

## Vacuum Hydrocarbon Ultrasonic Cleaning Equipment

Our Product Introduction

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### Basic Information

- Place of Origin: Shenzhen, China
- Brand Name: SkyMen
- Certification: RoHS, CE, FCC, SGS
- Model Number: JTM-3024
- Minimum Order Quantity: 1
- Price: Negotiation
- Packaging Details: Wooden Case
- Delivery Time: In Stock
- Payment Terms: T/T
- Supply Ability: 100 pcs per month



### Product Specification

- Model: JTM-3024
- Working Way: Automatic/Manual
- Cleaning Solution: Hydrocarbon
- Cooling System: Yes
- 1st Tank: Ultrasonic Cleaning
- 2nd Tank: Steam Cleaning
- 3rd: Drying
- Hydrocarbon Recycle: Yes
- Highlight: **Vacuum Hydrocarbon Ultrasonic Cleaning Equipment**, FCC Ultrasonic Cleaning Equipment



### More Images



## Product Description

### Automatic Vacuum Hydrocarbon Ultrasonic Cleaning Equipment For Precision Parts With Centrifugal Pump And Cooling System



#### Equipment Overview

This equipment is mainly composed of:

1st tank: Ultrasonic Cleaning + Filter + cooling system

2nd tank: Steam cleaning

3rd tank: Drying

#### Equipment advantages of Hydrocarbon Ultrasonic cleaning machine

1. Zero-emission environmentally friendly cleaning machine;
2. Generally, the liquid contains a certain amount of air under normal pressure. The liquid is blocked by air in the ultrasonic wave and affects the cleaning effect. The degassing system solves the problem of separating the air from the liquid in the liquid and inserts the slits, blind holes, and pores on the workpiece. The air is removed, so that the liquid is ultrasonically cleaned in an air-free state, that is, in a degassing state, which has a double effect and greatly improves the cleanliness;
3. The carbohydrate solvent and steam extracted from the vacuum tank and the drying tank are refrigerated and recovered in the gas-liquid separator, with no gas emission, safe and reliable.
4. Waterless cleaning process, the advantages are: the degreasing effect is currently the best cleaning, power saving, long-term recycling, zero emission, and meeting environmental protection requirements.

#### Product Specification:

1	Model	JTM-3024	
2	1st Chamber	Function	Ultrasonic cleaning + Filter+ cooling system
		Ultrasonic Frequency	28/40kHz (other frequency can be customized)
		Tank Material	SUS 304 (SUS 316 can be customized)
		Thickness of tank	2mm
		Inner tank dimension	1000*600*600mm
		Tank Capacity	360L
		Cleaning solution	Hydrocarbon
		Transducer	72pcs
		Ultrasonic Power	3600W
		Heating Power	9000W
		Time setting of Ultrasonic	0~99 hours
		Temperature setting	Room temperature ~ 95°C adjustable
		Drain value	Yes
		Water inlet/outlet	Yes
		Filter	1 set, connect with 1st tank
		Size of filter tank	600*500*400mm
		Filter element precision	5/10μ
		Generator	2 sets
		Generator power control	1800W
3	2nd Chamber	Cooling system	Yes
		Basket	Yes
		Basket load	250KG
		Function	Steam cleaning
		Tank Material	SUS 304 (SUS 316 can be customized)
		Thickness of tank	2mm
		Inner tank dimension	1000*600*600mm
		Tank Capacity	360L
		Heating Power	48KW
		Water Consumption	140~540L/H
		Steam temperature	80~200°C
		Steam Nozzle	1 or more
		Water tank	30L or custom
		Pump power	3KW
		Heating way	First pressurize and then heat
		Function	Hot air drying tank

3	3rd Chamber	Inner tank dimension	1000*600*600mm
		Turbines power	750W
		Dryer power	3000W
4	Working way of machine	Working way	Full automatic
		Loading and unloading platform	Yes
		Moving way of basket	By mechanical arm
		Control way	PLC touch screen
5	Packing	Overall size	360*220*150cm
		Packing size	370*230*170cm
		Packing detail	By wooden case(No logs, free of fumigation)
		N.W/G.W	900KG/1000KG
6	Warranty	1 year warranty for spare parts, all life technical support	
7	Certificate	CE, RoHS; FCC, REACH	
8	Production time	35 working days after deposit	

#### Product Features:

1. Suitable for cleaning larger batches of parts.
2. The process is fully automatic and easy to operate.
3. Human-machine interface, PLC intelligent control, and over-limit protection system.
4. Use indirect heating, explosion-proof parts and other safety measures.
5. Adopt dual-system induced air drying.
6. Automatic induction fire extinguishing device

#### Working way:

The entire process of putting the basket into the cleaning tank, removing the basket and moving the basket between the tanks is automatically completed by a single-arm manipulator. This ultrasonic cleaning machine has a total of 3 working tanks, plus 1 loading and unloading station, a total of 4 stations .

