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BENCHTOP GYROTORY PLATFORM SHAKERS

Models C1, C2 & C10

When built-in temperature control is not needed, NBS Platform Shakers are the solution. Ruggedly-built for use on the bench or in an incubator or warm room, these shakers are available in two sizes and three models. Portable models C1 & C2; Model C10 is for larger-capacity needs. All (but the C1) are microprocessor-controlled with digital display.

Unique Advantages

- **Agitation 40-400 rpm,** ± 2 rpm for Model C10; 50 - 400 rpm for Models C1 & C2
- **1" (2.54 cm) Circular Orbit for Model C10; 3/4" (1.9 cm) Orbit for Models C1 & C2**
- **Speed-Limiting Sensor** slows shaker to a safe speed when overloaded or unbalanced. (Model C10 only)



Model C2 shown with dedicated accessory platform accommodating 250 mL flasks. Platform can be easily removed and replaced without tools, by loosening the four knobs on the side of the platform.



Model C1 Gyrotory Shaker with dedicated platform for 12 size 125 ml flasks.



Model C10 with a Universal Platform and a mix of flask clamps and Angled Test Tube Rack Holder accessories.

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MODELS C1, C2, & C-10 SPECIFICATIONS*

		Model C1	Model C2	Model C10
SHAKING	Range	50 to 400 rpm	50 to 400 rpm ± 2 rpm	40 to 400 rpm ± 2 rpm
	Control§	Analog Control	PI microprocessor control. Acceleration circuit prevents sudden starts/stops, minimizing both splashing & mechanical damage	
	Motion	3/4" (1.9 cm) diameter circular orbit		1" (2.54 cm) diameter circular orbit
	Indication	—	Digital LED electronic display in 1 rpm increments. Character height: 3/8" (0.95 cm)	
	Timer	—	Programmable shaking periods from 0.1 hr. to 99.9 hrs. Triggers audible alarm and energizes status light at end of period. Can be deactivated for continuous operation	
ALARMS		—	Audible and visual signals indicate when speed deviates more than 5 rpm from setpoint, and when timer operation has expired. (Audible alarm may be muted)	
LED DISPLAY		—	Indicates speed, running time and alarm conditions. Displays readout of internal clock (actual accumulated operating time). Character height: 3/8" (0.95 cm)	
DRIVE		Eccentric counterbalanced drive with permanently lubricated ball bearings		
MOTOR		Industrial type variable speed AC motor		Solid-state brushless DC motor; never requires lubrication
SETPOINT RETENTION		—	All setpoints and operating status are retained by non-volatile memory. Automatic restart after power is restored. (indicated by flashing display)	
ELECTRIC POWER		80 VA	80 VA	150 VA
DIMENSIONS	Platform	11" Wide x 13" Deep 28 x 33 cm		30" Wide x 18" Deep 76.2 x 45.7 cm
	Overall	14.5" Wide x 17.5" Deep x 7.4" High 36.8 x 44.5 x 18.8 cm		30" Wide x 27" Deep x 7.4" High 76.2 x 68.6 x 18.8 cm
WEIGHT		35 lbs. (16 kg) Net 50 lbs. (22.7 kg) Gross		108 lbs. (49 kg) Net 145 lbs. (66 kg) Gross
AMBIENT CONDITIONS		Temperature: 5 - 45°C. Humidity: 90% non-condensing		

(*) Specifications subject to change without notice. (§) Based on shaking a typical workload.

C1 &C2 ORDERING INFORMATION †

Catalog No.	Model C1 Electrical Service
M1258-0000	100/120V, 50/60 Hz
M1258-0001	230/240V, 50/60 Hz
Catalog No.	**Model C2 Electrical Service**
M1244-0000	100/120V, 50/60 Hz
M1244-0001	230/240V, 50/60 Hz

(†) 3/4" orbit (1.9 cm)

C10 ORDERING INFORMATION ††

Catalog No.	Model C10 Electrical Service
M1245-0000	100/120V, 50/60 Hz
M1245-0001	230/240V, 50/60 Hz

(††) 1" orbit (2.54 cm)

