



**OMNI**  
INTERNATIONAL

The Homogenizer Company™

2015 CATALOG





## Innovative Solutions

Omni International's homogenizers have been a laboratory staple for over 50 years. Omni sets the industry standard with a commitment to outstanding design, performance and a uniquely diversified solution-based product line. We offer a complete portfolio of homogenizers designed for pharmaceutical, life science, biotechnology, agricultural, microbiology and chemical research and development. Our business is strictly homogenizer-focused and we offer the broadest range of solutions to process any sample, including high shear, ultrasonic, mortar and pestle, and bead mill homogenizers.

In response to increased activity in global infectious disease research, Omni was first in designing and developing a patented plastic disposable generator probe, the Omni Tip™, which completely eliminates cross-contamination between samples. Our multi-sample and automated homogenizers set the standard by removing the repetitive labor-intensive work of processing samples one at a time.

## Customer Service

Our staff of engineers and technicians are dedicated to finding solutions that improve sample processing, reduce noise, and improve sample processing efficiency, while our support team works to assure that we routinely exceed our customers' expectations. We are confident that you will find our products and service superior to others.

**Omni International offers no-risk product evaluations for your convenience.**

## Quality and Convenience

Omni products offer the most cost-effective choice for quality, service, and convenience to effectively and efficiently process all types of sample preparation applications, usually in 30 seconds or less. We offer the broadest choice of accessories to process the widest range of samples with user-friendly designs that are easy to clean and maintain. They are also backed by years of solution-based experience and excellent customer service.

Discover for yourself the many benefits that an Omni system has to offer.

The Homogenizer Company™



# Contents



ROTOR-STATOR HOMOGENIZERS 06



ULTRASONIC HOMOGENIZERS 34



BEAD MILL HOMOGENIZERS 38



MANUAL HOMOGENIZERS 48

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#### PAYMENT OPTIONS

Purchase Orders  
Check or Money Orders  
Credit Cards:





# Rotor-stator Homogenizers

High shear laboratory homogenizers are designed to process tough samples quickly and efficiently without compromising the sample. Faster processing times mean less chance of heat degradation to the sample. These motors are available in hand-held or stand-mounted configurations with speeds of up to 35,000 rpm. Homogenizers are a standard piece of equipment for any lab. Not sure which configuration will work best for your application? Contact our technical support team at 1-800-776-4431.







# ROTOR-STATOR HOMOGENIZERS

## Economical Homogenizer ///

### OMNI TISSUE MASTER — Economical Homogenizing Solution

Economically priced **Omni Tissue Masters** are well suited for customers who are homogenizing with little variation in sample size. Omni Tissue Masters include a stainless steel generator probe making it is a great choice for a laboratory with many applications but a limited budget. *Please note: Omni Tip™ Disposable Probes are not compatible with Tissue Master homogenizers.*



#### PRODUCT FEATURES: CE

- Includes choice of 5 mm, 7 mm or 10 mm stainless steel rotor stator probe
- Variable motor speed control from 5,000 to 35,000 rpm
- Most samples processed in under one minute
- Easy to disassemble and clean
- Portable and lightweight
- Hand-held or stand mountable
- Quiet operation, under 72 db
- Processing Range: 0.20 mL to 100 mL
- 1-year motor warranty

### Tissue Master 125 Watt Homogenizer

Ideal for soft tissue applications and emulsions  
Includes 125 watt motor, stainless steel generator probe & instruction manual

Description	Processing Range	Order #
115V Omni Tissue Master 125 with 5 mm Probe	0.20 mL - 5 mL	TM125-115-05
115V Omni Tissue Master 125 with 7 mm Probe	0.25 mL - 30 mL	TM125-115
115V Omni Tissue Master 125 with 10 mm Probe	1.5 mL - 100 mL	TM125-115-10
220V Omni Tissue Master 125 with 5 mm Probe	0.20 mL - 5 mL	TM125-220-05
220V Omni Tissue Master 125 with 7 mm Probe	0.25 mL - 30 mL	TM125-220
220V Omni Tissue Master 125 with 10 mm Probe	1.5 mL - 100 mL	TM125-220-10
Motor Stand Assembly - includes baseplate, post & three prong clamp		F22000

### Tissue Master 125 Watt Homogenizer Package

Includes the Tissue Master 125 homogenizer motor and three stainless steel generator probes (5 mm, 7 mm & 10 mm)

Description	Processing Range	Order #
115V Omni Tissue Master 125 Homogenizer Package	0.20 mL - 100 mL	TMP125-115
220V Omni Tissue Master 125 Homogenizer Package	0.20 mL - 100 mL	TMP125-220

### Tissue Master Generator Probes

Description	Processing Range	Order #
5 mm Tissue Master Probe	0.20 mL - 5 mL	F2107-05
7 mm Tissue Master Probe	0.25 mL - 30 mL	F2107
10 mm Tissue Master Probe	1.5 mL - 100 mL	F2107-10



Shown with optional stand assy (F22000)





## Hand-held or Post-Mountable Homogenizer ///

### OMNI TH — Tissue Homogenizer

The **Omni TH** is a powerful tissue homogenizer that was designed to handle a wide range of samples from 0.20 mL to 100 mL. The TH can usually process a tissue sample in less than 30 seconds. It is compatible with a wide variety of stainless steel generator probes for flexibility in application requirements. Patented Omni Tip™ Disposable Generator Probes, in both soft tissue and hard tissue versions, are available for customers concerned with cross-contamination. Stainless steel generator probes are recommended for larger and tougher sample types.

The Omni TH will accommodate a wide range of applications such as tissue homogenization, emulsions and suspensions, cell disruption, protein extraction and medical research. It is lightweight enough to be hand-held and can also be mounted to a motor stand for convenience.



#### PRODUCT FEATURES: CE

- Powerful 125 watt motor
- Lightweight ergonomic design
- Quiet operation, under 72db
- ¼ turn bayonet probe mounting system for fast release
- Variable speed control from 5,000 to 35,000 rpm with separate power switch to maintain last speed setting
- Available in convenient Omni Tip Homogenizing Kits
- 1-year motor warranty
- Processing Range: 0.20 mL to 100 mL

### Omni TH Tissue Homogenizer

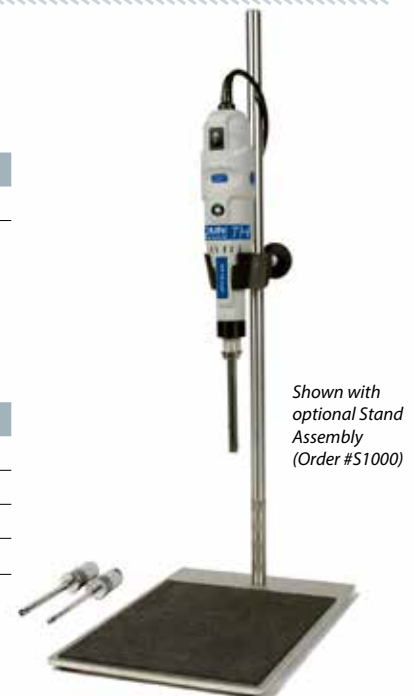
Includes TH motor, tool kit, motor clamp for stand mounting and instruction manual.  
*Omni Tips™ and Stainless Steel Generator Probes sold separately*

Description	Processing Range	Order #
115V Omni TH: Tissue Homogenizer (motor only)	0.20 mL - 100 mL	TH115
220V Omni TH: Tissue Homogenizer (motor only)	0.20 mL - 100 mL	TH220

### Omni TH Homogenizer Package

Includes TH Motor, 3 stainless steel generator probes (5 x 75 mm flat bottom, 7 x 95 mm saw tooth, 10 x 95 mm saw tooth) and motor clamp stand assembly

Description	Order #
115V Omni TH Homogenizer Package	THP115
115V Omni TH & Motor Stand Assembly (no probes)	TH115-K
220V Omni TH Homogenizer Package	THP220
220V Omni TH & Motor Stand Assembly (no probes)	TH220-K
Stand Assembly includes baseplate and rod	S1000



*Shown with optional Stand Assembly (Order #S1000)*



# ROTOR-STATOR HOMOGENIZERS

## Stainless Steel Generator Probes ///

Compatible with Omni TH Homogenizer

**Stainless Steel Generator Probes** are ideal for larger sample volume, larger initial sample size, and tougher tissue types. They are also resistant to most organic solvents commonly used during homogenization.

*Unsure about which probe to order?*

*Call 800-776-4431 or e-mail [sales@omni-inc.com](mailto:sales@omni-inc.com)*



### Stainless Steel Generator Probes

Diameter	Processing Range	Recommended Vessel Size	Length	Type	Resulting Particle Size	Order #
5 mm	0.20 mL - 5 mL	Vessel with a minimum inner diameter of 6 mm	75 mm	Flat bottom	Fine	G5-75
			75 mm	Flat bottom - Wide Window	Coarse	G5-75W
			95 mm	Flat bottom	Fine	G7-95
			95 mm	Flat bottom - Wide Window	Coarse	G7-95W
7 mm	0.25 mL - 30 mL	Vessel with a minimum inner diameter of 8 mm	95 mm	Saw Tooth	Fine	G7-95ST
			95 mm	Saw Tooth - Wide Window	Coarse	G7-95STW
			195 mm	Flat bottom	Fine	G7-195
			195 mm	Flat bottom - Wide Window	Coarse	G7-195W
			195 mm	Saw Tooth	Fine	G7-195ST
			195 mm	Saw Tooth - Wide Window	Coarse	G7-195STW
10 mm	1.5 mL - 100 mL	Vessel with a minimum inner diameter of 12.5 mm	95 mm	Saw Tooth	Fine	G10-95
			95 mm	Saw Tooth - Wide Window	Coarse	G10-95W
			195 mm	Saw Tooth	Fine	G10-195
			195 mm	Saw Tooth - Wide Window	Coarse	G10-195W
			195 mm	Saw Tooth - Wide Window	Coarse	G10-195W

### Stainless Steel Homogenizer Probe Disassembly Tool Kit

*For use with generator probes listed above*

Description	Order #
Stainless Steel Generator Probe Disassembly Tool Kit	T1001



## Omni Tip™ Homogenizing Kits /// Everything you need to homogenize

**Omni Tip™ Homogenizing Kits** include everything you need to homogenize. These kits can be used to process samples with a range of 0.20 mL to 100 mL. They come complete with an Omni TH motor, Omni Tip™ adapter, 12 hard or soft tissue patented Omni Tip™ Disposable Generator Probes (7 mm x 110 mm), tool kit and a convenient storage case. The perfect solution for a small laboratory, this kit is cost effective and will process a wide range of applications for multiple users.

### PRODUCT FEATURES:

- Ideal for applications requiring no cross-contamination, such as RNA, DNA extractions and PCR
- Variable speed controller from 5,000 to 35,000 rpm
- Omni Tips™ are economical and can be disposed of after use or autoclaved up to 7 times
- Kits are also available with stainless steel generator probes for more fibrous/tough samples
- Processing Range with Omni Tips: 0.25 mL - 30 mL
- Processing Range with stainless steel probes: 0.20 mL - 100 mL



### Omni Tip Kit

Each Kit includes Omni Tissue Homogenizer, Omni Tip Adapter, 12 Soft Tissue and Hard Tissue Omni Tips™ (7 mm x 110 mm), storage case, motor mount, tool kit and manual.

