

STENCIL CLEANER : AC-W02

Key Specifications & Features

**AMS
NEW PRODUCT**

STENCIL CLEANER : NEW AC-W02

Key Specifications & Information

1

**NEW
AC-W02
Introduction**

2

**Cleaning
Method
Comparison**

3

**NEW AC-W02
Control System**

NEW AC-W02

AC-W02 is an automated equipment which has capability to clean PCB boards, metal masks, & any materials that requires cleaning during SMD process. AC-W02 uses mainly air as power supply for cleaning operation instead of using electricity. This automated equipment is safe, environmental friendly and performs precision cleaning.

Auto
Cleaner

ADVANTAGES

Increased quality of cleaning performance

Environmental friendly due to usage of air for cleaning operation

Minimal usage of cleaning solution & reduction of cleaning solution costs

Substantial cleaning time cycle & labor reduction

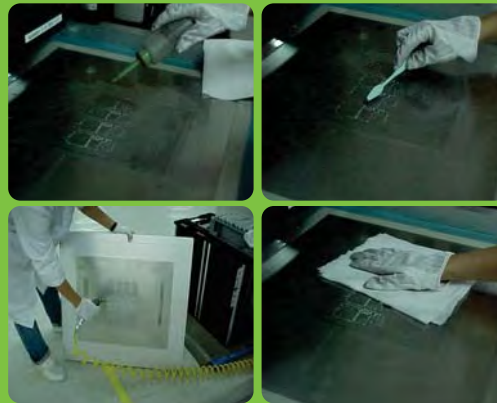
Minimal production of hazardous waste material

Elimination of dangers and accidents caused by chemical leakage, electric shortage, & fire.

2-1. METAL MASK Cleaning Method Comparison

NEW AC-W02 METHOD

CONVENTIONAL METHOD



- Exposure of hazardous chemicals to operators
- Environment contamination
- Poor cleaning quality
- Longer cleaning time & more labor
- More chemical waste removal needed



- Uniform & high quality surface cleaning
- Elimination of exposure of hazardous chemicals to operators
- Elimination of fire caused by flammable chemical leakage & electric shortage.
- Minimal loss of cleaning chemical for increased amount usage
- Easy cleaning chemical management

COMPARISON & NOTES

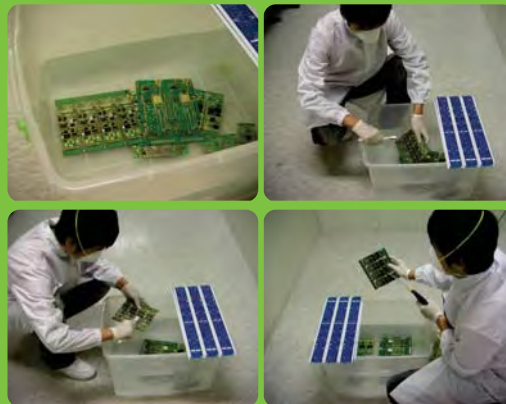
2-2. PCB Cleaning Method Comparison

AMS

AUTOMATION, SMT & LEAN MANUFACTURING

SMD SERIES CLEANING METHOD

CONVENTIONAL METHOD



- Exposure of hazardous chemicals to operators
- Environment contamination
- Poor cleaning quality
- Longer cleaning time & more labor
- More chemical waste removal needed



- Stability of PCB board due to secured fastening system
- Performs cleaning of multiple PCB boards simultaneously
- Uniform & high quality surface cleaning
- Elimination of exposure of hazardous chemicals to operators
- Elimination fire caused by flammable chemical leakage & electric shortage.
- Minimal loss of cleaning chemical for increased amount usage
- Easy cleaning chemical management

COMPARISON & NOTES

2-3. Cleaning Machine Comparison

AMS

AUTOMATION, SMT & LEAN MANUFACTURING

ULTRASOUND TYPE (Electricity Driven + Dipping Method)



- Vulnerable to frequent system failures due to long cleaning time cycle and high temperature of the machine
- Large consumption of cleaning chemicals due to application of dipping method
- High risk of electrical component failures and reduced performance due to high vibration of the machine
- High maintenance & replacement cost
- Inconsistent end results
- Frequent replacement of the cleaning chemicals.

NEW AC-W02 (Air Driven + Rotation / Spray Method)



- Uniform & consistent surface cleaning
- Less cleaning chemical consumption
- Less mechanical & electrical failure
- Low maintenance cost
- Easy installation and operation
- Advantage of durability characteristic of analog system
- Less vibration and secured fastening to the material being cleaned.

COMPARISON & NOTES

3-1. NEW AC-W02 CONTROL SYSTEM OVERVIEW

Contrast to similar machines in the market today, **AC-W02** uses air as main power supply for cleaning operation. AC-W02 is an analog module system which replaces normal components like PLC/RELAY/SWITCH/SENSOR/TIMER/LAMP to a more efficient and cost effective components developed by Donghwan.

AC-W02 is equipped with DOOR SENSOR/EMERGENCY STOP BUTTON/BUZZER LIGHT/DUEL DOOR ACCESS/ CYCLE COUNTER for assurance of safety of the work environment and for the operators.

NEW AC-W02 KEY SPECIFICATIONS

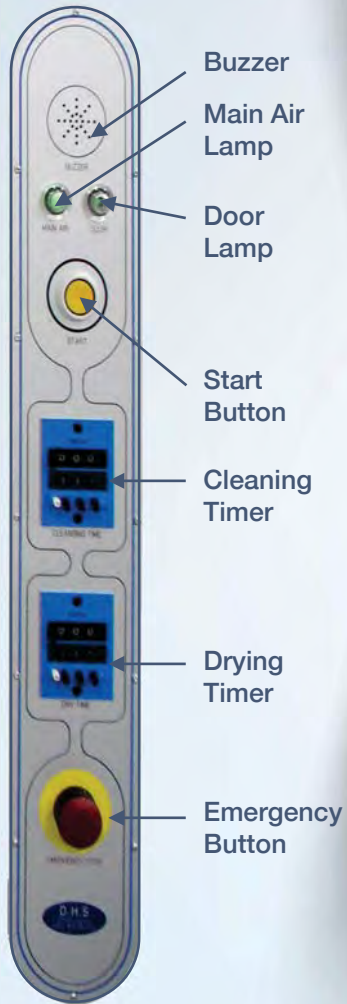
OVERALL DIMENSTION	685.5(W) × 940(L) × 1868(H)mm + 150(VENTILATION)mm
CLEANING SYSTEM	FLOW (CLEANING SOLUTION DISPERSION + AIR DISPERSION) TECHNOLOGY
FRAME DIMENSION	740mm × 740mm × 30mm (MAX.)
TANK CAPACITY	50ℓ(MAX)
FILTERING SYSTEM	DUEL FILTERING = 1 ST . STAGE FILTER : 200 MICRON / 2 ND . STAGE FILTER :1 MICRON
VENTILATION DUCT	∅150 / 1 EA.
MAIN STRUCTURE MATERIALS	PP PANEL(SIMONA), STEEL & ALUMINUM
WEIGHT	350kg(EXCLUDING THE CLEANING SOLUTION)
AIR SUPPLY PRESSURE	6kgf/cm ² ~ 7kgf/cm ² 1800ℓ/MIN ~ 2600ℓ/MAX

3-2. NEW AC-W02 CONTROL SYSTEM PROCESS



AUTOMATION, SMT & LEAN MANUFACTURING

CONTROL UNIT



CLEANING PROCESS FLOWCHART

