

# Beijing (Yongda) Ultrasonic Co., Limited



<http://www.bjultrasonic.com>

Professional Ultrasonic Transducer, Ultrasonic Generator, Ultrasonic Cleaner, Piezoelectric Ceramics Manufacturer in China.

HIGH-QUALITY SERVICE



## Company Profiles

Welcome to Beijing Ultrasonic ! We are professional manufacturer of piezoceramics, ultrasonic transducer, ultrasonic generator and ultrasonic cleaners. These products are widely used in Ultrasonic Cleaning, Ultrasonic Welding, Ultrasonic Medical, Vibration Monitoring, Ultrasonic Sensor, Ultrasonic Flow Control, Ultrasonic Level control ...

Beijing Ultrasonic has complete producing and detecting systems with mature piezo technology. We can customize different types and sizes of piezoceramics, piezoelectric transducers and ultrasonic cleaning systems to meet with customers' requirements. Our products have obtained CE, ROHS, FCC and Product Quality Certification.

Over the years, we've served many clients with high quality products and services. Hope we will have the opportunity to cooperate with you in the near future.





# Operational Philosophy

Prestige First and Clients Supreme  
To be the Most Worthy Enterprise  
of Ultrasonic in China

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## Piezoelectric Ceramic—— Ring Piezoelectric Ceramic



The material of Piezoelectric Ceramic: PZT4, PZT5, PZT8 or other required materials.

Some Standard Size of Ring Piezoelectric Ceramic:

Size (mm)	Capacitance ( $\pm 10\%$ )pF	Radial frequency ( $\pm 5\%$ )KHz	Dielectric dissipation factor $\tan\delta(\%)$	Resonance Impedance $Z_m(\Omega)$	Coupling modulus $K_r(\%)$	Mechanical quality factor ( $Q_m$ )	Piezoelectric Material
10*5*2	260	135.5	$\leq 0.3$	$\leq 15$	$\geq 55$	500	PZT4
11*5.5*2	320	124.6	$\leq 0.3$	$\leq 15$	$\geq 55$	500	PZT4
13*5.3*2.2	455	126.8	$\leq 0.3$	$\leq 15$	$\geq 55$	500	PZT4
15*6*2	670	110.0	$\leq 0.3$	$\leq 15$	$\geq 55$	500	PZT4
20*10*5	420	100.0	$\leq 0.3$	$\leq 15$	$\geq 55$	500	PZT4
25*10*3	1240	66.4	$\leq 0.3$	$\leq 15$	$\geq 45$	800	PZT8
25*10*4	930	66.6	$\leq 0.3$	$\leq 15$	$\geq 45$	800	PZT8
30*10*5	1190	51.0	$\leq 0.3$	$\leq 15$	$\geq 55$	500	PZT4
32*11*5	1300	47.2	$\leq 0.3$	$\leq 20$	$\geq 55$	500	PZT4
35*15*5	1770	45.9	$\leq 0.5$	$\leq 15$	$\geq 49$	500	PZT4
35*15*5	1430	45.5	$\leq 0.3$	$\leq 15$	$\geq 45$	800	PZT8
38*15*5	2100	42.0	$\leq 0.5$	$\leq 15$	$\geq 49$	500	PZT4
38*16*5	1650	42.0	$\leq 0.3$	$\leq 15$	$\geq 55$	800	PZT8
38*13*6.4	1780	44.1	$\leq 0.5$	$\leq 15$	$\geq 49$	500	PZT4
40*12*5	2080	47	$\leq 0.3$	$\leq 15$	$\geq 54$	800	PZT8
40*15*5	1970	42.8	$\leq 0.5$	$\leq 15$	$\geq 55$	500	PZT4
40*17*6	1556	41.5	$\leq 0.3$	$\leq 15$	$\geq 46$	800	PZT8
40*20*5	1750	38	$\leq 0.5$	$\leq 15$	$\geq 51$	800	PZT8
42*15*5	1970	40.0	$\leq 0.5$	$\leq 15$	$\geq 51$	500	PZT4
42*17*5	2220	38.8	$\leq 0.5$	$\leq 15$	$\geq 51$	500	PZT4
45*15*5	3180	37.7	$\leq 0.5$	$\leq 15$	$\geq 51$	500	PZT4
45*17*5	2580	38.1	$\leq 0.3$	$\leq 15$	$\geq 46$	800	PZT8
50*17*5	3160	34.8	$\leq 0.3$	$\leq 15$	$\geq 55$	800	PZT8
50*20*6	2490	33.5	$\leq 0.3$	$\leq 15$	$\geq 46$	800	PZT8
50*17*6.5	3280	34.8	$\leq 0.3$	$\leq 15$	$\geq 55$	800	PZT8
50*23*6	2340	32.1	$\leq 0.3$	$\leq 15$	$\geq 46$	800	PZT8
50*27*6	2100	29	$\leq 0.3$	$\leq 15$	$\geq 47$	800	PZT8
60*30*10	1925	26	$\leq 0.3$	$\leq 15$	$\geq 55$	800	PZT8
70*30*10	2640	24.5	$\leq 0.3$	$\leq 15$	$\geq 55$	800	PZT8

Outside diameter range: 3mm----140mm

Inside diameter range: 2mm----40mm

Thickness range: 0.2mm----20mm

Remark: Design and Customize various size Ring Piezoelectric Ceramic as required.