Description	Order #
115V Omni Tip Kit with 6 Soft & 6 Hard Tissue Tips	TH115-PCR
220V Omni Tip Kit with 6 Soft & 6 Hard Tissue Tips	TH220-PCR

### Soft Tissue Omni Tip Kit with 12 Omni Tip™ Probes For processing liquids, soft tissues, and samples that require gentle processing

Description	Order #
115V Soft Tissue Omni Tip™ Kit	TH115-PCRD
115V Soft Tissue Omni Tip™ Kit with 5 x 75 mm Stainless Steel Generator Probe (G5-75)	TH115-PCR5D
115V Soft Tissue Omni Tip™ Kit with 7 x 95 mm Stainless Steel Generator Probe (G7-95)	TH115-PCR7D
115V Soft Tissue Omni Tip™ Kit with 10 x 95 mm Stainless Steel Generator Probe (G10-95)	TH115-PCR10D
220V Soft Tissue Omni Tip™ Kit	TH220-PCRD
220V Soft Tissue Omni Tip™ Kit with 5 x 75 mm Stainless Steel Generator Probe (G5-75)	TH220-PCR5D
220V Soft Tissue Omni Tip™ Kit with 7 x 95 mm Stainless Steel Generator Probe (G7-95)	TH220-PCR7D
220V Soft Tissue Omni Tip™ Kit with 10 x 95 mm Stainless Steel Generator Probe (G10-95)	TH220-PCR10D



### Hard Tissue Omni Tip Kit with 12 Omni Tip™ Probes For processing hard or frozen tissue samples

Description	Order #
115V Hard Tissue Omni Tip™ Kit	TH115-PCRH
115V Hard Tissue Omni Tip™ Kit with 5 x 75 mm Stainless Steel Generator Probe (G5-75)	TH115-PCR5H
115V Hard Tissue Omni Tip™ Kit with 7 x 95 mm Stainless Steel Generator Probe (G7-95ST)	TH115-PCR7H
115V Hard Tissue Omni Tip™ Kit with 10 x 95 mm Stainless Steel Generator Probe (G10-95)	TH115-PCR10H
220V Hard Tissue Omni Tip™ Kit	TH220-PCRH
220V Hard Tissue Omni Tip™ Kit with 5 x 75 mm Stainless Steel Generator Probe (G5-75)	TH220-PCR5H
220V Hard Tissue Omni Tip™ Kit with 7 x 95 mm Stainless Steel Generator Probe (G7-95ST)	TH220-PCR7H
220V Hard Tissue Omni Tip™ Kit with 10 x 95 mm Stainless Steel Generator Probe (G10-95)	TH220-PCR10H





# ROTOR-STATOR HOMOGENIZERS

## Hand-held or Post-Mountable Homogenizer ///

### OMNI MICRO HOMOGENIZER — Battery-powered Tissue Homogenizer

The **Omni Micro Homogenizer** is a hand-held battery powered rotor-stator homogenizer designed for use inside or outside of a laboratory setting. The Micro Homogenizer is powered by 12 volt lithium ion battery that provides operating speeds from 5,000 to 30,000 rpm for rapid homogenization of samples in volumes from 0.20 mL to 100 mL. It is an ideal solution for field based homogenization procedures involving the processing of tissues or soft plant material. Compatible with stainless steel generator probes from 5 mm to 10 mm or disposable 7 mm Omni Tip™ disposable generator probes for customers concerned with cross contamination. Hybrid generator probes are also available for applications requiring the durability of stainless steel with the convenience and cleanliness of disposable probes.



#### PRODUCT FEATURES: CE

- Battery-driven cordless 35 watt motor
- Variable speed from 5,000 to 30,000 rpm
- Light weight portable homogenizer
- ¼ turn bayonet probe mounting for fast release
- Compatible with Omni Tip™ disposable probes, hybrid probes and stainless steel generator probes
- 1-year motor warranty

### Omni Micro Homogenizer

Includes Micro Homogenizer motor, 12 volt battery, charging station, tool kit and instruction manual. *Omni Tips™ and Stainless Steel Generator Probes sold separately*

Description	Order #
115V Omni Micro Homogenizer (motor only)	UHB-115
220V Omni Micro Homogenizer (motor only)	UHB-220

### Stainless Steel Generator Probes



**Stainless Steel Generator Probes** are ideal for larger sample volume, larger initial sample tissue size, and tougher tissue types. Stainless Steel Probes are also resistant to most organic solvents commonly used during homogenization. *Compatible with Micro Homogenizer, TH<sub>Q</sub>, Prep 96, LH 96 and Omni Prep Homogenizers.*

Description	Processing Range	Order #
5 mm x 75 mm Stainless Steel Probe	0.2 mL - 5 mL	B5-075
5 mm x 75 mm Stainless Steel Probes (6 pack)	0.2 mL - 5 mL	B5-075-6
7 mm x 110 mm Stainless Steel Probe	0.25 mL - 30 mL	B7-110ST
7 mm x 110 mm Stainless Steel Probe (6 pack)	0.25 mL - 30 mL	B7-110ST-6
10 mm x 110 mm Stainless Steel Probe	1.5 mL - 100 mL	B10-110ST
10 mm x 110 mm Stainless Steel Probe (6 pack)	1.5 mL - 100 mL	B10-110ST-6
12 mm x 110 mm Stainless Steel Probe	1.5 mL - 125 mL	B12-110ST
12 mm x 110 mm Stainless Steel Probe (6 pack)	1.5 mL - 125 mL	B12-110ST-6



## Hand-held or Post-Mountable Homogenizer ///

### OMNI TH<sub>Q</sub> — Digital Hand-held Tissue Homogenizer

The **Omni TH<sub>Q</sub>** is a digital homogenizer that can handle a wide range of samples from 0.20 mL to 120 mL.

It provides reliable, repeatable performance with an **ultra-quiet brushless motor**. An integrated digital speed control stores the last set speed for ultimate repeatability.

The Omni TH<sub>Q</sub> is compatible with Omni Tip™ disposable generator probes, stainless steel generator probes from 5 mm to 12 mm diameter and hybrid steel/plastic Omni Tips.

The Omni TH<sub>Q</sub> is an ideal fit for a wide range of applications from tissue homogenization and dissociation, PD/PK studies, tablet disruption, emulsions and suspensions, cell disruption, food samples, and much more.

#### PRODUCT FEATURES: CE

- Three digit speed readout accurate to +/- <5% at top speed
- Integrated probe feedback to maintain consistent speed
- Whisper Drive Technology™ provides ultra quiet operation
- On-board memory stores last set speed
- ¼ turn bayonet probe mounting for fast release
- Compatible with Omni Tip™ disposable probes, hybrid Omni Tip™ probes and stainless steel generator probes
- Light weight ergonomic design
- 3-year motor warranty
- Speed is adjustable in 500 rpm increments from 8,000 to 32,000 rpm



Shown with optional Stand Assembly (Order #S1000)

### Omni TH<sub>Q</sub> Digital Hand-held Tissue Homogenizer

Includes TH<sub>Q</sub> motor, clamp for stand mounting, 6 Hard and 6 Soft Omni Tip™ Disposable Generator Probes, tool kit, post-clamp motor mount, instruction manual and storage case. *Stainless steel generator probes sold separately*

Description	Order #
Omni TH <sub>Q</sub> Digital Handheld Tissue Homogenizer (universal voltage)	12-500



# ROTOR-STATOR HOMOGENIZERS

## Omni Tip™ Disposable Generator Probes ///

Compatible with TH\*, µHb, TH<sub>Q</sub>, GLH\*, Omni Prep, Prep 96 and LH 96

Patented **Omni Tip™ Generator Probes** are designed to completely avoid cross-contamination between samples. They are engineered from a durable plastic and come in two different configurations for soft tissue and hard tissue. Designed for research involving critical samples at very small volumes, they prevent sample loss with a unique two-piece design and the clear stator tube. These tips are economical to allow for disposal after each use or they can be cleaned and autoclaved up to seven times. Omni Tips™ offer a cost effective solution for customers processing highly sensitive samples where contaminants can affect test results.

### PRODUCT FEATURES:

- Eliminate cross-contamination by disposal after use
- Ideal for PCR, DNA and RNA blot analysis
- Reusable and autoclavable up to 7 times (at 250°F/121°C) \*

*(Note: Polycarbonate outer tube can be compromised when using harsh reagents/solvents. May limit the number of times the Omni Tip™ can be reused. Factors such as sample type, volume and reagent will determine number of uses.)*

- Simple two piece construction for very easy cleaning
- Clear stator tube assures that valuable sample is not trapped or lost in probe
- 80% less protein residue after cleaning than with stainless steel generator probes
- Fraction of the cost of stainless steel generator probes
- Ideal and cost effective for processing multiple samples
- Outer tube comprised of polycarbonate and inner shaft made of Ultem \*

*(Note: Polycarbonate outer tube can be compromised when using harsh reagents/solvents. May limit the number of times the Omni Tip™ can be reused. Factors such as sample type, volume and reagent will determine number of uses.)*

*(Note: Omni Tip Adaptor (Order #A1000SB) required to use Omni Tips with TH, GLH and PDH.)*



Omni Tip™ Plastic Probes  
Patent #6,398,402  
Patent #6,863,431

### Omni Deaggregation Tips (7 mm diameter x 110 mm length)

For processing liquids, soft tissues, and samples that require gentle processing

Description	Order #
25 Omni Deaggregation Tips	30750
50 Omni Deaggregation Tips	32750
100 Omni Deaggregation Tips	34750
500 Omni Deaggregation Tips	35750
1,000 Omni Deaggregation Tips	3M750

### Omni Hard Tissue Tips (7 mm diameter x 110 mm length)

For processing hard or frozen tissue samples

Description	Order #
25 Omni Hard Tissue Tips	30750H
50 Omni Hard Tissue Tips	32750H
100 Omni Hard Tissue Tips	34750H
500 Omni Hard Tissue Tips	35750H
1,000 Omni Hard Tissue Tips	3M750H



## Omni Tip™ Disposable Generator Probes ///

Compatible with TH\*, μHb, TH<sub>Q</sub>, GLH\*, Omni Prep, Prep 96 and LH 96



The **Omni Tip™ Hybrid Probes** combine the convenience of disposable generator probes with the durability of traditional stainless steel probes. Hybrid probes are made up of an outer stainless steel tube with an inner Ultem™ plastic shaft. The plastic shafts can either be disposed of after use or cleaned and reused multiple times. The simple two-piece design makes these probes much easier to clean and disassemble than traditional stainless steel probes.

Description	Processing Range	Order #
7 mm x 110 mm Hybrid Probe	0.2 mL - 30 mL	22-007
7 mm x 110 mm Hybrid Probes (6 pack)	0.2 mL - 30 mL	22-007-6
Replacement Shafts (25 pack)	0.2 mL - 30 mL	301725HT

### Sealed Conical and Flat Bottom Tubes - *Omni Tips™ not included*



Polypropylene conical bottom tubes with sealed caps are compatible with Omni Tip™ disposable generator probes to reduce aerosoling during the homogenization process. Tube caps contain a hole for insertion of the Omni Tip into the tube.

Description	Order #
15 mL Plastic Conical Bottom Tubes with Sealed Caps (25 pack)	00-2015-25
50 mL Plastic Conical Bottom Tubes with Sealed Caps (25 pack)	00-2050-25
4 mL Glass Flat Bottom Tubes with Sealed Caps (25 pack)	00-2004-25
8 mL Glass Flat Bottom Tubes with Sealed Caps (25 pack)	00-2008-25

### Omni Tip™ Adaptor



Required when using Omni Tips™ with the Omni TH, GLH and PDH Homogenizers

Description	Order #
Omni Tip Adaptor	A10005B



# ROTOR-STATOR HOMOGENIZERS

## Powerful Laboratory Homogenizer ///

### OMNI GLH — General Lab Homogenizer

The **Omni GLH** is a powerful, versatile, and durable homogenizer that can handle virtually any processing application. Its high power motor can handle even the toughest tissue samples, and emulsions and dispersions are quickly and easily completed. The Omni GLH is compatible with stainless steel generator probes and Omni Tip™ disposable probes when used in conjunction with the A1000SB Omni Tip™ Adaptor. It has a processing range of 0.20 mL to 10 liters, which makes it one of the most flexible homogenizers available. We recommend stand mounting the GLH.

