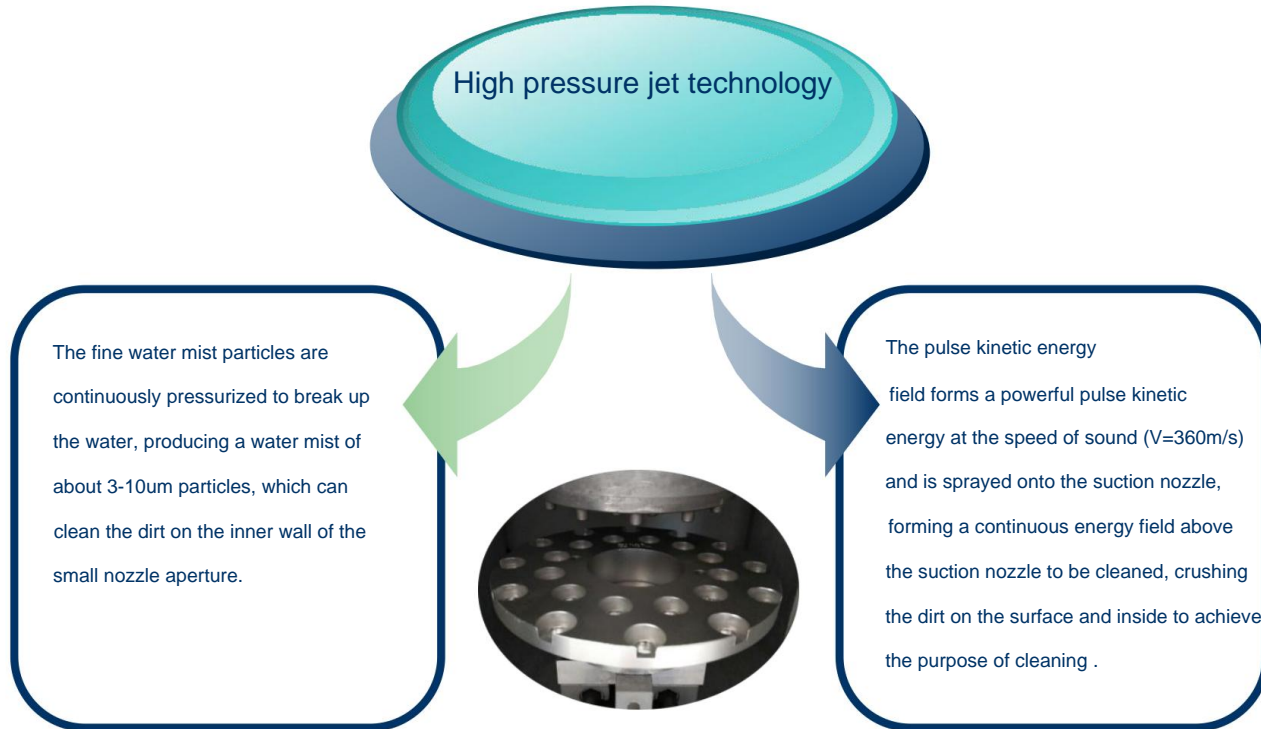


1. Introduction to intelligent cleaning machine

Frequent failures occur due to chip mounting and adsorption nozzles being contaminated with solder flux, which has a great impact on production and has become an urgent problem that needs to be solved. The automatic nozzle cleaning device NC32-A2 adopts a pulse cleaning method, which can remove dirt on the inner wall of the nozzle that could not be removed in a short time. It uses non-toxic and harmless industrial pure water (PH value 5-7 soft water). It will not damage the suction nozzle during cleaning and is beneficial to environmental protection.




