM can setting add and drain liquid quantity, cleaning and rinsing times.
- The fixture surface is drying after clean, high cleaniness. It can be directly used in the follow-up process.
- Its effect is greatly improved compared with manual cleaning.
- Spray pressure adjustable, 720°degree rotation spraying, Cleaning without blind corner.
- High clean capacity, saving labor.
- Equipment with cleaning and rinsing real-time circulation filter system, Use double pump double liquid circuit design. The spray system in the airtight chamber. Improvement the utilization efficiency of the liquid, reduce the use cost.
- Machine nozzle pressure monitoring during cleaning process, to ensure the cleaning effect.
- Waste water treatment equipment can be configured to discharge waste water 0.
- The inner side of the cleaning chamber was treated with 0.1mm thick nanometer surface to avoid the residual water droplets in the chamber. The liquid loss is greatly reduced.
- Equipment with cleaning and rinsing real-time circulation filter system, Use double pump double liquid circuit design. The spray system in the airtight chamber. Improvement the utilization efficiency of the liquid, reduce the use cost.
- Prevent slide air spring, safe and reliable. Double sensors are installed on both sides of the upper cover to implement double safety devices.
- No need for defoaming agent, closed structure, foam can be returned to the water tank
- Stainless steel filter cleanable Optional.

Dimension	2000*1400*1500mm
Clean Basket diameter	1000mm
Part Max height	480mm
Basket loading	100 KG
Clean/Rinse pressure scope	3-6 KG
Clean/Rinse tank capacity	50L(liquid high level)
Total power	27KW
Rated power	18KW
Volt/Freq	380V/50HZ
Recommend clean agent	Water-based clean agent
Vent size	¢ 125mm
Blower flow	470m³/H
Equipment weight	530 KG

WT-NZC Nozzle Cleaning Machine



WT-NZC suction nozzle cleaning machine adopts multi nozzle spray cleaning method, uses hydrodynamics to break water and produce very small water mist. A powerful kinetic energy is formed by the sound speed and is sprayed on the suction nozzle to form a continuous energy field above the suction nozzle to be cleaned. Smash dirt on the surface and inside of suction nozzle.

The machine does not need any solvent and can be cleaned with industrial pure water.

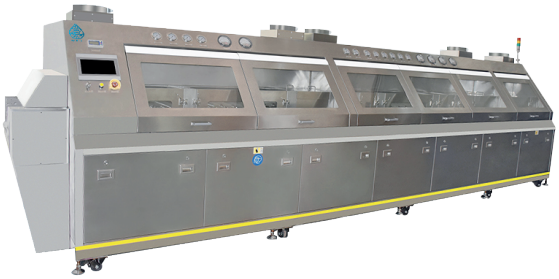
Cleaning: the machine is fully automatic and can clean 30 suction nozzles at a time. Different types of suction nozzles are equipped with different tool trays, and suction nozzles of any type of SMT machine can be cleaned. Compressed air will blow dry automatically after cleaning

Inspection: take out the fixture tray and put it on the special suction nozzle inspection device for inspection, and observe the real clean condition of the suction nozzle after cleaning.

- 30 suction nozzles are cleaned at a time, with short cleaning time and high efficiency.
- Instead of traditional manual cleaning, solve the problem of ultrasonic cleaning and reduce the phenomenon of chip throwing.
- Atomized water, supersonic spray cleaning, completely solve the dirt and impurities that cannot be cleaned by ultrasonic.
- It will not be unclean due to the smaller and smaller diameter of suction nozzle.
- More thorough cleaning, directly extend the life of suction nozzle, and the cleaning rate is more than 99%.
- Easy to operate, the interface can switch between Chinese and English.
- Never use cleaning agent, only clean with clean water or deionized water.
- Touch screen control interface, easy to understand operation.
- Suitable for all kinds of applicator nozzles, The cleaning effect of cross, I-shaped and special suction nozzle is more obvious.

Equipment size	L× W×H	440×500×530（mm）
Equipment weight	Quality	35KG
Cleaning liquid	Type of cleaning fluid	Industrial purified water
	Consumption	≤350CC/H
Use fluid	Gas source	2 compressed air
	Operating pressure range	0.5 - 0.65Mpa (When cleaning)
	Injection pressure	≤0.4Mpa
	Air consumption	≤280ml/min
Power Supply	Voltage	AC220V 50HZ
	Rated power consumption	Maximum 100W
Suction tray	Specifications	30 PCs

WT-IPCBA In-line PCBA Cleaning Machine



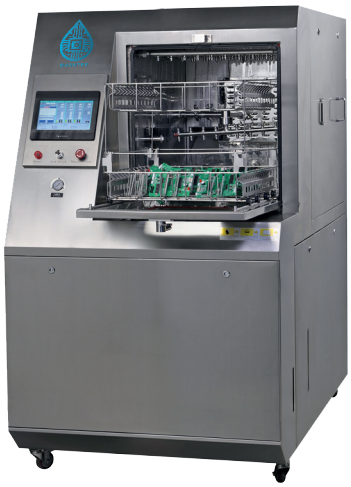
WT-IPCBA is a full-automatic online cleaning machine, which is suitable for flux residue cleaning of high-capacity PCBA, semiconductor and other products. There are many other options to meet the requirements of user optimization process and cost control.