#### PRODUCT FEATURES: CE

- Powerful 700 watt motor with variable motor speed control from 5,000 to 28,000 rpm
- Compatible with 5, 7, 10, 20, 32 and 35 mm diameter stainless steel generator probes & Omni Tip™ disposable probes (with an Omni Tip™ Adaptor)
- Process sample volumes of 0.20 mL to 10 L
- ¼ turn bayonet probe mounting system for quick connection and release of generator probes
- Ideal for longer processing cycles
- 1-year motor warranty



Shown with optional Stand Assembly (Order #S1000)

### Omni GLH General Lab Homogenizer

Includes 700 watt motor, tool kit, cross rod and stand clamp for mounting and instruction manual. *Omni Tips™ and Stainless Steel Generator Probes sold separately*

Description	Order #
115V Omni GLH: General Lab Homogenizer (motor only)	GLH-115
220V Omni GLH: General Lab Homogenizer (motor only)	GLH-220

### Omni GLH Homogenizer Package

Includes GLH Motor, 3 Stainless Steel Generator Probes (10 x 195 mm saw tooth, 20 x 195 mm saw tooth, 35 x 195mm flat bottom) and Motor Stand Assembly (Order #S1000)

Description	Order #
115V Complete GLH Package	GLHP-115
220V Complete GLH Package	GLHP-220

## GLH Accessories

### Stand Assembly For post-mounted operation

Description	Order #
Optional Motor Stand Assembly	S1000

### Vessel Restraint Disk

The Vessel Restraint Disk can be used to help reduce splashing and contain aerosols during homogenization. This accessory is compatible with 20mm and larger diameter rotor-stator generator probes and with containers up to six inches in diameter. It also helps secure the container during processing. *Note: The Vessel Restraint Disk will not create an air-tight seal. Proper safety measures are necessary when working with dangerous samples.*

Description	Order #
Vessel Restraint Disk	LT-750

Can also be used with the PDH







## Powerful Laboratory Homogenizer ///

### OMNI PDH — Programmable Digital Homogenizer

The **Omni PDH** is a programmable 700 watt motor unit. The digital speed display allows for reproducibility and ease of use. The PDH is a powerful, versatile, and durable homogenizer that can handle virtually any processing application. Its high power motor can handle even the toughest tissue samples, and emulsions and dispersions are quickly and easily completed. The Omni PDH is compatible with stainless steel generator probes and Omni Tip™ disposable probes when used in conjunction with the A1000SB Omni Tip™ Adaptor. It has a processing range of 0.20 mL to 10 liters, which makes it one of the most flexible homogenizers available.

#### PRODUCT FEATURES: CE

- Compatible with 5 mm, 7 mm, 10 mm, 20 mm, 32 mm and 35 mm stainless steel generator Probes & Omni Tip™ disposable probes (with an Omni Tip™ Adaptor)
- Powerful 700 watt motor
- Ideal for lab automation, pilot scale or small batch applications
- Speed control from 1,000 to 28,000 rpm maintains constant speed over wide operating range for accurate (+/- 0.5%) repeatability
- Store up to 12 programs with multiple speed, time, and ramp functions
- 32 digit alpha numeric display
- 1-year motor warranty
- Movable platform stand
- Process sample volumes of 0.2 mL-10 L



### Omni PDH Programmable Digital Homogenizer

Includes 700 watt motor, motor stand assembly, tool kit and instruction manual.  
*Omni Tips™ and Stainless Steel Generator Probes sold separately*

Description	Order #
115V Omni PDH: Programmable Digital Homogenizer (motor only)	PDH-115
220V Omni PDH: Programmable Digital Homogenizer (motor only)	PDH-220

### Omni PDH Homogenizer Package

Includes PDH Motor, 3 Stainless Steel Generator Probes (10 x 195 mm saw tooth, 20 x 195 mm saw tooth, 35 x 195mm flat bottom) and Motor Stand Assembly

Description	Order #
115V Complete PDH Package	PDHP-115
220V Complete PDH Package	PDHP-220



# ROTOR-STATOR HOMOGENIZERS

## Stainless Steel Generator Probes ///

### Compatible with Omni GLH & PDH Homogenizers



### Stainless Steel Homogenizer Probes for GLH & PDH Homogenizers

All generator probes are available in Titanium and custom sizes. Call for pricing.

Omni Homogenizer	Diameter	Processing Range	Recommended Vessel Size	Length	Type	Resulting Particle Size	Order #
Omni TH (TH115/220)	5 mm	0.20 mL - 5 mL	Vessel with a minimum inner diameter of 6 mm	75 mm	Flat bottom	Fine	G5-75
					Flat bottom - Wide Window	Coarse	G5-75W
	7 mm	0.25 mL - 30 mL	Vessel with a minimum inner diameter of 8 mm	95 mm	Flat bottom	Fine	G7-95
					Flat bottom - Wide Window	Coarse	G7-95W
					Saw Tooth	Fine	G7-95ST
					Saw Tooth - Wide Window	Coarse	G7-95STW
					Flat bottom	Fine	G7-195
					Flat bottom - Wide Window	Coarse	G7-195W
	10 mm	1.5 mL - 100 mL	Vessel with a minimum inner diameter of 12.5 mm	195 mm	Saw Tooth	Fine	G7-195ST
					Saw Tooth - Wide Window	Coarse	G7-195STW
					Saw Tooth	Fine	G10-95
					Saw Tooth - Wide Window	Coarse	G10-95W
20 mm	50 mL - 2 L	Vessel with a minimum inner diameter of 22 mm	195 mm	Saw Tooth	Fine	G10-195	
				Saw Tooth - Wide Window	Coarse	G10-195W	
32 mm	75 mL - 10 L	Vessel with a minimum inner diameter of 35 mm	195 mm	Saw Tooth	Fine	G20-195ST	
				Saw Tooth - Wide Window	Coarse	G20-195STW	
35 mm	75 mL - 10 L	Vessel with a minimum inner diameter of 37 mm	195 mm	Tablet Processing	Tablet Processing	G32TT-195	
				Flat bottom	Fine	G35NA-195	
					Flat bottom - Wide Window	Coarse	G35WA-195

### Stainless Steel Homogenizer Probe Disassembly Tool Kit

For use with generator probes listed above

Description	Order #
Stainless Steel Homogenizer Probe Disassembly Tool Kit	T1001



## High Power Homogenizer ///

### OMNI Mixer Homogenizing Systems

**Omni Mixer** and **Omni Macro** Homogenizers offer the perfect mix of dependability, versatility and power. Sealed containers are available in a variety of materials (stainless steel, glass & plastic). Interchangeable blades and rotor-stator generators process a wide range of samples within the same container. Process sample volumes ranging from 0.25 mL to 30 L with speeds ranging from 500 to 20,000 rpm.

#### PRODUCT FEATURES: CE

- 3-year motor warranty
- Powerful 600 or 1,800 watt motor
- Variable speed control 500 to 20,000 rpm
- Quiet operation
- Accessories include generator probes, cutting blades, and sealed chambers
- Accessories are compatible with all Omni Mixers built within the last 60 years

#### Omni Mixer Homogenizer

Includes motor with variable speeds, motor stand assembly, generator probe adapter, tool kit and instruction manual.

*Aerosol Sealed Chambers and Generator Probes sold separately.\**

- 600 watt motor with variable speeds from 500 to 18,000 rpm
- For processing 0.25 mL-10 L



Omni Mixer

Omni Macro

Description	Order #
115V Omni Mixer Homogenizer	17105
220V Omni Mixer Homogenizer	17106

#### Omni Macro Homogenizer

Includes motor with variable speeds, motor stand assembly, generator probe adapter, tool kit and instruction manual. *Aerosol Sealed Chambers and Generator Probes sold separately.\**

- 1,800 watt motor with variable speeds from 1,000 to 20,000 rpm
- For processing 0.25 mL-30 L

Description	Order #
115V Omni Macro Homogenizer	17505
220V Omni Macro Homogenizer	17506



# ROTOR-STATOR HOMOGENIZERS

## Programmable High Power Homogenizer ///

### OMNI MACRO-ES — Programmable Digital High Power Homogenizer

The **Omni Macro-ES** Homogenizer is a programmable, 1,800 watt motor unit. It offers the perfect mix of programmability, versatility, and power. The digital speed display allows for additional reproducibility.

#### PRODUCT FEATURES: CE

- Compatible with all Omni Mixer Accessories
- Powerful 1,800 watt motor
- Quick Connect coupling assembly included
- Ideal for lab automation, pilot scale or small batch applications
- Speed control from 1,000 to 20,000 rpm maintains constant speed over wide operating range for accurate (+/- 0.5%) repeatability
- Store up to 12 programs with multiple speed, time and ramp functions
- 32 digit alpha numeric display
- Movable platform stand
- 3-year motor warranty



### Omni Macro-ES Programmable Homogenizer

Includes 1,800 watt motor with variable speeds, motor stand assembly, Quick Connect coupling assembly, 2 Quick Connect Adapters, generator probe adapter, tool kit and instruction manual. *Chamber Assemblies and Generator Probes sold separately.\**

Description	Order #
115V Omni Macro-ES Homogenizer	MES-115
220V Omni Macro-ES Homogenizer	MES-220

### Omni Macro-ES Homogenizer Package

Includes Macro-ES and 3 Stainless Steel Generator Probes (20 x 195 mm saw tooth, 35 x 195 mm flat bottom, 45 x 195mm flat bottom)

Description	Order #
115V Complete Macro-ES Package	MESP-115
220V Complete Macro-ES Package	MESP-220





## Stainless Steel Generator Probes ///

**Designed for Omni Mixer, Macro & Macro-ES Homogenizers**



### Stainless Steel Homogenizer Probes

All generator probes are available in Titanium and custom sizes. Call for pricing.

Omni Homogenizer	Diameter	Processing Range	Recommended Vessel Size	Length	Type	Resulting Particle Size	Order #
Omni Mixer (17105/17106)	7 mm	0.25 mL - 30 mL	Vessel with a minimum inner diameter of 8 mm	95 mm	Flat bottom	Fine	15007
					Flat bottom - Wide Window	Coarse	15007W
					Saw Tooth bottom	Fine	15007ST
				195 mm	Saw Tooth - Wide Window	Coarse	15007STW
					Flat bottom	Fine	15007L
					Flat bottom - Wide Window	Coarse	15007LW
	10 mm	1.5 mL - 100 mL	Vessel with a minimum inner diameter of 12.5 mm	95 mm	Saw Tooth	Fine	15051
					Saw Tooth - Wide Window	Coarse	15051W
					Saw Tooth	Fine	15010
				195 mm	Saw Tooth - Wide Window	Coarse	15010W
					Saw Tooth	Fine	15201
					Saw Tooth - Wide Window	Coarse	15201W
20 mm	50 mL - 2 L	Vessel with a minimum inner diameter of 22 mm	100 mm	Saw Tooth	Fine	15201	
				Saw Tooth - Wide Window	Coarse	15201W	
				Saw Tooth	Fine	15401	
			145 mm	Saw Tooth - Wide Window	Coarse	15401W	
				Saw Tooth	Fine	15020	
				Saw Tooth - Wide Window	Coarse	15020W	
32 mm	75 mL - 10 L	Vessel with a minimum inner diameter of 35 mm	195 mm	Tablet Processing	Tablet Processing	150-32TT-195	
35 mm	75 mL - 10 L	Vessel with a minimum inner diameter of 37 mm	195 mm	Flat bottom	Fine	150-32NA-195	
				Flat bottom - Wide Window	Coarse	150-35WA-195	
45 mm	200 mL - 25 L	Vessel with a minimum inner diameter of 47 mm	195 mm	Flat bottom	Fine	150-45NA-195	
				Flat bottom - Wide Window	Coarse	150-45WA-195	
55 mm	300 mL - 30 L	Vessel with a minimum inner diameter of 57 mm	195 mm	Flat bottom	Fine	150-55NA-195	
				Flat bottom - Wide Window	Coarse	150-55WA-195	

### Generator Probe Accessories

Description	Order #
Stainless Steel Homogenizer Probe Disassembly Tool Kit	17104
Generator Probe Adapter (one adapter is included with each motor)	15001



# ROTOR-STATOR HOMOGENIZERS

## Omni Mixer Accessories ///

### For use with Omni Mixer, Macro & Macro-ES Homogenizers



#### Quick Connect (QC) Coupling Assembly for Omni Mixer, Macro, Macro ES

The Quick Connect Assembly makes the Omni Mixer homogenizers even more convenient to use. It comes standard on the Omni Macro-ES. To use, attach a Quick Connect Adapter to your chamber assembly or generator probe. Next, slide the Adapter into the Quick Connect Coupling and a retaining ring positions into place for a secure hold. To disconnect, simply slide the ring upward and the processing accessory is conveniently released.

Description	Order #
Quick Connect Kit (includes QC Assembly and 3 QC Adapters)	17215
Quick Connect Coupling (Requires one per motor unit)	17210
Quick Connect Adapter (Requires one per generator or accessory)	17204



#### Vessel Restraint Disk

The Vessel Restraint Disk can be used to help reduce splashing and contain aerosols during homogenization. This accessory is compatible with 20 mm and larger diameter rotor-stator generator probes and with containers up to six inches in diameter. It also helps secure the container during processing. \* Note: Not designed to completely contain aerosols.