2. Working principle

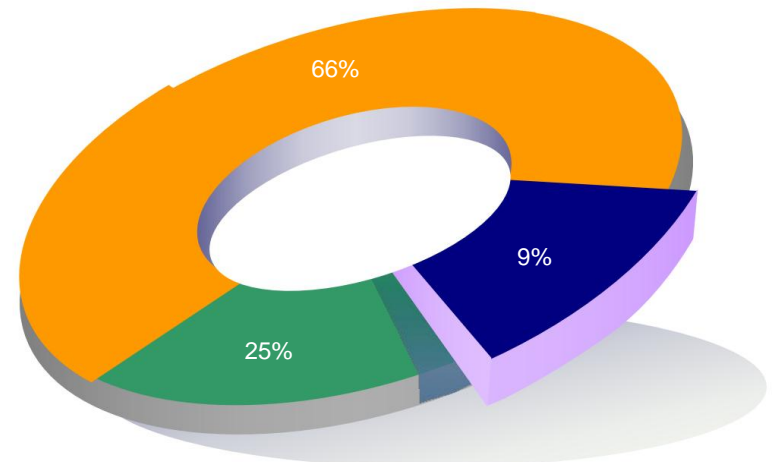


3. Problems with traditional cleaning methods

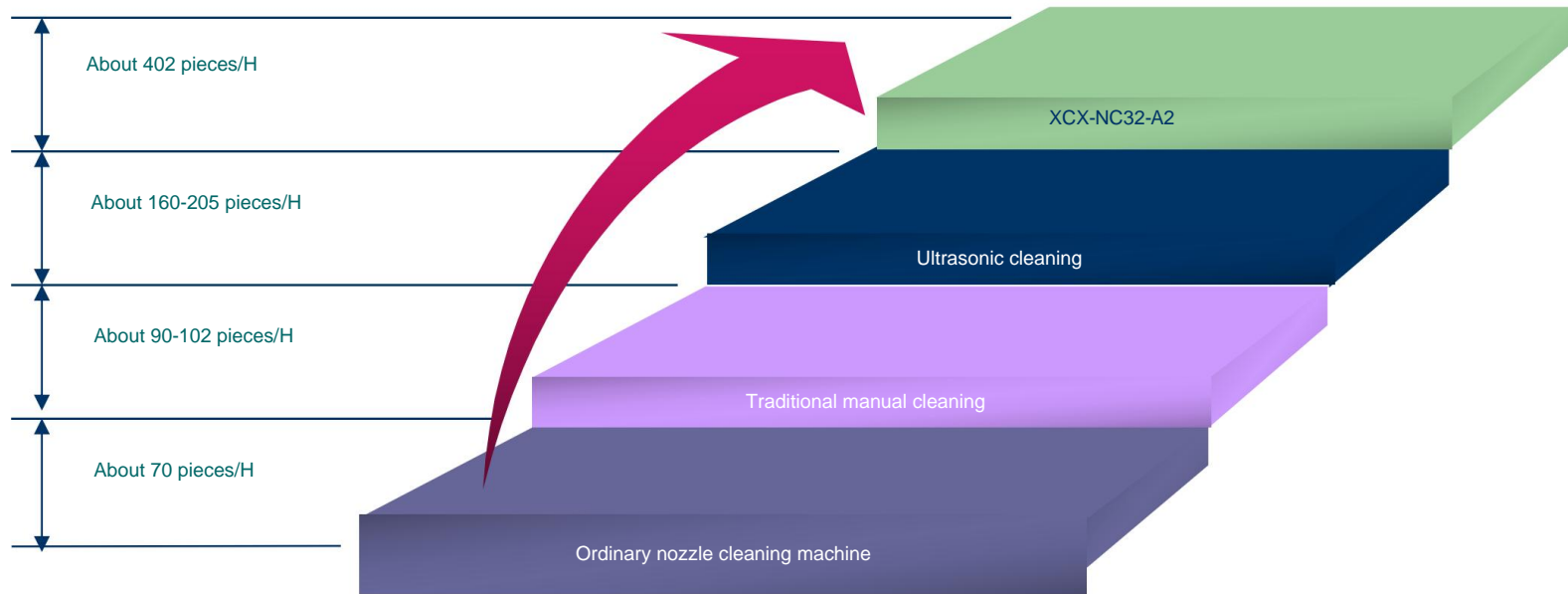
1. Difficult to completely remove the solder, flux, etc. adsorbed inside the nozzle hole with traditional cleaning methods.
2. The important black coating may peel off with cleaning.
3. May cause adverse effects on the reflector. (falls off or soaks into cleaning fluid)
4. The cleaning fluid IPA commonly used is harmful to the environment.
5. Difficult to control the cleaning frequency and cleaning time, and the cleaning effect cannot be guaranteed.

Cleaning examples other than nozzle cleaning machines
(obtained from industry questionnaires)

-  Ultrasonic cleaning
-  Manual cleaning
-  Water mist jet cleaning



4. Cleaning efficiency



Note: After communicating with SMT staff and practicing, and considering the actual situation, the above data can be roughly obtained for reference.

5. Comparison of effects before and after cleaning



强效的清洗方式

During the mounting process, the suction nozzle is particularly prone to sticking to solder paste and dirt. If no maintenance is performed for a long time, or if the cleaning is not thorough during maintenance, the solder paste and dirt will harden, making cleaning more difficult, and even lead to blockage and scrapping after a long period of accumulation.

It has been proven in practice that the NC32-A2 cleaning machine can effectively deal with stubborn dirt and thoroughly clean nozzles with complex structures.

6. Technical parameters

name	parameter	name	Parameters Parameters
size	540 x570 x530	Model	NC32-A2
weight	62KG	Nozzle specifications	0201-2125
air pressure	0.5-0.6Mpa	Pallet specification	32 bits
Air consumption	below 280NL/min	Rated power	200W
Cleaning liquid	industrial pure water	Rated voltage (optional)	AC110V AC220V
Water tank capacity	High capacity 1.5L	Cleaning time	200 seconds/time
Display function	Touch screen, digital pressure gauge Pointer pressure gauge	Drive motor	86 high precision stepper motor
Liquid level detection	high and low water level alarm	Start mode	soft start protects motor bearings
Interface login	administrator password login	Safeguard	Highly sensitive leakage protection switch Safety door, emergency stop switch
certified product	3C, CE certification	Material	All parts in contact with water are made of high quality SUS-304 material
Alarm mode	Sound and light alarm, interface prompts	wastewater collection	outlets