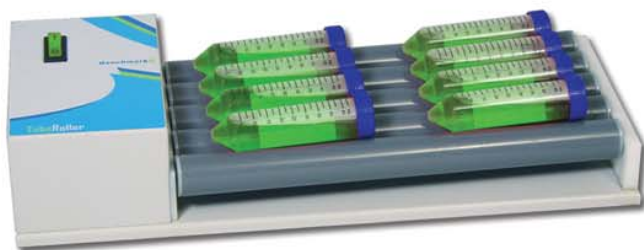


TUBE ROLLER

Tilting ROLLER FOR TUBES AND BOTTLES



R3010



R3005

Benchmark TubeRollers are designed for the gentle, thorough mixing of a variety of containers, including Vacutainers™, bottles, test tubes, centrifuge tubes and roller bottles. Both models (5 roller and 10 roller) operate at a constant 38rpm, chosen as the optimum speed for the broadest range of mixing requirements.

As the roller mechanism rotates through each complete revolution, the right side of each roller is gently elevated about 0.5 in (13mm) and returns to the horizontal starting position. This additional, gentle up/down motion provides a "wave" effect and guarantees that the entire sample is subjected to complete, thorough mixing, end to end. This built in tilt feature provides a level of homogeneous mixing uniformity that can not be matched by any stationary roller apparatus.

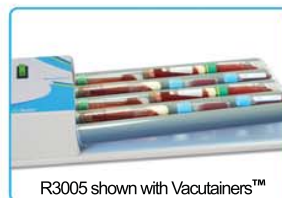
From blood collection tubes to roller bottles, Benchmark TubeRollers are the ideal choice for research, clinical laboratories and doctors' offices.

Ordering Information

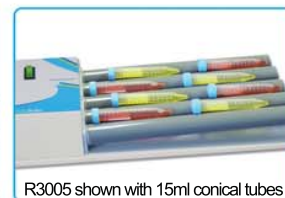
R3005* TubeRoller with 5 rollers, 115V
R3010* TubeRoller with 10 rollers, 115V

* 115V with US plug. For 230V (EU plug), please add (-E)

- + Gentle rolling motion
- + Smooth +/- 5° tilt action
- + For tubes/bottles from 8mm to 200mm diameter



R3005 shown with Vacutainers™



R3005 shown with 15ml conical tubes

Typical Sample Load Capacity:

Vessel	R3005	R3010
12 x 75mm tubes	12	26
16 x 100mm tubes	8	18
16 x 125mm tubes	8	18
15ml screw cap tubes	8	18
50ml screw cap tubes	8	18
850cm ² roller bottles	1	2

Technical Data

Speed: Fixed, 38 rpm (+/-10%)
 Motion: Simultaneous roll & tilt (+/- 5°)
 Operating Temp: +4° to 40°C (external ambient temp.)

	R3005	R3010
Number of Rollers:	5	10
Dimensions (cm):	45 x 18 x 9	45 x 36 x 9
Dimensions (in):	18 x 7 x 3.5	18 x 14 x 3.5
Weight:	5kg / 11 lbs	8kg / 17.6 lbs

Individual Roller Dims.: 3 x 32 cm (1.2 x 12.5 in)
 Vessels Accepted: 8mm to 200mm diameter
 Roller Spacing: 5mm; rollers are on 35mm centers
 Electrical: 120V, 60Hz or 230V, 50-60Hz
 Warranty: 2 years

Benchmark 
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Benchmark 

Roto-Bot™

PROGRAMMABLE ROTATOR



- + *Advanced programming with a wide variety of rotational modes*
- + *Set for full 360° rotation, or interrupt rotations with pausing and mixing intervals*
- + *Slow rotating to vigorous mixing*
- + *Cold room and incubator safe*
- + *Accepts tubes from 1.5 to 50ml*
- + *Optional rocking platform*



Roto-Bot

Roto-Bot Mini



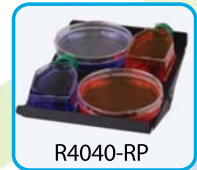
Tube Holder Capacity & Ordering Information:

Item Number:	R4040-1520	R4040-150	R4040-500	R4040-HZ15	R4040-HZ50
Description:	6 x 1.5ml	1 x 15ml	1 x 50ml	6 x 15ml	6 x 50ml
Tube Diameter:	10 to 13mm	16 to 17mm	28 to 30mm	16 to 17mm	28 to 30mm
Orientation:	Dual*	Vertical	Vertical	Horizontal	Horizontal
Holder Capacity (Mini/Standard):	10 / 16	10 / 22	6 / 12	1 / 2	1 / 2
Tube Capacity (Mini/Standard):	60 / 96	10 / 22	6 / 12	6 / 12	6 / 12
Package Unit:	Pack of 2	Pack of 2	Pack of 2	1 ea.	1 ea.

