



ENDEAVOR™ 5000

Light Duty Orbital Shakers



Digital light duty orbital shakers you can trust for everyday shaking.

Endeavor™ Light Duty Shakers are available in 3 models: 3 mm orbit, 20 mm orbit, or dedicated microplate model. All models can be used in incubators and cold rooms. Stable, accurate, long-term shaking is ensured with the triple eccentric drive and maintenance-free brushless DC motor. Integrated overload and unbalanced detection to protect samples.

Unique Features:

- Budget-friendly – no need to buy a separate tray. Ready to attach a wide variety of accessories to customize for low to mid volume applications.
- Programmable – save time and guarantee reproducible results. Simple on-board menu to set, store and recall multi-step programs.
- Data logging and control – remote function permits PC control and data transfer.

ENDEAVOR™ 5000 *Light Duty Orbital Shakers*

Specifications

Model	e-E51LD0403	e-E51LDMP03	e-E51LD0420
Control	Digital		
Motion	Orbital 3 mm		Orbital 20 mm
Speed Range	100 to 800 rpm	100 to 1200 rpm*	50 to 300 rpm
Speed Steps	1 rpm increments		
Speed Accuracy**	Above 100 rpm $\pm$ 2% of set speed, Below 100 rpm $\pm$ 2 rpm		
Timer	Up to 99 hours 59 minutes		
Tray Capacity	4,0 kg 4 $\times$ 500 ml flasks 6 $\times$ 250 ml flasks 6 $\times$ 125 ml flasks From 39 $\times$ 10 ml up to 3 $\times$ 1 l flasks***	4 microplates	4,0 kg 4 $\times$ 500 ml flasks 6 $\times$ 250 ml flasks 6 $\times$ 125 ml flasks From 39 $\times$ 10 ml up to 3 $\times$ 1 l flasks***
Tray Size (L $\times$ W)	300 $\times$ 222 mm	280 $\times$ 197 mm	300 $\times$ 222 mm
Tray Construction	Aluminum tray with 11 mounting points for accessories, non-slip rubber mat included	Aluminum tray with hardware to secure microplates and deepwell plates	Aluminum tray with 11 mounting points for accessories, non-slip rubber mat included
Drive System	Brushless DC Motor, Triple Eccentric		
Communication	RS232		
Programming	On-board programming for 8 separate, 5-step programs		
Recall Feature	Retrieve last 5 recently used settings		
Protection	IP21		
Dimensions (L $\times$ W $\times$ H)	420 $\times$ 262 $\times$ 119 mm		
Net Weight	7,5 kg		
Working Environment****	-10 °C to 40 °C, 80% RH, non-condensing		
Power Input	24V DC, 1,25A		

*Microplates and deepwell plates are available with a variety of skirt styles. Depending on the skirt style the maximum speed may need to be reduced.

**Conditions permitting. Variations in measurement process, vessel(s), and sample(s) will impact actual performance.

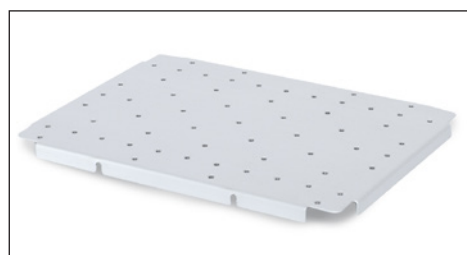
***Universal Platform 30770938 required for expanded capacity from 39 $\times$ 10 ml up to 3 $\times$ 1 l flasks

****Avoid cold starts. Unit is not designed to start after being in a cold room environment. Bring unit into cold room from a room temperature environment, operate and remove unit from cold room as soon as operation is complete.

ENDEAVOR™ 5000 *Light Duty Orbital Shakers*

Accessories

Accessories for e-E51LD0403 and e-E51LD0420			
Item Number	Description	Standard Tray Max. per Shaker	Universal Platform 30770938 Max. per Shaker
30400084	Flask Clamp, 10 ml	7	39
30400085	Flask Clamp, 25 ml	7	24
30400086	Flask Clamp, 50 ml	7	24
30400087	Flask Clamp, 125 ml	6	12
30400088	Flask Clamp, 250 ml	6	8
30400089	Flask Clamp, 500 ml	4	6
30400090	Flask Clamp, 1 l	–	3
30400097	500 ml Media Bottle Clamp	4	6
30400099	Flask Clamp PVC 125ml	6	12
30400100	Flask Clamp PVC 250ml	6	8
30400101	Flask Clamp PVC 500ml	–	4
30400114	Micro Tube Rack	2	2
30400115	Test Tube Rack 10-13 mm Diameter	2	2
30400116	Test Tube Rack 14-16 mm Diameter	2	2
30400117	Test Tube Rack 18-20 mm Diameter	2	2
30400118	Test Tube Rack 22-25 mm Diameter	2	2
30400119	Test Tube Rack For 15 ml Tubes	2	2
30400120	Test Tube Rack For 50 ml Tubes	2	2
30770938	Universal Platform 30 × 22 cm e-E51LD	1	–
30400121	Adjustable Platform 22 30 cm, 2 bars	1	–
30400122	Roller Bar, 22 cm (for adjustable platform only)	Variable	–
30400124	Dimpled Mat, 22 × 30 cm	1	–
30770935	Rubber Mat 29 × 22 cm	1	–
30770939	Sticky Mat 22 × 18 cm	1	1
30770940	Universal Harness e-E51LD	1	–
Accessories for e-E51LDMP03			
Item Number	Description	Standard Tray Max. per Shaker	
30400114	Micro Tube Rack	2	
30772773	Deep Plate Kit, set of 4	1 (set of 4)	



Universal Platform 30 × 22 cm e-E51LD
Part Number: 30770938



Flask Clamp 250 ml
Part Number: 30400088



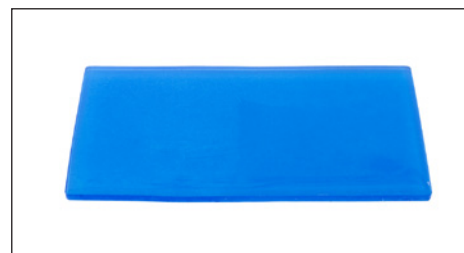
Flask Clamp PVC 125 ml
Part Number: 30400099