#### Cleaning time and production capacity:

The cleaning basket bears 150kg, and the cleaning time can be set and adjusted according to the cleaning process, about 10-15 minutes per basket.

#### Same series with different size for your choice:

Model	Size of every tank	Tank Volume	Ultrasonic Power	Heating Power of Ultrasonic tank	Heating Power of drying tank	Transducer
	L*W*H (mm)	(L)	(W)	(W)	750W	(pcs)
JTM-3024AD	500X300X250	38L*3	600W	1500W*2	750W	24pcs
JTM-3036AD	500X350X300	53L*3	900W	1500W*2	750W	36pcs
JTM-3048AD	550X400X350	77L*3	1200W	3000W*2	750W	48pcs
JTM-3060AD	550X450X400	99L*3	1500W	3000W*2	750W	60pcs
JTM-3072AD	600X500X450	135L*3	1800W	4500W*2	750W	72pcs
JTM-3096AD	700X500X500	175L*3	2400W	6000W*2	750W	96pcs
JTM-3120AD	800X600X550	264L*3	3000W	6000W*2	750W	120pcs
JTM-3144AD	1000X600X600	360L*3	3600W	9000W*2	750W	144pcs
JTM-3216AD	1000X900X600	540L*3	5400W	18000W*2	1100W	216pcs
JTM-3288AD	12000*1000*800	960L*3	7200W	24000W*2	1500W	288pcs

#### Cooling system:

Ultrasonic gas-phase cooling cleaning machine is a kind of industrial cleaning equipment that uses organic solvents such as freon, methanol, trichloroethylene, tetrachloroethylene, xylene, etc. as cleaning agents. This type of machine has a good cleaning effect on rust and dirt, rosin, grease and other attachments, and is mostly used for cleaning in the electronic circuit board industry, hardware electroplating industry, vehicle parts, and medical equipment parts industries.

Structural composition of ultrasonic cooling system cleaning machine

Gas phase cooling ultrasonic cleaning machine is composed of ultrasonic system, electrical system, refrigeration system, circulating filter system, automatic heating and constant temperature system, etc.

##### 1. Ultrasonic system

Ultrasonic system generally uses 28KHz ultrasonic to clean, bottom ultrasonic layout (sweep frequency circuit, power is continuously adjustable and displayed, can be controlled separately, and there is current indicator), the actual cleaning power needs to be based on the size and quantity of the cleaned workpiece Decided.

##### 2. Electrical system

Using PLC human interface touch technology, independent circuits at all levels, can individually control the parameters of each

slot.

### 3. Freezing system

This type of machine mostly uses a secondary refrigeration system at the upper end of the cleaning tank, and the first floor is a refrigeration area, which is connected to the refrigeration system. The other layer is the cold water freezing zone, which is connected to cold water freezing. Equipped with one chiller and one chiller, and the multi-stage working tanks share one set of refrigeration system.

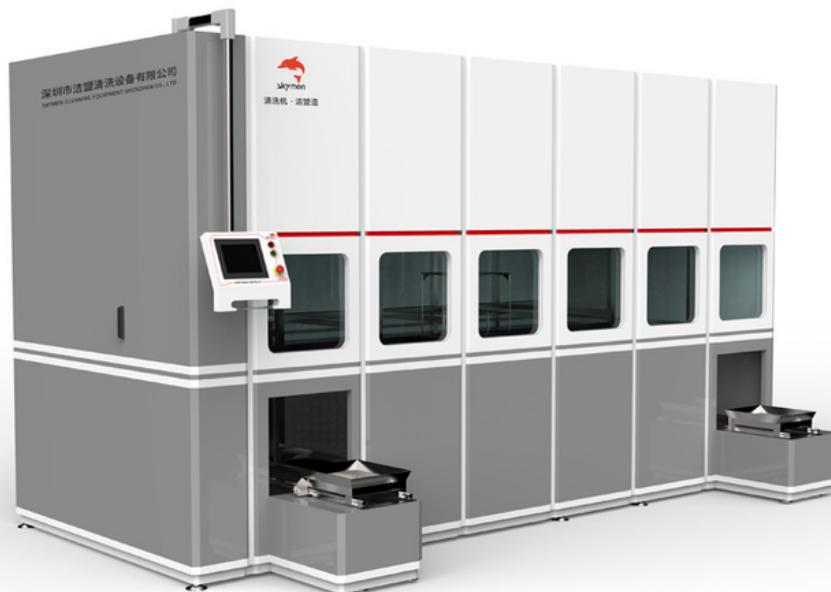
### 4. Circulating filtration system

It is composed of stainless steel filter pump, overflow circulation device, liquid storage tank, etc. The stainless steel filter pump adopts the brand "Nanfeng" brand pump, and the liquid storage tank is welded by SUS304 stainless steel.

### 5. Automatic heating and constant temperature system

The cleaning tank adopts a wall-type heating method, and the heating power needs to be determined according to the size of the tank and the organic solvent used; and is equipped with an "Omron" thermostat, which can control the temperature at any time.