## Piezoelectric Ceramic——Disc Piezoelectric Ceramic



The material of piezoelectric ceramic: PZT4, PZT5, PZT8 or other required material

Some standard size of Disc Piezoelectric Ceramic specification:

Size (mm)	Thickness Frequency ft(MHz) ( $\pm 5\%$ )	Capacitance C(pf) ( $\pm 15\%$ )	Impedance Zt( $\Omega$ )	Electromechanical coupling coefficient Kt (%)	Piezoelectric Material
8 × 2	1.0	263		$\geq 43$	PZT5
10 × 1	2.0	10840		$\geq 44$	PZT5
10 × 2	1.0	420		$\geq 44$	PZT5
15 × 1	2.0	1970		$\geq 43$	PZT5
15 × 2	1.0	980		$\geq 43$	PZT5
16 × 1	2.0	2200		$\geq 45$	PZT5
16 × 2	1.0	1100		$\geq 45$	PZT5
20 × 1	2.0	3560		$\geq 43$	PZT5
20 × 2	1.0	1780		$\geq 43$	PZT5
25 × 1	2.0	4600		$\geq 43$	PZT5
25 × 2	1.0	2300		$\geq 43$	PZT5
16 × 0.4	5.0	5400	$\leq 5$	$\geq 45$	PZT4
16 × 2.1	1.0	1000	$\leq 4$	$\geq 45$	PZT4
20 × 2.0	1.0	1650	$\leq 4$	$\geq 45$	PZT4
25 × 0.4	5.0	12800	$\leq 4$	$\geq 45$	PZT4
25 × 1.0	2.0	5800	$\leq 4$	$\geq 45$	PZT4
25 × 2.0	1.0	2700	$\leq 4$	$\geq 45$	PZT4
28 × 1.0	1.0	6940	$\leq 4$	$\geq 45$	PZT4
28 × 1.7	1.2	3880	$\leq 3$	$\geq 45$	PZT4
28 × 2.0	1.0	3300	$\leq 3$	$\geq 45$	PZT4
50 × 2.0	1.0	10000	$\leq 3$	$\geq 45$	PZT4
60 × 2.0	1.0	14500	$\leq 3$	$\geq 45$	PZT4

Outside diameter range: 3mm---80mm

Thickness range: 0.1mm---20mm

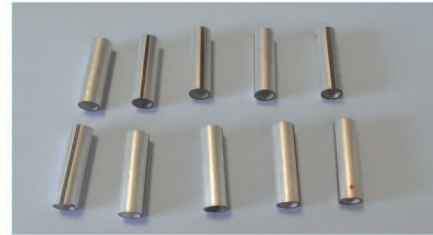
Remark: Design and Customize various size Disc Piezoelectric Ceramic according to your request.

## Piezoelectric Ceramic—Tube Piezoelectric Ceramic

The material of piezoelectric ceramic: PZT4,

PZT5, PZT8 or other required material

Some standard size of tube piezoelectric ceramic:



Size(mm) ODX ID XH	FM (KHz)	FN (KHz)	Capacitance (pf)	Tgδ (%)
12*9*6	70	72	5860	0.3
18*15*15	63	64	5940	0.2
20*17*15	46.9	50	14109	1.5
24*20*20	47	49	12830	2.0
34*30*20	30	32	1510	0.2
40*32*37	25	25.3	21200	1.5
44*38*29	22.1	24	23120	1.5
51*45*36	20	20.5	18010	1.5
53*45*41	18	22	3060	0.2
69*63*25	16	18	16040	0.5
76*68*40	15	15	19730	0.5
80*60*150	17	18.5	34420	0.25
142*132*80	8	8	8636	0.35

Outside diameter range: 6mm---150mm

Inside diameter range: 5mm---130mm

Height range: 5mm---100mm

Remark: Design and Customize various size Tube Piezoelectric Ceramic according to requirements.

## Square/ Rectangular Piezoelectric Ceramic

The material of Piezoelectric Ceramic: PZT4, PZT5, PZT8 and other required material

Appliance of Piezoelectric Ceramic:

Medical B ultrasonic equipment	Ultrasonic Sensor	UltCompression sensor
Material stress sensor	Vibration Sensor	Energy/Electricity harvesting
Bolt-clamped ultrasonic transducer	Pressure sensor	Ultrasonic mixing
Ultrasonic press sensor	High-power actuators	more other application

Size Length*width*height(mm)	Fr(MHZ)	K31	ET3(r)
(80--130) × (13--16) × 0.4	3.5	≥0.37	2200-3000
(60-110) × (12-15) × 0.3	5.0	≥0.36	2200-3000
(50-100) × (10-14) × 0.2	7.5	≥0.35	2200-3000

Length range: 5mm---140mm

Width range: 1.5mm---80mm

Thickness range: 0.2mm---20mm

Remark: Design and customize various size Square/ Rectangular Piezoelectric Ceramic according to requirements.





## Ball/ Hemisphere Piezoelectric Ceramic



The material of Piezoelectric Ceramic: PZT4, PZT5, PZT8 or other required materials.

Some standard size Ball/ Hemisphere Piezoelectric Ceramic specification.