Description	Order #
Vessel Restraint Disk	LT-750



18074

18060

#### Micro-Homogenizer Attachment (MHA)

The Micro-Homogenizer Attachment converts your Omni Mixer, Omni Macro or Omni Macro-ES into a Micro-Sample Homogenizer. Sample volume ranges from 0.5 to 5 mL with your choice of either a Stainless Steel or Nylon Insert Chamber.

Description	Order #
MHA with Stainless Steel Chamber	18074
MHA with 12 each Nylon Chambers	18073
Spare Stainless Steel Chamber	18060
12 Spare Nylon Inserts	18068



## Aerosol Sealed Stainless Steel Chamber Assemblies ///

### For use with Omni Mixer, Macro & Macro-ES Homogenizers

Custom configurations are also available. *Call for pricing.*

*Note: Sealed chamber assemblies are a secondary means of protection. Always use the appropriate safety measures when processing pathogens.*

#### PRODUCT FEATURES:

- Fluted to reduce circular flow and enhance processing
- Polished interior to facilitate cleaning
- Available in Titanium



#### 50 mL Sealed Stainless Steel Chamber Assembly

Description	Processing Range	Order #
PTFE Bearings and 1-inch Cutting Blade	13 mL - 50 mL	17077
Oilite Bearings and 1-inch Cutting Blade	13 mL - 50 mL	17061
10 mm diameter generator probe for fine to medium particle sizes	15 mL - 50 mL	15050
10 mm diameter generator probe for medium to coarse particle sizes	15 mL - 50 mL	15050W



#### 200 mL Sealed Stainless Steel Chamber Assembly

Description	Processing Range	Order #
PTFE Bearings and 2-inch Cutting Blade	80 mL - 200 mL	17078
Oilite Bearings and 2-inch Cutting Blade	80 mL - 200 mL	17062
20 mm diameter generator probe for fine to medium particle sizes	100 mL - 200 mL	15200
20 mm diameter generator probe for medium to coarse particle sizes	100 mL - 200 mL	15200W



#### 400 mL Sealed Stainless Steel Chamber Assembly

Description	Processing Range	Order #
PTFE Bearings and 2-inch Cutting Blade	90 mL - 400 mL	17079
Oilite Bearings and 2-inch Cutting Blade	90 mL - 400 mL	17063
20 mm diameter generator probe for fine to medium particle sizes	100 mL - 400 mL	15400
20 mm diameter generator probe for medium to coarse particle sizes	100 mL - 400 mL	15400W



# ROTOR-STATOR HOMOGENIZERS

## Aerosol Sealed Glass Chamber Assemblies ///

**For use with Omni Mixer, Macro & Macro-ES Homogenizers**

*Note: Sealed chamber assemblies are a secondary means of protection. Always use the appropriate safety measures when processing pathogens.*

### PRODUCT FEATURES:

- Allows you to view sample while processing



### 50 mL Sealed Glass Chamber Assembly

Description	Processing Range	Order #
PTFE Bearings and 1-inch Cutting Blade	25 mL - 50 mL	17064
10 mm diameter generator probe for fine to medium particle sizes	25 mL - 50 mL	15064
10 mm diameter generator probe for medium to coarse particle sizes	25 mL - 50 mL	15064W



### 200 mL Sealed Glass Chamber Assembly

Description	Processing Range	Order #
PTFE Bearings and 1-inch Cutting Blade	40 mL - 150 mL	17088
20 mm diameter generator probe for fine to medium particle sizes	40 mL - 150 mL	15088
20 mm diameter generator probe for medium to coarse particle sizes	40 mL - 150 mL	15088W



### 473 mL Sealed Glass Chamber Assembly

Description	Processing Range	Order #
PTFE Bearings and 2-inch Cutting Blade	175 mL - 350 mL	17080
Oilite Bearings and 2-inch Cutting Blade	175 mL - 350 mL	17083
20 mm diameter generator probe for fine to medium particle sizes	150 mL - 350 mL	15080
20 mm diameter generator probe for medium to coarse particle sizes	150 mL - 350 mL	15080W

### 946 mL Sealed Glass Chamber Assembly

Description	Processing Range	Order #
PTFE Bearings and 2-inch Cutting Blade	225 mL - 700 mL	17081
Oilite Bearings and 2-inch Cutting Blade	225 mL - 700 mL	17084
20 mm diameter generator probe for fine to medium particle sizes	200 mL - 700 mL	15081
20 mm diameter generator probe for medium to coarse particle sizes	200 mL - 700 mL	15081W





## Aerosol Sealed Plastic Chamber Assemblies ///

**For use with Omni Mixer, Macro & Macro-ES Homogenizers**

*Note: Sealed chamber assemblies are a secondary means of protection. Always use the appropriate safety measures when processing pathogens.*

**PRODUCT FEATURES:**

- Economical chambers are virtually unbreakable.



### 50 mL Sealed Polycarbonate Chamber Assembly

Description	Processing Range	Order #
PTFE Bearings and 1-inch Cutting Blade	10 mL - 25 mL	17076
10 mm diameter generator probe for fine to medium particle sizes	12 mL - 25 mL	15076
10 mm diameter generator probe for medium to coarse particle sizes	12 mL - 25 mL	15076W



### 473 mL Sealed Polycarbonate Chamber Assembly

Description	Processing Range	Order #
PTFE Bearings and 1-inch Cutting Blade	50 mL - 200 mL	17089
20 mm diameter generator probe for fine to medium particle sizes	65 mL - 200 mL	15089
20 mm diameter generator probe for medium to coarse particle sizes	65 mL - 200 mL	15089W



### 946 mL Sealed Polycarbonate Chamber Assembly

Description	Processing Range	Order #
PTFE Bearings and 2-inch Cutting Blade	175 mL - 375 mL	17065
20 mm diameter generator probe for fine to medium particle sizes	180 mL - 375 mL	15065
20 mm diameter generator probe for medium to coarse particle sizes	180 mL - 375 mL	15065W



### 1,892 mL Sealed Polycarbonate Chamber Assembly

Description	Processing Range	Order #
PTFE Bearings and 2-inch Cutting Blade	250 mL - 800 mL	17097
20 mm diameter generator probe for fine to medium particle sizes	275 mL - 800 mL	15097
20 mm diameter generator probe for medium to coarse particle sizes	275 mL - 800 mL	15097W

### 1,892 mL Sealed Polycarbonate Chamber Assembly

Description	Processing Range	Order #
PTFE Bearings and 2-inch Cutting Blade	400 mL - 1350 mL	17098
20 mm diameter generator probe for fine to medium particle sizes	450 mL - 1350 mL	15098
20 mm diameter generator probe for medium to coarse particle sizes	450 mL - 1350 mL	15098W



# ROTOR-STATOR HOMOGENIZERS

## Generator Probe Selection Guide ///

### For all Omni Rotor-Stator Homogenizers

Omni Homogenizer	Part Number	VOLUME RANGE								Diameter	Length
		10 mL	50 mL	100 mL	500 mL	2 L	10 L	25 L	50 L		
Omni TH (TH115/220) GLH (GLH-115/220) PDH (PDH-115/220)	G5-75	█								5 mm	75 mm
	G5-75W	█								5 mm	75 mm
	G7-95	█	█							7 mm	95 mm
	G7-95W	█	█							7 mm	95 mm
	G7-95ST	█	█							7 mm	95 mm
	G7-95STW	█	█							7 mm	95 mm
	G7-195	█	█							7 mm	195 mm
	G7-195W	█	█							7 mm	195 mm
	G7-195ST	█	█							7 mm	195 mm
	G7-195STW	█	█							7 mm	195 mm
	G10-95	█	█	█						10 mm	95 mm
	G10-95W	█	█	█						10 mm	95 mm
	G10-195	█	█	█						10 mm	195 mm
	G10-195W	█	█	█						10 mm	195 mm
	Omni Mixer (17105/17106) Omni Macro (17505/17506) Omni Macro-ES (MES-115/MES-220)	G20-195ST			█	█					20 mm
G20-195STW				█	█					20 mm	195 mm
G-32TT-195				█	█	█				32 mm	195 mm
G-35NA-195				█	█	█				35 mm	195 mm
G-35WA-195				█	█	█				35 mm	195 mm
15007		█	█							7 mm	95 mm
15007W		█	█							7 mm	95 mm
15007ST		█	█							7 mm	95 mm
15007STW		█	█							7 mm	95 mm
15007L		█	█							7 mm	195 mm
15007LW	█	█							7 mm	195 mm	
15007LST	█	█							7 mm	195 mm	
15007LSTW	█	█							7 mm	195 mm	
15051	█	█	█						10 mm	95 mm	
15051W	█	█	█						10 mm	95 mm	
15010	█	█	█						10 mm	195 mm	
15010W	█	█	█						10 mm	195 mm	
15201			█	█	█				20 mm	100 mm	
15201W			█	█	█				20 mm	100 mm	
15401			█	█	█				20 mm	145 mm	
15401W			█	█	█				20 mm	145 mm	
15020			█	█	█				20 mm	195 mm	
15020W			█	█	█				20 mm	195 mm	
150-32TT-195			█	█	█	█			32 mm	195 mm	
150-35NA-195			█	█	█	█			35 mm	195 mm	
150-35WA-195			█	█	█	█			35 mm	195 mm	
150-45NA-195				█	█	█	█		45 mm	195 mm	
150-45WA-195				█	█	█	█		45 mm	195 mm	
150-55NA-195					█	█	█	█	55 mm	195 mm	
150-55WA-195					█	█	█	█	55 mm	195 mm	
Omni µHb (H115/H220) Omni TH <sub>0</sub> (12-200) Omni TH <sub>B</sub> (THB-01) Omni Prep (06-021)	B5-075	█								5 mm	75 mm
	B7-110ST	█	█							7 mm	110 mm
	B10-110ST	█	█	█						10 mm	110 mm
	22-007	█	█							7 mm	110 mm
	30750	█	█							7 mm	110 mm
	30750H	█	█							7 mm	110 mm



## Chamber Selection Guide ///

### For Omni Mixers, Macro and Macro-ES Homogenizers

Chamber Material	Part Number	VOLUME RANGE					Bearings	Disperser	
		10 mL	50 mL	100 mL	500 mL	750 L			
Stainless Steel	17077		■				PTFE	1-inch Cutting Blade	
	17061		■				Oilite	1-inch Cutting Blade	
	15050		■					10 mm diameter generator probe for fine to medium particles	
	15050W		■					10 mm diameter generator probe for medium to coarse particles	
	17078			■	■		PTFE	2-inch Cutting Blade	
	17062			■	■		Oilite	2-inch Cutting Blade	
	15200			■	■			20 mm diameter generator probe for fine to medium particles	
	15200W			■	■			20 mm diameter generator probe for medium to coarse particles	
	17079			■	■	■	PTFE	2-inch Cutting Blade	
	17063			■	■	■	Oilite	2-inch Cutting Blade	
	15400			■	■	■		20 mm diameter generator probe for fine to medium particles	
	15400W			■	■	■		20 mm diameter generator probe for medium to coarse particles	
	Glass	17064		■				PTFE	1-inch Cutting Blade
		15064		■					10 mm diameter generator probe for fine to medium particles
15064W			■					10 mm diameter generator probe for medium to coarse particles	
17088				■	■		PTFE	1-inch Cutting Blade	
15088				■	■			20 mm diameter generator probe for fine to medium particles	
15088W				■	■			20 mm diameter generator probe for medium to coarse particles	
17080					■	■	PTFE	2-inch Cutting Blade	
17083					■	■	Oilite	2-inch Cutting Blade	
15080					■	■		20 mm diameter generator probe for fine to medium particles	
15080W					■	■		20 mm diameter generator probe for medium to coarse particles	
17081					■	■	PTFE	2-inch Cutting Blade	
17084					■	■	Oilite	2-inch Cutting Blade	
15081					■	■		20 mm diameter generator probe for fine to medium particles	
15081W					■	■		20 mm diameter generator probe for medium to coarse particles	
Plastic	17076		■				PTFE	1-inch Cutting Blade	
	15076		■					10 mm diameter generator probe for fine to medium particles	
	15076W		■					10 mm diameter generator probe for medium to coarse particles	
	17089			■	■		PTFE	1-inch Cutting Blade	
	15089			■	■			20 mm diameter generator probe for fine to medium particles	
	15089W			■	■			20 mm diameter generator probe for medium to coarse particles	
	17065				■	■	PTFE	2-inch Cutting Blade	
	15065				■	■		20 mm diameter generator probe for fine to medium particles	
	15065W				■	■		20 mm diameter generator probe for medium to coarse particles	
	17097				■	■	PTFE	2-inch Cutting Blade	
	15097				■	■		20 mm diameter generator probe for fine to medium particles	
	15097W				■	■		20 mm diameter generator probe for medium to coarse particles	
	17098				■	■	PTFE	2-inch Cutting Blade	
	15098				■	■		20 mm diameter generator probe for fine to medium particles	
15098W				■	■	45 mm	20 mm diameter generator probe for medium to coarse particles		



# ROTOR-STATOR HOMOGENIZERS

## Omni Prep 6-sample Homogenizer ///

The **Omni Prep 6-Sample Homogenizer** is designed to streamline the labor and time intensive homogenization process. It features a brushless motor that is virtually maintenance free, is ultra quiet during operation, and uses about 10% of the power required to process 6 samples individually.