Adjustable Platform 22 × 30 cm, 2 bars
Part Number: 30400121



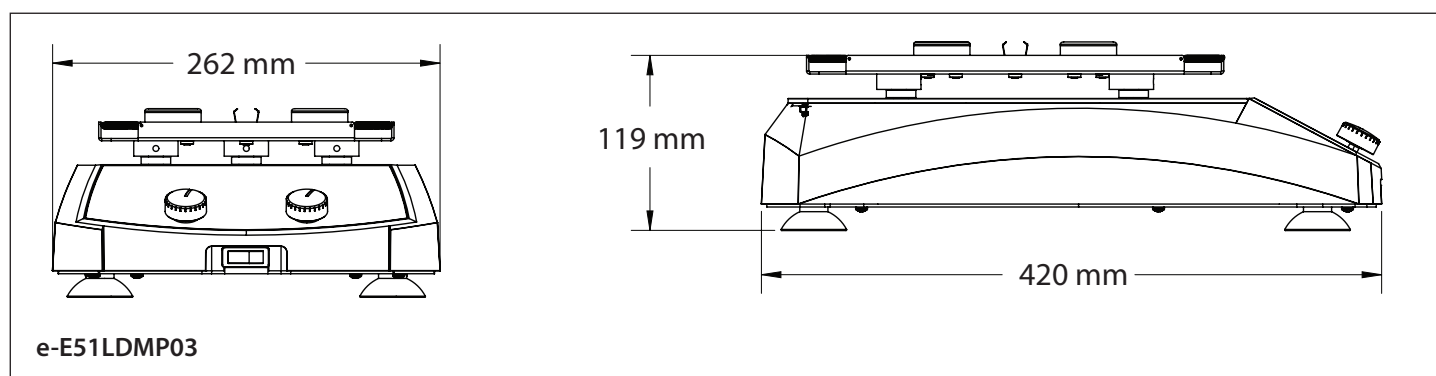
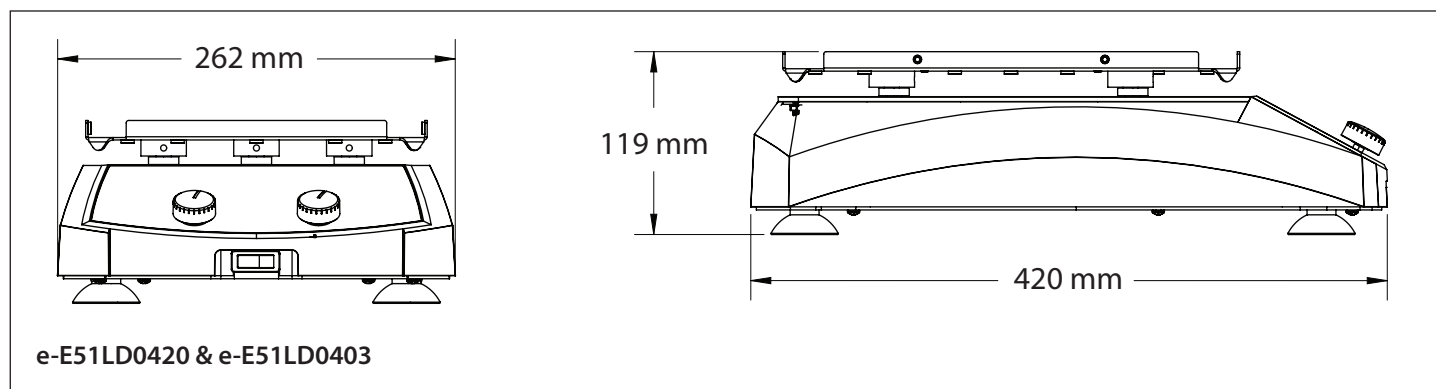
Micro Tube Rack
Part Number: 30400114



Sticky Mat 22 × 18 cm
Part Number: 30770939

ENDEAVOR™ 5000 *Light Duty Orbital Shakers*

Outline Dimensions



Other Features and Equipment

Visual and audio alarm when timer counts down to zero or an error occurs, small footprint to save bench space, advanced microprocessor control slowly ramps the shaker tray up to the desired speed and avoids splashing, durable chemical-resistant polymer housing, sturdy easy-to-clean aluminum standard tray with attachment points for accessories, optional accessory platform to expand capacity, control knobs, ON/OFF switch

Compliance

- **Product Safety:** IEC/EN 61010-1; IEC/EN 61010-2-051
- **Electromagnetic Compatibility:** IEC/EN 61326-1 Class B, Basic electromagnetic environment
- **Compliance Marks:** CE; UKCA; TÜV SÜD
- **Other:** IP21

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The management system governing the manufacture of this product is ISO 9001:2015 certified.





Extreme Environment Shakers



High Performance Orbital Shaker Designed to Withstand Extreme Environments Up To 100% Humidity

OHAUS Extreme Environment Shakers are designed for use in applications that require CO₂ and humidity for optimal cell growth. The remote controller magnetically attaches to the outside of most incubators or easily sits on the lab bench. The shaker base is placed inside the incubator and connected to the touchpad controller with a 170 cm cable allowing for simple external control of speed and time settings. This shaker features an IP65-rated motor.

Standard Features:

- Defy the elements - rely on this orbital shaker's unique construction to deliver exceptional speed control, accuracy and durability under the most extreme environmental conditions.
- Best-in-class load capacity to maximize efficiency in your incubator. Customize the Extreme Environment Shaker for your unique application with over 50 accessories.
- For repeatable results, the exclusive Accu-Drive shaking system ensures speed accuracy. The triple eccentric drive provides smooth, stable shaking motion throughout the entire speed range.

Specifications *Extreme Environment Shakers*

Model	SHEX1619DG
Control	Digital
Motion	Orbital, 19 mm
Speed Range	15 rpm – 500 rpm
Speed Accuracy	± 1 rpm, Above 100 rpm ± 1 % of set speed
Timer	1 second – 160 hours
Capacity	16 kg
Working Environment	Temperature (Shaker): -10 to 60 °C, maximum 100 % relative humidity, condensing Temperature (Controller): -10 to 50 °C, maximum 80 % relative humidity, non-condensing
Drive System	Brushless DC Motor; Triple Eccentric
Communication	RS232 (Included)
Tray Size (L × W)	279 mm × 330 mm
Tray Construction	Aluminum
Dimensions (H × L × W)	149 mm × 294 mm × 355 mm
Net Weight	21.8 kg
Power	230V, 0.3A, 50/60Hz
Power Consumption	30 W

Other Standard Features and Equipment

Built-in tray with a non-slip rubber mat (included)

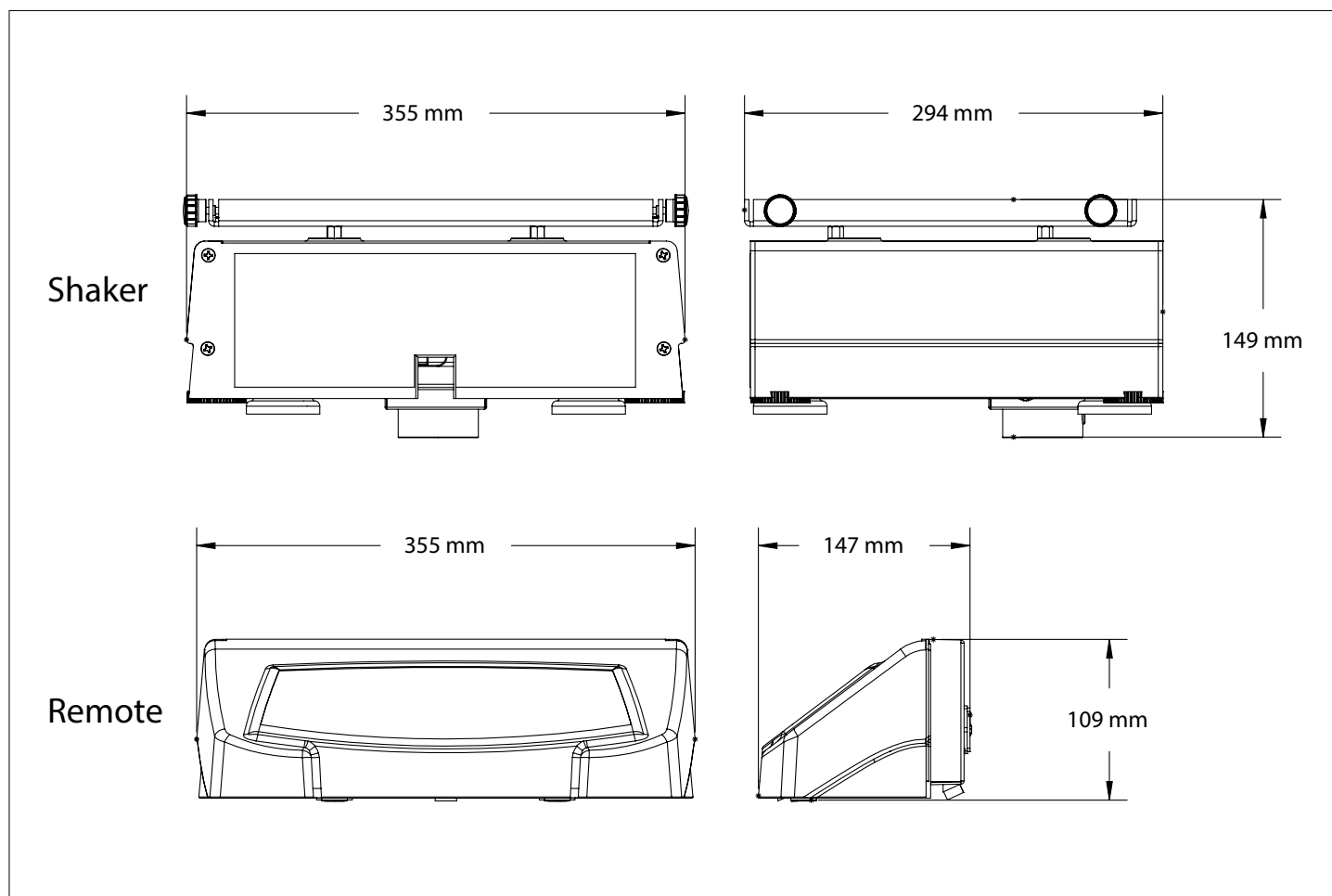
Compliance

- **Product Safety:** EN 61010-1, EN 61010-2-051
- **Electromagnetic Compatibility:** EN 61326-1 Class A, Industrial Environments
- **Compliance Marks:** CE; RCM; UKCA; TÜV SÜD

