



## 53L Industrial Ultrasonic Cleaner For Plastic Mold Injection Mold Die Casting Mold

Our Product Introduction

for more products please visit us on [skymenultrasonic.com](http://skymenultrasonic.com)

### Basic Information

- Place of Origin: Shenzhen, China
- Brand Name: SkyMen
- Certification: RoHS, CE, FCC, SGS
- Model Number: JP-180ST
- Minimum Order Quantity: 1
- Price: 750USD / UNIT
- Packaging Details: Wooden case
- Delivery Time: In Stock
- Payment Terms: T/T
- Supply Ability: 800 pcs per month

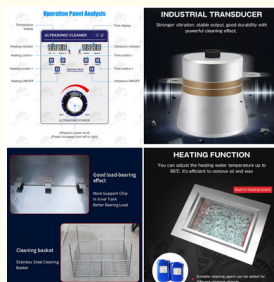


### Product Specification

- Cleaning Process: Solvent Cleaning
- Frequency: 28/40KHz
- Tank Dimension: 20 X14 X 12 Inch
- Vessel Volume: 14 Gallon
- Transducer: 18pcs
- Ultrasonic Power: 900W
- Heating Power: 1500W
- Generator: Inside Machine
- Highlight: FCC Industrial Ultrasonic Cleaner, Plastic Mold Industrial Ultrasonic Cleaner, 53L industrial ultrasonic cleaning machine



### More Images



## Product Description

### Plastic Mold Injection mold hardware Die casting mold 53L ultrasonic cleaner

#### Product Overview

##### Mold ultrasonic cleaning

The process of cleaning injection mold components via ultrasonic bath offers significant advantages over traditional manual scrubbing. The use of abrasive techniques, of any kind, is detrimental to the tool surface, especially those that are highly finished. The ultrasonic method does not invade the surface of the steel the way conventional friction-based methods do. Ultrasonic cleaning uses a system called cavitation—the rapid forming and collapsing of millions of very small bubbles in a bath of water and suitable biodegradable cleaner. Although tiny, these little bubbles are tenacious fighters and will work their way into and around all mold-component surfaces—crevices, grooves, channels, blind holes ... The ultrasonic process has proven itself to be extremely effective in removing the residues and contaminants from mold releases, burnt resin, and vent outgas without harming the surface of the steel. The ultrasonic cleaning cycle takes 20 minutes for most applications, with additional time or cycles required for molds running high-temperature/gassy resins. Certain performance-enhancing additives (flame retardants or talc filler, for example) can also be detrimental to good mold-steel health without regular cleaning.

