

# VORTEX MIXERS

## BASIC & ADVANCED Vortex Mixers

### Basic Vortex Mixer

- Fixed high speed mixing
- Touch mode operation

Starts mixing when the cup head is pressed down. Speed is fixed at full rpm to provide vigorous vortexing of samples.

Includes both cup head and three-inch head with cover. 2 year limited warranty on parts and labor.



| Specifications                |                                   |
|-------------------------------|-----------------------------------|
| <b>Speed Range</b>            | 120V 3200rpm<br>230V 2500rpm      |
| <b>Orbit</b>                  | 0.194" (4.9mm)                    |
| <b>Controls</b>               | None                              |
| <b>Dimensions (L x W x H)</b> | 8 x 4 x 5.5" (20.3 x 10.2 x 14cm) |
| <b>Ship Weight</b>            | 11.7lbs (5.3kg)                   |

| Ordering Information          |                              |             |          |  |
|-------------------------------|------------------------------|-------------|----------|--|
| Description                   | Electrical (50/60 Hz)        | Part Number | Price    |  |
| Basic Vortex Mixer            | 120 V   1.2 amps   150 watts | 945610      | \$255.00 |  |
| Basic Vortex Mixer            | 230 V   0.6 amps   150 watts | 945611      | \$277.00 |  |
| Basic Vortex Mixer UK Plug    | 230 V   0.6 amps   150 watts | 945612      | \$277.00 |  |
| Basic Vortex Mixer Euro Plug  | 230 V   0.6 amps   150 watts | 945613      | \$277.00 |  |
| Basic Vortex Mixer Swiss Plug | 230 V   0.6 amps   150 watts | 945614      | \$277.00 |  |

### Advanced Vortex Mixer

- LED displays for speed and time
- Continuous or touch mode operation
- Microprocessor controls

Ideal for applications that demand repeatable results. Microprocessor control maintains set speed for strong, consistent mixing action. Timer will display elapsed time or when programmed to user defined time limit, the unit will shut off when time reaches zero. Two modes of operation; continuous mode when using accessory attachments or touch mode which activates mixing when depressing the cup head.

Includes both cup head and three-inch head with cover. 2 year limited warranty on parts and labor.



| Specifications                |                                                                                                         |
|-------------------------------|---------------------------------------------------------------------------------------------------------|
| <b>Speed Range</b>            | 120V 500 to 3000rpm<br>230V 500 to 2500rpm                                                              |
| <b>Timer</b>                  | 1 second to 160 hours                                                                                   |
| <b>Orbit</b>                  | 0.194" (4.9mm)                                                                                          |
| <b>Controls</b>               | Auto/Standby/On Rocker Switch,<br>LED Displays For Time/Speed,<br>Up/Down Buttons For Set-Point Control |
| <b>Dimensions (L x W x H)</b> | 8 x 4 x 5.5" (20.3 x 10.2 x 14cm)                                                                       |
| <b>Ship Weight</b>            | 11.7lbs (5.3kg)                                                                                         |

| Ordering Information             |                              |             |          |  |
|----------------------------------|------------------------------|-------------|----------|--|
| Description                      | Electrical (50/60 Hz)        | Part Number | Price    |  |
| Advanced Vortex Mixer            | 120 V   1.2 amps   150 watts | 945603      | \$372.00 |  |
| Advanced Vortex Mixer            | 230 V   0.6 amps   150 watts | 945616      | \$383.00 |  |
| Advanced Vortex Mixer Euro Plug  | 230 V   0.6 amps   150 watts | 945617      | \$383.00 |  |
| Advanced Vortex Mixer UK Plug    | 230 V   0.6 amps   150 watts | 945618      | \$383.00 |  |
| Advanced Vortex Mixer Swiss Plug | 230 V   0.6 amps   150 watts | 945619      | \$383.00 |  |

\* Maximum speed will vary depending on accessory used.

### Standard Vortex Mixer

- Variable, analog speed control
- Continuous or touch mode operation

Control allows low rpm startup for gentle shaking or high speed mixing for vigorous vortexing of samples. Two modes of operation; continuous mode when using accessory attachments or touch mode which activates mixing when depressing the cup head.