Applications

Cell Cultures, Solubility Studies, Extraction Procedures, Bacteria & Yeast Cultures and Suspensions, Staining/Destaining, Immunoassays, Protein Studies, Blotting Techniques

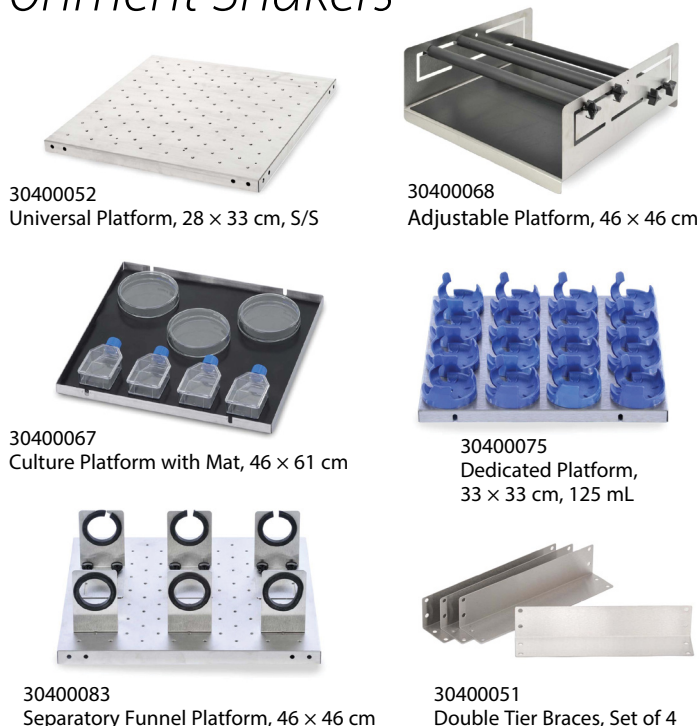
Outline Dimensions



Accessories Extreme Environment Shakers

Platforms for OHAUS Extreme Environment Shaker		
Item No.	Description	SHEX1619DG
30400052	Universal Platform, 28 × 33 cm, S/S	Not Stackable
30400053	Universal Platform, 33 × 33 cm, S/S	Not Stackable
30400054	Universal Platform, 46 × 46 cm, S/S	Stackable*
30400056	Universal Platform, 61 × 46 cm, S/S	Stackable*
30400066	Culture Platform with Mat, 46 × 46 cm	Stackable*
30400067	Culture Platform with Mat, 46 × 61 cm	Stackable*
30400068	Adjustable Platform, 46 × 46 cm	Not Stackable
30400075	Dedicated Platform, 33 × 33 cm, 125 mL	Not Stackable
30400076	Dedicated Platform, 33 × 33 cm, 250 mL	Not Stackable
30400077	Dedicated Platform, 33 × 33 cm, 500 mL	Not Stackable
30400078	Dedicated Platform, 33 × 33 cm, 1000 mL	Not Stackable
30400079	Dedicated Platform, 46 × 46 cm, 125 mL	Stackable*
30400080	Dedicated Platform, 46 × 46 cm, 250 mL	Stackable*
30400081	Dedicated Platform, 46 × 46 cm, 500 mL	Stackable*
30400082	Dedicated Platform, 46 × 46 cm, 1000 mL	Stackable*
30400083	Separatory Funnel Platform 46 × 46 cm	Not Stackable
30400051	Double Tier Braces, Set of 4	1

*To stack platforms select (2) stackable platforms of the same size and (1) tier brace kit (Item No. 30400051)



Accessories for Universal Platform, 28 × 33 cm, S/S (Item No. 30400052)		
Item No.	Description	Max. per Platform
30400084	Flask Clamp, 10 mL	60
30400085	Flask Clamp, 25 mL	25
30400086	Flask Clamp, 50 mL	13
30400087	Flask Clamp, 125 mL	10
30400088	Flask Clamp, 250 mL	9
30400089	Flask Clamp, 500 mL	7
30400090	1 Liter Erlenmeyer Flask Clamp	4
30400097	500 mL Media Bottle Clamp	5
30400098	1000 mL Media Bottle Clamp	2
30400099	Flask Clamp PVC 125 mL	10
30400100	Flask Clamp PVC 250 mL	8
30400101	Flask Clamp PVC 500 mL	5
30400102	Flask Clamp PVC 1000 mL	2
30400105	Test Tube Rack 13 mm Pivoting	1
30400106	Test Tube Rack 16 mm Pivoting	1
30400107	Test Tube Rack 20 mm Pivoting	1
30400108	Test Tube Rack 25 mm Pivoting	1
30400109	Test Tube Rack 30 mm Pivoting	1
30400114	Micro Tube Rack	2
30400115	Test Tube Rack 10-13 mm Diameter	2
30400116	Test Tube Rack 14-16 mm Diameter	2
30400117	Test Tube Rack 18-20 mm Diameter	2
30400118	Test Tube Rack 22-25 mm Diameter	2
30400119	Test Tube Rack For 15 mL Tubes	2
30400120	Test Tube Rack For 50 mL Tubes	2
30400104	Clamp Microplate Stainless Steel	4
30400060	Rubber Mat, 28 × 33 cm	1



30400085
Flask Clamp, 25 mL



30400105
Test Tube Rack, 13 mm Pivoting

Accessories for Universal Platform, 33 × 33 cm, S/S (Item No. 30400053)		
Item No.	Description	Max. per Platform
30400084	Flask Clamp, 10 mL	60
30400085	Flask Clamp, 25 mL	30
30400086	Flask Clamp, 50 mL	15
30400087	Flask Clamp, 125 mL	12
30400088	Flask Clamp, 250 mL	12
30400089	Flask Clamp, 500 mL	8
30400090	1 Liter Erlenmeyer Flask Clamp	4
30400091	2 Liter Erlenmeyer Flask Clamp	3
30400092	2.8 Liter Erlenmeyer Flask Clamp	1
30400093	3 Liter Erlenmeyer Flask Clamp	1
30400094	4 Liter Erlenmeyer Flask Clamp	1
30400095	5 Liter Erlenmeyer Flask Clamp	1
30400096	6 Liter Erlenmeyer Flask Clamp	1
30400097	500 mL Media Bottle Clamp	6
30400098	1000 mL Media Bottle Clamp	5
30400099	Flask Clamp PVC 125 mL	12
30400100	Flask Clamp PVC 250 mL	10
30400101	Flask Clamp PVC 500 mL	6
30400102	Flask Clamp PVC 1000 mL	4
30400103	Flask Clamp PVC 2000 mL	3
30400105	Test Tube Rack 13 mm Pivoting	2
30400106	Test Tube Rack 16 mm Pivoting	2
30400107	Test Tube Rack 20 mm Pivoting	2
30400108	Test Tube Rack 25 mm Pivoting	2
30400109	Test Tube Rack 30 mm Pivoting	2
30400114	Micro Tube Rack	2
30400115	Test Tube Rack 10-13 mm Diameter	2
30400116	Test Tube Rack 14-16 mm Diameter	2
30400117	Test Tube Rack 18-20 mm Diameter	2
30400118	Test Tube Rack 22-25 mm Diameter	2
30400119	Test Tube Rack For 15 mL Tubes	2
30400120	Test Tube Rack For 50 mL Tubes	2
30400104	Clamp Microplate Stainless Steel	6
30400061	Rubber Mat, 33 × 33 cm	1