Sphere Diameter (mm)	Hatch Diameter (mm)	thickness	fr(MHz)	Kr	C(nf)		
					P-33	P-52	P-81
5	1.5	0.5	320	0.4	1.8	3.5	
10	3	0.8	160	0.4	4.7	8.8	
15	4	1	113	0.4	9.2	17.3	
20	5	1~1.5	77	0.4	17.0	32.0	
25	5	1~1.5	61	0.4	17.4	32.8	
30	6	1.5~3	50	0.4	23.5	44.3	
40	7	2~4	38	0.4	34.3	64.6	
50	8	2~4	30	0.4	54.8	103.2	
12.5	3.5	2~5	83		6.2		3.7
25	8	2~5			26.2		15.6
37.5	10	2~5					17.7
50	12	3~6					25.5

**Ball Piezoelectric Ceramic:**

Outside diameter: 12mm—100mm

Thickness range: 0.3mm—6mm

**Hemisphere Piezoelectric Ceramic:**

Outside diameter: 10mm—160mm

Thickness range: 0.6mm—6mm

Remark: Design and Customize various size Ball/ Hemisphere Piezoelectric Ceramic according to your requirements.

## Piezoelectric ceramic — Cylinder Piezoelectric ceramic

The material of Piezoelectric Ceramic : PZT4, PZT5, PZT8 or other required materials.

**Size Range of Cylinder Piezoelectric Ceramic :**

Diameter Range: 2mm—20mm

Height Range: 3mm—40mm

Remark: Design and Customize various size Piezoelectric Ceramic according to your requirements.



## Ultrasonic Transducer—Ultrasonic Cleaning Transducer

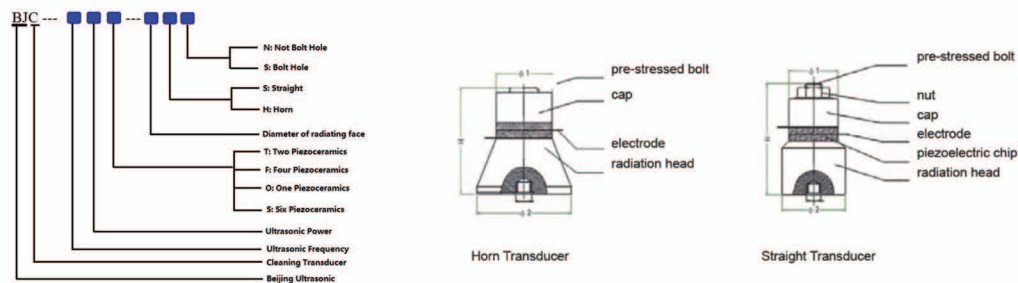
### Main features of Ultrasonic Cleaning Transducer:

- 1: High Efficiency
- 2: High Amplitude and High Vibration Speed
- 3: Lower Heat
- 4: High Reliability
- 5: Easy for assembling
- 6: High electroacoustic transformation efficiency
- 7: Best Price and Fastest Speed of delivery

### Typical application of ultrasonic cleaning transducers:

Ultrasonic cleaning system. Big power industry ultrasonic cleaning equipment. and other ultrasonic cleaning and liquid processing applications.

### Naming of Ultrasonic Transducer:



### The Specification of Ultrasonic Cleaning Transducer:

Type	Static Capacity (pF)	Resonance Impedance ( $\Omega$ )	Length (mm)	Frequency (KHz)	Input Power (W)
BJC-20100T-68HNPZT-8	5100	10-20	95	20	100
BJC-28120T-68HSPZT-4	7500	10-20	67	28	120
BJC-28100T-68HNPZT-8	5100	10-20	66	28	100
BJC-28100T-68HSPZT-4	6700	10-20	66	28	100
BJC-25100T-68HSPZT-4	6600	10-20	77	25	100
BJC-2560T-59HSPZT-4	5400	10-20	77	25	60
BJC-2860T-59HSPZT-8	3800	10-20	68	28	60
BJC-2850T-45SSPZT-4	4100	10-20	82	28	50
BJC-30100T-68HPZT-8	5200	10-20	61	30	100
BJC-3360T-48HSPZT-8	3800	10-20	58	33	60
BJC-4060T-49HNPZT-8	3800	10-20	55	40	60
BJC-4050T-45HSPZT-4	4100	10-20	54	40	50
BJC-4060T-48SSPZT-4	5400	10-20	56	40	60
BJC-5435T-38HNPZT-4	3200	10-20	56	54	35
BJC-6860T-49SSPZT-8	3800	10-20	80	68	60
BJC-68120T-52SSPZT-4	7800	10-20	67	68	120
BJC-8060T-40SSPZT-4	5400	10-20	60	80	60
BJC-12060T-40SSPZT-4	5400	10-20	56	120	60
BJC-13550T-36SSPZT-4	4200	10-20	54	135	50
BJC-25(40)50T-64HS PZT-8double frequency	3800	10-20	65	25 and 40	60



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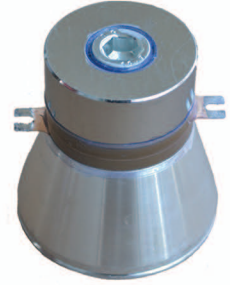
BJC-25(40)50T  
-64HS PZT-8



