

Visit our Application Database to find the right homogenizing solution for your specific sample types!

[www.omni-inc.com/apps](http://www.omni-inc.com/apps)

**Omni Bead Ruptors are ideally suited for:**

- DNA / RNA electrophoresis & blotting
- Mass spectrometry
- Enzyme isolation
- Protein purification
- Food safety, GMO detection
- Cosmetic preparation
- Environmental surveys
- BSE Screenings
- Drug detections
- qPCR, RT-PCR
- And many more....

**Bead Ruptor Specifications**

**Processing Range:**

- **2mL & 0.5mL Tube Carriage:** 25µL - 1.8mL
- **7mL Tube Carriage:** 1mL - 5mL
- **96-well Tube Strip Carriage:** 25µL - 0.9mL

**Power Rating:** 100-230 VAC/ 50-60 Hz

**Dimensions:** 15.5" (W) x 17" (D) x 13" (H) [24" tall with lid open]

**Weight:** 24 kg (54 lbs.)

**Compliance:** CE Compliance

**Run Time:** 1 second—9:59 minutes

**Number of Programs:** 99 Storable Programs

**Number of Cycles:** 1—10

**Performance Range:** 0.8m/s—8m/s in increments of 0.15m/s

**Dwell/Pause:** 0—9:59 minutes

**Bead Ruptor 12 Specifications**

**Processing Range:** 25µL to 1.8mL

**Power Rating:** 100-230 VAC/ 50-60 Hz

**Dimensions:** 15.5" (W) x 17" (D) x 13" (H) [24" tall with lid open]

**Weight:** 24 kg (54 lbs.)

**Compliance:** CE Compliance

**Run Time:** 1 second—99 seconds

**Number of Programs:** 1 Storable Program

**Number of Cycles:** 1

**Performance Range:** 3m/s - 5m/s in increments of 1m/s



# OMNI BEAD RUPTOR

## Bead Mill Homogenizers

**Toughest Samples.  
Fastest Results.**

### Bead Ruptor 24

Processing Range: 25µL-5mL



- Interchangeable tube carriages to homogenize:
  - ◊ Up to 24 samples in 2mL or 0.5mL tubes
  - ◊ Up to 12 samples in 7mL tubes
  - ◊ In 96-well tube strips
- Broadest Performance Range: 0.8m/s - 8m/s
- No Cool Down Required - non-stop use
- Convenient Front-Loading Design
- Sample cooling option available

### Bead Ruptor 12

Processing Range: 25µL-1.8mL



- Simultaneously homogenize in 12 x 2mL tubes
- Powerful performance: 3m/s to 5m/s
- No Cool Down Required - non-stop use
- Convenient Front-Loading Design
- Small footprint



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[www.beadruptor.com](http://www.beadruptor.com)

# OMNI BEAD RUPTOR

## Bead Mill Homogenizers

**Omni Bead Ruptors** are the newest generation of bead mill homogenizers. These systems are specifically designed for the grinding, lysing and homogenization of any biological sample prior to any molecular extractions.

Using sample tubes pre-filled with a variety of lysing beads, the Bead Ruptor vigorously and uniformly shakes the tubes providing an efficient, consistent homogenization and high-yield usually in less than 40 seconds.

Omni Bead Ruptors are ideal solutions for releasing DNA, RNA, proteins, enzymes, etc. from very tough samples while still retaining molecular integrity.

### Bead Ruptor 24

Processing Range: 25µL-5mL



0.5/2mL      7mL      96-well Tube Strip

- 3 interchangeable tube carriages:
  - 24 x 2mL or 0.5mL tubes
  - 12 x 7mL tubes
  - 96-well tube strips
- Convenient front-loading position for ease of use and optimal bead/sample interactions
- Broad processing range for any type of sample
- High reproducibility: number of cycles, time, speed, dwell/pause
- No Cool-down required between runs: process hundreds of samples per day (non-stop processing)
- 99 programmable memory settings
- Advanced sample temperature monitoring system
- Multi-lingual user interface
- Disposable tubes ensure no threat of cross-contamination or sample degradation

### Bead Ruptor 12

Processing Range: 25µL-1.8mL



- Simultaneously homogenize in 12 x 2mL or 0.5mL tubes
- Convenient front-loading tube holder position for ease of use and optimal bead/sample interactions
- Processing range is ideal for soft tissue samples
- No Cool-down required between runs
- Disposable tubes ensure no threat of cross-contamination or sample degradation
- Smaller footprint to maximize bench space

**Omni Bead Ruptor Lysing Kits** are available pre-filled with a variety of bead types.

Our lysing tubes are ideally suited for nucleic acid, drug, proteins, enzymes, virus etc. extractions.

**Tubes & Beads are available RNase & DNase free.**

Efficiently lyse with or without buffer:

- Human
- Animal
- Plant and food
- Micro-organisms
- Soil and sediments
- Forensic, feces
- Drugs, polymers, lotions etc.

### Bead Ruptor Sample Tubes

Available pre-filled or empty.

0.5mL Tubes	2mL Tubes	7mL Tubes	96-Well Strips
25µL-0.35mL	300µL-1.8mL	1mL-5mL	25µL-0.9mL

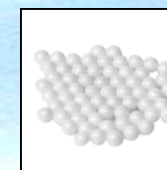
### Bead Media Options

Listed below. Available in pre-filled tubes or in bulk.

#### Ceramic Beads

Ideal for soft animal, plant or human tissues:

- brain
- liver
- skin
- leaves
- muscle, etc.



#### Glass Beads

Ideal for microorganisms

Optimal for:

- spores
- algae
- yeast
- e-coli, etc.



#### Metal Beads

Ideal for any hard tissue types:

- hair
- teeth
- bones
- seeds
- corn
- rice
- nail, etc.



#### Garnet Beads

- Soil
- Fibrous tissues



#### Carbide Beads

Ideal for microbial and soil RNA



### Before & After



### Omni Cryo Cooling Unit

The perfect companion to the **Bead Ruptor**. It keeps samples cool before, after & during processing. Used with liquid nitrogen or dry ice, it maintains a consistent temperature of 4°C for heat sensitive samples.

(Not compatible with the Bead Ruptor 12).

### Bead Ruptor Rack

For sample storage before or after homogenization down to -80°C.