The product has been used for daily cleaning of high reliability products such as military industry, instruments and meters, communication, medical treatment, automobile electronics, aviation and navigation, industry and semiconductor. WT-IPCBA has core technology and meets RoHS and halogen-free requirements of the electronics industry.

- Suitable for mass cleaning, complete the whole process of pure water cleaning and drying Online.
- Excellent cleaning effect, effective to water soluble flux, organic and inorganic pollutants.
- The whole cleaning process is fully automatic and complete without manual intervention.
- Real-time monitoring of the whole cleaning process, the cleaning parameters are clear at a glance.
- System capacity counting and off board induction system.
- Solid and durable integral stainless steel body, PPH pipeline (strong acid and alkali resistance, easier maintenance).
- Resistivity monitoring rinse DI water to ensure cleanliness.
- Unique design of rinsing overflow to save water consumption.
- Setting up automatic adding and discharging system is convenient and fast.
- Condensation recovery system is more efficient, including cooling generator to reduce the cost of liquid consumption.
- Energy saving and emission reduction control system can automatically identify whether products stop automatically and save energy consumption
- The cleaning box is equipped with PID temperature control system to ensure the best activity of the cleaning liquid.
- The water tank in the whole process section has the function of liquid level protection, alarming at low and high water levels
- Hot air for recycling, increasing the temperature inside the bellows and reducing energy consumption and emissions
- Drying temperature adjustable setting point can help protect temperature sensitive components
- The arrangement of the spray rod can match the future upgrade and process requirements to facilitate the subsequent more complex cleaning
- Customizable multi-channel transmission system
- The machine is equipped with indoor lighting to improve the identification of the process area.

Working speed	0.1-1.5m/min adjustable	Air supply	0.3-0.7Mpa
Height of conveying surface	850 - 950mm	DI water supply	≦0.25Mpa resistivity ≧15MΩ.cm
Width of conveying surface	600mm	Filter element	Cleaning liquid (10μm)
Transmission mode	Mesh belt conveyor (single layer)	Pure water consumption	10 -12L/min
Access board direction	Left in right out (viewed from the front of the machine)	Detergent consumption	3 - 4L/H
Pure water inlet diameter	1″	Exhaust volume	40M³/min
Air inlet diameter	Φ12mm PU air pipe	Air consumption	about 1M³/H (Use by pneumatic components)
Drainage outlet diameter	1.5 ″	Net weight of machine	About 2700KG
Vent diameter	10″ × 5PCS	Power consumption	About 52 KW/H
Power Supply	118KW AC380V 180A 50HZ Three phase five wire power supply	Maximum cleaning size	600mm (W) X400mm (L) X100mm (H)
Appearance dimension of equipment	6400mm (L) ×1750mm (W) ×1700mm (H)		

WT-OPCB PCB Cleaning Machine Offline



For surface cleaning of SMT PCB and PCBA in electronic industry, the most advanced cleaning technology in the industry is used to achieve 100% cleanness and environmental protection.

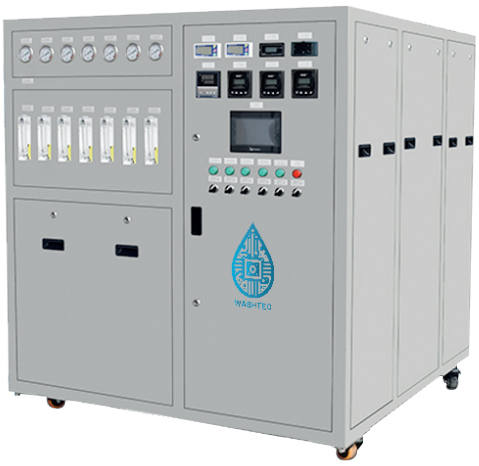
The machine is composed of cleaning system, rinsing system, fine rinsing, drying system and filtration system.

100% Close loop operation, Zero discharge. The equipment is rinsed with water-based liquid detergent and DI water, without any potential safety hazard and no harm to personnel.

