



## Instrument Submersible Ultrasonic Vibration Pipeline Stick 600W Electoric Tube Vibrating Reactor for Machinery

### Our Product Introduction

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#### Basic Information

- Place of Origin: China
- Brand Name: skymen
- Certification: CE/RoHS/ISO9001
- Model Number: JP-1012
- Minimum Order Quantity: 1
- Price: Negotiation
- Packaging Details: carton box
- Delivery Time: In Stock
- Payment Terms: T/T
- Supply Ability: 1000pcs per week



#### Product Specification

- Ultrasonic Power: 600W
- Ultrasonic Frequency: 28/40Khz
- Generator: Yes
- Tank Size: 550\*57mm
- Power Supply: 110V/60Hz, 220V/50Hz
- Highlight: ultrasonic welding equipment,  
ultrasonic welding generator



#### More Images



## Product Description

### What is it?

Ultrasonic vibrating rods are also called ultrasonic vibrating rods. Compared with traditional ultrasonic vibrating plates, it has the characteristics of wider application range and longer service life. In industrial applications, the use of ultrasonic vibrating rods for cleaning, extraction, chemical reactions, anti-scaling, water treatment, etc., is a very mature and widely used technology.

Ultrasonic vibrating rod uses the alternating period of positive and negative pressure existing in the transmission process of ultrasonic waves. In the positive phase, the medium molecules are squeezed to increase the original density of the medium; in the negative phase, the medium molecules are sparse and discrete, and the medium density Decrease. Ultrasonic vibrating rods can uniformly generate ultrasonic waves around 360°, and the energy output is not affected by load changes such as liquid level and temperature difference. Ultrasonic vibrating rods generally include high-power ultrasonic transducers, horns, and tool heads (transmitting heads). ), used to generate ultrasonic vibration and emit this vibration energy into the liquid. The transducer converts the input electrical energy into mechanical energy, namely ultrasound. Its manifestation is that the transducer stretches back and forth in the longitudinal direction, and the amplitude is generally a few microns. This amplitude power density is not enough and cannot be used directly. The horn amplifies the amplitude according to the design requirements, isolates the reaction solution and the transducer, and also plays a role in fixing the entire ultrasonic vibration system. The tool head is connected with the horn, the horn transmits the ultrasonic energy vibration to the tool head, and then the ultrasonic energy is emitted into the chemical reaction liquid by the tool head.

### Product function of ultrasonic vibrator:

1. The stronger the ultrasonic power density is, the liquid that can't be processed with low power density can be processed;
2. Multiple frequencies are available to solve each problem in various industries;
3. The material is made of national standard 304 stainless steel thickened by 1.0MM, which is strong and durable with high temperature resistance;
4. The 60W industrial-grade shock head imported from South Korea is concentrated and the cleaning effect is remarkable;
5. It can work continuously for a long time without interruption;
6. With generator control system, the control is flexible and precise;
7. Cleaning, emulsification, separation, homogenization, extraction, catalysis, defoaming, stirring, etc.;
8. The power output of the ultrasonic vibrator is not affected by load changes such as liquid level, tank capacity and temperature difference, and the power output is stable and uniform.
9. Ultrasonic cavitation is generated around the vibrating rod, and the ultrasonic energy is very evenly distributed around the rod;
10. Ultrasonic shock rods are sealed and waterproof, safe to use;
11. Ultrasonic vibrating rod is more than 1.5 times the service life of traditional ultrasonic vibrating plate;

### Specification:

- 1) Product name: Tubular Submersible Transducers
- 2) Cleaning dimension (mm): 550\*57mm(Length \* Diameter)
- 3) Housing material: SUS304
- 4) Ultrasonic frequency: 40KHZ
- 5) Ultrasonic transducers: 10pcs transducer assemble a transducer cleaning bar
- 6) Ultrasonic power: 600W
- 7) Electronic generator: one unit ultrasonic generator separately control
- 8) Power supply: 220V, 50Hz, 1phase
- 9) With 10M cable length and Flange fixing lockable screws
- 10) Each set of transducer with single generator control
- 11) Packing method: Wooden case
- 12) With CE, ROHS, ISO9001 certificate
- 13) With 1 year warranty and technical support for life)