An oscillating sample rack holds up to 6 tubes from 1.5 mL to 50 mL in size and emulates hand processing. Microprocessor control allows the user to program time (up to 10 minutes) and speed (500 - 30,000 rpm). Sample volumes of 0.25 mL to 50 mL can be homogenized using 5, 7 or 10 mm stainless steel generator probes or with Omni Tip™ disposable generator probes.

Omni Tips can be used to completely eliminate cross-contamination as well as the time consuming cleaning step associated with the use of stainless steel generator probes.



### PRODUCT FEATURES: CE

- Process 6 samples per cycle and up to 250 samples per hour
- Utilizes Omni Tip™ Generator Probes
- Compatible with stainless steel generator probes from 5 to 10 mm
- Microprocessor controlled with 3 stored programs
- Speed Control from 500 to 30,000 rpm
- Process most samples in less than 1 minute
- Positive airflow that can be exhausted to a HEPA-filter or Fume Hood
- Sealed and open vessel processing configurations
- Oscillating (up/down) rack for efficient processing of all size samples
- Clear door allows sample viewing and prevents splashing
- Optional ice tray for frozen samples
- Compact design: 15.7in. (40cm) x 7.8 in. (20cm) x 11.8 in. (30cm)
- 1-year motor warranty

### Omni Prep 6-Sample Homogenizer

Includes Omni Prep Motor Drive Unit and User Manual.

Description	Order #
Omni Prep Homogenizer	06-021

**The Omni Prep is sold as a customizable homogenizing system. Please see the following pages to choose the accessories best suited for your processing needs.**

**At least 1 processing rack, 3 tube holders and Omni Tips™ are required to operate the Omni Prep.**



## Omni Prep Accessories ///

### Omni Prep Processing Rack

Movable for highly efficient processing. *Required for operating the Omni Prep.*

Description	Order #
Processing Rack for Omni Prep	06-220



### Rack Tube Holder

Tube holders are available for 1.5-2 mL, 5 mL, 15 mL and 50 mL sample tubes. Custom tube holder size are also available. Each holder holds 2 samples tubes, therefore a total of 3 tube holders must be purchased. *Required for operating the Omni Prep.*

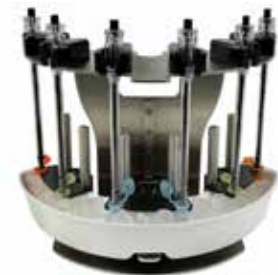
Description	Order #
Rack Tube Holder for 1.5 - 2 mL	06-209-02
Rack Tube Holder for 5 mL	06-209-05
Rack Tube Holder for 15 mL	06-209-15
Rack Tube Holder for 50 mL	06-209-50



### Ice Tray

Keeps frozen and sensitive samples cold during processing. *Rack sold separately.*

Description	Order #
Ice Tray for 1.5 mL-2 mL Tubes	06-207
Ice Tray for 15 mL-50 mL Tubes	06-210





# ROTOR-STATOR HOMOGENIZERS

## Omni Prep Generator Probes ///

### Stainless Steel Generator Probes



Description	Order #
5mm X 75mm Stainless Steel Probe	B5-075
5mm X 75mm Stainless Steel Probes (6 Pack)	B5-075-6
7mm X 110mm Stainless Steel Probe	B7-110ST
7mm X 110mm Stainless Steel Probes (6 Pack)	B7-110ST-6
10mm X 110mm Stainless Steel Probe	B10-110ST
10mm X 110mm Stainless Steel Probes (6 Pack)	B10-110ST-6

### 7 mm Omni Tip™ Hybrid Generator Probes



The **Omni Tip™ Hybrid Probes** combine the convenience of disposable generator probes with the durability of traditional stainless steel probes. Hybrid probes are made up of an outer stainless steel tube with an inner Ultem™ plastic shaft. The plastic shafts can either be disposed of after use or cleaned and reused multiple times. The simple two-piece design makes these probes much easier to clean and disassemble than traditional stainless steel probes.

Description	Order #
7 mm x 110 mm Hybrid Probe	22-007
7 mm x 110 mm Hybrid Probes (6 pack)	22-007-6
Replacement Shafts (25 pack)	301725HT

### Omni Tips™

#### Omni Deaggregation Tips (7 mm diameter x 110 mm length)

For processing liquids, soft tissues, and samples that require gentle processing



Description	Order #
25 Omni Deaggregation Tips	30750
50 Omni Deaggregation Tips	32750
100 Omni Deaggregation Tips	34750
500 Omni Deaggregation Tips	35750
1,000 Omni Deaggregation Tips	3M750

#### Omni Hard Tissue Tips (7 mm diameter x 110 mm length)

For processing hard or frozen tissue samples



Description	Order #
25 Omni Hard Tissue Tips	30750H
50 Omni Hard Tissue Tips	32750H
100 Omni Hard Tissue Tips	34750H
500 Omni Hard Tissue Tips	35750H
1,000 Omni Hard Tissue Tips	3M750H



## Omni Prep 96 ///

### AUTOMATED HOMOGENIZER WORKSTATION

The **Omni Prep 96** is a fully automated sample prep homogenizer workstation designed to eliminate bottlenecks and increase throughput in your lab. Its modular and robust design enables walk away processing of up to 96 samples per batch.

The small footprint of the Prep 96 saves valuable bench top space, and will also fit into most standard bio safety cabinets and fume hoods. The User Interface makes it easy for you to program, save, recall or make changes to existing protocols. The latter ability allows for repeatable results while minimizing the element of human error.

#### PRODUCT FEATURES:

- Walk away automated homogenization
- Reduce the risk of cross contamination
- Increase throughput
- Get consistent results, every time
- Compatible with Omni Tips™, Hybrid and stainless steel generator probes
- Low noise, high repeatability
- Process 4 samples simultaneously; 24 to 96 samples, depending on tube size



### Omni Prep 96 Automated Homogenizer

Omni Prep 96 comes standard with four 40-watt brushless motors, 1 control box, PC, operating software, (1) 96 place Sample Tube Rack, and (10) 96 place Tip holder rack.

Description	Order #
Omni Prep 96 Homogenizer Workstation	51-001-1

### Omni Prep 96 Accessories

Description	Order #
Prep 96 Tip Holder Rack	51-HWR-13
Ultrasonic Bath	51-HWR-08
Sample Tube Holder Rack	51-HWR-11



# ROTOR-STATOR HOMOGENIZERS

## Omni LH 96 ///

### LIQUID HANDLING HOMOGENIZER WORKSTATION

The **Omni LH 96** combines multiple sample prep steps into one versatile, efficient and automated device. Quite literally, what used to take hours can now be completed in a matter of minutes.

This product delivers significantly improved performance in the lab, while saving valuable time and greatly reducing costs related to labor intensive processes. No other device can match the versatility and power of the LH96.

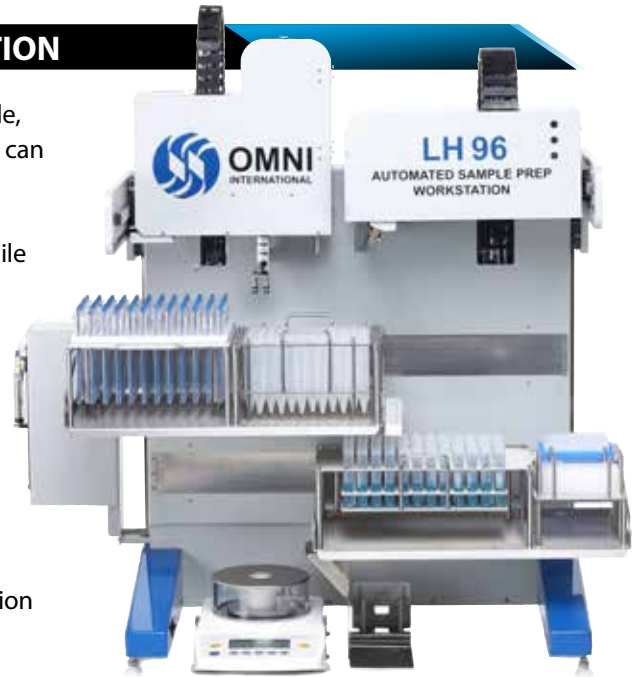
The LH 96 combines a core homogenizing platform, capable of efficiently processing a wide variety of samples, with a fully integrated liquid handling option.

The workstation is compatible with patented Omni Tip™ disposable homogenizing probes, designed to completely avoid cross-contamination between samples during homogenization.

The LH 96 can automatically dispense buffer or diluents based on user defined specifications or actual sample weight. Four independent pipette channels transfer homogenate to 96-well plates or other tube formats.

Bar Code Reader and Automatic Sample Weighing are also available for the LH 96. Integrated sample cooling down to 4°C is also available for those working with frozen and/or delicate samples.

The LH 96 is an ideal instrument for any lab looking to automate processes, especially those who are performing medium to high throughput tissue homogenization.



#### PRODUCT FEATURES:

- Replace your homogenizer, liquid handler, pipette & weighing platform, all in one automated machine
- Speed up your sample prep
- Reduce space in the lab
- Eliminate risk of cross contamination
- Get consistent results, every time
- Walkaway processing
- Fits in a fume hood
- Barcode reading

### Omni LH 96 Automated Homogenizer

Includes 8-sample homogenization platform. Customize by choosing from the following options: Liquid Handling/Automated Sample Transfer, Automated Pipetting, Bar Code Scanning, Sample Weighing and Sample Cooling (Active or Passive)