- High pressure spray system for PCB / PCBA cleaning process with water-based detergent.
- Three liquid tanks equipped with heating system to meet the needs of cleaning, rough rinsing, fine rinsing and hot air drying.
- Process flow: Cleaning - chemical isolation - rinsing (open-loop / closed-loop) - drying.
- Advanced automatic touch screen operation software, program files can be saved and easy to use.
- The counting function of the system can automatically accumulate the number of cleaning PCB boards and the number of cycles of filtering.
- The liquid and pump pressure can be displayed by the panel pressure gauge to feed back the operation status of the equipment in time.
- Conductivity monitoring rinse liquid to ensure cleanliness, conductivity can be set to meet different PCB process requirements.
- Solid and durable overall stainless steel body; acid or alkaline detergent resistant.
- The rinsing method is overflow, and the water from the fine rinsing overflows to the rough rinsing tank without repeated pollution.
- High pressure fan + hot air drying, the drying effect is faster and thorough.
- Running cost more low, just consumption 80-120ml solvent for pre clean cycle. The residual liquid on pipeline and pump will direct recycle, could reduce 50% consumption.

Dimension (mm)	L1670*W1100*H1860
Power supply	Three phase380V (3 phase 5 cable)
Total Power	33KW
Current	50A
Air supply	0.4-0.6Mpa
Exhaust port	Ø125
Clean tank volume	42L
Pre-rinse tank volume	28L
Rinse tank volume	55L
Filter	0.2μm 10 inch
Clean basket	500*550*100MM (two layer)
Clean time	8-10Min
Clean method	Spray-Pre rinse- Rinse- hot-air drying
Control	PLC+Touch screen (One button start)

WT-STA Water Recycle Machine



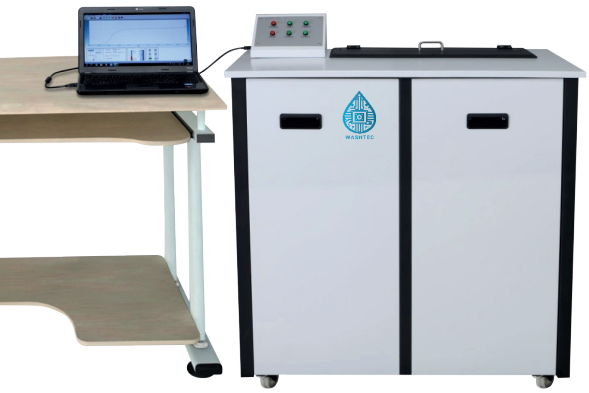
Aiming at the treatment of rinsing wastewater in flux cleaning process, it is used to remove the suspended solids, inorganic salt ions, residual chlorine and impurities in the wastewater, so as to realize the standard discharge or closed-loop recycling of water treatment.

- Small floor area: compact structure, beautiful appearance, all made of stainless steel body, solid and durable.
- Low operation cost: the technology process with low operation cost for wastewater treatment only consumes electricity and filter element.
- Full automatic operation: simple maintenance and operation, no need for special personnel to watch, automatic operation of the system.
- No chemicals needed: no chemicals added in the treatment process, physical treatment throughout the process, stable water quality.
- Ultra low pressure operation: no high pressure operation, no potential safety hazard in maintenance operation.

Water inflow	200L/H
Yield of concentrated water	60L/H
Return water output	140L/H
Pure water quality	Conductivity ≤ 30 μs/cm
Working water temperature	25 C°
Power consumption	200Kg

WT-10NCA

Pneumatic Stencil Cleaning Machine



The WT-10NCA is a high-quality ion contamination tester designed for mid-sized PCBs, PCBA, and semiconductor products.

It utilizes the ROSE method to accurately measure ionic contamination and calculates NaCl equivalent values with high-precision probes.

Compliant with industry standards like IPC-TM-650 and MIL-STD-2000A, the WT-10NCA ensures accurate and repeatable results for both bare and assembled boards. Its customizable test tank and dynamic/static testing options make it adaptable to various testing needs. With user-friendly software, a Windows-based interface, and support for multiple languages, the machine offers seamless data recording and reporting capabilities.

- All stainless steel body: beautiful, wear-resistant, corrosion-resistant, in line with environmental requirements and standards.
- All pneumatic operation, no electricity, no fire and other safety hazards.
- Side wall air inlet blow dry design.
- Humanized design: one key operation, automatic adding and discharging liquid function, easy to operate.
- Replaceable modular controller and fast plug-in design, maintenance is also very simple and convenient.
- Design of two-stage filter system, low air outlet and S-type exhaust pipe.
- High density, equal pressure, double side rotary cleaning nozzle, strong cleaning power, no damage to the tension of steel mesh.
- Systematic integration of global high-quality control devices to ensure excellent quality, stable performance and long service life.

Power supply	220VAC 50/60Hz
Machine dimensions	80 Kilograms
Weight	900 (Large) x 440 (Wide) x 1100 (Height) mm.
Test method	Static
Sensitivity	0.001us/cm.
Solution capacity	15 Liters
Sample size	480 x 400 x 45 mm.
Contamination test methode	IPC-TM-650.
Max operation temperature	45° C

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