Includes both cup head and three-inch head with cover. 2 year limited warranty on parts and labor.

| Specifications                |                                                                       |
|-------------------------------|-----------------------------------------------------------------------|
| <b>Speed Range</b>            | 120V 300 to 3200rpm<br>230V 300 to 2500rpm                            |
| <b>Orbit</b>                  | 0.194" (4.9mm)                                                        |
| <b>Controls</b>               | Auto/Off/On Rocker Switch,<br>Speed Knob: Variable 1 to 10 Dial Marks |
| <b>Dimensions (L x W x H)</b> | 8 x 4 x 5.5" (20.3 x 10.2 x 14cm)                                     |
| <b>Ship Weight</b>            | 11.7lbs (5.3kg)                                                       |

### Pulsing Vortex Mixer

- LED displays for time and speed
- Continuous or touch mode operation
- Microprocessor controls
- Glass bead cell disruption/homogenization

Powerful pulsing vortex action produces excellent cell disruption for glass bead procedures. Capable of complete cell disruption of samples in only minutes. Unique pulsing action reduces heat generation while providing more effective mixing and disruption. Displayed time counts up during continuous operation and counts down during timed runs.

Includes an easy-to-load 1.5mL to 2mL Micro-Tube Holder. Holder has a built-in cup head. 2 year limited warranty on parts and labor.

| Specifications                |                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Speed Range</b>            | 120V 500 to 3000rpm<br>230V 500 to 2500rpm                                                                              |
| <b>Timer</b>                  | 1 second to 160 hours                                                                                                   |
| <b>Orbit</b>                  | 0.098" (2.5mm)                                                                                                          |
| <b>Controls</b>               | Auto/Standby/On Rocker Switch,<br>LED Displays For Time/Speed,<br>Up/Down Buttons For Set-Point Control<br>Pulse Button |
| <b>Dimensions (L x W x H)</b> | 8 x 4 x 5.5" (20.3 x 10.2 x 14cm)                                                                                       |
| <b>Ship Weight</b>            | 11.7lbs (5.3kg)                                                                                                         |

\* Maximum speed will vary depending on accessory used.



### Ordering Information

| Description                      | Electrical (50/60 Hz)        | Part Number | Price    |
|----------------------------------|------------------------------|-------------|----------|
| Standard Vortex Mixer            | 120 V   1.2 amps   150 watts | 945600      | \$316.00 |
| Standard Vortex Mixer            | 230 V   0.6 amps   150 watts | 945601      | \$316.00 |
| Standard Vortex Mixer UK Plug    | 230 V   0.6 amps   150 watts | 945604      | \$344.00 |
| Standard Vortex Mixer Euro Plug  | 230 V   0.6 amps   150 watts | 945605      | \$344.00 |
| Standard Vortex Mixer Swiss Plug | 230 V   0.6 amps   150 watts | 945606      | \$344.00 |



### Ordering Information

| Description                     | Electrical (50/60 Hz)        | Part Number | Price    |
|---------------------------------|------------------------------|-------------|----------|
| Pulsing Vortex Mixer            | 120 V   1.2 amps   150 watts | 945620      | \$499.00 |
| Pulsing Vortex Mixer            | 230 V   0.6 amps   150 watts | 945621      | \$520.00 |
| Pulsing Vortex Mixer Euro Plug  | 230 V   0.6 amps   150 watts | 945622      | \$520.00 |
| Pulsing Vortex Mixer UK Plug    | 230 V   0.6 amps   150 watts | 945623      | \$520.00 |
| Pulsing Vortex Mixer Swiss Plug | 230 V   0.6 amps   150 watts | 945624      | \$520.00 |

# VORTEX MIXERS

## Accessories

### Micro-Tube Holder

Mixes (48) 0.25 to 2mL micro-tubes.  
Requires Insert Retainer.

|                            | Part Number | Price   |
|----------------------------|-------------|---------|
| Micro-Tube Holder (2 pack) | 945638      | \$45.00 |
| Insert Retainer            | 945631      | \$89.00 |



### Micro-Well Plate Holder

Ideal for mixing 96-well plates or deep well blocks.  
Requires Insert Retainer.

|                                  | Part Number | Price   |
|----------------------------------|-------------|---------|
| Micro-Well Plate Holder (2 pack) | 945639      | \$45.00 |
| Insert Retainer                  | 945631      | \$89.00 |



### 9 to 13mm Tube Holder

Ideal for mixing 5mL culture tubes and micro-vials.  
Requires Insert Retainer.

|                                | Part Number | Price   |
|--------------------------------|-------------|---------|
| 9 to 13mm Tube Holder (2 pack) | 945634      | \$20.00 |
| Insert Retainer                | 945631      | \$89.00 |



### Flat Foam Insert

Ideal for custom applications. Can be cut or drilled to fit your specifications. Requires Insert Retainer.