Description

Order #

Omni LH 96 Homogenizer Workstation

Call for ordering info





## System Specifications ///



**OMNI PREP 96**



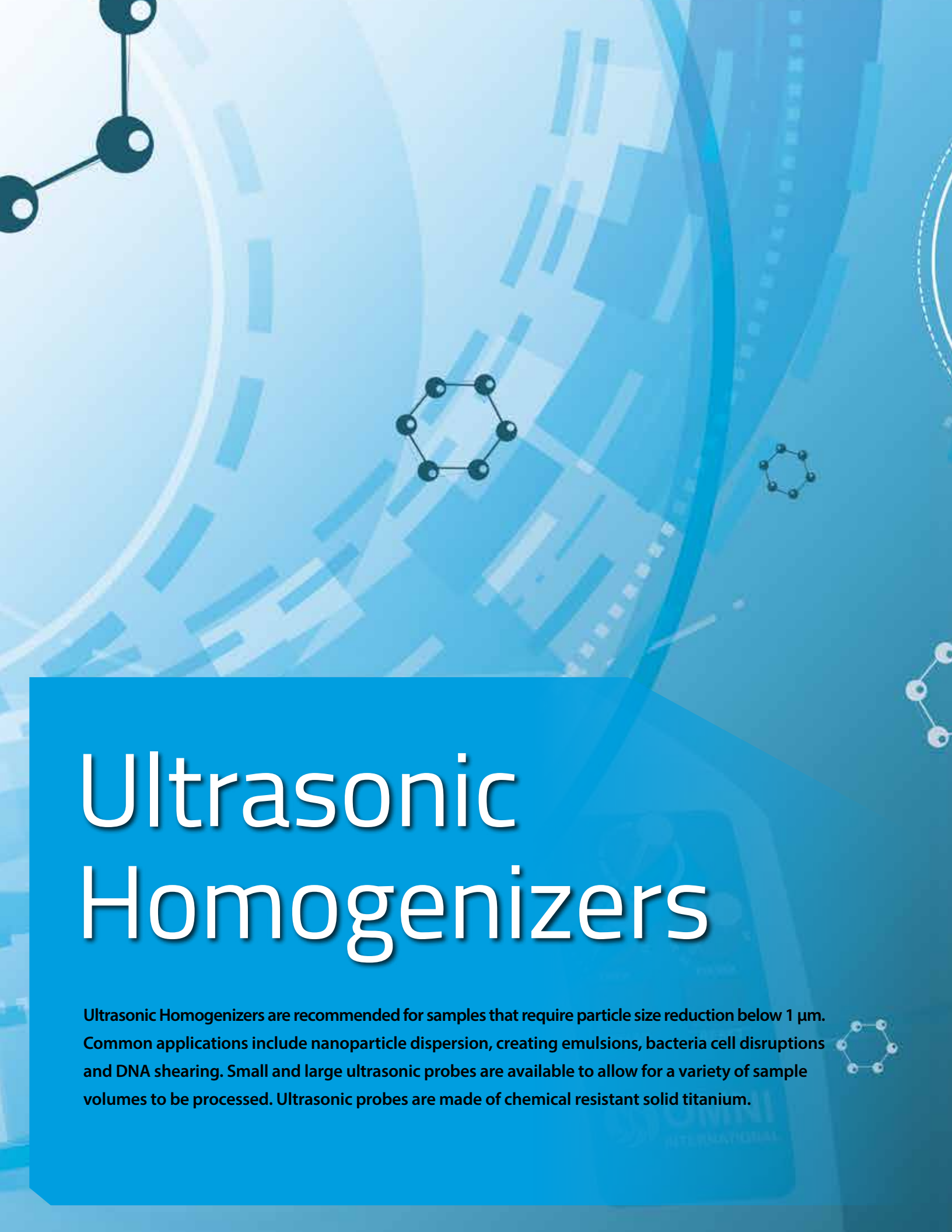
**OMNI LH 96**

Application	Homogenizer only	Homogenizer plus liquid handling
<b>Graphical User Interface (GUI)</b>	PC-based software with GUI. Programs may be customized and stored for rapid call up.	PC-based software with GUI. Programs may be customized and stored for rapid call up.
<b>Sample Capacity</b>	8 samples simultaneously. 24 to 96 samples, depending on tube size.	8 samples simultaneously. 24 to 96 samples, depending on tube size.
<b>Tube Size</b>	2 mL, 5 mL, 14 mL, 15 mL, 20 mL, 35 mL and 50 mL**	2 mL, 5 mL, 14 mL, 15 mL, 20 mL, 35 mL and 50 mL**
<b>Processing Range</b>	.25 mL to 35 mL per tube*	.25 mL to 35 mL per tube*
<b>Generator Probes</b>	Omni Tip™ disposable probes. Hard or soft tissue version. 7 mm x 110 mm length. Omni Tip™ Hybrid probes with stainless steel exterior stator shaft and plastic interior rotor for added versatility. Stainless steel probes (5, 7, or 10 mm diameter) may also be used.	Omni Tip™ disposable probes. Hard or soft tissue version. 7 mm x 110 mm length. Omni Tip™ Hybrid probes with stainless steel exterior stator shaft and plastic interior rotor for added versatility. Stainless steel probes (5, 7, or 10 mm diameter) may also be used.
<b>Cleaning Bath (Optional)</b>	3 stage cleaning bath (for cleaning stainless steel probes). Consists of flush tank, rinse bath and ultrasonic bath.	3 stage cleaning bath (for cleaning stainless steel probes). Consists of flush tank, rinse bath and ultrasonic bath.
<b>Weighing Module</b>		Includes gripper arm & tube adapter, Readability range 0.0001 (g)
<b>Temperature Module</b>		Passive (dry ice) batch cooling module. Active (glycol) cooling module for recirculation of chilled air (<> 4°C).
<b>Bulk Lid Dispenser</b>		5000 µL capacity, accuracy to +/- 1% at full stroke. Capable of dispensing up to 6 separate fluids/reagents.
<b>Bar Code Scanner</b>		2D for reading pre-applied bar code labels.
<b>Pipette Module</b>		4 independent channels, 1000µL tips, liquid level and clog detection, accurate to +/- 2%
<b>Power Rating</b>	Up to 4 x 40 W brushless motors***	8 each 40 W brushless motors
<b>Speed Control</b>	Variable to 28,000 rpm	Variable to 28,000 rpm
<b>Dimensions</b>	37.5 in.(w) x 16 in.(d) x 27 in.(h) 96.5 cm.(w) x 40.6 cm.(d) x 68.6 cm.(h)	40 in.(h) x 28 in.(w) x 20 in.(d) 101 cm(h) x 71.1 cm(w) 50.8 cm(d)
<b>Weight</b>	95 lbs. (43 kg) (base unit)	150 lbs. (68 kg) (base unit)
<b>Sound Level</b>	< 75 db	< 75 db
<b>Electrical Requirements</b>	110VAC or 230VAC (Universal power input)	110VAC or 230VAC (Universal power input)
<b>Environmental Requirements</b>	Operates at ambient room temperature (50-95°F or 15-35°C). Base unit fits into most fume hoods. Custom enclosures available.	Operates at ambient room temperature (50-95°F or 15-35°C). Base unit fits into most fume hoods. Custom enclosures available.
<b>Warranty</b>	1 year	1 year

\* Larger samples possible with the Prep 96 with 100 w motors.

\*\* Other tubes may be adaptable, contact OMNI for details.

\*\*\* Larger motors available on the Prep 96 as custom.



# Ultrasonic Homogenizers

Ultrasonic Homogenizers are recommended for samples that require particle size reduction below 1  $\mu\text{m}$ . Common applications include nanoparticle dispersion, creating emulsions, bacteria cell disruptions and DNA shearing. Small and large ultrasonic probes are available to allow for a variety of sample volumes to be processed. Ultrasonic probes are made of chemical resistant solid titanium.







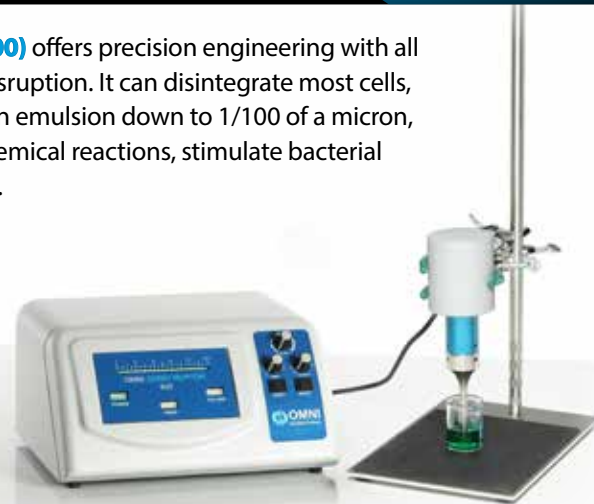
# ULTRASONIC HOMOGENIZERS

## Omni Sonic Ruptor 400 Ultrasonic Homogenizer ///

The **Omni Sonic Ruptor 400 Ultrasonic Homogenizer (SR 400)** offers precision engineering with all the features necessary to create a total system for ultrasonic disruption. It can disintegrate most cells, bacteria, spore or tissue. The Omni Sonic Ruptor can prepare an emulsion down to 1/100 of a micron, homogenize “immiscible” liquids, accelerate enzymatic and chemical reactions, stimulate bacterial activity, disperse solids in liquids, degas liquids and shear DNA.

### PRODUCT FEATURES:

- 400 Watt Max Power (20kHz System)
- Processing Range: 500 µL - 1 L
- Variable power supply
- Auto-tuning for optimal processing efficiency
- Power-emitted display for accuracy and repeatability
- 0-15 minute timer
- Tips compatible with most 20 kHz systems
- Pulse mode for sensitive samples



### Sonic Ruptor 400 Ultrasonic Homogenizer

Includes 400 watt control unit and transducer with variable power output, 2-year warranty, tool kit and instruction manual. *Stand Assembly, Tips, and Accessories sold separately.\**

Description	Order #
115V Omni Sonic Ruptor 400 Homogenizer	18-000-115
220V Omni Sonic Ruptor 400 Homogenizer	18-000-220
Baseplate, stainless steel support post, three prong clamp & clamp holder	18-205

### Sound Abatement Chamber

The Sound Abatement Chamber contains much of the cavitation sound emitted by the Omni Sonic Ruptor 400. This product is recommended for applications that require extended operation. A clear plexiglas door permits viewing of the sample while protecting the operator against accidental splashing.

Description	Order #
Sound Abatement Chamber	OR-A-01

### 250 mL Cup Tip

The 250 mL cup tip consists of a solid titanium tip of 2" diameter with a 250 mL cavity machined into one end. The cup tip acts as a small-batch, closed system. High intensity processing. *The Microtube Tray is required for use with the cup tip.*

Description	Order #
250 mL Cup Tip	OR-C-250
Microtube Tray for OR-C-250 - holds 8 microtubes	OR-C-250-T





## Omni Sonic Ruptor 4000 Ultrasonic Homogenizer ///

The **Omni Sonic Ruptor 4000 Ultrasonic Homogenizer (SR 4000)** has an integrated Sound Control Chamber to contain much of the cavitation sound emitted during processing. It offers precision engineering with all the features necessary to create a total system for ultrasonic disruption. The Omni Sonic Ruptor can disintegrate most cells, bacteria, spore or tissue. It can also prepare an emulsion down to 1/100 of a micron, homogenize “immiscible” liquids, accelerate enzymatic and chemical reactions, stimulate bacterial activity, disperse solids in liquids and degas liquids.

### PRODUCT FEATURES:

- 400 Watt Max Power (20kHz System)
- Processing Range: 500 µL - 1 L
- Integrated Sound Abating Chamber with Clear Plexiglas Door
- Auto-tuning for optimal processing efficiency
- Power-emitted display for accuracy and repeatability
- 0-15 minute timer
- Tips compatible with most 20kHz systems
- Pulse mode for sensitive samples
- Two-year control unit warranty

### Sonic Ruptor 4000 Ultrasonic Homogenizer

Includes 400 watt control unit and integrated Sound Control Chamber with variable power output, 2-year warranty, tool kit and instruction manual. *Tips sold separately.\**



Description	Order #
115V Omni Sonic Ruptor 4000 Homogenizer	OR4000-115
220V Omni Sonic Ruptor 4000 Homogenizer	OR4000-220

## SONIC RUPTOR 400 and 4000 ACCESSORIES

**Solid Titanium Tips** All Solid Tips are of a single-piece design. Each includes a package of five Interface Washers.

Product	Intensity	Tip Size	Processing Range	Order #
5/32" Processing Tip	Very High	Diameter: 5/32" (3.8 mm) Length: 10.1" (25.6 cm)	250 µL - 10 mL	OR-T-156
3/4" Processing Tip	High	Diameter: 3/8" (9.5 mm) Length: 8.6" (21.8 cm)	10 mL - 250 mL	OR-T-375
1/2" Processing Tip	Medium-High	Diameter: 1/2" (12.7 mm) Length: 5.38" (13.65 cm)	10 mL - 300 mL	OR-T-500
1" Processing Tip	Medium	Diameter: 3/4" (19 mm) Length: 4.1" (10.5 cm)	25 mL - 500 mL	OR-T-750
1" Processing Tip	Low	Diameter: 1" (25.4 mm) Length: 4.85" (12.3 cm)	50 mL - 1 L	OR-T-1000



### Continuous Flow Chamber

The Continuous Flow Chamber is designed for continuous processing of liquids and for emulsifying and homogenizing applications. The chamber may be sealed in a closed system so that infectious material can be safely processed. The water flow-through jacket maintains sample temperature at a desired level. *Requires OR-T-750 tip.*

Description	Order #
Continuous Flow Chamber	OR-F-01



# Bead Mill Homogenizers

Bead mills are an ideal solution for high throughput disruption of tough and fibrous samples. Bead Ruptor bead mills are designed to disrupt both soft and hard samples by shaking the sample in a tube pre-filled with beads. Sample disruption is accomplished by multiple high intensity collisions between the sample and bead matrix.

Bead mill homogenizers allow for closed vessel and multiple sample processing with no risk of cross-contamination.



