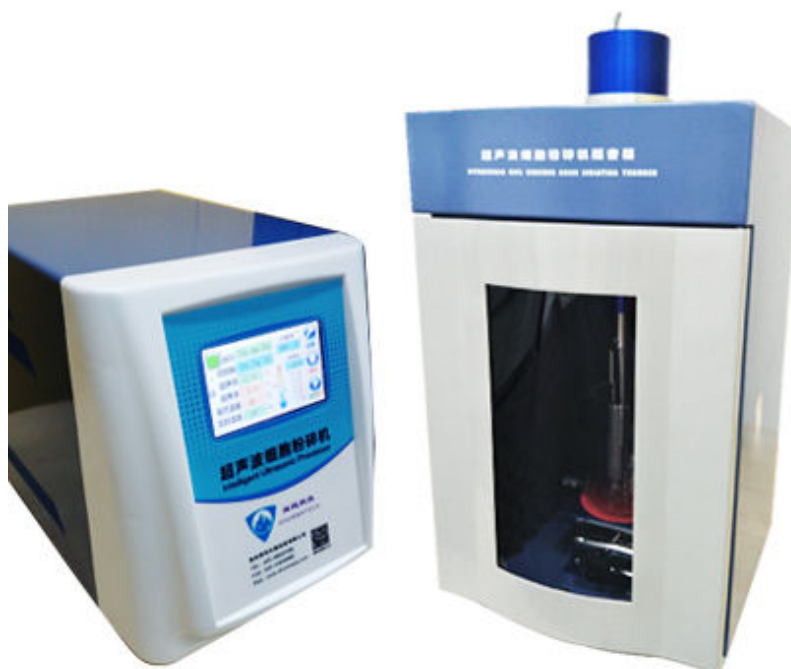


**Ultrasonic Crusher | Disrupter | Disintegrator**

**| Probe Sonicator**

**(Touch Screen Version)**

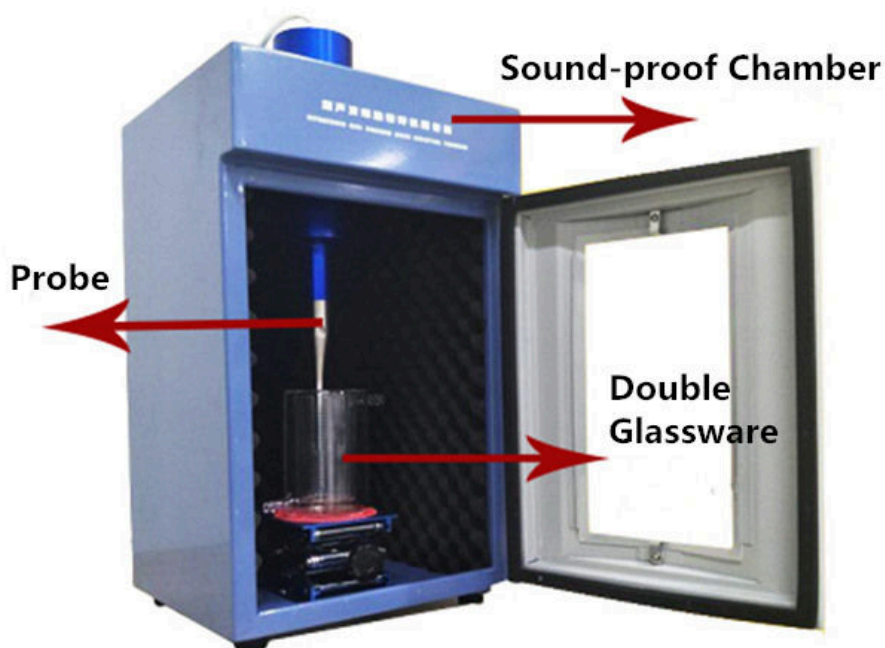


**Product Description**

**The Ultrasonic Disruptor/Crusher(Touch Screen Control)** which used 4.3 TFT touch control and upgraded the password protection system, is a multifunctional and multipurpose instrument for ultrasonic processing by cavitation in liquid material. It can be used for a variety of plants and animals, bacteria, viruses, cells and the organization of broken, at the same time can be used to emulsify, separation, scattered, cracking, homogenization, extraction, defoaming, cleaning, nanometer material preparation, graphene dispersion and chemical reactions, etc.

### Product Features

1. Large TFT screen Display, Touch control for new version
2. Login Password Protection System for data security
3. 20 groups of experimental data can be set and stored, safe and convenient.
4. The ultrasonic power can be adjusted continuously, and the best experimental conditions can be explored.
5. The program has over-temperature/delay/fault protection settings and alarm system, which can protect the test samples to the maximum extent.
6. High and Low temperature bath is optional which can control the temperature between -40 to 200°C
7. RS232 Interface is optional, which can support the data transmission between the PC and PLC to realize the remote control.
8. We provide the **Sound-proof Chamber** for standard configuration with perfect transportation.



## Technical Specification

Model	BEM-150A	BEM-650A	BEM-900A	BEM-1000A	BEM-1500A	BEM-1800A	BEM-3000A
Frequency (KHz)	20-25	20-25	20-25	20-25	19-21	19.5-20.5	19.5-20.5
Power(W)	0-150	0-650	0-900W	10-1000	1500	20-1800	300-3000
Crushing Capacity (ml)	0.1-150	0.1-500	0.1-600	0.1-700	20-1200	10-1500	100-5000
Input & Display (4.3in TFT)	Touch Control	Touch Control	Touch Control	Touch Control	Touch Control	Touch Control	Touch Control
Login Password	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Probe (mm)	Φ6	Φ6	Φ6	Φ6 or 10	Φ22	Φ20 or 22	Φ35 or 50
Probes Option(mm)	Φ2、3、8	Φ2、3、8、10、12	Φ2、3、8、10、12	Φ2、3、8、10、12、15	Φ10、15、20、25	Φ10、15、20、25	Φ15、20、25、35、40、50
Sample Temperature Protection (℃)	0-100	0-100	0-100	0-100	0-100	0-100	0-100
Security System	Self-diagnosis function, automatic error correction, overload, overtemperature protection ,etc.						

**Probe Option**



Model	Inch	Frequency	Power Range	Crushing Capacity
Φ2	1/12"	20-25KHz	min-150W	0.2-5ml
Φ3	1/8"	20-25KHz	min-250W	3-10ml
Φ6	1/4"	20-25KHz	20-400W	10-100ml
Φ10	5/12"	20-25KHz	100-600W	30-300ml
Φ12	1/2"	20-25KHz	200-900W	50-500ml
Φ15	5/8"	20-25KHz	300-1000W	100-600ml
Φ20	4/5"	19.5-20.5KHz	400-1100W	100-1000ml
Φ22	5/6"	19.5-20.5KHz	400-1100W	200-1000ml
Φ25	1"	19.5-20.5KHz	800-1500W	500-1200ml

## Application

The instrument is widely used in the fields of biology, microbiology, physics, zoology, agronomy, pharmacy, petroleum, etc. It also can be used in Nanotechnology research such as the dispersion of nanomaterials (nanotubes, graphene, silica, etc.); sample homogenization and emulsification; accelerate dissolution, accelerate chemical reaction and other sample processing.