Accessories Extreme Environment Shakers

Accessories for Universal Platform, 46 × 46 cm, S/S (Item No. 30400054)		
Item No.	Description	Max. per Platform
30400084	Flask Clamp, 10 mL	113
30400085	Flask Clamp, 25 mL	64
30400086	Flask Clamp, 50 mL	32
30400087	Flask Clamp, 125 mL	20
30400088	Flask Clamp, 250 mL	20
30400089	Flask Clamp, 500 mL	13
30400090	1 Liter Erlenmeyer Flask Clamp	8
30400091	2 Liter Erlenmeyer Flask Clamp	5
30400092	2.8 Liter Erlenmeyer Flask Clamp	2
30400093	3 Liter Erlenmeyer Flask Clamp	2
30400094	4 Liter Erlenmeyer Flask Clamp	4
30400095	5 Liter Erlenmeyer Flask Clamp	4
30400096	6 Liter Erlenmeyer Flask Clamp	2
30400097	500 mL Media Bottle Clamp	16
30400098	1000 mL Media Bottle Clamp	10
30400099	Flask Clamp PVC 125 mL	20
30400100	Flask Clamp PVC 250 mL	18
30400101	Flask Clamp PVC 500 mL	12
30400102	Flask Clamp PVC 1000 mL	8
30400103	Flask Clamp PVC 2000 mL	4
30400105	Test Tube Rack 13 mm Pivoting	2
30400106	Test Tube Rack 16 mm Pivoting	2
30400107	Test Tube Rack 20 mm Pivoting	2
30400108	Test Tube Rack 25 mm Pivoting	2
30400109	Test Tube Rack 30 mm Pivoting	2
30400110	Test Tube Rack 10-14 mm Stationary	3
30400111	Test Tube Rack 16-20 mm Stationary	3
30400112	Test Tube Rack 21-25 mm Stationary	3
30400113	Test Tube Rack 50 mL Tubes Stationary	3
30400114	Micro Tube Rack	4
30400115	Test Tube Rack 10-13 mm Diameter	4
30400116	Test Tube Rack 14-16 mm Diameter	4
30400117	Test Tube Rack 18-20 mm Diameter	4
30400118	Test Tube Rack 22-25 mm Diameter	4
30400119	Test Tube Rack For 15 mL Tubes	4
30400120	Test Tube Rack For 50 mL Tubes	4
30400104	Clamp Microplate Stainless Steel	12
30400062	Rubber Mat, 46 × 46 cm	1
30400051	Double Tier Braces, Set of 4	1

Accessories for Universal Platform, 61 × 46 cm, S/S (Item No. 30400056)		
Item No.	Description	Max. per Platform
30400084	Flask Clamp, 10 mL	158
30400085	Flask Clamp, 25 mL	88
30400086	Flask Clamp, 50 mL	44
30400087	Flask Clamp, 125 mL	28
30400088	Flask Clamp, 250 mL	28
30400089	Flask Clamp, 500 mL	20
30400090	1 Liter Erlenmeyer Flask Clamp	12
30400091	2 Liter Erlenmeyer Flask Clamp	6
30400092	2.8 Liter Erlenmeyer Flask Clamp	3
30400093	3 Liter Erlenmeyer Flask Clamp	3
30400094	4 Liter Erlenmeyer Flask Clamp	4
30400095	5 Liter Erlenmeyer Flask Clamp	4
30400096	6 Liter Erlenmeyer Flask Clamp	3
30400097	500 mL Media Bottle Clamp	20
30400098	1000 mL Media Bottle Clamp	13
30400099	Flask Clamp PVC 125 mL	28
30400100	Flask Clamp PVC 250 mL	25
30400101	Flask Clamp PVC 500 mL	16
30400102	Flask Clamp PVC 1000 mL	10
30400103	Flask Clamp PVC 2000 mL	6
30400105	Test Tube Rack 13 mm Pivoting	3
30400106	Test Tube Rack 16 mm Pivoting	3
30400107	Test Tube Rack 20 mm Pivoting	3
30400108	Test Tube Rack 25 mm Pivoting	3
30400109	Test Tube Rack 30 mm Pivoting	3
30400110	Test Tube Rack 10-14 mm Stationary	5
30400111	Test Tube Rack 16-20 mm Stationary	5
30400112	Test Tube Rack 21-25 mm Stationary	5
30400113	Test Tube Rack 50 mL Tubes Stationary	5
30400114	Micro Tube Rack	6
30400115	Test Tube Rack 10-13 mm Diameter	6
30400116	Test Tube Rack 14-16 mm Diameter	6
30400117	Test Tube Rack 18-20 mm Diameter	6
30400118	Test Tube Rack 22-25 mm Diameter	6
30400119	Test Tube Rack For 15 mL Tubes	6
30400120	Test Tube Rack For 50 mL Tubes	6
30400104	Clamp Microplate Stainless Steel	18
30400063	Rubber Mat, 46 × 61 cm	1
30400051	Double Tier Braces, Set of 4	1



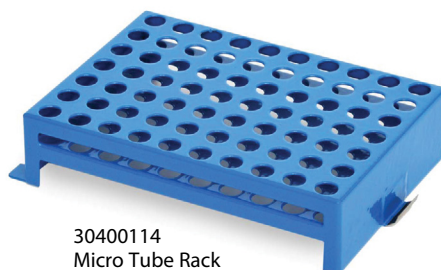
30400097
500 mL Media Bottle Clamp



30400096
6 Liter Erlenmeyer Flask Clamp



30400062
Rubber Mat, 46 × 46 cm



30400114
Micro Tube Rack

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The management system
governing the manufacture of
this product is ISO 9001:2015
certified.





Heavy Duty Orbital Shakers



Eight Orbital Shakers Offering a Variety of Capacities and Flexibility to Maximize Sample Processing

OHAUS Heavy Duty Shakers are designed to handle a wide range of applications no matter how difficult the task. Powerful, convenient shakers provide consistent orbital shaking action. Digital models offer accurate speed control for applications that demand repeatable results. Non-digital models are an economical alternative. Maximize throughput and efficiency in your laboratory – eight models with load capacities ranging from 16 to 68 kg.

Standard Features:

- Ready for your lab - all models include a tray and rubber mat and can be customized with over 70 accessory options.
- Rely on the digital shakers' exclusive Accu-Drive shaking system for exceptional speed control, accuracy and durability. All models feature a maintenance-free motor for long-term use.
- Protect your samples. Optimal speed ramping feature slowly increases speed to setpoint to avoid splashing. The load sensor detects unbalanced conditions and automatically reduces to a safe speed.

Specifications Heavy Duty Orbital Shakers

Model	SHHD1619AL	SHHD1619DG	SHHD2325AL	SHHD2325DG	SHHD4525DG	SHHD4550DG	SHHD6825DG	SHHD6850DG
Control	Analog	Digital	Analog	Digital				
Motion	Orbital, 19 mm		Orbital, 25 mm			Orbital, 51 mm	Orbital, 25 mm	Orbital, 51 mm
Speed Range	25 to 500 rpm	15 to 500 rpm	25 to 500 rpm	20 to 500 rpm	15 to 500 rpm	15 to 300 rpm	15 to 500 rpm	15 to 300 rpm
Speed Accuracy	N/A	above 100 rpm ± 1% of set speed, below 100 rpm ± 1 rpm	N/A	above 100 rpm ± 1% of set speed, below 100 rpm ± 1 rpm				
Timer	1 minute to 120 minutes	1 second to 160 hours	1 minute to 120 minutes	1 second to 160 hours				
Max. Weight Capacity	16 kg		22.7 kg		45.4 kg		68 kg	
Audible Alarm	—	•	—	•	•	•	•	•
Load Sensor	—	•	—	•	•	•	•	•
Overload Protection	—	•	—	•	•	•	•	•
User Calibration (Speed)	—	•	—	•	•	•	•	•
RS232 Interface	—	•	—	•	•	•	•	•
Working Environment	0 °C – 40 °C, 80% RH*, non-condensing	-10 °C – 60 °C, 80% RH, non-condensing	0 °C – 40 °C, 80% RH, non-condensing	-10 °C – 60 °C, 80% RH, non-condensing				
Drive System	Brushless DC Motor; Triple Eccentric							
Included Tray (L × W)	279 × 330 mm		457 × 610 mm		610 × 610 mm		610 × 910 mm	
Overall Dimensions (L × W × H)	413 × 355 × 149 mm		610 × 678 × 149 mm		729 × 678 × 170 mm		744 × 914 × 170 mm	
Net Weight	21.8 kg		49 kg		90.3 kg		103.9 kg	
Power	230V, 2.5A, 50/60Hz							
Power Consumption	75 W				80 W			