BJC-2560T  
-59HS PZT-4



BJC-2850T  
-45SS PZT-4



BJC-2860T  
-59HS PZT-8



BJC-4060T  
-48SS PZT-4



BJC-4060T  
-49HN PZT-8



BJC-4060T  
-48SS PZT-4



BJC-4060T  
-49HN PZT-8



BJC-5435T  
-38HN PZT-4



BJC-6860T  
-49SS PZT-8



BJC-12060T  
-40SS PZT-4



BJC-20100T  
-68HN PZT-8



BJC-28120T  
-68HS PZT-4



BJC-25100T  
-68HS PZT-4

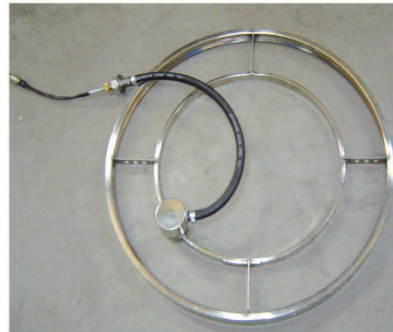


BJC-28100T  
-68HN PZT-8



BJC-28100T  
-68HS PZT-4

## Ultrasonic Transducer — Ultrasonic Vibrating Screen Transducer



Ultrasonic Vibrating Screen Transducer consists of gland, piezoelectric ceramic, electrodepiece, radiant head, prestressed screws and insulating casing composition.

### Main Features of Ultrasonic Vibrating Screen Transducer:

1. High efficiency.
2. Simple operation.
3. Discharge the impurity and coarse materials automobile and operates continuously.
4. Small volume, move easily.
5. Especially suitable for fine powder of screening.

## Ultrasonic Transducer — Ultrasonic Atomizing Transducer

Copper cover with Nickel painting. Reliable and durable.

With special design, easy to replace the piezoelectric ceramic.

Low impedance. High mechanical quality factor.

Low loss characteristics.



### Specification of Ultrasonic atomizing transducer:

Type	Atomizing Amount	Working Voltage	Working Current	Size
BJA-350	≥350ML/H	DC24V	0.5A	45mm*27mm
BJA-900	≥900ML/H	DC36V	2A	58mm*30mm
BJA-1500	≥1500ML/H	AC36V	3.5A	99mm*27mm
BJA-2000	≥2000ML/H	AC36V	4A	154mm*88*30mm
BJA-3000	≥3000ML/H	AC36V	5A	254mm*88mm*28mm





## Ultrasonic Transducer——Ultrasonic Beauty Transducer

- 1, The material of transducer house: stainless steel, aluminum
- 2, Strong vibration effect
- 3, Low heat
- 4, Uniform vibration

### Specification of Ultrasonic Beauty Transducer:

Type	Capacitance (pF)	Frequency (MHz)	Resistance ( $\Omega$ )
BJB-1 P4	3300	1MHZ	$\leq 10$
BJB-3 P4	8000	3MHZ	$\leq 4$
BJB-5 P4	2100	5MHZ	$\leq 4$
BJB-33 P4	3200	33KHZ	15
BJB-40 P4	5400	40KHZ	16
BJB-80 P4	3800	80KHZ	15
BJB-28 P4	3800	28KHZ	15



## Ultrasonic Equipment——Ultrasonic Generator

Adopted advanced MCU control technology and brand new circuit design concept, Beijing Yongda Ultrasonic CO., LTD launched a new generation of multi-functional ultrasonic generator for ultrasonic cleaning machine and all kinds of ultrasonic cleaning system.

1) The source and the control part of Signal ultrasonic generator are controlled by microcomputer of digital frequency synthesis technology.

2) The frequency of digital ultrasonic generator is continuous adjustable as necessary. And such type of ultrasonic generators have been re-engineered from the ground up to be easier to use, more flexible, Power stronger, more efficient than ever.

3) Acquired with mature indicating functions and over voltage protection, over flow protective apparatus, over-temperature protection. safety and reliable.

4) The control panel of ultrasonic generator uses a HMI touch screen with multi-channel parameters set precisely, so timer can be accurate to 0.1 seconds, guarantee the quality of work.

5) You can see the working current, working frequency, working condition and other on the display panel of the ultrasonic generator as required.

6) Provide external remote control. More easy to connect the ultrasonic cleaning system.

### Main technical parameters of ultrasonic generator:

Working Voltage: 220v  $\pm$  10% and 110v  $\pm$  10%

Ultrasonic Power(W)	300W	600W	900W	1200W	1500W	1800W	2400W
Working Current	1.1A	2.5A	3.5A	4.5A	5.5A	6.5A	7.5A



**Pls note: ultrasonic generators can't be operated for a long time under above rated current condition.**

Environmental temperature: 0–40C°

Relative humidity: 40%--90%

Working frequency: 17KHZ –200KHZ.

Time Control: 0-- 59 MINS 59 SECS

Power control range:0–100% .16 Class CNC adjustment

Machines overheating protection: 65C°

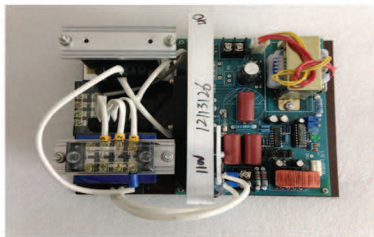
Size:300\*360\*160(mm)(Below 1800w)

500\*360\*160(mm)(Above 2000w)

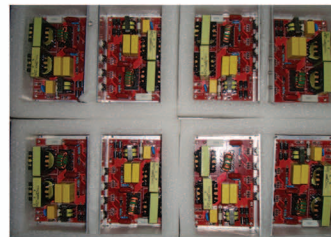
### Standard Specification:

TYPE	Ultrasonic Output(W)	Frequency(KHZ)
YD(BJ)E-300W	300	17-45
YD(BJ)E-600W	600	17-45
YD(BJ)E-900W	900	17-45
YD(BJ)E-1200W	1200	17-45
YD(BJ)E-1500W	1500	17-45
YD(BJ)E-1800W	1800	17-45
YD(BJ)E-2400W	2400	17-45
YD(BJ)EH1	300-1200	50-200

## Ultrasonic PCB generator(Ultrasonic Circuit Board)



Big Power Ultrasonic PCB Generator



Small Power Ultrasonic PCB Generator

Voltage: 220v ± 10% and 110v ± 10%

- 1) Ultrasonic circuit board has the advantages of simple structure, convenient use and low price.
- 2) The use is simple, the connection is convenient.
- 3) Small size, light weight, strong Ultrasonic power, widely used in small ultrasonic cleaner and ultrasonic cleaning system.