|                           | Part Number | Price   |
|---------------------------|-------------|---------|
| Flat Foam Insert (2 pack) | 945644      | \$19.00 |
| Insert Retainer           | 945631      | \$89.00 |



### 14 to 19mm Tube Holder

Ideal for mixing up to (8) 15mL centrifuge tubes.  
Requires Insert Retainer.

|                                 | Part Number | Price   |
|---------------------------------|-------------|---------|
| 14 to 19mm Tube Holder (2 pack) | 945635      | \$20.00 |
| Insert Retainer                 | 945631      | \$89.00 |



### Ampule Tube Holder

Mixes up to 4 storage vials and test tubes.

|                               | Part Number | Price    |
|-------------------------------|-------------|----------|
| 15 to 17mm Ampule Tube Holder | 945647      | \$85.00  |
| 10 to 17mm Ampule Tube Holder | 945648      | \$120.00 |



### 20 to 25mm Tube Holder

Ideal for mixing up to (8) 50mL centrifuge tubes.  
Requires Insert Retainer.

|                                 | Part Number | Price   |
|---------------------------------|-------------|---------|
| 20 to 29mm Tube Holder (2 pack) | 945636      | \$20.00 |
| Insert Retainer                 | 945631      | \$89.00 |



### Stainless Steel Tube Holder

Mixes up to (12) 1.5 to 5mL tubes. Stainless steel construction.

| Part Number | Price    |
|-------------|----------|
| 945646      | \$185.00 |



### Vessel Harness

Mixes Erlenmeyer flasks and media bottles.  
Requires Insert Retainer.

|                         | Part Number | Price   |
|-------------------------|-------------|---------|
| Vessel Harness (2 pack) | 945633      | \$6.00  |
| Insert Retainer         | 945631      | \$89.00 |



### Micro-Tube and Micro-Well Plate Holder Kit

Includes: 1 Micro-Tube Holder  
1 Micro-Well Plate Holder  
1 Insert Retainer

| Part Number | Price   |
|-------------|---------|
| 945637      | \$79.00 |



### Cup Head

Designed for mixing 1 tube at a time.

|          | Part Number | Price   |
|----------|-------------|---------|
| Cup Head | 945643      | \$25.00 |



### 3" Rubber Head Cover and 3" Head

Designed for mixing irregular shaped objects.

|                                   | Part Number | Price   |
|-----------------------------------|-------------|---------|
| 3" (7.6cm) Rubber Head Cover      | 945642      | \$25.00 |
| 3" (7.6cm) Head                   | 945641      | \$25.00 |
| 3" (7.6cm) Head with Rubber Cover | 945651      | \$35.00 |



### Tube Holder Kit

Includes: (1) 9 to 13mm Tube Holder  
(1) 14 to 19mm Tube Holder  
(1) 20 to 29mm Tube Holder  
1 Flat Foam Insert  
2 Vessel Harnesses  
1 Insert Retainer

| Part Number | Price    |
|-------------|----------|
| 945630      | \$135.00 |



 Talboys Vortex Mixer accessories are interchangeable with other manufacturers' models. Call Talboys for assistance.

### Single Tube Holder

Single tube, hands free mixing. Easily attaches to the top of any Vortex Mixer with the use of a strong magnetic base. Accepts tubes from 2.5 to 4.5" (6.4 to 11.4cm) in length. Minimum tube diameter of 0.75" (19mm). Patent Pending.

| Part Number | Price    |
|-------------|----------|
| 945659      | \$115.00 |



### Single Tube Holder Accessories

#### 0.5mL Micro-Tube Holder

Mixes (24) 0.5mL micro-tubes. For use with Single Tube Holder.

| Part Number | Price   |
|-------------|---------|
| 945655      | \$50.00 |

#### 1.5 to 2mL Micro-Tube Holder

Mixes (18) 1.5 to 2mL micro-tubes. For use with Single Tube Holder.

| Part Number | Price   |
|-------------|---------|
| 945656      | \$50.00 |



#### Adapter for Vortex-Genie® Mixer\*

Adapter plate easily adheres to the Vortex-Genie® Mixer housing so Single Tube Holder (sold separately) can be attached.

| Part Number | Price   |
|-------------|---------|
| 945660      | \$59.00 |

\*The Vortex-Genie® Mixer is a registered trademark of Scientific Industries, Inc.

## Grinding Media

### 200 Micron Zirconium Beads

#### Acid Washed Zirconium Grinding Beads

This high-density bead has enormous grinding energy; resulting in reduced grinding times. Beads have been acid washed to remove contaminants.

