



 **Cole-Parmer®**

ORBITAL SHAKERS,  
ROCKERS, AND ROTATORS

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HIGH-PERFORMANCE SHAKER  
SOLUTIONS FOR THE LAB



# Cole-Parmer® Orbital Shakers, Rockers, and Rotators

## OUR ORBITAL AND ROCKING SHAKERS OFFER ALL THE FEATURES FOUND IN OTHER BRANDS AT A MORE AFFORDABLE PRICE

These shakers provide a smooth continuous orbital or rocking motion for the uniform mixing of delicate samples.

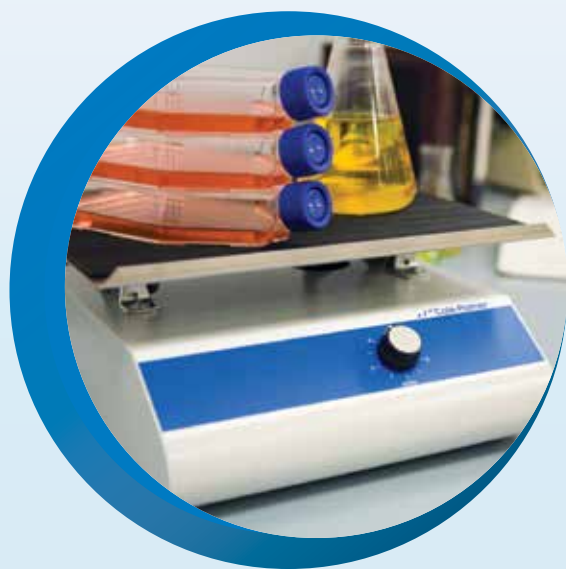
- Variable-speed control provides gentle to vigorous motion to accommodate a variety of applications
- Nonslip platform is perfect for petri dishes, culture bottles, and flasks
- Gentle ramping up to set speed decreases risk of spills
- Analog operating systems offer affordability
- Digital systems include continuous run and preset run modes for repeatable results
- Can be used in environments up to 40°C and 95% humidity—perfect for use in incubators and environmental chambers



Stable circular motion of the orbital shakers generates perfect oxygen and nutrient delivery without splashing or shearing

### APPLICATIONS

- Cell culture
- Staining
- De-staining
- Hybridization
- Blotting membranes
- Washing procedures
- General laboratory mixing



Adjustable-tilt, large-capacity platforms on rocking shakers accommodate large vessels

## OUR UNIQUE ROTATORS PROVIDE GENTLE BUT EFFICIENT MIXING IN ALMOST ANY TYPE OF CONTAINER

- Efficiently mix the contents of test tubes, flasks, and bottles
- Variable speed of 3 to 80 rpm provides gentle to vigorous agitation
- Adjustable rotation angle controls the amount of mixing—rotate samples horizontally for minimal rolling, vertically for end-over-end, or anywhere in between
- Operates in temperatures up to 40°C and relative humidity ranging from 20 to 80%—great for use in incubators
- Quick and easy loading and removal of sample vessels reduces the chance of accidental spills and breakage
- Interchangeable discs and disc clips provide flexibility for sample vessel size and type



### APPLICATIONS

- Aerating cultures
- Keeping biological samples in suspension
- Liquid extractions
- Hybridizations
- Prepare homogenous dispersions
- General mixing applications



**In the U.S.**

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**International customers**

Call 847-549-7600 to reach our  
International Sales Department  
or contact your local dealer.



**FREE TECHNICAL  
APPLICATIONS ASSISTANCE!**

## PERFORMANCE SPECIFICATIONS

Catalog number (115 VAC)	Catalog number (230 VAC)	Platform dimensions	Speed range	Max load	Orbit size/ shaking angle	Ambient conditions	Overall dimensions
<b>Orbital shaker</b>							
<a href="#">ML-51300-00</a>	<a href="#">ML-51300-10</a>	10" x 10"	50 to 350 rpm	12 lb	1" dia	35 to 149°F (2 to 65°C), 80% RH	11"W x 5½"H x 11"D
<b>Digital orbital shakers</b>							
<a href="#">ML-51820-30</a>	<a href="#">ML-51820-35</a>	12" x 12"	40 to 360 rpm	10 lb	1" dia	23 to 104°F (-5 to 40°C), 75% RH	12"W x 10"H x 6"D
<a href="#">ML-51820-40</a>	<a href="#">ML-51820-45</a>	16" x 16"					
<a href="#">ML-51820-50</a>	<a href="#">ML-51820-55</a>	20" x 20"					
<b>Slow-speed rocking shaker</b>							
<a href="#">ML-51301-00</a>	<a href="#">ML-51301-05</a>	10" x 10"	0 to 15 rpm	20 lb	7° from horizontal (fixed)	14 to 149°F (-10 to 60°C), 75% RH	10"W x 5½"H x 11"
<b>Adjustable-tilt rocking shakers</b>							
<a href="#">ML-51401-01</a>	<a href="#">ML-51401-06</a>	14" x 11"	4 to 160 rpm	10 lb	0 to 20° from (horizontal adjustable)	35 to 149°F (2 to 65°C), 85% RH	12"W x 7"H x 16"D
<a href="#">ML-51401-11*</a>	<a href="#">ML-51401-16*</a>						
<b>Digital rocking shakers</b>							
<a href="#">ML-51820-00</a>	<a href="#">ML-51820-05</a>	12" x 12"	0 to 225 rpm	10 lb	0 to 40° from (horizontal adjustable)	23 to 104°F (-5 to 40°C), 75% RH	12"W x 6"H x 10"D
<a href="#">ML-51820-10</a>	<a href="#">ML-51820-15</a>	16" x 16"					
<a href="#">ML-51820-20</a>	<a href="#">ML-51820-25</a>	20" x 20"					
<b>Three-dimensional motion rocking shaker</b>							
<a href="#">ML-51702-00</a>	<a href="#">ML-51702-05</a>	16" x 14"	0 to 25 rpm	8 lb	6° from horizontal (fixed), 3-D	41 to 104°F (5 to 40°C), 85% RH	13¼"W x 4¼"H x 10"D
<b>Variable speed rotator</b>							
<a href="#">ML-07637-21</a>	<a href="#">ML-07637-22</a>	—	3 to 80 rpm	—	±45°	23 to 104°F (-5 to 40°C), 85% RH	8"W x 8"H x 9½"D

\*Double platform