### Standard Specification:

TYPE	Ultrasonic Output(W)	Frequency(KHZ)
YD(BJ)E-50W	50	For 17khz to 135khz
YD(BJ)E-60W	60	For 17khz to 135khz
YD(BJ)E-100W	100	For 17khz to 135khz
YD(BJ)E-120W	120	For 17khz to 135khz
YD(BJ)E-300W	300	For 17khz to 135khz
YD(BJ)E-600W	600	For 17khz to 135khz
YD(BJ)E-900W	900	For 17khz to 135khz
YD(BJ)E-1200W	1200	For 17khz to 135khz
YD(BJ)E-1500W	1500	For 17khz to 135khz

We can Design and Customize various ultrasonic PCB generator according to your requirements.



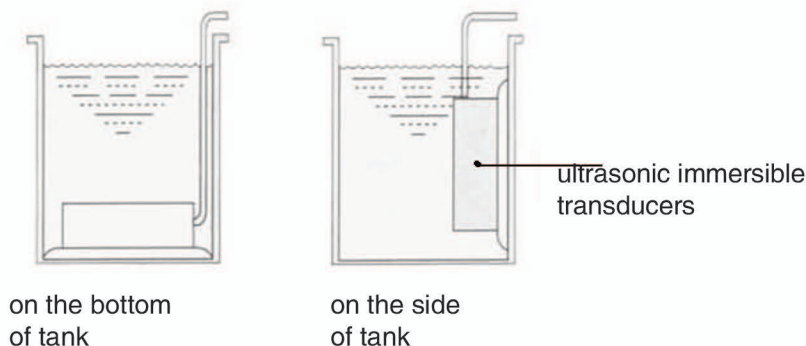


## Ultrasonic Equipment—Ultrasonic Immersible Transducer

### Main features of Ultrasonic Immersible Transducer :

1. with a simple, convenient and highly effective design, ultrasonic immersible transducers apply to all kinds of ultrasonic cleaning and liquid processing,
2. Immersible ultrasonic transducers can be directly put in both standard and custom sizes process tanks. So it's very easy to operate.
3. The frequency of Ultrasonic immersible transducer system is from 17kHz to 135kHz, and suitable ultrasonic generator to match with such Ultrasonic immersible transducers array. moreover, the frequency, power and time of ultrasonic generator for can be adjusted according to need.
4. Immersible ultrasonic transducers housings are 316 stainless steel and 304 stainless steel
5. Ultrasonic immersible transducers are widely used for cleaning electron, hardware, magnetic industry, car maintenance, textile industry mechanical processing, electroplating, food and beverage industries, cleaning precision parts, glasses, electronic components, circuit boards, semiconductors, special high-precision parts and so on.

### The drawing of ultrasonic immersible transducer installation:



### The standard size of Ultrasonic Immersible Transducers:

(Remarks: customize various size ultrasonic immersible transducers according to your need)

Style	Frequency(kHz)	Dimension(mm)(L*W*H)	Power(Watts)
YD(BJ)I-300	From 17kHz to 200kHz	300 × 190 × 100	300
YD(BJ)I-600	From 17kHz to 200kHz	360 × 275 × 100	600
YD(BJ)I-900	From 17kHz to 200kHz	360 × 360 × 100	900
YD(BJ)I-1000	From 17kHz to 200kHz	450 × 350 × 100	1000
YD(BJ)I-1200	From 17kHz to 200kHz	450 × 450 × 100	1200
YD(BJ)I-1500	From 17kHz to 200kHz	520 × 450 × 100	1500
YD(BJ)I-1800	From 17kHz to 200kHz	900 × 350 × 100	1800
YD(BJ)I-2000	From 17kHz to 200kHz	650 × 450 × 100	2000
YD(BJ)I-2400	From 17kHz to 200kHz	1000 × 420 × 100	2400

## Ultrasonic Equipment—Ultrasonic Reactor

### Description of Ultrasonic Reactor:

When ultrasonic spread in the liquid, it will produce mechanics, thermology, photology, electricity, chemistry and other series of effect by the Mechanical mass transfer, heating effect and cavitation effect. Especially high power of ultrasonic, it will have a strong cavitation effect, Thus in the local

## Ultrasonic Reactor

form instantaneous high temperature, high voltage vacuum and the jet.

1) As for chemical reaction, cause a reaction process is very good for the local small environment, can greatly improve the reaction rate, reduce the reaction conditions.

2) In opposite material extraction, will cause the destruction of the plant cell wall and solvent fast permeability, which is the effective components extraction solvent dissolves quickly, so as to improve the yield, shortened extraction time, saving solvent.

The result of the cavitated action is caused suspending component such as cell or bacterial spore to break.

