



Automatic suction nozzle cleaning machine with 30 nozzle capacity, industrial pure water cleaning, and touch screen control for SMT nozzle maintenance

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: GS
- Minimum Order Quantity: 1 PCS
- Price: USD+negotiable+pcs
- Packaging Details: 550*600*600mm
- Delivery Time: 1-7 days
- Payment Terms: T/T
- Supply Ability: 1+pcs+per days



Product Specification

- Equipment Size: 440×500 ×530 (mm)
- Equipment Weight: 35KG
- Cleaning Fluid Type: Industrial Pure Water
- Cleaning Liquid Consumption: ≤100ml/min
- Use Fluid - Air Source: Compressed Air
- Operating Pressure Range: 0.5-0.65Mpa (when Cleaning)
- Injection Pressure: ≤0.4Mpa
- Air Consumption: 500NL/min Or Less
- Voltage: AC220V 50HZ
- Rated Power Consumption: Maximum 100W
- Suction Tray Size: 30
- Condition: New
- Highlight: **industrial smt nozzle cleaner,**
industrial smt ultrasonic cleaner

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Product Description

Automatic Suction Nozzle Cleaning Machine

Advanced Cleaning Technology

Our automatic nozzle cleaning machine utilizes multi-nozzle jet cleaning technology with fluid mechanics principles to break water into fine mist particles. These particles are sprayed at supersonic speeds to create continuous energy fields that effectively crush and remove surface and internal dirt from nozzles. The system operates without solvents, using only industrial pure water for environmentally friendly cleaning.

Efficient Cleaning Process

Each cleaning cycle processes 30 nozzles simultaneously. Different nozzle types are accommodated with specialized fixture trays, ensuring compatibility with any placement machine nozzle. The automated process includes compressed air drying after cleaning for immediate readiness.

Quality Verification

After cleaning, fixture trays can be transferred to our specialized nozzle inspection device for verification. This allows direct observation of cleaning effectiveness and ensures nozzle cleanliness meets production standards.

Key Features & Benefits

- High-efficiency cleaning of 30 nozzles simultaneously with short cycle times
- Replaces traditional manual cleaning and resolves ultrasonic cleaning limitations
- Atomized water supersonic jet technology thoroughly cleans dirt impurities
- Prevents nozzle aperture reduction during cleaning process
- Extends nozzle lifespan with cleaning efficiency exceeding 99%
- User-friendly interface with Chinese/English language switching
- Environmentally conscious operation using only pure water or deionized water
- Intuitive touch screen control panel for straightforward operation
- Compatible with all placement machine nozzles, particularly effective for cruciform, I-shaped, and shaped nozzles

Working Principle

High Pressure Jet Technology

Generates fine water mist particles measuring 3-10 μ m, capable of cleaning dirt from the inner walls of small nozzle apertures through continuous pressure application.

Pulse Power System

Creates powerful pulse power jets at supersonic speeds ($V=360\text{m/s}$) with frequencies reaching 30 pulses per second. This sustained impact effectively crushes surface and internal contaminants for comprehensive cleaning.

Cleaning Method Comparison

Traditional Manual Cleaning

- Low efficiency with inability to clean nozzle surfaces and tube cavities thoroughly
- Risk of inner hole damage from wire poking during cleaning
- Inconsistent cleaning results
- Potential solvent penetration causing reflector detachment

Ultrasonic Cleaning Limitations

- Although cost-effective, causes collisions between nozzles leading to surface coating damage
- Cleaning liquids damage nozzle surface coatings, reducing lifespan
- Incomplete cleaning of nozzle surfaces and tube cavities
- Ineffective for 01005 nozzles due to vacuum bubble retention in small apertures

Automatic Nozzle Cleaning Machine Advantages

- Reduces nozzle acquisition costs by extending service life
- Minimizes labor requirements through fully automated operation
- Significantly reduces product defect rates and improves SMT productivity
- Maintains nozzles in optimal condition, preventing throwing or mounting displacement issues
- Eliminates poor welding results caused by dirty nozzle surfaces and inner cavities

Automatic suction nozzle cleaning machine | GSSMT, Nozzle cleaning machine, Automatic nozzle cleaner, SMT nozzle cleaning, Ultrasonic nozzle cleaner, Vacuum nozzle cleaning, Nozzle maintenance equipment, Automated cleaning systems, Industrial nozzle cleaning, Solder paste removal machine, Pick and place nozzle cleaner, High-pressure nozzle cleaning, Nozzle cleaning technology, Electronics manufacturing cleaning solutions, Automatic cleaning equipment for nozzles, Cleaning machines for SMT nozzles, Nozzle cleaning process automation, Purified water nozzle cleaner, Nozzle holder cleaning system, Cleaning efficiency for nozzles, Nozzle contamination prevention



 +8613728696610  liyi@gs-smt.com  smtmachinepart.com

Room F3B-016, B Block, Hao Yun Lai Bussiness Building, Liutang road , Bao'an District , Shenzhen, China