*Relative Humidity

Other Standard Features and Equipment

Built-in tray with a non-slip rubber mat (included)

Compliance

- **Product Safety:** EN 61010-1, EN 61010-2-051
- **Electromagnetic Compatibility:** EN 61326-1 Class A, Industrial Environments
- **Compliance Marks:** CE; RCM; UKCA; TÜV SÜD

Applications

Cell cultures, solubility studies, extractions, bacteria and yeast cultures and suspensions, staining/destaining, immunoassays, protein studies, blotting techniques

Accessory Platforms *Heavy Duty Orbital Shakers*

Platforms for Heavy Duty Shakers										
Item No.	Description	Stackable*	SHHD1619AL	SHHD1619DG	SHHD2325AL	SHHD2325DG	SHHD4525DG	SHHD4550DG	SHHD6825DG	SHHD6850DG
30400052	Universal Platform, 28 × 33 cm	Not Stackable	•	•						
30400053	Universal Platform, 33 × 33 cm	Not Stackable	•	•						
30400054	Universal Platform, 46 × 46 cm	Stackable	•	•						
30400056	Universal Platform, 61 × 46 cm	Stackable**	•	•	•	•				
30400057	Universal Platform, 61 × 61 cm	Not Stackable					•	•		
30400058	Universal Platform, 76 × 46 cm	Stackable			•	•				
30400059	Universal Platform, 91 × 61 cm	Not Stackable							•	•
30400066	Culture Platform with Mat, 46 × 46 cm	Stackable	•	•						
30400067	Culture Platform with Mat, 46 × 61 cm	Stackable**	•	•	•	•				
30400068	Adjustable Platform, 46 × 46 cm	Not Stackable	•	•						
30400069	Adjustable Platform, 61 × 46 cm	Not Stackable			•	•				
30400070	Large Vessel Carrier, 76 × 46 cm	Not Stackable			•	•				
30400071	Large Vessel Carrier, 61 × 61 cm	Not Stackable					•	•		
30400072	Large Vessel Carrier, 91 × 61 cm	Not Stackable							•	•
30400075	Dedicated Platform, 33 × 33 cm, 125 mL	Not Stackable	•	•						
30400076	Dedicated Platform, 33 × 33 cm, 250 mL	Not Stackable	•	•						
30400077	Dedicated Platform, 33 × 33 cm, 500 mL	Not Stackable	•	•						
30400078	Dedicated Platform, 33 × 33 cm, 1000 mL	Not Stackable	•	•						
30400079	Dedicated Platform, 46 × 46 cm, 125 mL	Stackable	•	•						
30400080	Dedicated Platform, 46 × 46 cm, 250 mL	Stackable	•	•						
30400081	Dedicated Platform, 46 × 46 cm, 500 mL	Stackable	•	•						
30400082	Dedicated Platform, 46 × 46 cm, 1000 mL	Stackable	•	•						
30400083	Separatory Funnel Platform 46 × 46 cm	Not Stackable	•	•						

*To stack platforms select (2) stackable platforms of the same size and (1) tier brace kit (Item No. 30400051)

**61 × 46 platforms can be used on both 16 kg and 23 kg shakers but can only be stacked on 16 kg shakers



30400052
Universal Platform, 28 × 33 cm



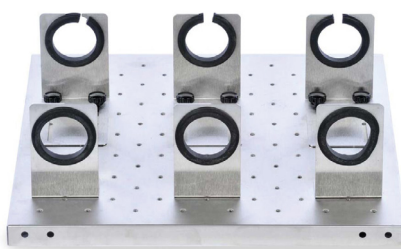
30400067
Culture Platform with Mat, 46 × 61 cm



30400068
Adjustable Platform, 46 × 46 cm



30400079
Dedicated Platform, 46 × 46 cm, 125 mL



30400083
Separatory Funnel Platform, 46 × 46 cm



30400072
Large Vessel Carrier, 91 × 61 cm

Accessories *Heavy Duty Orbital Shakers*

Accessories for Universal Platform, 28 × 33 cm, S/S (Item No. 30400052)	Description	Max per Platform
30400084	Flask Clamp, 10 mL	60
30400085	Flask Clamp, 25 mL	25
30400086	Flask Clamp, 50 mL	13
30400087	Flask Clamp, 125 mL	10
30400088	Flask Clamp, 250 mL	9
30400089	Flask Clamp, 500 mL	7
30400090	1 Liter Erlenmeyer Flask Clamp	4
30400097	500 mL Media Bottle Clamp	5
30400098	1000 mL Media Bottle Clamp	2
30400099	Flask Clamp PVC 125 mL	10
30400100	Flask Clamp PVC 250 mL	8
30400101	Flask Clamp PVC 500 mL	5
30400102	Flask Clamp PVC 1000 mL	2
30400105	Test Tube Rack 13 mm Pivoting	1
30400106	Test Tube Rack 16 mm Pivoting	1
30400107	Test Tube Rack 20 mm Pivoting	1
30400108	Test Tube Rack 25 mm Pivoting	1
30400109	Test Tube Rack 30 mm Pivoting	1
30400114	Micro Tube Rack	2
30400115	Test Tube Rack 10-13 mm Diameter	2
30400116	Test Tube Rack 14-16 mm Diameter	2
30400117	Test Tube Rack 18-20 mm Diameter	2
30400118	Test Tube Rack 22-25 mm Diameter	2
30400119	Test Tube Rack For 15 mL Tubes	2
30400120	Test Tube Rack For 50 mL Tubes	2
30400104	Clamp Microplate Stainless Steel	4
30400060	Rubber Mat, 28 × 33 cm	1



30400052
Universal Platform, 28 × 33 cm



30400085
Flask Clamp, 25 mL



30400060
Rubber Mat, 28 × 33 cm

Accessories *Heavy Duty Orbital Shakers*

Accessories for Universal Platform, 33 × 33 cm, S/S (Item No. 30400053)	Description	Max per Platform
30400084	Flask Clamp, 10 mL	60
30400085	Flask Clamp, 25 mL	30
30400086	Flask Clamp, 50 mL	15
30400087	Flask Clamp, 125 mL	12
30400088	Flask Clamp, 250 mL	12
30400089	Flask Clamp, 500 mL	8
30400090	1 Liter Erlenmeyer Flask Clamp	4
30400091	2 Liter Erlenmeyer Flask Clamp	3
30400092	2.8 Liter Erlenmeyer Flask Clamp	1
30400093	3 Liter Erlenmeyer Flask Clamp	1
30400094	4 Liter Erlenmeyer Flask Clamp	1
30400095	5 Liter Erlenmeyer Flask Clamp	1
30400096	6 Liter Erlenmeyer Flask Clamp	1
30400097	500 mL Media Bottle Clamp	6
30400098	1000 mL Media Bottle Clamp	5
30400099	Flask Clamp PVC 125 mL	12
30400100	Flask Clamp PVC 250 mL	10
30400101	Flask Clamp PVC 500 mL	6
30400102	Flask Clamp PVC 1000 mL	4
30400103	Flask Clamp PVC 2000 mL	3
30400105	Test Tube Rack 13 mm Pivoting	2
30400106	Test Tube Rack 16 mm Pivoting	2
30400107	Test Tube Rack 20 mm Pivoting	2
30400108	Test Tube Rack 25 mm Pivoting	2
30400109	Test Tube Rack 30 mm Pivoting	2
30400114	Micro Tube Rack	2
30400115	Test Tube Rack 10-13 mm Diameter	2
30400116	Test Tube Rack 14-16 mm Diameter	2
30400117	Test Tube Rack 18-20 mm Diameter	2
30400118	Test Tube Rack 22-25 mm Diameter	2
30400119	Test Tube Rack For 15 mL Tubes	2
30400120	Test Tube Rack For 50 mL Tubes	2
30400104	Clamp Microplate Stainless Steel	6
30400061	Rubber Mat, 33 × 33 cm	1