### Typical characteristic of Ultrasonic Reactor:

High power of ultrasonic vibration produce strong high acceleration, strong cavitation effect, mixing effect and instantaneous heat, that causes the destruction of plant cell wall (cell crushing) and solvent fast permeability, which is the effective components extraction solvent dissolves quickly, so as to improve the yield, shortened extraction time, saving solvent.

### Application of Ultrasonic Reactor:

1. Obviously accelerate strengthening all kinds of chemical reaction,
2. Widely used in the pharmaceutical industry and chemical production.
3. Improved extraction of plant active component.
4. Ultrasonic processings for preparation of biodiesel fuel, hydrolysis of biomass resources and modification of biomass materials were also introduced.
5. Mainly used in essential oil, natural pigment, polysaccharide, yellow ketone, alkaloids, polyphenol, organic acids, and oil components extraction.
6. Ultrasonic cells shattered, ultrasonic emulsification.

There are two types of ultrasonic reactor. One is stainless steel material, other is titanium alloy material.

### Titanium Alloy Material:

Type	Frequency(KHz)	Power(W)	Length(mm)	Diameter(mm)	Static Capacity(pF ± 10%)
YD(BJ)TR1	15-28	1000	500	50-55	68000
YD(BJ)TR2	15-28	1100	620	50-55	68000
YD(BJ)TR3	15-28	1200	790	50-55	68000
YD(BJ)TR4	15-28	1300	957	50-55	68000
YD(BJ)TR5	15-28	1500	1123	50-55	68000
YD(BJ)TR6	15-28	2000	1300	50-55	132000

### Stainless Steel Material:

Type	Frequency(KHz)	Ultrasonic Power(W)	Length(mm)	Diameter(mm)	Static apacity(pF ± 10%)
YD(BJ)TR0	25-27	500	310	73	68000
YD(BJ)TR1	25-27	1000	458	73	68000
YD(BJ)TR2	25-27	1100	624	73	68000
YD(BJ)TR3	25-27	1200	790	73	68000
YD(BJ)TR4	25-27	1300	957	73	68000
YD(BJ)TR5	25-27	1500	1123	73	68000
YD(BJ)TR6	25-27	2000	910	73	132000





# Beijing (Yongda) Ultrasonic Co., Limited

Professional Ultrasonic Transducer, Ultrasonic Generator, Ultrasonic Cleaner, Piezoelectric Ceramics Manufacturer in China.



## Ultrasonic Equipment — Digital Ultrasonic Cleaner



Type	BJUCD1.3	Type	BJUCD2	Type	BJUCD3
Tank Size	150 × 135 × 65 mm	Tank Size	150 × 140 × 100mm	Tank Size	240 × 135 × 100 mm
Machine Size	180 × 165 × 180mm	Machine Size	180 × 165 × 180mm	Machine Size	265 × 165 × 210mm
Ultrasonic Power	60W	Ultrasonic Power	60W	Ultrasonic Power	120W
Frequency	from 20khz to 135khz	Frequency	from 20khz to 135khz	Frequency	from 20khz to 135khz
Timer	1–30min	Timer	1–30min	Timer	1–30min
Heater	20–80°C	Heater	20–80°C	Heater	20–80°C
Volume	1.3L	Volume	2L	Volume	3L
Net Weight	1.8 kg	Net Weight	2 kg	Net Weight	3.5 kg
Gross Weight	2kg	Gross Weight	2.5kg	Gross Weight	4kg



Type	BJUCD6	Type	BJUCD10	Type	BJUCD15
Tank Size	300 × 150 × 150 mm	Tank Size	300 × 240 × 150 mm	Tank Size	330 × 300 × 150mm
Machine Size	330 × 180 × 280mm	Machine Size	330 × 270 × 280mm	Machine Size	360 × 330 × 280 mm
Ultrasonic Power	180W	Ultrasonic Power	240W	Ultrasonic Power	360W
Frequency	from 20khz to 135khz	Frequency	from 20khz to 135khz	Frequency	from 20khz to 135khz
Timer	1–30min	Timer	1–30min	Timer	1–30min
Heater	20–80°C	Heater	20–80°C	Heater	20–80°C
Volume	6L	Volume	10L	Volume	15L
Net Weight	5.8kg	Net Weight	8.3kg	Net Weight	10.8kg
Gross Weight	6kg	Gross Weight	8.5kg	Gross Weight	11kg











Type	BJUCD22	Type	BJUCD30
Tank Size	500 × 300 × 150mm	Tank Size	500 × 300 × 200mm
Machine Size	530 × 330 × 280 mm	Machine Size	530 × 330 × 330mm
Ultrasonic Power	480W	Ultrasonic Power	600W
Frequency	from 20khz to 135khz	Frequency	from 20khz to 135khz
Timer	1–30min	Timer	1–30min
Heater	20–80°C	Heater	20–80°C
Volume	22L	Volume	30L
Net Weight	15.8kg	Net Weight	17.8kg
Gross Weight	16kg	Gross Weight	18kg

### Digital ultrasonic cleaner

The features of digital ultrasonic cleaner.

1. Reliable work, high efficiency, low noise, high cleanliness.
2. Fully closed crust and the ventilation system, to ensure of good working environment.
3. Operating procedures using single-chip microcomputer software, work parameter cut-off memory function
4. Stainless steel body. Lap and basket. Cleaning tank is made of high quality stainless steel, no soldering, waterproof performance better.
5. The working time and temperature can be fixed and adjusted. Suitable for different application.
6. Digital display. See the working condition on the display panel.