ACCESSORY PLATFORMS FOR MODELS C1, C2 & C10 †

Description	C1 & C2		C10 ◊	
	Catalog No.	No. of Clamps/ Platform	Catalog No.	No. of Clamps/ Platform
Universal Platform**	M1001-0240	—	M1250-9920	—
Utility Carrier	AG 2-UT	—	—	—
Utility Tray	AG 2-00	—	AG-00	—
Platform for Sticky Matt•	M1190-0300	—	M1250-9904	—
10 mL Erlenmeyer Flask	AG 2-10	60	—	—
25 mL Erlenmeyer Flask	AG 2-25	32	—	—
50 mL Erlenmeyer Flask	M1190-9915	20	M1250-9908	108
125 mL Erlenmeyer Flask	M1190-9916	12	M1250-9909	60
250 mL Erlenmeyer Flask	M1190-9917	8	M1250-9910	40
500 mL Erlenmeyer Flask	M1190-9918	6	M1250-9911	24
1 L Erlenmeyer Flask	—	—	AG-1	15
2 L Erlenmeyer Flask	—	—	AG-2	12
4 L Erlenmeyer Flask	—	—	AG-4	6
6 L Erlenmeyer Flask	—	—	AG-6	4
2800 mL Fernbach Flask	—	—	AG-28	6
Test Tube Slant Rack for 16 mm to 25 mm tubes	AG 2-TA 25	18 clamps/Rack; 1 Rack/Shaker	TTR-199	18 clamps/Rack; 4 Racks/Shaker

(†) C1 & C2 Platforms are 11 x 13"; C10 Platforms are 30" x 18".
(**) Flask clamps for all Universal Platforms must be ordered separately. See page 12.
(•) Sticky Matt sold separately. See page 12.
(◊) Model C10 platforms and accessories are interchangeable with those for Model C25/C25KC. In addition to the Test Tube Slant Rack for Model C10 shown above, see the Accessory Rack chart on page 6 for other options.

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Accessory Platforms, Test Tube Racks & Clamps

NBS offers a variety of options for safely securing test tubes, flasks and plates to your shaker. The platforms shown are available in a range of sizes & represent the various styles and finishes available.

1. The Universal Platform provides the flexibility for mixing different size test tubes and glassware on a single platform. Numerous mounting holes allow you to add and interchange clamps & test tube racks, at your discretion. Clamps and racks and sticky tape sold separately.

Eliminate the need for individual clamps using our **Sticky Matt Tape.** For use at speeds up to 250rpm; not for use in water baths, & not recommended for microplates. Tape requires an anodized aluminum surface - Adapter Kits available, see photo 1, far right.

2. If using a single flask size only, **Dedicated Platforms** provide maximum capacity, and come with clamps installed.

3. Utility Carrier includes two adjustable bars & non-skid rubber mat.

4. Utility Tray, for low-speed applications, allows quick addition or removal of flasks, plates or tubes. A non-skid rubber mat is provided.

6. New, Adjustable-Angle Test Tube Racks can be mounted to any Universal Platform to make transporting test tubes between shaker and bench quick & easy. Increase the angle for added oxygenation. Angle adjustment, as well as removal of the rack/carrier from the stainless-steel base, simply requires turning two knobs.

7. New Microplate Holders can be mounted to any Universal Platform to simplify addition/removal of your plates to & from the shaker. Available for single-layer plates, (front), or multiple-layers, (rear).

8. Microplate Platform holds dozens of plates of varying size. Accommodates multiple layers. No additional platform required.















CLAMP ORDERING & UNIVERSAL PLATFORM CAPACITY INFO *

Catalog No. for Clamps	Flask Size	C10 C24 C24KC	C76	C25 C25KC	C1 C2
ACE-10S	10 ML	109	82	——	60
M1190-9004	25 ML	64	16	——	20
M1190-9000	50 ML	45	14	91	15
M1190-9001	125 ML	21	14	39	11
M1190-9002	250 ML	18	8	30	6
M1190-9003	500 ML	14	6	18	4
ACE-1000S	1 L	8	4	12	——
ACE-2000S	2 L	5	2	8	——
ACE-4000S	4 L	——	——	6	——
ACE-6000S	6 L	——	——	4	——
ACFE-2800S	2.8 L	4	——	6	——
M1250-9100	Sticky Matt Tape	——	——	——	——

(*) Clamp Ordering Information & Capacity Chart at left shows maximum number of a given size flask clamp that can fit on a Universal Platform. All clamps are for use with Erlenmeyer flasks, except the 2.8 L flask, which is Fernbach style. Catalog numbers for the Universal Platforms can be found on pages 4, 7, 9 and 11.

Flask Clamps are of a single piece stainless-steel construction (not spot welded or riveted) for added strength and safety holding flasks firmly in place. Larger clamps come with an extra girdle for added security when agitating flasks at high speeds.

Sticky Matt Tape comes in a roll, 16.4' (5 m) long x 1.6" (4 cm) wide.

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