* The Unique, dual attachment points of the 6 x 1.5ml holder allow for mixing in both the vertical and horizontal orientation.

The RotoBot™ Rotating Mixers feature advanced programming options that far surpass that of the traditional laboratory rotator. With digital speed control and more than 10 operating modes, the RotoBot can be selected to perform a wide variety of rotating, mixing and vibrating actions. In addition, these actions can be combined in succession using the C1 and C2 “Custom Modes”, providing the user with a nearly infinite level of programming.

The RotoBot and RotoBot Mini each include an assortment of vertical tube holders. The Mini model is supplied with holders for 12 x 1.5ml tubes, 2 x 15ml & 2 x 50ml tubes; the standard model, 30 x 1.5/2.0ml, 8 x 15ml & 2 x 50ml tubes. For higher capacity applications, more of these holders can be purchased as accessories. In addition, horizontal holders are available for applications such as Western blotting and hybridization. The unique, sliding attachment allows for quick and easy changing of tube holders.



R4040-RP

For rocking applications, a platform with a non-slip rubber mat is available. Once attached, simply select the “PP” mode to turn the rotator into a platform rocker.

Motion Mode Chart:

F1	F2	F3	F4	F5	F6	F7	F8	F9	--	C1 C2	PP*	Key:		
										Custom Mode	Platform Rocking Mode			

Technical Data:

Speed Range: 1 to 80rpm
 Capacity (R4040): 6 x 50ml, 10 x 15ml or 60 x 1.5ml
 Capacity (R4045): 12 x 50ml, 22 x 15ml or 84 x 1.5ml
 Timer: 1 sec. to 99 hours 59 min. / Cont.
 Dimensions (R4040) 11.4 x 5.4 x 7.8 in / 29 x 13.7 x 19.9cm
 W x D x H (R4045) 16.1 x 5.4 x 7.8 in / 41 x 13.7 x 19.9cm
 Operating Temp. Range: +2°C to +70°C
 Weight: 4 lbs/1.8 kg (Mini) / 5 lbs/2.27kg (Std.)
 Electrical: 100 to 240V, 50-60Hz, 3A

Ordering Information:

R4040* RotoBot Mini with tube holder starter set
 Includes 6x1.5ml holders (2ea.)
 1x15ml holder (2ea.) & 1 x 50ml holder (2ea)

R4045* RotoBot with with tube holder starter set
 Includes 6x1.5ml holders (5ea.)
 1x15ml holder (8ea.) & 1x50ml holder (2ea)

R4040-RP Rocking Platform (w/ flat mat) for R4040, 6 x5.5 in.
R4045-RP2 Rocking Platform (w/ flat mat) for R4040, 6 x10 in.
 * Includes US plug. For EU plug, please add (-E)



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Benchmark ROTATING MIXER



- + Adjustable speed & tilt angle
- + Reversing mode for more vigorous mixing
- + Cold room and incubator safe
- + Includes three rotisseries for all common tube sizes

Included Rotisseries:



48 x 1.5ml
(48 x 10-140mm tubes)



20 x 15ml
(20 x 15-200mm tubes)



12 x 50ml
(12 x 25-350mm tubes)

The Benchmark Rotating Mixer provides gentle to vigorous mixing of laboratory samples up to 50ml. With adjustable speed control and tilt angle, the Rotating Mixer is ideal for a variety of applications, from mixing blood samples to the preparation of homogenous dispersions.

Three rotisserie tube holders are included for mixing all common laboratory sample tubes and each individual tube holder is constructed of rubber coated steel to provide a secure grip, preventing any "wobble" or loosening during mixing at high speeds.

A unique reversing mode is selectable for more intense mixing. In reversing mode, the mixer rotates for up to 360° then stops and rotates in the reverse direction. This back and forth motion occurs repeatedly until the set time has expired.

With included accessories and unique mixing options, Benchmark's Rotating Mixer offers increased flexibility that is not commonly found with traditional laboratory rotators.

Technical Data:

Speed Range:	1 to 40rpm
Tilt Angle:	0° to 90° (truly horizontal)
Capacity:	12 x 50ml, 20 x 15ml or 48 x 2.0ml
Timer:	1 sec. to 9 hours or continuous
Dimensions (wxdxh):	8.25 x 10.5 x 12.5 in. 21 x 27 x 32 cm
Operating Temp. Range:	+4°C to +60°C
Weight:	7 lbs / 3.2 kg
Electrical:	100 to 240V, 50-60Hz, 25W

Ordering Information:

R5010* **Benchmark Rotating Mixer
with three rotisserie tube holders**

* Includes US plug. For EU plug, please add (-E)

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