

Nutating Mixer

◆ Description

The Nutating mixer design is for mixing sample with the combined motions of an orbital shaker and a rocker. The unit provides a gentle yet thorough mixing of the samples. The digital models come with adjustable speed and timer. They are well suited for many routine laboratory applications that require thorough mixing.

◆ Features

- ☐ Tilt angles are pre-set for 3D motion. ☐ All models come with a dimpled non-skid mat.
- ☐ NS-01A and NS-10A models: Compact and economic choice for 3D mixing.
- ☐ NS-11UA and NS-12UA models: Variable speed from 2-60 rpm.
Continuous or time set operation with automatic switch off.
Audible and visual alarm in time mode.



3D Nutating Shaker **NS-01A**
(Previous Model BC-4201A)



Nutating Mixer
NS-10A



7° Digital Nutating Mixer
NS-12UA



Multi Modes Nutating Mixer
NS-13UA



Adjustable Nutator / Shaker
OS-05UA



20° Digital
Nutating Mixer **NS-11UA**

Specifications

Name	3D Nutating Shaker	Nutating Mixer	20° Digital Nutating Mixer
Model	NS-01A	NS-10A	NS-11UA
For regions other than North America, check the model number in the " Order Information Table "			
Speed	24rpm		2~60rpm
Speed Accuracy	NA		± 1rpm
Tilt Angle	20°		
Timer	NA		
Platform Dimensions	260x260mm (10.2x10.2")	327x289mm (12.87x11.38")	
Max. Load	0.8kg (1.76 lb)		
Display	NA		LED
Accessories included in Standard Packaging	NA	NSA02 (Dimpled Rubber Mat), 6 pcs of NSA01 (Rubber Strips)	
Ambient Temperature	5℃~40℃		
Relative Humidity	≤80%		
Power Supply	AC110V / 60Hz		AC100~240V, 50 / 60Hz
Max. Power	20W	11W	9.5W
Dimensions (LxWxH)	260x260x190mm (10.3x10.3x7.5")	415x295x273mm (16.3x11.6x10.7")	
Net Weight	1.8kg (4 lb)	5.9kg (13 lb)	7.4kg (16.3 lb)
Protection Level	IP21		
Certifications	CE, RoHS, WEEE	cCSAus, CE, RoHS, WEEE	

Order Information Table

Order Model	Power Supply	Plug Type
NS-01A	AC110V±11V, 60Hz	US 
NS-01E*	AC220V±22V, 50Hz	Eur 
NS-01EN*		UK 
NS-01AU*		AU 
NS-01SA*		SA 
NS-10W*	AC100~240V, 50Hz / 60Hz	Eur, UK, AU 
NS-11UW		
NS-12UW		
NS-13UW		
OS-05UW		

* Note: For NS-01E, NS-01EN, NS-01AU, NS-01SA, NS-10W rockers, rocking speed is 20rpm.

Specifications

Name	7° Digital Nutating Mixer	Multi Modes Nutating Mixer	Adjustable Nutator / Shaker
Model	NS-12UA	NS-13UA	OS-05UA
For regions other than North America, check the model number in the " Order Information Table "			
Speed	2~80rpm	5~100rpm	5~120rpm
Speed Accuracy	±1rpm		±1rpm (5~30rpm), ±2rpm (31~120rpm)
Tilt Angle	7°		0~12°
Timer	1~99h59min	0~250s	0~99h59min
Rocking Angle	NA	0~360°	NA
Platform Dimensions	327x289mm (12.87x11.38")		327x289mm (12.87x11.38")
Max. Load	0.8kg (1.76 lb)	1kg (2.2 lb)	9.8kg (21.61 lb)
Display	LED		
Accessories included in Standard Packaging	NSA02 (Dimpled Rubber Mat), 6 pcs of NSA01 (Rubber Strips)		NSA02 (Dimpled Rubber Mat), 6 pcs of NSA01 (Rubber Strips) 2 pcs of OSA34 (Small Wave Tube)
Ambient Temperature	5°C~40°C		
Relative Humidity	≤80%		
Power Supply	AC100~240V, 50 / 60Hz		
Max. Power	6.5W	5W	12W
Dimensions (LxWxH)	415x295x170mm (16.3x11.6x6.7")	440x296x243mm (17.32x11.65x9.57")	440x296x218mm (17.32x11.65x8.58")
Net Weight	7.3kg (16.1 lb)	6.7kg (14.7 lb)	14kg (31 lb)
Protection Level	IP21		
Certifications	cCSAus, CE, RoHS, WEEE		

Accessories

Part Number	Name	Specifications
NSA01	Rubber Strips (For NS-10A, NS-11UA, NS-12UA, NS-13UA, OS-15UA)	WxD: 180x7mm (7.09x0.28")
NSA02	Dimpled Rubber Mat (For NS-10A, NS-11UA, NS-12UA, NS-13UA, OS-15UA)	WxD: 298x258mm (11.73x10.16")
NSA04	Stacking Tray Assembly (For NS-10A, NS-11UA, NS-12UA, NS-13UA, OS-15UA)	WxDxH: 295x322x109mm (11.61x12.68x4.29")
OSA34	Small Wave Tube (For OS-05UA)	φ x H: φ45x105mm (1.77x4.13")