30400053
Universal Platform, 33 × 33 cm



30400099
Flask Clamp PVC 125 mL



30400097
500 mL Media Bottle Clamp



30400061
Rubber Mat, 33 × 33 cm

Accessories Heavy Duty Orbital Shakers

Accessories for Universal Platform, 46 × 46 cm, S/S (Item No. 30400054)	Description	Max per Platform
30400051	Double Tier Braces, Set of 4	1
30400084	Flask Clamp, 10 mL	113
30400085	Flask Clamp, 25 mL	64
30400086	Flask Clamp, 50 mL	32
30400087	Flask Clamp, 125 mL	20
30400088	Flask Clamp, 250 mL	20
30400089	Flask Clamp, 500 mL	13
30400090	1 Liter Erlenmeyer Flask Clamp	8
30400091	2 Liter Erlenmeyer Flask Clamp	5
30400092	2.8 Liter Erlenmeyer Flask Clamp	2
30400093	3 Liter Erlenmeyer Flask Clamp	2
30400094	4 Liter Erlenmeyer Flask Clamp	4
30400095	5 Liter Erlenmeyer Flask Clamp	4
30400096	6 Liter Erlenmeyer Flask Clamp	2
30400097	500 mL Media Bottle Clamp	16
30400098	1000 mL Media Bottle Clamp	10
30400099	Flask Clamp PVC 125 mL	20
30400100	Flask Clamp PVC 250 mL	18
30400101	Flask Clamp PVC 500 mL	12
30400102	Flask Clamp PVC 1000 mL	8
30400103	Flask Clamp PVC 2000 mL	4
30400105	Test Tube Rack 13 mm Pivoting	2
30400106	Test Tube Rack 16 mm Pivoting	2
30400107	Test Tube Rack 20 mm Pivoting	2
30400108	Test Tube Rack 25 mm Pivoting	2
30400109	Test Tube Rack 30 mm Pivoting	2
30400110	Test Tube Rack 10-14 mm Stationary	3
30400111	Test Tube Rack 16-20 mm Stationary	3
30400112	Test Tube Rack 21-25 mm Stationary	3
30400113	Test Tube Rack 50 mL Tubes Stationary	3
30400114	Micro Tube Rack	4
30400115	Test Tube Rack 10-13 mm Diameter	4
30400116	Test Tube Rack 14-16 mm Diameter	4
30400117	Test Tube Rack 18-20 mm Diameter	4
30400118	Test Tube Rack 22-25 mm Diameter	4
30400119	Test Tube Rack For 15 mL Tubes	4
30400120	Test Tube Rack For 50 mL Tubes	4
30400104	Clamp Microplate Stainless Steel	12
30400062	Rubber Mat, 46 × 46 cm	1



30400054
Universal Platform, 46 × 46 cm



30400051
Double Tier Braces, Set of 4



30400088
Flask Clamp, 250 mL



30400096
6 Liter Erlenmeyer Flask Clamp

Accessories Heavy Duty Orbital Shakers

Accessories for Universal Platform, 61 × 46 cm, S/S (Item No. 30400056)	Description	Max per Platform
30400051	Double Tier Braces, Set of 4	1
30400084	Flask Clamp, 10 mL	158
30400085	Flask Clamp, 25 mL	88
30400086	Flask Clamp, 50 mL	44
30400087	Flask Clamp, 125 mL	28
30400088	Flask Clamp, 250 mL	28
30400089	Flask Clamp, 500 mL	20
30400090	1 Liter Erlenmeyer Flask Clamp	12
30400091	2 Liter Erlenmeyer Flask Clamp	6
30400092	2.8 Liter Erlenmeyer Flask Clamp	3
30400093	3 Liter Erlenmeyer Flask Clamp	3
30400094	4 Liter Erlenmeyer Flask Clamp	4
30400095	5 Liter Erlenmeyer Flask Clamp	4
30400096	6 Liter Erlenmeyer Flask Clamp	3
30400097	500 mL Media Bottle Clamp	20
30400098	1000 mL Media Bottle Clamp	13
30400099	Flask Clamp PVC 125 mL	28
30400100	Flask Clamp PVC 250 mL	25
30400101	Flask Clamp PVC 500 mL	16
30400102	Flask Clamp PVC 1000 mL	10
30400103	Flask Clamp PVC 2000 mL	6
30400105	Test Tube Rack 13 mm Pivoting	3
30400106	Test Tube Rack 16 mm Pivoting	3
30400107	Test Tube Rack 20 mm Pivoting	3
30400108	Test Tube Rack 25 mm Pivoting	3
30400109	Test Tube Rack 30 mm Pivoting	3
30400110	Test Tube Rack 10-14 mm Stationary	5
30400111	Test Tube Rack 16-20 mm Stationary	5
30400112	Test Tube Rack 21-25 mm Stationary	5
30400113	Test Tube Rack 50 mL Tubes Stationary	5
30400114	Micro Tube Rack	6
30400115	Test Tube Rack 10-13 mm Diameter	6
30400116	Test Tube Rack 14-16 mm Diameter	6
30400117	Test Tube Rack 18-20 mm Diameter	6
30400118	Test Tube Rack 22-25 mm Diameter	6
30400119	Test Tube Rack For 15 mL Tubes	6
30400120	Test Tube Rack For 50 mL Tubes	6
30400104	Clamp Microplate Stainless Steel	18
30400063	Rubber Mat, 46 × 61 cm	1



30400056
Universal Platform, 61 × 46 cm



30400095
5 Liter Erlenmeyer Flask Clamp



30400102
Flask Clamp PVC 1000 mL



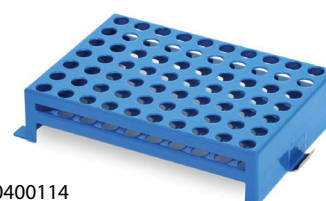
30400103
Flask Clamp PVC 2000 mL

Accessories Heavy Duty Orbital Shakers

Accessories for Universal Platform, 61 × 61 cm, S/S (Item No. 30400057)	Description	Max per Platform
30400084	Flask Clamp, 10 mL	221
30400085	Flask Clamp, 25 mL	121
30400086	Flask Clamp, 50 mL	61
30400087	Flask Clamp, 125 mL	41
30400088	Flask Clamp, 250 mL	41
30400089	Flask Clamp, 500 mL	25
30400090	1 Liter Erlenmeyer Flask Clamp	16
30400091	2 Liter Erlenmeyer Flask Clamp	9
30400092	2.8 Liter Erlenmeyer Flask Clamp	5
30400093	3 Liter Erlenmeyer Flask Clamp	5
30400094	4 Liter Erlenmeyer Flask Clamp	5
30400095	5 Liter Erlenmeyer Flask Clamp	5
30400096	6 Liter Erlenmeyer Flask Clamp	5
30400097	500 mL Media Bottle Clamp	25
30400098	1000 mL Media Bottle Clamp	18
30400099	Flask Clamp PVC 125 mL	41
30400100	Flask Clamp PVC 250 mL	35
30400101	Flask Clamp PVC 500 mL	24
30400102	Flask Clamp PVC 1000 mL	13
30400103	Flask Clamp PVC 2000 mL	9
30400105	Test Tube Rack 13 mm Pivoting	4
30400106	Test Tube Rack 16 mm Pivoting	4
30400107	Test Tube Rack 20 mm Pivoting	4
30400108	Test Tube Rack 25 mm Pivoting	4
30400109	Test Tube Rack 30 mm Pivoting	4
30400110	Test Tube Rack 10-14 mm Stationary	7
30400111	Test Tube Rack 16-20 mm Stationary	7
30400112	Test Tube Rack 21-25 mm Stationary	7
30400113	Test Tube Rack 50 mL Tubes Stationary	7
30400114	Micro Tube Rack	8
30400115	Test Tube Rack 10-13 mm Diameter	8
30400116	Test Tube Rack 14-16 mm Diameter	8
30400117	Test Tube Rack 18-20 mm Diameter	8
30400118	Test Tube Rack 22-25 mm Diameter	8
30400119	Test Tube Rack For 15 mL Tubes	8
30400120	Test Tube Rack For 50 mL Tubes	8
30400104	Clamp Microplate Stainless Steel	24
30400064	Rubber Mat, 61 × 61 cm	1