Application: Suitable for yeast and bacterial spores.

|                 | Part Number | Price    |
|-----------------|-------------|----------|
| 250 gram bottle | 930117      | \$151.00 |

#### Molecular Biology Grade Zirconium Grinding Beads

Treated to be DNase/RNase-free, these beads are useful for the preparation of samples for molecular biology applications.

Application: Preparation of cells for Real Time PCR.

|                 | Part Number | Price    |
|-----------------|-------------|----------|
| 250 gram bottle | 930118      | \$206.00 |

#### Low Protein Binding Zirconium Grinding Beads

High impact, low binding beads with low concentrations of protein.

Application: Protein analysis of yeasts and bacteria.

|                 | Part Number | Price    |
|-----------------|-------------|----------|
| 250 gram bottle | 930119      | \$226.00 |

### 400 Micron Silica/Glass Beads

#### Acid Washed Silica/Glass Beads

Useful for standard applications.

Application: Good for disrupting molds and yeast.

|                 | Part Number | Price    |
|-----------------|-------------|----------|
| 200 gram bottle | 930111      | \$114.00 |

#### Molecular Biology Grade Silica/Glass Beads

Treated to be DNase/RNase-free, these beads are useful for preparing samples for molecular analysis.

Application: Molecular applications for disrupting molds and yeast.

|                 | Part Number | Price    |
|-----------------|-------------|----------|
| 200 gram bottle | 930112      | \$151.00 |

#### Low Protein Binding Silica/Glass Beads

These treated beads are low protein binding and useful for homogenizing samples for protein analysis.

Application: Disruption of molds/yeasts for high protein recovery.

|                 | Part Number | Price    |
|-----------------|-------------|----------|
| 200 gram bottle | 930113      | \$189.00 |

### 800 Micron Silica/Glass Beads

#### Acid Washed Silica/Glass Beads

Excellent impact energy due to their larger size.

Application: Good general grinding media for fungi and spores.

|                 | Part Number | Price    |
|-----------------|-------------|----------|
| 200 gram bottle | 930114      | \$114.00 |

#### Molecular Biology Grade Silica/Glass Beads

Beads are DNase/RNase-free treated and useful for the preparation of samples for molecular applications and analysis.

Application: Useful for disrupting fungi and spores.

|                 | Part Number | Price    |
|-----------------|-------------|----------|
| 200 gram bottle | 930115      | \$151.00 |

#### Low Protein Binding Silica/Glass Beads

Beads adsorb less protein than standard beads and are useful when high protein recovery is necessary.

Application: Best choice for preparation of filamentous fungi, spores or pollen that require high protein recovery.

|                 | Part Number | Price    |
|-----------------|-------------|----------|
| 200 gram bottle | 930116      | \$189.00 |

# VORTEX MIXERS

## STANDARD Multi-Tube Vortexers

- Process up to 50 samples at a time
- Continuous or timed operation



### Operating Features:

Conveniently angled front panel features rocker switch for run, time, and standby modes.

**Microprocessor control:** The variable speed microprocessor control provides consistent uniform mixing action.

**Adjustment knobs:** Basic speed and time knobs with 1 to 10 dial settings.

### Operating Conditions:

Unit can be run from 18 to 33°C (64 to 91°F).

### Applications:

Suspensions, high throughput testing in clinical, environmental, and chemistry labs



### Specifications

|                                |                                          |
|--------------------------------|------------------------------------------|
| Speed Range                    | 1200 to 2400rpm                          |
| Timer                          | 0 to 60 seconds                          |
| Orbit                          | 3.6mm                                    |
| Maximum Weight Capacity        | 10lbs (4.5kg)                            |
| Tray Dimensions (L x W)        | 12.25 x 7.25" (31.1 x 18.4cm)            |
| Overall Dimensions (L x W x H) | 15.1 x 9.5 x 16" (38.4 x 24.1 x 40.6 cm) |
| Ship Weight                    | 42lbs (19.1kg)                           |

### Ordering Information

Unit includes a 92" (234cm) detachable, 3-wire cord and plug (230 volt units are supplied with Euro type plug). Unit is also supplied with a Tray Pad Set for support and one, 12mm Test Tube Foam Rack (945072). 2 year limited warranty on parts and labor.

### Standard Multi-Tube Vortexer

| Description                  | Electrical (50/60 Hz)    | Part Number | Price      |
|------------------------------|--------------------------|-------------|------------|
| Standard Multi-Tube Vortexer | 120V   5 amps   75 watts | 945007      | \$1,999.00 |
| Standard Multi-Tube Vortexer | 230V   1 amp   75 watts  | 945008      | \$2,175.00 |

\* Maximum speed will vary depending on load.