OMNI  
BEAD RUPTOR  
24

PROGRAM: 19°C  
T: 01:00 C: 01:00  
R: 01:00 D: 01:00  
READY



START

STOP



OMNI INTERNATIONAL, INC.  
www.omni-inc.com



# BEAD MILL HOMOGENIZERS

## Bead Mill Homogenizers ///

### OMNI BEAD RUPTOR 4 — Mini Bead Mill Homogenizer

The Omni **Bead Ruptor 4** is the newest addition to Omni's line of bead mill homogenizers. Built upon the innovative design and unsurpassed quality of Omni's Bead Ruptor family, the Bead Ruptor 4 provides powerful performance in a compact design.

Using disposable sample tubes pre-filled with a variety of lysing beads, the Bead Ruptor vigorously and uniformly shakes the tubes providing efficient, consistent, high-yield and quality homogenization usually in less than 30 seconds.

The Omni Bead Ruptor 4 is an ideal solution for releasing DNA, RNA, proteins, enzymes, etc. from very tough and small samples while still retaining molecular integrity.

#### PRODUCT FEATURES: CE

- Homogenizing up to 4 samples in seconds
- Reproducible extraction of proteins and nucleic acids
- Interchangeable 7 mL tube carriage
- Simultaneously processing 4 x 0.5 mL, 4 x 1.5 mL, 4 x 2 mL or 1 x 7 mL sample
- Broad performance range — gentle mixing to high force homogenization
- Small footprint — requires minimal bench space
- 1-year warranty



### Omni Bead Ruptor 4 Mini Bead Mill Homogenizer

Includes Bead Ruptor 4 with integrated 0.5mL, 1.5mL and 2mL tube carriage, 7mL tube carriage, tool kit and User Manual. *Bead Ruptor disposable tubes and bead kits sold separately.*

Description	Order #
Omni Bead Ruptor 4 Mini Bead Mill Homogenizer	25-010





## Bead Mill Homogenizers ///

### OMNI BEAD RUPTOR 12

The **Omni Bead Ruptor 12** is the most powerful and quickest economical bead mill homogenizer available today. The Bead Ruptor 12 is designed with a unique tube carriage motion to ensure that the intra-tube bead movement reduces swirling and results in a high bead impact force. The Bead Ruptor 12 is more powerful than competing bead mills that are twice the cost making it an excellent solution for any lab working with tissues or cellular material.

The Bead Ruptor 12 eliminates the tedious task of screwing down finger plates. The patent pending snap-in tube carriage allows tubes to be “snapped in” and “snapped out” easily, thus decreasing workload and increasing safety. The Bead Ruptor 12 is an ideal bead mill for core laboratories or as a shared resource.



#### PRODUCT FEATURES:

- Simultaneously homogenize up to 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 = non-stop processing
- Disposable tubes ensure no threat of cross-contamination
- Small footprint to maximize bench space
- 1-year warranty

### Omni Bead Ruptor 12 Bead Mill Homogenizing System

Includes Bead Ruptor 12 Drive Unit, Tube Carriage and User Manual. *Bead Ruptor bead tubes sold separately.*

Description	Order #
Omni Bead Ruptor 12 Bead Mill Homogenizing System	19-050

### Omni Bead Ruptor 12 and 24 – 4 x 1.5 mL Microtube Adaptor

1.5 mL microtube adaptor fits in 7 mL tube carriage on Bead Ruptor 12 and 24. Allows 1.5 mL microtubes to be processed.

Description	Order #
Bead Ruptor 12 and 24 Microtube Adaptor, 4-pack	19-353-0150





# BEAD MILL HOMOGENIZERS

## Bead Mill Homogenizers ///

### OMNI BEAD RUPTOR 24

The **Omni Bead Ruptor 24** is the most advanced and powerful bead mill homogenizer available. It is designed for grinding, lysing, and homogenizing biological samples prior to molecular extraction. Available with a wide range of accessories the Bead Ruptor 24 enables processing of samples in volumes ranging from 0.5 mL to 50 mL. The optional Bead Ruptor 24 Cryo Cooling Unit is designed to prevent the increase of sample temperature during the homogenization process.



The Bead Ruptor 24 unique tube carriage motion coupled with sample specific bead beating materials ensure that a thorough homogenate is achieved regardless of the sample type. The high lysing efficiency of the Bead Ruptor 24 results in a increase in nucleic acid, protein and small molecules yields and increases the sensitivity of the downstream assay.

#### PRODUCT FEATURES:

- Wide range of accessories for any sample size - 24 x 0.5 mL, 24 x 1.5 mL, 24 x 2 mL, 12 x 7 mL, 3 x 15 mL, 6 x 30 mL, 3 x 50 mL, or 96-well strip well tubes.
- Most powerful bead mill on the market – homogenize the most challenging samples
- No cool down required between runs: process hundreds of samples per day
- Convenient front loading design, 99 programmable memory settings, and multilingual user interface
- Ideal homogenizer for extraction of DNA, RNA, proteins, and small molecules

### Omni Bead Ruptor 24 Bead Mill Homogenizing System

Includes Bead Ruptor 24 motor drive and User Manual. *Bead Ruptor tube carriages and disposable tubes sold separately.*

Description	Order #
Omni Bead Ruptor 24 Bead Mill Homogenizing System	19-040

### Bead Ruptor Rack

This optional Bead Ruptor Rack is available for storage of 3 loaded 1.5 mL or 2 mL Tube Carriages before and after processing. Rack and Tube Carriages sold separately. *Note: Not compatible with the 7ml, 15 mL, 30 mL and 50 mL tube carriages or 96 strip carriage. Can be refrigerated for precooling samples.*

Description	Order #
Bead Ruptor Rack	19-010-604





## Bead Mill Homogenizer Accessories ///

### For use with Bead Ruptor 24 Bead Mill

The Bead Ruptor 24 is sold as a customizable system. At least 1 tube carriage is required to operate the Omni Bead Ruptor 24.



#### 96 Strip Well Tube Carriage *\* Patent pending. Not compatible with Omni Bead Ruptor Cryo attachment*

Description	Volume	Order #
96 Strip Well Tube Carriage	96 x 1.2 mL tubes	19-010-330



#### 1.5 mL Microtube Carriage Kit

Description	Volume	Order #
1.5 mL Microtube Carriage Kit with Finger Plate	24 x 1.5 mL tubes	19-010-3105
Replacement 1.5 mL Microtube Carriage	24 x 1.5 mL tubes	19-309-025



#### 2 mL Tube Carriage Kit

Description	Volume	Order #
2 mL Tube Carriage Kit with Finger Plate	24 x 2 mL or 24 x 0.5 mL tubes	19-010-310
Replacement 2 mL Tube Carriage	24 x 2 mL or 24 x 0.5 mL tubes	19-010-30902



#### 7 mL Tube Carriage Kit *\* Patent pending.*

Description	Volume	Order #
7 mL Tube Carriage Kit with Lock Ring	12 x 7 mL tubes	19-345-007
Replacement 7 mL Tube Carriage	12 x 7 mL tubes	19-345-107



#### 15 mL Tube Carriage Kit *\* Patent pending. Not compatible with Omni Bead Ruptor Cryo attachment*

Description	Volume	Order #
15 mL Tube Carriage Kit with Lock Ring	3 x 15 mL tubes	19-345-015
Replacement 15 mL Tube Carriage	3 x 15 mL tubes	19-345-115



#### 30 mL Tube Carriage Kit *\* Patent pending. Not compatible with Omni Bead Ruptor Cryo attachment*

Description	Volume	Order #
30 mL Tube Carriage Kit with Lock Ring	6 x 30 mL tubes	19-345-035
Replacement 30 mL Tube Carriage	6 x 30 mL tubes	19-345-135



#### 50 mL Tube Carriage Kit *\* Patent pending. Not compatible with Omni Bead Ruptor Cryo attachment*

Description	Volume	Order #
50 mL Tube Carriage Kit with Lock Ring	3 x 50 mL tubes	19-345-050
Replacement 50 mL Tube Carriage	3 x 50 mL tubes	19-345-150



# BEAD MILL HOMOGENIZERS

## Bead Mill Homogenizer Accessories ///

### BR-CRYO COOLING UNIT — For use with the Bead Ruptor 24

The **BR-Cryo Cooling Unit** is compatible with the Bead Ruptor 24 and is designed to prevent the increase of sample temperature during the homogenization process. Friction generated through the bead milling process generates heat that is imparted to the sample. In order to maintain a constant processing temperature during homogenization, the BR-Cryo passes chilled air (-100°C to -50°C) into the sample processing chamber and across the sample tubes to dissipate heat.

#### PRODUCT FEATURES:

- Adjustable cooling rate
- Compatible with liquid nitrogen or dry ice with ethanol
- BR-Cryo maintains sample temperatures from 4°C to ambient
- Prevent protein degradation
- Ensure RNA stability
- Prevent enzyme activation
- 1-year warranty



### Bead Ruptor BR-Cryo Cooling Unit

The BR-Cryo Cooling Unit keeps samples cool before, after & during processing. Used with liquid nitrogen or dry ice, it maintains a consistent temperature for heat sensitive samples. Compressed air travels through a heat exchanger, where liquid nitrogen or dry ice cool the air prior to moving it across the sample tubes. *Please note: Compressed air and liquid nitrogen or dry ice are required to operate the Cryo Cooling Unit. Some assembly required. Not compatible with Bead Ruptor 4, Bead Ruptor 12, Bead Ruptor 24 (15 mL, 30 mL, 50 mL and 96 strip tube carriages).*



Description	Order #
BR-Cryo Cooling Unit	19-8010



## Pre-filled Bead Mill Tubes ///

### BEAD MILL HOMOGENIZER SUPPLIES

Bead Media	Tube Size	Bead Size	Description	Quantity	Order #	Bead Ruptor Compatibility		
						BR4	BR12	BR 24
<b>Glass</b>	2 mL	0.1 mm	Micro-Organism Lysing Mix	50	19-621	■	■	■
		0.5 mm	Tough Micro-Organism Lysing Mix	50	19-622	■	■	■
<b>Garnet</b>	0.5 mL	0.15 mm	Small Volume Micro-Organism Lysing Mix	50	19-623	■	■	■
	2 mL	0.7 mm	Hard & Fibrous Tissue Homogenizing Mix	50	19-624	■	■	■
<b>Carbide</b>	0.5 mL	0.25 mm	RNA Extractions, Micro-Organism & Soil Homogenizing Mix	50	19-625	■	■	■
	1.5 mL	2.4 mm	Hard Tissue Grinding Mix	50	19-610	■	■	■
<b>Metal</b>	2 mL	2.4 mm	Hard Tissue Grinding Mix	50	19-620	■	■	■
	7 mL	2.4 mm	Hard Tissue Grinding Mix	50	19-670	■	■	■
			Hard Tissue Grinding Mix	50	19-6350			■
	30 mL	2.4 mm	Hard Tissue Impaction Grinding Mix with 1/4" Ceramic	50	19-6350Z			■
<b>Ceramic</b>	0.5 mL	1.4 mm	Small Volume Soft Tissue Homogenizing Mix	50	19-626	■	■	■
	1.5 mL	1.4 mm	Soft Tissue Homogenizing Mix	50	19-617	■	■	5 m/s
		2.8 mm	Hard Tissue Homogenizing Mix	50	19-618	■	■	■
	2 mL	1.4 mm	Soft Tissue Homogenizing Mix	50	19-627	■	■	■
		2.8 mm	Hard Tissue Homogenizing Mix	50	19-628	■	■	■
	7 mL	1.4 mm	Soft Tissue Homogenizing Mix	50	19-677	■	■	■
		2.8 mm	Hard Tissue Homogenizing Mix	50	19-678	■	■	■
	15 mL	2.8 mm	Hard Tissue Homogenizing Mix	50	19-6158			■
			Soft Tissue Homogenizing Mix	50	19-6350			■
	30 mL	1.4 mm	Soft Tissue Impaction Homogenizing Mix with 1/4" Ceramic	50	19-6357Z			■
		2.8 mm	Hard Tissue Homogenizing Mix	50	19-6358			■
			Hard Tissue Impaction Homogenizing Mix with 1/4" Ceramic	50	19-6358Z			■
50 mL	2.8 mm	Hard Tissue Homogenizing Mix	50	19-6508			■	