30400057
Universal Platform, 61 × 61 cm



30400114
Micro Tube Rack



30400117
Test Tube Rack 18-20 mm Diameter



30400064
Rubber Mat, 61 × 61 cm

Accessories Heavy Duty Orbital Shakers

Accessories for Universal Platform, 76 × 46 cm, S/S (Item No. 30400058)	Description	Max per Platform
30400051	Double Tier Braces, Set of 4	1
30400084	Flask Clamp, 10 mL	203
30400085	Flask Clamp, 25 mL	112
30400086	Flask Clamp, 50 mL	56
30400087	Flask Clamp, 125 mL	36
30400088	Flask Clamp, 250 mL	36
30400089	Flask Clamp, 500 mL	26
30400090	1 Liter Erlenmeyer Flask Clamp	15
30400091	2 Liter Erlenmeyer Flask Clamp	8
30400092	2.8 Liter Erlenmeyer Flask Clamp	3
30400093	3 Liter Erlenmeyer Flask Clamp	4
30400094	4 Liter Erlenmeyer Flask Clamp	6
30400095	5 Liter Erlenmeyer Flask Clamp	6
30400096	6 Liter Erlenmeyer Flask Clamp	4
30400097	500 mL Media Bottle Clamp	28
30400098	1000 mL Media Bottle Clamp	18
30400099	Flask Clamp PVC 125 mL	36
30400100	Flask Clamp PVC 250 mL	33
30400101	Flask Clamp PVC 500 mL	20
30400102	Flask Clamp PVC 1000 mL	14
30400103	Flask Clamp PVC 2000 mL	8
30400105	Test Tube Rack 13 mm Pivoting	4
30400106	Test Tube Rack 16 mm Pivoting	4
30400107	Test Tube Rack 20 mm Pivoting	4
30400108	Test Tube Rack 25 mm Pivoting	4
30400109	Test Tube Rack 30 mm Pivoting	4
30400110	Test Tube Rack 10-14 mm Stationary	6
30400111	Test Tube Rack 16-20 mm Stationary	6
30400112	Test Tube Rack 21-25 mm Stationary	6
30400113	Test Tube Rack 50 mL Tubes Stationary	6
30400114	Micro Tube Rack	8
30400115	Test Tube Rack 10-13 mm Diameter	8
30400116	Test Tube Rack 14-16 mm Diameter	8
30400117	Test Tube Rack 18-20 mm Diameter	8
30400118	Test Tube Rack 22-25 mm Diameter	8
30400119	Test Tube Rack For 15 mL Tubes	8
30400120	Test Tube Rack For 50 mL Tubes	8
30400104	Clamp Microplate Stainless Steel	21



30400058
Universal Platform, 76× 46 cm



30400088
Flask Clamp, 250 mL



30400097
500 mL Media Bottle Clamp



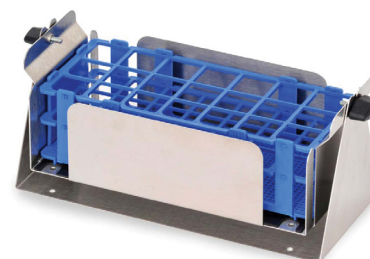
30400104
Clamp Microplate Stainless Steel

Accessories Heavy Duty Orbital Shakers

Accessories for Universal Platform, 91 × 61 cm, S/S (Item No. 30400059)	Description	Max per Platform
30400084	Flask Clamp, 10 mL	336
30400085	Flask Clamp, 25 mL	160
30400086	Flask Clamp, 50 mL	94
30400087	Flask Clamp, 125 mL	61
30400088	Flask Clamp, 250 mL	64
30400089	Flask Clamp, 500 mL	40
30400090	1 Liter Erlenmeyer Flask Clamp	24
30400091	2 Liter Erlenmeyer Flask Clamp	14
30400092	2.8 Liter Erlenmeyer Flask Clamp	7
30400093	3 Liter Erlenmeyer Flask Clamp	7
30400094	4 Liter Erlenmeyer Flask Clamp	9
30400095	5 Liter Erlenmeyer Flask Clamp	7
30400096	6 Liter Erlenmeyer Flask Clamp	7
30400097	500 mL Media Bottle Clamp	40
30400098	1000 mL Media Bottle Clamp	30
30400099	Flask Clamp PVC 125 mL	61
30400100	Flask Clamp PVC 250 mL	55
30400101	Flask Clamp PVC 500 mL	38
30400102	Flask Clamp PVC 1000 mL	22
30400103	Flask Clamp PVC 2000 mL	13
30400105	Test Tube Rack 13 mm Pivoting	6
30400106	Test Tube Rack 16 mm Pivoting	6
30400107	Test Tube Rack 20 mm Pivoting	6
30400108	Test Tube Rack 25 mm Pivoting	6
30400109	Test Tube Rack 30 mm Pivoting	6
30400110	Test Tube Rack 10-14 mm Stationary	5
30400111	Test Tube Rack 16-20 mm Stationary	5
30400112	Test Tube Rack 21-25 mm Stationary	5
30400113	Test Tube Rack 50 mL Tubes Stationary	5
30400114	Micro Tube Rack	7
30400115	Test Tube Rack 10-13 mm Diameter	7
30400116	Test Tube Rack 14-16 mm Diameter	7
30400117	Test Tube Rack 18-20 mm Diameter	7
30400118	Test Tube Rack 22-25 mm Diameter	7
30400119	Test Tube Rack For 15 mL Tubes	7
30400120	Test Tube Rack For 50 mL Tubes	7
30400104	Clamp Microplate Stainless Steel	36
30400065	Rubber Mat, 61 × 91 cm	1



30400059
Universal Platform, 91 × 61 cm



30400109
Test Tube Rack 30 mm Pivoting



30400120
Test Tube Rack For 50 mL Tubes



30400065
Rubber Mat, 61 × 91 cm

Accessories *Heavy Duty Orbital Shakers*

Accessories for Large Vessel Carrier Platforms	Description	Compatible Platforms
30400073	Adjustment Bar, 46 cm	30400070
30400074	Adjustment Bar, 61 cm	30400071 & 30400072