## Ultrasonic Equipment—Mechanical Ultrasonic Cleaner

					
Type	BJUCM1.3	Type	BJUCM2	Type	BJUCM3
Tank Size	150 × 135 × 65 mm	Tank Size	150 × 140 × 100mm	Tank Size	240 × 135 × 100 mm
Machine Size	180 × 165 × 180mm	Machine Size	180 × 165 × 180mm	Machine Size	265 × 165 × 210mm
Ultrasonic Power	60W	Ultrasonic Power	60W	Ultrasonic Power	120W
Frequency	from 20khz to 135khz	Frequency	from 20khz to 135khz	Frequency	from 20khz to 135khz
Timer	1–15mins	Timer	1–15mins	Timer	1–30mins
Heater	No	Heater	No	Heater	20–80°C
Volume	1.3L	Volume	2L	Volume	3L
Net Weight	1.8 kg	Net Weight	2 kg	Net Weight	3.5 kg
Gross Weight	2kg	Gross Weight	2.5kg	Gross Weight	4kg
					
Type	BJUCM6	Type	BJUCM10	Type	BJUCM15
Tank Size	300 × 150 × 150 mm	Tank Size	300 × 240 × 150 mm	Tank Size	330 × 300 × 150mm
Machine Size	330 × 180 × 280mm	Machine Size	330 × 270 × 280mm	Machine Size	360 × 330 × 280 mm
Ultrasonic Power	180W	Ultrasonic Power	240W	Ultrasonic Power	360W
Frequency	from 20khz to 135khz	Frequency	from 20khz to 135khz	Frequency	from 20khz to 135khz
Timer	1–30mins	Timer	1–30mins	Timer	1–30mins
Heater	20–80°C	Heater	20–80°C	Heater	20–80°C
Volume	6L	Volume	10L	Volume	15L
Net Weight	5.8kg	Net Weight	8.3kg	Net Weight	10.8kg
Gross Weight	6kg	Gross Weight	8.5kg	Gross Weight	11kg
				<p><b>Mechanical ultrasonic cleaner</b></p> <ol style="list-style-type: none"> <li>1. Reliable work, high efficiency, low noise, high cleanliness.</li> <li>2. Fully closed crust and the ventilation system, to ensure of good working environment.</li> <li>3. Operating procedures using single-chip microcomputer software, work parameter cut-off memory function</li> <li>4. Stainless steel body. Lap and basket. Cleaning tank is made of high quality stainless steel, no soldering, waterproof performance better.</li> <li>5. The working time and temperature can be fixed and adjusted. Suitable for different application.</li> </ol>	
Type	BJUCM22	Type	BJUCM30		
Tank Size	500 × 300 × 150mm	Tank Size	500 × 300 × 200mm		
Machine Size	530 × 330 × 280 mm	Machine Size	530 × 330 × 330mm		
Ultrasonic Power	480W	Ultrasonic Power	600W		
Frequency	from 20khz to 135khz	Frequency	from 20khz to 135khz		
Timer	1–30mins	Timer	1–30mins		
Heater	20–80°C	Heater	20–80°C		
Volume	22L	Volume	30L		
Net Weight	15.8kg	Net Weight	17.8kg		
Gross Weight	16kg	Gross Weight	18kg		











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## Ultrasonic Equipment—Power Adjustment Ultrasonic Cleaner

					
Type	BJUCPA-3	Type	BJUCPA-6	Type	BJUCPA-10
Tank Size	240 × 135 × 100 mm	Tank Size	300 × 150 × 150 mm	Tank Size	300 × 240 × 150 mm
Machine Size	265 × 165 × 210 mm	Machine Size	330 × 180 × 280 mm	Machine Size	330 × 270 × 280 mm
Ultrasonic Power	120W	Ultrasonic Power	180W	Ultrasonic Power	240W
Power Adjustment	0-100%	Power Adjustment	0-100%	Power Adjustment	0-100%
Frequency	from 20khz to 135khz	Frequency	from 20khz to 135khz	Frequency	from 20khz to 135khz
Timer	1-30min	Timer	1-30min	Timer	1-30min
Heater	20-80°C	Heater	20-80°C	Heater	20-80°C
Volume	3L	Volume	6L	Volume	10L
Net Weight	3.5 kg	Net Weight	5.8kg	Net Weight	8.3kg
Gross Weight	4kg	Gross Weight	6kg	Gross Weight	8.5kg
					
