



540L Ultrasonic Cleaning Machine 28/40 KHz For Automotive And Aerospace Industry

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: SkyMen
- Certification: CE FCC ROHS ISO9001
- Model Number: JP-1108ST
- Minimum Order Quantity: 1
- Price: Negotiation
- Packaging Details: Wooden case
- Delivery Time: 15-20 working days
- Payment Terms: T/T
- Supply Ability: 800 units per month



Product Specification

- Highlight: Aerospace Ultrasonic Cleaning Machine,
540L Ultrasonic Cleaning Machine,
Automotive Ultrasonic Cleaning Machine



Product Description

Specification

Model	JP-1108ST
Tank Volume	540L
Tank Material	Stainless Steel 304 (2mm thickness)
Inner Tank Size	1000*900*600mm(L*W*H)
Frequency	28 / 40KHz for option
Transducers	108pcs
Ultrasonic Power	0~5400W (0~100% adjustable)
Heating Power	18KW
Heating Temp	20-95°C adjustable
Timer	1-99 hours adjustable
Power Supply	3PH 380V, 50Hz,
Warranty	1 year and technical support for life

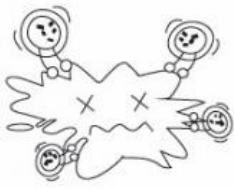
Images



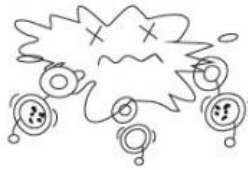
How does Ultrasonic Cleaner work?

DIRT ELIMINATION PROCESS THROUGH ULTRASONIC TECHNOLOGY

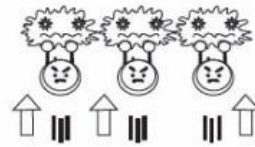
- Cleaning effect will be much better if using the machine together with proper solvent.



As ultrasonic wave through the solution in the tank, cause alternating high and low pressures in the solution.



During the low pressure stage, millions of microscopic bubbles form and grow. This process is called "CAVITATION".



During the high pressure stage, the bubbles implode releasing enormous amounts of energy. They work in all directions, attacking surface and invading all recesses and openings.

Features of Skymen Ultrasonic Cleaner

Ultrasonic Transducers – Generates high-frequency sound waves (typically 28/40 kHz for option) to create microscopic bubbles (cavitation) that clean surfaces thoroughly.

Heating Element – Includes a heater to warm the cleaning solution, 20-95°C adjustable, improving cleaning efficiency, especially for greasy or stubborn contaminants.

Timer Control – Allows users to set cleaning durations (usually 1–99 hours) for optimal results without overexposing items.

Stainless Steel Tank – Skymen ultrasonic cleaners have a durable, corrosion-resistant tank to hold cleaning solutions and withstand long-term use.

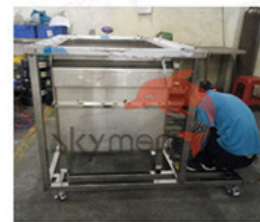
PRODUCTION PROCESS



1 Raw Material



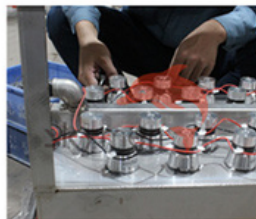
2 Board Cutting



3 Tank Welding



4 Transducer Installation



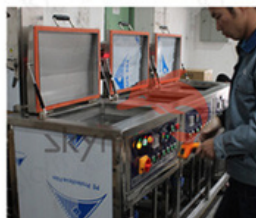
5 Skymen Transducer Wiring



6 Tank Polishing



7 Assembling



8 Age Testing



9 Skymen Factory Shipping

Application Fields

Ultrasonic cleaning machines are widely used across various industries due to their ability to clean delicate, complex, and heavily soiled items efficiently. Here are some key application fields:

1. Medical & Healthcare

Surgical instruments (forceps, scalpels, scissors)

Dental tools (drills, implants, prosthetics)

Laboratory equipment (glassware, pipettes)

Endoscopes and biopsy tools

2. Automotive & Aerospace

Engine parts (fuel injectors, carburetors)