## Bulk kits /// Kits containing bulk tubes and bulk beads (tubes are not pre-filled with beads)

Bead Media	Tube Size	Bead Size	Bead Quantity	Description	Quantity	Order #
<b>Glass</b>	7 mL	0.1 mm	400 g	Micro-Organism Lysing Mix	50	19-654
		0.5 mm	400 g	Tough Micro-Organism Lysing Mix	50	19-656
<b>Metal</b>	7 mL	2.4 mm	500 g	Hard Tissue Grinding Mix	50	19-655
	30 mL	2.4 mm	500 g	Hard Tissue Grinding Mix	50	19-6350K
<b>Ceramic</b>	7 mL	1.4 mm	325 g	Soft Tissue Homogenizing Mix	50	19-652
		2.8 mm	325 g	Hard Tissue Homogenizing Mix	50	19-653
	30 mL	1.4 mm	325 g	Soft Tissue Homogenizing Mix	50	19-6357K
		2.8 mm	325 g	Hard Tissue Homogenizing Mix	50	19-6358K





# BEAD MILL HOMOGENIZERS

## Bulk Bead Mill Tubes ///

### BEAD MILL HOMOGENIZER SUPPLIES

#### Tube Selection Guide

Tube Size	VOLUME RANGE						
	20 µL	100 µL	1 mL	5 mL	15 mL	30 mL	50 mL
0.5 mL	20 µL - 300 µL						
1.2 mL stripwell	20 µL - 800 µL						
1.5 mL	20 µL - 1.5 mL						
2 mL		100 µL - 1.8 mL					
7 mL			1 mL - 5 mL				
15 mL				5 mL - 15 mL			
30 mL					5 mL - 30 mL		
50 mL						5 mL - 50 mL	



Omni Bead Ruptor	Tube Size	Description	Quantity	Order #
	0.5 mL	Non-reinforced Tubes with caps	500	19-650
<b>Bead Ruptor 4</b> (25-010)	1.5 mL	Polypropylene microtube, RNase, DNase free	500	19-661
			1,000	19-661-1000
<b>Bead Ruptor 12</b> (19-050)	2 mL	Non-reinforced Tubes with caps	500	19-647
			1,000	19-648
<b>Bead Ruptor 24</b> (19-040)	7 mL	Reinforced Tubes with caps	500	19-649
			1,000	19-651-500
	1.2 mL	Rack of 96 Strip Well Tubes	10 racks	19-696
<b>Bead Ruptor 24</b> (19-040)	15 mL	Empty Tubes with caps	100	19-6615
			500	19-6615-500
			100	19-6635
			500	19-6635-500
	50 mL	Empty Tubes with caps	100	19-6650

## Bulk beads /// For Omni Bead Mill Homogenizers, Certified RNase/DNase free

Bead Media	Bead Size	Bead Quantity	Description	Order #
<b>Glass</b>	0.1 mm	400 g	Fills 500 x 2 mL tubes	19-641
	0.5 mm	400 g	Fills 500 x 2 mL tubes	19-642
<b>Garnet</b>	0.15 mm	500 g	Fills 500 x 2 mL tubes	19-643
	0.7 mm	500 g	Fills 500 x 2 mL tubes	19-644
<b>Ceramic</b>	1.4 mm	325 g	Fills 500 x 2 mL tubes	19-645
	2.8 mm	325 g	Fills 500 x 2 mL tubes	19-646
<b>Metal</b>	2.4 mm	500 g	Fills 500 x 2 mL tubes	19-640





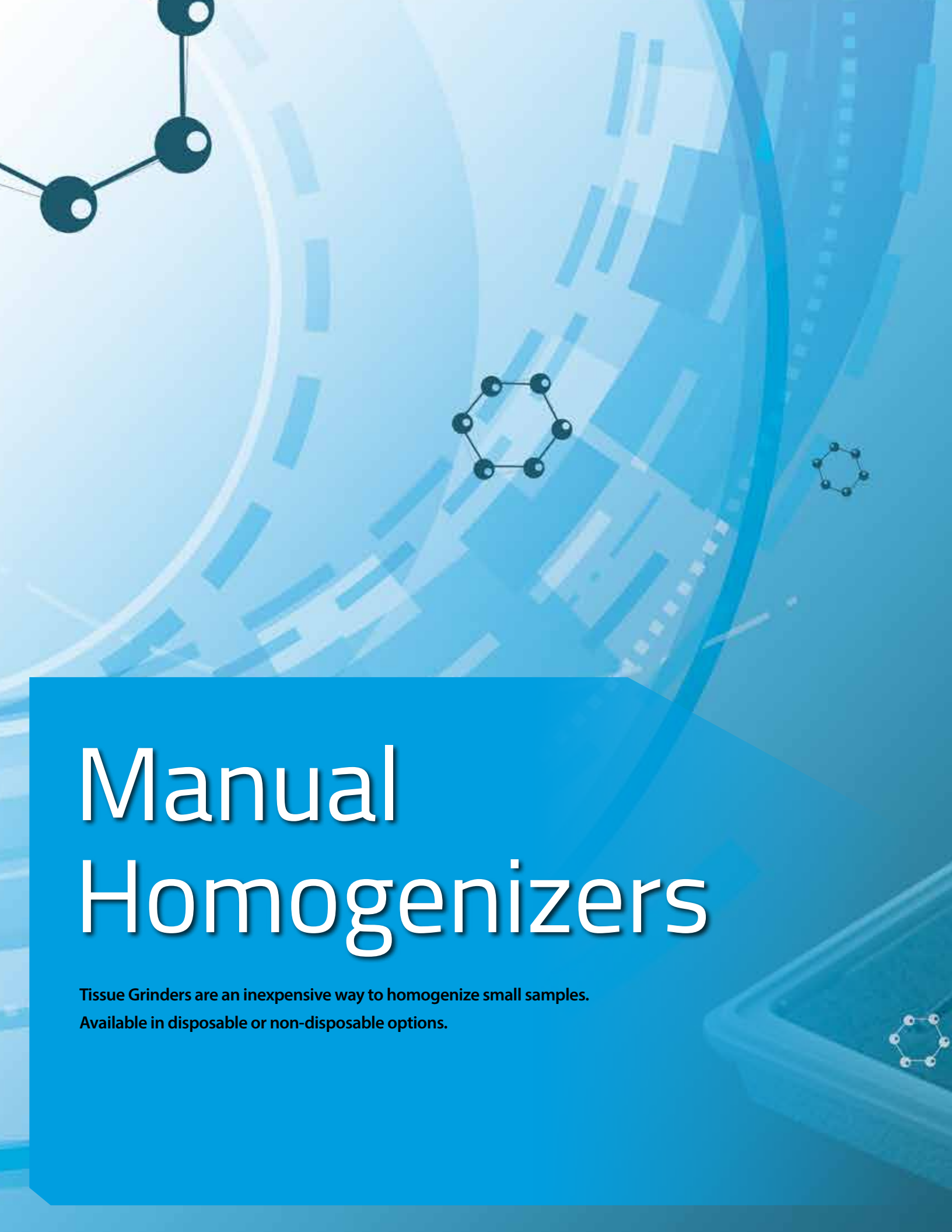
## Bead Mill Tubes ///

### BEAD MILL HOMOGENIZER SUPPLIES

#### Bead Selection Guide

SAMPLE TYPE	BEAD MEDIA						
	Glass		Garnet		Ceramic		Metal
	0.1 mm	0.5 mm	0.15 mm	0.7 mm	1.4 mm	2.8 mm	2.4 mm
Bacteria/ Cultured Cells	█						
Spores		█					
Yeast/Fungi		█					
Algae/Plankton		█					
Soft Soil/Sediment/ Waste Water			█				
Clay/Faeces/ Sludge				█			
Soft Tissues Brain, Liver, Kidney					█	█	
Hard Tissues Heart, Muscle, Skin						█	
Plant Material						█	
Dry Grinding							█
Dense Biological Material Hair, Bone, Seeds							█



The background features a light blue gradient with abstract, semi-transparent shapes and patterns. On the left, there is a molecular structure with three black spheres connected by lines. In the center, there is a hexagonal ring of six black spheres. On the right, there is a smaller hexagonal ring of six black spheres. In the bottom right corner, there is a petri dish containing a grid of small white circles, with a hexagonal ring of six black spheres overlaid on it.

# Manual Homogenizers

Tissue Grinders are an inexpensive way to homogenize small samples.  
Available in disposable or non-disposable options.







# MANUAL HOMOGENIZERS

## Glass Homogenizers ///

### DOUNCE TISSUE GRINDERS

**Dounce Tissue Grinders** are often used to disrupt cells for the extraction of cell products including proteins, RNA and DNA. This grinder design is usually “stroked” a certain number of times to extract cell products or nuclei with minimal disruption. Each set contains both a tight and a loose fitting pestle.

Size (mL)	Grinding Chamber OD x Length (mm)	Overall Length (mm)	Quantity / Case	Order #
1	11 x 48	125	2	07-357538
7	13 x 82	175	2	07-357542
15	22 x 94	210	2	07-357544
40	32 x 140	285	2	07-357546



### TENBROECK TISSUE GRINDERS

**Tenbroeck Tissue Grinders** have a hollow handle that allows packing with ice, making them suitable for liver, intestines and heart tissue. The ice reduces the stress on the cells, helping to maintain cell viability and increase viable cell count.

Size (mL)	Grinding Chamber OD x Length (mm)	Overall Length (mm)	Quantity / Case	Order #
1	11 x 48	140	2	07-357421
2	11 x 50	140	2	07-357422
7	16 x 82	190	2	07-357424
15	22 x 94	250	2	07-357426
40	32 x 140	320	2	07-357428



### POTTER-ELVEHJEM GRINDERS

The **Potter-Elvehjem Grinder** with Teflon® pestle is well suited for soft tissue, such as brain and liver. The design of this grinder allows for quick homogenization of the tissue.

Size (mL)	Grinding Chamber OD x Length (mm)	Overall Length (mm)	Quantity / Case	Order #
2	11 x 45	203	2	07-358029
5	13 x 66	219	2	07-358034
10	16 x 74	219	2	07-358039
15	19 x 84	219	2	07-358044
30	24 x 118	266	2	07-358049
55	30 x 130	266	2	07-358054



**Overhead Stirrer** The Overhead Stirrer is a compact unit with solid state speed control capable of providing RPM/torque combinations for most laboratory operations such as homogenizing or mixing. *For use with the Potter-Elvehjem Tissue Grinders.*

Description	Order #
Overhead Stirrer	07-903475

**Micro Tissue Grinder Kit** The Micro Tissue Grinder Kit offers a selection of 7 micro tissue grinders, assuring the availability of the right style for the job. Contains: 1 mL Tenbroeck, 0.5 mL G.P.I., 1 mL Dounce, 2 mL Potter-Elvehjem, 1 mL Tapered, 0.1 mL Potter-Elvehjem, and 0.2 mL micro tissue grinders.

Description	Order #
Micro Tissue Grinder Kit	07-358204





## Single Use Homogenizers ///

### BIOMASHER

The **BioMasher™** is an essential tool for any researcher working with nucleic acid extraction, protein extraction, and many types of cell disruption. Its proprietary design consists of a homogenizer for grinding your sample, an 80-145µm column for straining, and a collection tube to contain the final homogenate. This system can be used on a wide variety of tissues, and is an ideal preparatory step of amplification and other downstream applications. BioMashers are also autoclavable for sterile applications.

#### PRODUCT FEATURES:

- Ideal for nucleic acid extraction, protein extraction, and many types of cell disruption
- Consists of a homogenizer for grinding, an 80-145µm column for straining, and a collection tube to contain the final homogenate
- Tubes available in 1.5 mL or 2 mL sizes
- Available with an O-Ring for soft samples and without an O-Ring for harder tissues
- Ideal for sample preparation in conjunction with Omni Tip™ disposable probes



#### BioMasher Single Use Homogenizer

*Sample packs are also available. Call for pricing.*

Description	Quantity	Order #
BioMasher 1.5 mL	50	09-A10-050
	300	09-A10-300
BioMasher 1.5 mL with O-Ring	50	09-A11-050
	300	09-A11-300
BioMasher 2 mL	50	09-A12-050
	300	09-A12-300
BioMasher 2 mL with O-Ring	50	09-A13-050
	300	09-A13-300





**OMNI**  
INTERNATIONAL

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