Type	BJUCPA-15	Type	BJUCPA-22	Type	BJUCPA-30
Tank Size	330 × 300 × 150 mm	Tank Size	500 × 300 × 150 mm	Tank Size	500 × 300 × 200 mm
Machine Size	360 × 330 × 280 mm	Machine Size	530 × 330 × 280 mm	Machine Size	530 × 330 × 330 mm
Ultrasonic Power	360W	Ultrasonic Power	480W	Ultrasonic Power	600W
Power Adjustment	0-100%	Power Adjustment	0-100%	Power Adjustment	0-100%
Frequency	from 20khz to 135khz	Frequency	from 20khz to 135khz	Frequency	from 20khz to 135khz
Timer	1-30min	Timer	1-30min	Timer	1-30min
Heater	20-80°C	Heater	20-80°C	Heater	20-80°C
Volume	15L	Volume	22L	Volume	30L
Net Weight	10.8kg	Net Weight	15.8kg	Net Weight	17.8kg
Gross Weight	11kg	Gross Weight	16kg	Gross Weight	18kg
				<p><b>Power adjustment ultrasonic cleaner:</b></p> <ol style="list-style-type: none"> <li>1. the ultrasonic power,time and temperature can be fixed and adjusted.Suitable for different application.</li> <li>2.Reliable work, high efficiency, low noise, high cleanness.</li> <li>3.Fully closed crust and the ventilation system, to ensure of good working environment.</li> <li>4. Operating procedures using single-chip microcomputer software, work parameter cut-off memory function</li> <li>5. Stainless steel body. Lap and basket. Cleaning tank is made of high quality stainless steel,no soldering, waterproof performance better.</li> <li>6. Digital display. See the working condition on the display panel.</li> </ol>	
Type	BJUCPA-58	Type	BJUCPA-77		
Tank Size	550 × 350 × 300 mm	Tank Size	550 × 400 × 350 mm		
Machine Size	650 × 410 × 530mm	Machine Size	650 × 460 × 630mm		
Ultrasonic Power	1080W	Ultrasonic Power	1440W		
Power Adjustment	400-1080W	Power Adjustment	600-1440W		
Frequency	from 20khz to 135khz	Frequency	from 20khz to 135khz		
Timer	1-30min	Timer	1-30min		
Heater	20-80°C	Heater	20-80°C		
Volume	58L	Volume	77L		
Net Weight	40kg	Net Weight	60kg		
Gross Weight	47kg	Gross Weight	68kg		

## Ultrasonic Equipment——Big Ultrasonic Cleaner

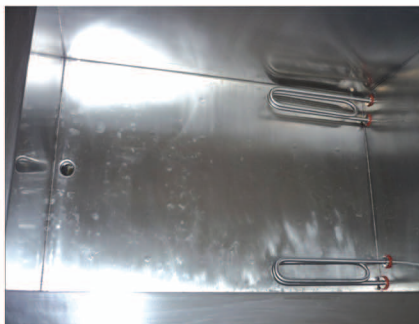
### The Features of ultrasonic cleaner

1. High quality stainless steel structure, reliable, good looks.
2. Cleaning tank equipped with heating and temperature control device, temperature control range 30 ~ 100 °C..
3. High quality transducer, ultrasonic power output strong.
4. Cleaning tank and the generator adopt fission style design, easy to use.
5. Ultrasonic Generator adopt new circuit, the power, time and frequency adjustable.
6. Ultrasonic vibration mode has the vibration respectively and bottom edge vibration, suitable for different cleaning requirements.
7. Customize various ultrasonic cleaner according to requirements.

### The specification of ultrasonic cleaner

Type	Tank size (length*width*height) (mm)	Ultrasonic power (W)	Ultrasonic frequency (KHZ)	Heating power (W)
BJUBC400	300*250*200	400	From 20khz to 135khz	700w
BJUBC500	320*280*250	500	From 20khz to 135khz	700w
BJUBC600	400*300*300	600	From 20khz to 135khz	1000
BJUBC700	450*350*300	700	From 20khz to 135khz	1000
BJUBC900	490*360*400	900	From 20khz to 135khz	1000
BJUBC1000	550*380*350	1000	From 20khz to 135khz	3000
BJUBC1200	580*380*400	1200	From 20khz to 135khz	3000
BJUBC1500	600*380*400	1500	From 20khz to 135khz	3000
BJUBC1800	700*380*400	1800	From 20khz to 135khz	3000
BJUBC2400	800*450*400	2400	From 20khz to 135khz	6000
BJUBC3600	1000*500*400	3600	From 20khz to 135khz	6000
BJUBC4800	1200*600*500	4800	From 20khz to 135khz	9000
BJUBC5600	1400*650*550	5600	From 20khz to 135khz	9000

Remarks:  
We can customize all kinds of ultrasonic cleaner as requirements:



Inside of Ultrasonic Cleaner



Basket of Ultrasonic Cleaner



Ultrasonic Cleaner





## Ultrasonic Equipment—Ultrasonic Cell Disruptor

Ultrasonic Homogenizer(Ultrasonic cell disruptor) are multi-function and multipurpose instruments that utilize strong supersonic produce empty effect of taking among liquid, the instruments of multi-function, multiuse of dealing with the supersonic to the material.

### Typical application of Ultrasonic cell disruptor:

- 1)Used in the brokenness of many kinds of animal and plant cells , virus cell.
- 2)Emulsification, separates, melts, draws, subdues steeping, washes and accelerates the chemical reaction etc.
- 3)Widely used in such fields as biochemistry, microbiology, medicine chemistry, surface chemistry, physics, zoology, etc.

### Main functions of Ultrasonic cell disruptor:

Frequency automatic tracking.

Output amplitude automatic compensation.

Have the output power safety set, in order to avoid damage by ultrasonic transformers

Output amplitude by 0–100 adjustable, easy operation, intuitionistic and efficient.

There are two working type of Intermittent pulse and continuous output.

With external control interface, convenient senior operation.

With independent external pedal switch, direct operation.

### The specification of Ultrasonic cell disruptor:

TYPE	Frequency (Khz)	Power (W)
YDE-20100	20	100
YDE-20150	20	150
YDE-20250	20	250
YDE-20500	20	500
YDE-20650	20	650
YDE-20800	20	800
YDE-20950	20	950
YDE-201200	20	1200



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