



# 3D NUTATING MIXERS

The 3D Nutating Mixers are designed for sample mixing with the combined motions of an Orbital Shaker and 2D Platform Rocker. These units provide a gentle yet thorough mixing of the samples. The digital models come with adjustable speed and timer features. These mixers are well suited for many routine laboratory applications that require thorough sample mixing.



3D Nutating Shaker  
NS-01A



Nutating Mixer  
N10A



20° Digital  
Nutating Mixer  
NS-11UA



Adjustable  
Nutator/Shaker  
OS-05UA



Multi Modes Nutating Mixer  
NS-13UA



7° Digital Nutating Mixer  
NS-12UA

## PRODUCT FEATURES:

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



## Specifications

Model	NS-01A	NS-10A	NS-11UA	NS-12UA	NS-13UA	OS-05UA
Product Name	3D Nutating Mixer	24 RPM 20° Nutating Mixer	20° Digital Nutating Mixer	7° Digital Nutating Mixer	Multi Mode Nutating Mixer	Adjustable 3D Nutating Mixer / Shaker
Speed	24 RPM		2-60 RPM	2-80 RPM	5-100 RPM	5-120 RPM
Speed Accuracy	NA		1 RPM			
Tilt Angle	20°		7°		0-12°	
Timer	NA		0-99h 59min	0-99h 59min	0-250s (Cycle Time)	0-99h 59min
Platform Dimensions	260 x 260 mm (10.2 x 10.2 in)	307 x 267 mm (12.1 x 10.5 in)				
Max Load	0.8 kg (1.76 lb)			1 kg (2.2 lb)		9.8 kg (21.6 lb)
Display	NA			LED		
Accessories Included in Standard Packaging	NA	NSA02 (Dimpled Rubber Mat) and 6 PCS of NSA01 (Rubber Strips)				NSA02 (Dimpled Rubber Mat), 6 PCS of NSA01 (Rubber Strips), and 2 PCS of OSA34 (Shock Absorber)
Operating Environment	Ambient Temperature: 5°C-40°C Ambient Relative Humidity: ≤80%					
Power Supply	AC110V, 60Hz					
Max. Power	20W	11W	9.5W	6.5W	5W	12W
Dimensions WxDxH	260 x 260 x 190 mm (10.2 x 10.2 x 7.5 in)	296 x 440 x 261 mm (17.3 x 17.3 x 10.3 in)	296 x 440 x 255 mm (17.3 x 17.3 x 10.0 in)	296 x 440 x 189 mm (17.3 x 17.3 x 7.4 in)	296 x 440 x 226 mm (17.3 x 17.3 x 8.9 in)	296 x 440 x 218 mm (17.3 x 17.3 x 8.6 in)
Net Weight	1.8 kg (4.0 lb)	5.9 kg (13.0 lb)	7.4 kg (16.3 lb)	7.3 kg (16.1 lb)	6.7 kg (14.7 lb)	14 kg (30.9 lb)
IP Protection Rating	IP21					
Certifications	CE, RoHS, WEEE		cCSAus, CE, RoHS, WEEE			



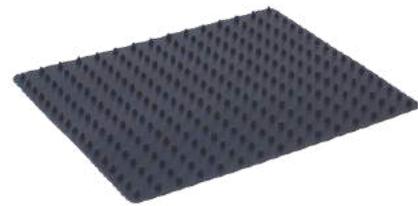
# 3D Nutating Mixers

Provides a gentle yet thorough mixing of samples

Accessories and Specifications



NSA-01  
Rubber Strips



NSA-02  
Dimpled Rubber Mat



NSA-04  
Stacking Tray Assembly



OSA34  
Small Wave Tube

Part Number	Name	Specifications
NSA01	Rubber strips for securing objects (For NS-10A,NS-11UA,NS-12UA,OS-5UA,NS-13UA)	WxD: 180 x 7 mm (7.1 x 0.3 in)
NSA02	Dimpled Rubber Mat (For NS-01A, NS-04A, NS-05A, NS-10A, NS-11UA, NS-12UA, NS-13UA, NS-14UA, OS-05UA)	WxD: 298 x 258 mm (11.7 x 10.2 in)
NSA04	Stacking Platform Assembly (For NS-10A, NS-11UA, NS-12UA,NS-13UA,OS-5UA)	WxDxH: 295 x 322 x 109 mm. (11.6 x 12.7 x 4.3 in)
OSA34	Small Wave Tube (For OS-05UA)	Ø x H Ø45 x 105mm (1.77 x 4.13 in)