#### Features at a Glance



##### Application for different items

1. Plastic injection mold
2. Die casting mold

3. Ceramic mold

4. Roller die mold

5. Glass mold

6. Rubber mold

7. Casting mold

8. Car mould

9. Hardware metal mold

10. Precision mould

11. Smelting mould

12. Extrusion Die mould

13. Blanking die Cavity mold etc

##### Benefits

1. Easy control.

2. Long life span

3. Economy of space

4. Minimal pollution for working place

5. No disassembly in transport

6. Transported in a 40ft container

7. Saving detergent

8. Saving water

9. Saving labor

10. Saving time

11. Thoroughly cleaning

12. Safety for workers

13. Friendly to environment

##### Unique selling points

1. (Waste) water savings

2. Higher cleaning level

3. Noise reduction

4. Cleaning speed

5. Safety level

6. Environmental aspects

7. Staff expenses savings

8. Energy savings

9. Maintenance costs savings

10. Minimal damage to items

11. With Oil skimmer and separator

12. With Overflow tank

13. With hydraulic lifting system

## Products Description

Specifications of Ultrasonic Cleaner 50L for mold	
Model name	JP-180ST
Working vessel Dimensions	20 x 14 x 12 inch / 500 x 350 x 300 (LxWxH).
Cleaning tank capacity	14 Gallon / 53 Liter
Machine dimensions	30 x 21 x 29 inch
Material	all-stainless steel 304. Can be SUS 316
Total ultrasonic energy	max. 900 W
Ultrasonic generator	Inside machine
Transducer frequency	28 kHz or 40 kHz; other frequency 20 kHz, 68 kHz, 80 kHz, 132 kHz is available
Ultrasonic transducer power	ultrasonic power 18pcsx50W = 900W.
Ultrasonic mode	3 cleaning stages, at 100%, 80% and 60%, in this mode the transducer power will randomly be switched for approx. 20% or 40% of the transducers, in order to realize a quicker cleaning process. in this mode cleaning nonferrous metals, like aluminium (attention to the kind of applied detergent), copper and brass is also possible
Heater	1.5 kW, electric. temperature approx. 20-95°C, in combination with ultrasonic power
Cover	for covering the cleaning tank top, with handle
Leveling	4 manually adjustable wheels for moving machine easily
Basket	on behalf of safe positioning of parts; max. permissible weight 100 kg
Control	by means of a PLC.
Power supply	110V or 220V, single phase
Shipment	Wrapped by film in plywood case
Oil skimmer and separator	Option, on behalf of removal of floating contaminants

## Details Images

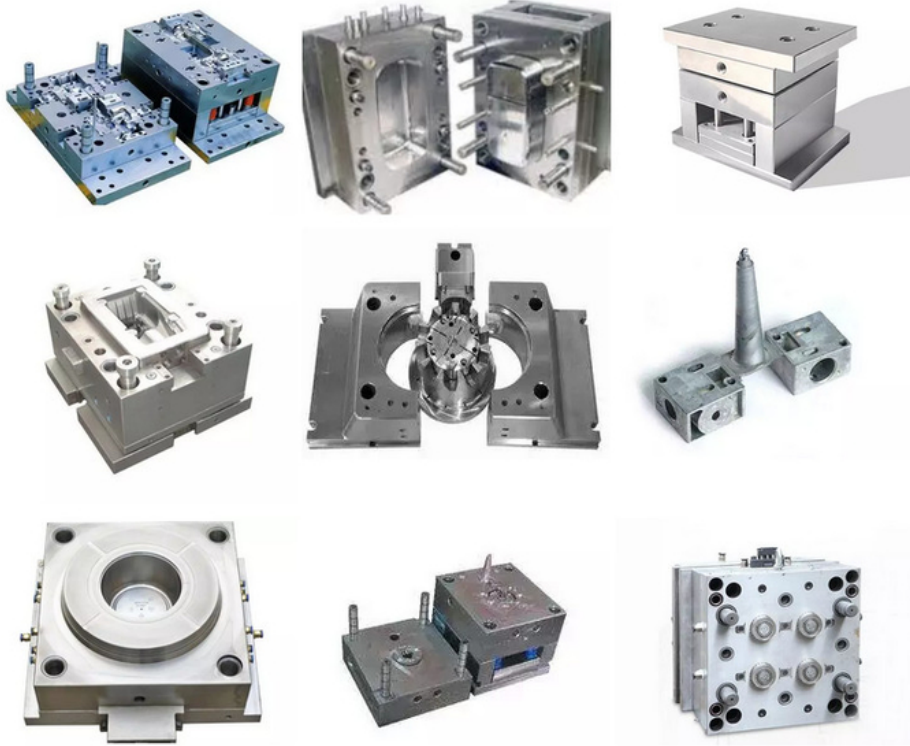


## Characteristics

Ultrasonic activity operates on similar principles to sound waves. As electrical energy is transferred to mechanical energy, it causes positive and negative pressure waves that generate microscopic bubbles that form on all surfaces throughout the component being cleaned. But these are no ordinary bubbles. The air bubbles in the fluid in ultrasonic cleaning equipment implode when they come into contact with a solid surface. This effect is known as cavitation. When the air bubbles implode, a powerful jet of fluid is created which comes into contact with the surfaces of the objects being cleaned at extremely high pressures and temperatures. This dynamic effect separates contaminants from all surfaces without damaging the object in any way. These micro-jet shock waves, combined with special ultrasonic cleaning solvents, remove bitumen, heavy oils, fats lime scale deposits and other (chemical) waste products in refineries much faster and more thoroughly than conventional methods (high pressure, steam, mechanical and chemical cleaning).

Usage: The system is developed to generate a faster and higher cleaning level by means of ultrasonic power, in combination with specialized chemicals (degradable). Due to the microscopic level a perfect inner and outer penetration will be created.