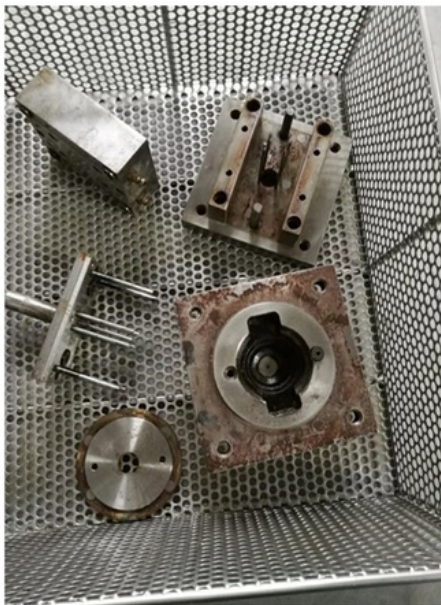
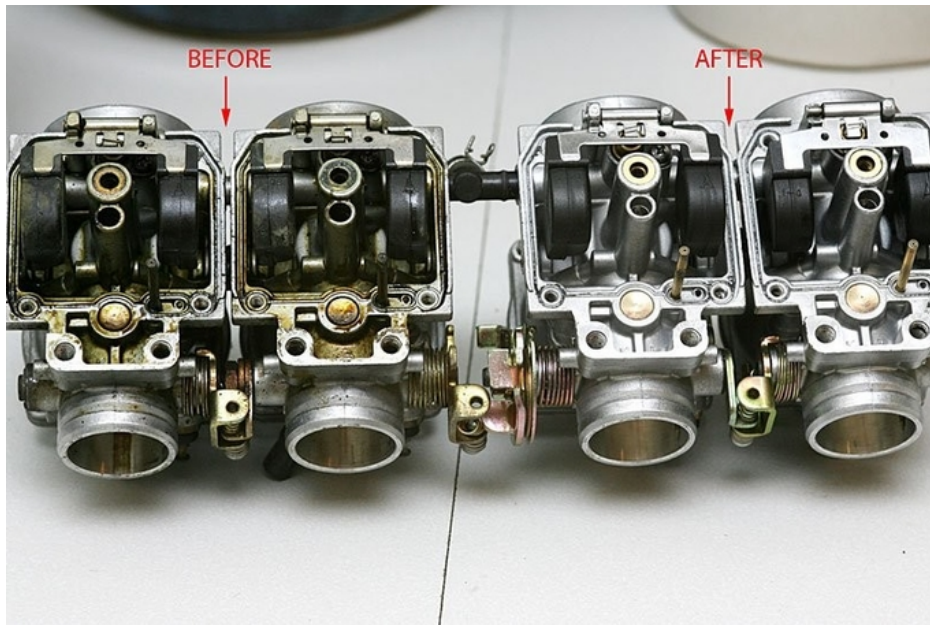
## Product Images:





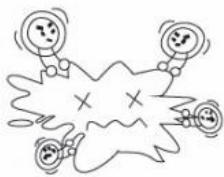


**Clean effect:**

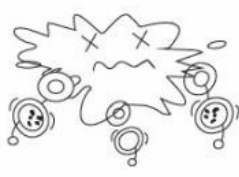


## DIRT ELIMINATION PROCESS THROUGH ULTRASONIC TECHNOLOGY

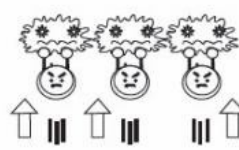
- Cleaning effect will be much better if using the machine together with proper solvent.



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.

### About our company:



### Our Advantages

<b>13+</b> 13+ years R&D experience	<b>10,000+</b> 10,000+ square meters factory	<b>200+</b> 200+ experienced employees	<b>120+</b> 120+ countries and areas exported
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### Our Factory



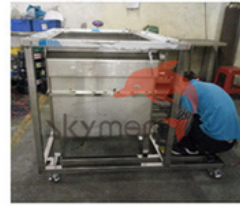
# PRODUCTION PROCESS



1 Raw Material



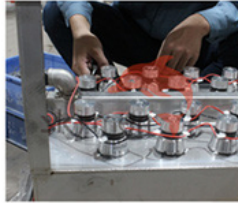
2 Board Cutting



3 Tank Welding



4 Transducer Installation



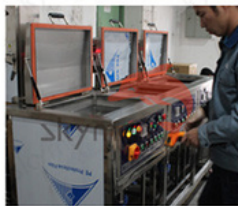
5 Skymen Transducer Wiring



6 Tank Polishing



7 Assembling



8 Age Testing



9 Skymen Factory Shipping

## Our Sales Team



### History:

Skymen Cleaning Equipment Shenzhen Co., Ltd., was founded in 2007, which follows the brand development strategy of "based in Shenzhen, radiating throughout the country, expanding overseas".

Skymen also owns a professional R&D team to keep the pace with international ultrasonic technology. A passionate and young sales team sell to the world through different channels.



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