- Process up to 50 samples at a time
- Displays for speed and time
- Pulsing mode

Ideal for applications requiring accuracy and repeatability.

### Operating Features:

**Microprocessor control:** The variable speed microprocessor control provides consistent uniform mixing action.

**LED display:** Touch pad controls with easy-to-read, independent LED displays for speed and time allow operator to view both settings at once. Provides repeatable and accurate results every time and is easily visible across lab benches. Timer will display elapsed time or when programmed to user defined limit, will shut off unit when time reaches zero. Display will show last used settings, even after power has been turned off.

**Pulsing mode:** Programmable pulsing mode allows user to adjust the pulse-on and pulse-off times between 1 and 59 seconds in 1 second intervals. This feature enhances the vortex action by creating a more vigorous mix.

### Operating Conditions:

Unit can be run from 18 to 33°C (64 to 91°F).

### Applications:

Suspensions, high throughput testing in clinical, environmental, and chemistry labs



| Specifications                 |                                          |
|--------------------------------|------------------------------------------|
| Speed Range                    | 500 to 2500rpm                           |
| Speed Accuracy                 | ±25rpm                                   |
| Timer                          | 1 second to 160 hours                    |
| Orbit                          | 3.6mm                                    |
| Maximum Weight Capacity        | 10lbs (4.5kg)                            |
| Tray Dimensions (L x W)        | 12.25 x 7.25" (31.1 x 18.4cm)            |
| Overall Dimensions (L x W x H) | 15.1 x 9.5 x 16" (38.4 x 24.1 x 40.6 cm) |
| Ship Weight                    | 42lbs (19.1kg)                           |

## Ordering Information

Unit includes a 92" (234cm) detachable, 3-wire cord and plug (230 volt units are supplied with Euro type plug). Unit is also supplied with a Tray Pad Set for support and one, 12mm Test Tube Foam Rack (945072). 2 year limited warranty on parts and labor.

| Advanced Multi-Tube Vortexer |                          |             |            |
|------------------------------|--------------------------|-------------|------------|
| Description                  | Electrical (50/60 Hz)    | Part Number | Price      |
| Advanced Multi-Tube Vortexer | 120V   5 amps   75 watts | 945065      | \$2,999.00 |
| Advanced Multi-Tube Vortexer | 230V   1 amp   75 watts  | 945066      | \$2,999.00 |

\* Maximum speed will vary depending on load.

# VORTEX MIXERS

## Accessories

### Foam Test Tube Racks



| Description                                          | Tube Capacity | Color  | Dimensions (L x W x H)             | Part Number | Price   |
|------------------------------------------------------|---------------|--------|------------------------------------|-------------|---------|
| 10mm Test Tube Foam Rack                             | 50            | Gray   | 5.5 x 9.5 x 2" (14 x 24.1 x 5.1cm) | 945071      | \$22.00 |
| 12mm Test Tube Foam Rack                             | 50            | Blue   | 5.5 x 9.5 x 2" (14 x 24.1 x 5.1cm) | 945072      | \$22.00 |
| 13mm Test Tube Foam Rack                             | 50            | Yellow | 5.5 x 9.5 x 2" (14 x 24.1 x 5.1cm) | 945073      | \$22.00 |
| 16mm Test Tube Foam Rack (for 15mL centrifuge tubes) | 50            | Green  | 5.5 x 9.5 x 2" (14 x 24.1 x 5.1cm) | 945074      | \$30.00 |
| 25mm Test Tube Foam Rack                             | 28            | White  | 5.5 x 9.5 x 2" (14 x 24.1 x 5.1cm) | 945076      | \$30.00 |
| 29mm Test Tube Foam Rack (for 50mL centrifuge tubes) | 15            | Red    | 5.5 x 9.5 x 2" (14 x 24.1 x 5.1cm) | 945075      | \$30.00 |
| Replacement Tray Pad Set (upper & lower)             | N/A           | Gray   | 7 x 12 x 1" (17.8 x 30.5 x 2.5cm)  | 945010      | \$33.00 |

### Post Extension Kit

Adds 6" (15.2cm) to the post of the Multi-Tube Vortex Mixer to accommodate tubes up to 10" (25.4cm) tall.

| Description        | Part Number | Price    |
|--------------------|-------------|----------|
| Post Extension Kit | 945009      | \$109.00 |



**Don't see the accessory that you need?  
Need a custom vortex mixer?**

Custom Vortex Mixers and accessories are available.  
Call customer service at 1-888-Talboys for more information.