Brake components

Turbine blades

Aircraft hydraulic systems

3. Electronics & Semiconductors

Printed Circuit Boards (PCBs)

Wafer cleaning in semiconductor manufacturing

Connectors and switches

Optical lenses and sensors

4. Jewelry & Watchmaking

Removing dirt, grease, and polishing residues

Cleaning intricate designs in rings, chains, and watches

5. Manufacturing & Metalworking

Machined parts (gears, bearings)

Removing cutting oils and metal shavings

Wire drawing and extrusion dies

6. Optics & Precision Instruments

Camera lenses, mirrors, and prisms

Laser components

Microscopes and telescopes

7. Printing Industry

Cleaning printing rollers, plates, and screens

Removing ink residues

8. Food & Beverage Industry

Bottle and container cleaning

Conveyor belts and processing equipment

9. Firearms & Defense

Gun barrels, bolts, and small firearm components

Military equipment maintenance

10. Renewable Energy (Solar & Wind)

Cleaning photovoltaic panels

Wind turbine components

11. Art Restoration & Conservation

Delicate cleaning of historical artifacts, coins, and sculptures

12. Pharmaceutical & Biotechnology

Cleaning lab glassware and bioreactors

Sterilization of equipment



Remove Oil



Remove Rust



Remove Dust



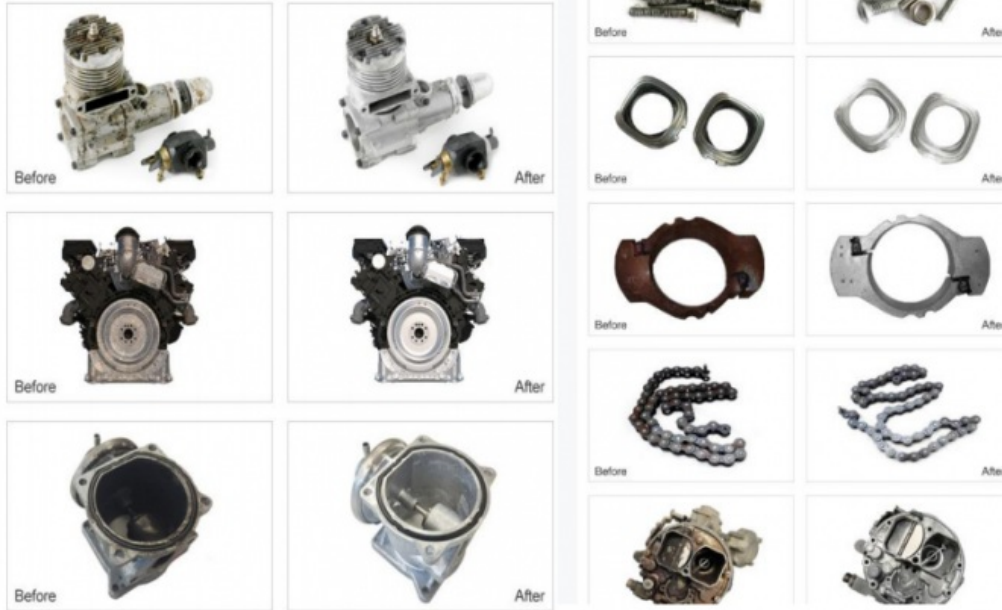
Remove Paint



Remove Rosin

Cleaning Effect

Before & After Cleaning Comparison



After-sales Service:

For all Skymen products, we provide:

1. test at least 2 days before out of factory,
2. take photos for you confirm all the details
3. 1 year warranty and lifetime technical supports, free parts will be sent for any quality problems during warranty time.

COMPANY STRENGTH

Skymen is a leading manufacturer and national high-tech enterprise, was founded in 2007. There are 2 factories of Skymen, one is located in Shenzhen, closed to HongKong. And the other is located in Shaoguan, Guangdong province, China. Over the years, we have been focusing on the research and development of ultrasonic equipment and cleaning solutions, with more than 350 employees and a factory area of 39,000 square meters.



COOPERATED CUSTOMERS



SKYMEN CERTIFICATIONS



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