### Similar models with different capacity:

Model	JM-1003	<b>JM-1006</b>	JM-1012	JM-1018	JM-1024	JM-1036
Frequency	40KHz	<b>40KHz</b>	40KHz	40KHz	40KHz	40KHz
Ultrasonic power	150W	<b>300W</b>	600W	900W	1200W	1800W
Voltage	<b>AC220~240V 50Hz; AC110~120V 60Hz</b>					
Diameter	57MM	<b>57MM</b>	57MM	57MM	57MM	57MM
Length	180MM	<b>300MM</b>	550MM	750MM	1000MM	1520MM
Material	SUS304	<b>SUS304</b>	SUS304	SUS304	SUS304	SUS304
Thickness	1.0MM	<b>1.0MM</b>	1.0MM	1.0MM	1.0MM	1.0MM

### Application:

1. Biological industry: essential oil extraction, traditional Chinese medicine preparation, natural pigment extraction, polysaccharide extraction, flavonoid extraction, alkaloid extraction, polyphenol extraction, organic acid extraction, oil extraction.
2. Applications in laboratories, universities and research institutes: chemical agitation, logistics mixing, cell crushing, product crushing, substance dispersion (suspension preparation) and agglomeration.
3. Chemical industry: ultrasonic emulsification and homogenization, ultrasonic gel liquefaction, resin defoaming, ultrasonic crude oil demulsification.
4. Ultrasonic biodiesel production: significantly accelerate the enhanced transesterification reaction and various chemical reactions in various chemical production.
5. Water treatment industry: polluted water is degraded.
6. Food and cosmetics industry: alcoholization of alcohol, refinement of cosmetic particles, extraction of nanoparticles.
7. Graphene industry: Graphene dispersion, graphene nano-particle preparation.
8. In some landscape lakes and rivers: Ultrasonic shock rods can also be used to kill and inhibit algae.

### **Company profile**

Here are the Skymen company. You can know more about us with the details.


### **The role of ultrasonic vibrating rod**

#### **1. The extraction effect of ultrasonic vibrating rod on biopharmaceuticals**

How to use ultrasonic technology to achieve the extraction effect? Ultrasonic extraction generally uses auxiliary solvents. The cavitation and stirring effect of sound waves in the solvent can quickly destroy the cells of plant medicinal materials, so that the solvent can penetrate well into the cells of the extract and shorten The extraction time improves the extraction rate, and the ultrasonic vibrating rod extraction technology is carried out at low temperature, which has a protective effect on some medicinal materials that are unstable in heating and easy to be hydrolyzed and oxidized. The ultrasonic vibrator can be used for essential oil extraction, Chinese medicine extraction, flavonoid extraction, alkaloid extraction, oil extraction, natural pigment extraction, polyphenol extraction, etc.

#### **2. Ultrasonic vibrator can be used for stirring, crushing, dispersing, homogenizing and emulsifying**

For some mixed liquids with a low concentration, the ultrasonic vibrating rod can be used for proper stirring, so as to promote the rapid dispersion and homogenization of the mixture, can promote the chemical reaction, and can also be used for the separation and emulsification of the two-phase solution.

#### **3. Ultrasonic vibrator is used for organic wastewater treatment and algae killing**

In the actual industrial wastewater, such as papermaking wastewater, printing and dyeing wastewater, tanning wastewater, coking wastewater, pharmaceutical wastewater, landfill leachate, etc., ultrasonic vibrating rods are used to treat, and good results have been achieved. Algae killing uses the cavitation and mechanical effects of ultrasonic waves in a liquid to rupture algae cells.

#### **Four. Ultrasonic vibrator is used for cleaning**

In the chemical industry, many pipes, tanks, reactors, etc. have relatively small openings and manual cleaning is troublesome and inconvenient. Usually, ultrasonic vibrating rods are placed in inherent containers and ultrasonic cavitation is used to achieve good cleaning results.



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