## Application



## Same Series Machine List

Model No.	Inner Tank Dimension	Tank Volume	Ultrasonic Power	Heating Power
JP-120ST	20 x 12 x 10 inch	10 Gallon	600W	1500W
JP-180ST	20 x 14 x 12 inch	14 Gallon	900W	1500W
JP-240ST	22 x 16 x 14 inch	20 Gallon	1200W	3000W
JP-300ST	22 x 18 x 16 inch	25 Gallon	1500W	3000W
JP-301ST	32 x 12 x 16 inch	26 Gallon	1500W	3000W
JP-360ST	24 x 20 x 18 inch	36 Gallon	1800W	4500W
JP-480ST	28 x 20 x 20 inch	46 Gallon	2400W	6000W
JP-600ST	32 x 24 x 22 inch	70 Gallon	3000W	6000W
JP-720ST	39 x 24 x 24 inch	95 Gallon	3600W	9000W
JP-840ST	59 x 28 x 16 inch	111 Gallon	4200W	15000W
JP-960ST	47 x 20 x 32 inch	127 Gallon	4800W	15000W
JP-1108ST	39 x 35 x 24 inch	143 Gallon	5400W	18000W
JP-1120ST	39 x 32 x 32 inch	169 Gallon	6000W	21000W
JP-1132ST	39 x 39 x 32 inch	211 Gallon	6600W	24000W
JP-1144ST	47 x 39 x 32 inch	254 Gallon	7200W	24000W

JP-1180ST	47 x 39 x 39 inch	317 Gallon	9000W	36000W
JP-1192ST	47 x 47 x 39 inch	380 Gallon	9600W	36000W
JP-1216ST	59 x 39 x 39 inch	369 Gallon	10800W	36000W
JP-1288ST	79 x 47 x 32 inch	507 Gallon	14400W	36000W
JP-1360ST	78 x 47 x 39 inch	634 Gallon	18000W	36000W
JP-1432ST	79 x 59 x 47 inch	951 Gallon	21800W	36000W
JP-1576ST	98 x 59 x 47 inch	1189 Gallon	28800W	36000W
JP-1648ST	118 x 59 x 47 inch	1427 Gallon	32400W	36000W
JP-1720ST	157 x 63 x 39 inch	1691 Gallon	36000W	36000W
JP-1936ST	138 x 63 x51 inch	1923 Gallon	46800W	36000W
JP-11152ST	98 x 79 x 67 inch	2245 Gallon	57600W	36000W
JP-11224ST	126 x 79 x 59 inch	2536 Gallon	61200W	36000W
JP-11368ST	315 x 47 x47 inch	3043 Gallon	68400W	36000W
JP-11512ST	315 x 63 x 63 inch	5410 Gallon	75600W	48000W
Other inner tank size and tank capacity can be customized				





Before



After



Before



After



Before



After



Before



After

## Cooperation Case



Partner CRRC

Industry Rail

Parts Couplings Clamps Gearbox Valve Seats



### Cooperated with CRRC in 2021

In April 2021, Skymen Group will join hands with CRRC again through third-party cooperation. This is the best proof of Skymen Group's strength. In fact, this is not the first time the two sides have cooperated. As early as 2017 to the present, during the period Skymen Group has provided CRRC with cleaning technology solutions and cleaning equipment for many times, and is grateful to CRRC for its recognition and trust. This time, we will provide cleaning needs of spare parts based on motor vehicle maintenance, such as: cleaning couplings, clamps, gearboxes, valve seats and other spare parts. A set of intelligently controlled automatic ultrasonic cleaning equipment was manufactured to meet the needs of CRRC's intelligent cleaning.



Partner HITACHI

Industry Equipment

Parts Precision Hardware



### Cooperated with HITACHI in 2021

Skymen Group and Hitachi Group announced a strategic cooperation in 2021 to provide them with intelligent cleaning technology solutions for precision hardware, and help accelerate the production efficiency and cleaning needs of workpieces. During this period, Skymen cleaning technology was strongly recognized by Hitachi Group. Skymen believes that the promotion of intelligent cleaning equipment in China should be developed towards a broader space, and at the same time, it will also transform technology into realistic productivity and add new momentum to China's industrial economic upgrade.



Partner Samsung

Industry electronic industry

Parts Optical glass, mobile phone case, etc.



**Skymen Technology Corporation Limited**



86-755-27094405



info@skymen.cc



skymenultrasonic.com

Floor 1st & 2nd, Building 3, Tanggang Taifeng Industrial Park, Dawangshan Community, Shajing Street, Bao'an District, Shenzhen