30400073
Adjustment Bar, 46 cm

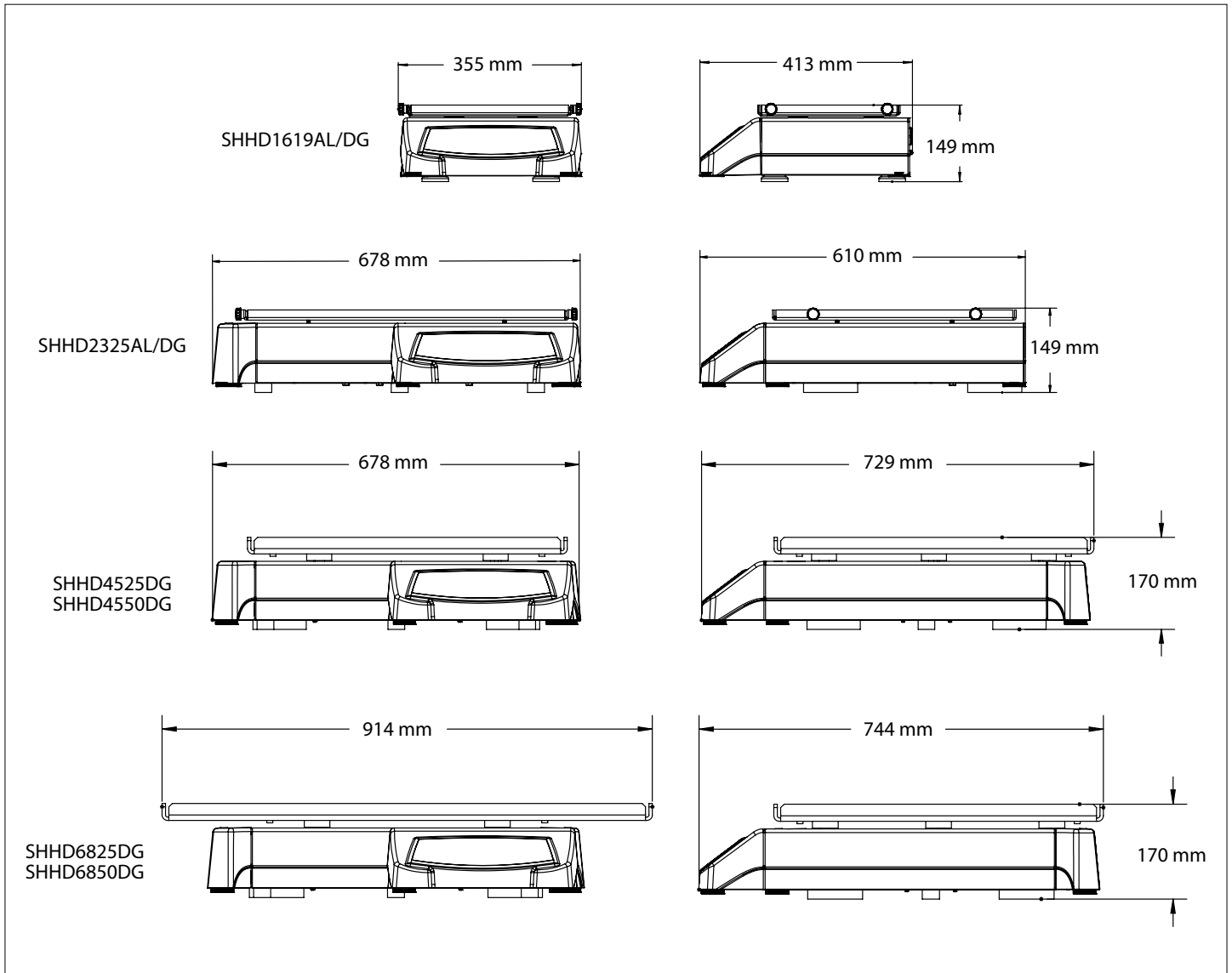
Accessories for Large Vessel Carrier Platforms	Description	Compatible Platforms
30400073	Adjustment Bar, 46 cm	30400070
30400074	Adjustment Bar, 61 cm	30400071 & 30400072



30400074
Adjustment Bar, 61 cm

Heavy Duty Orbital Shakers

Dimensions



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*The management system
governing the manufacture of
this product is ISO 9001:2015
certified.*





High Speed Microplate Shaker



High Speed Shaking for up to 48 Microplates

High Speed Microplate Shaker provides variable high speed shaking from 600 to 2500 rpm for microplates, deep well plates, and small diameter tubes up to 5 in. (12.7 cm) tall.

Unique Features Include:

- Sturdy, adjustable top plate secures up to 48 microplates, 6 deep well plates or small tubes less than 5 in. (12.7 cm) tall up to 7 lb. (3.2 kg).
- For difficult to mix samples or to prevent overheating samples while shaking, the Pulse Feature can be adjusted to Pulse ON and Pulse OFF between 1 and 59 second intervals.
- Independent LEDs and Touchpad Control for Speed and Time allow you to accurately reproduce the exact settings every time.

High Speed Microplate Shaker

Model	SHHSMPDG
Motion	Orbital, 3.6 mm
Speed Range	600 rpm to 2500 rpm
Timer	1 second to 160 hours
Control	Digital
Communication	RS-232 Interface
Capacity	48 microplates
Dimensions (H x L x W)	32.5 x 39.4 x 30.5 cm
Tray Dimensions (L x W)	31.1 x 27.9 cm
Net Weight	21.8 kg
Power	230V, 50/60Hz
Power Consumption	120 W
Working Environment	4 - 40 °C, 20% to 80% RH*, non-condensing

*RH = Relative Humidity

Other Standard Features & Equipment

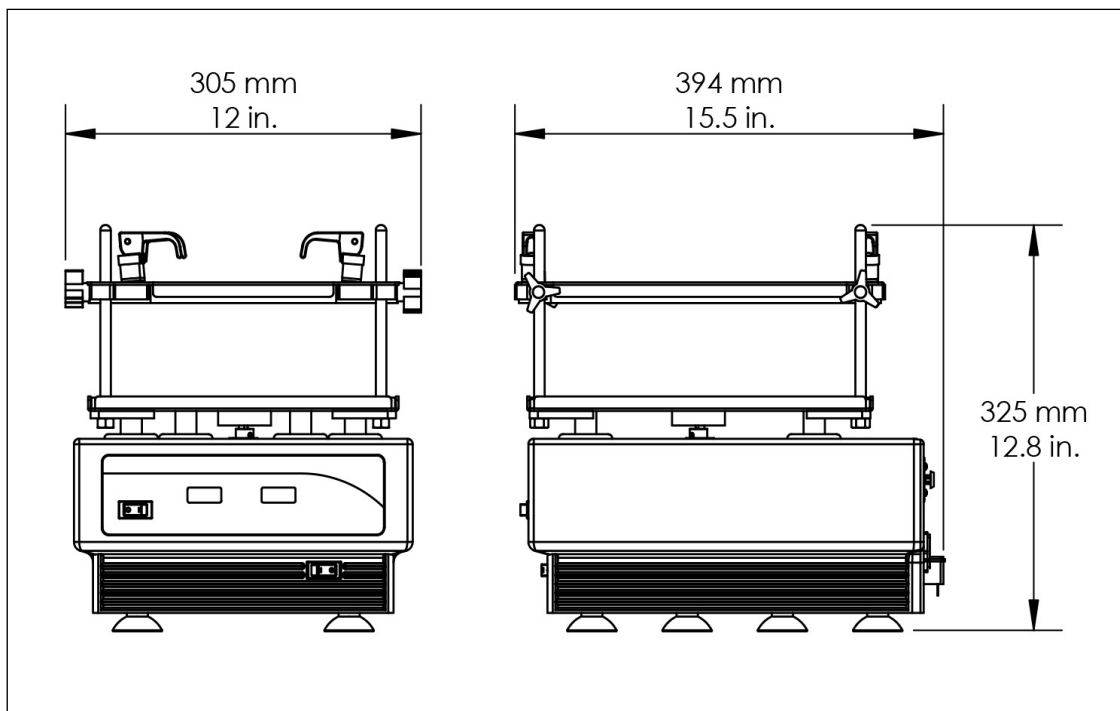
Die Cast Aluminum construction, programmable pulse feature with adjustments for pulse ON & pulse OFF between 1 & 59 seconds. Program timer to count down from set time and turn off when timer reaches zero or run in continuous mode and timer will count accumulated time until user turns it off.

Compliance

- Product Safety: IEC/EN 61010-1; IEC/EN 61010-2-051
- Electromagnetic Compatibility: IEC/EN 61326-1 Class A, Basic Environments
- Compliance Marks: CE; RCM; UKCA; TÜV SÜD; WEEE

Dimensional Drawings

SHHSMPDG



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The management system governing the manufacture of this product is ISO 9001:2015 certified.



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Reciprocating Shakers



Providing Consistent, Repeatable Reciprocating Shaking Action for a Variety of Applications

OHAUS Reciprocating Shakers are designed for a range of applications including cell cultures and extraction procedures that require accurate, repeatable results. Our shakers are designed to provide consistent, uniform shaking action. The back-and-forth reciprocating motion has a 19 mm stroke length. Permanently lubricated ball bearings and maintenance-free, brushless DC motor provide reliable service and continuous-duty operation.

Unique Features:

- A flexible unit for the lab - our multi-purpose Reciprocating Shakers can be customized to fit your unique workflow needs using a wide variety of accessories.
- Reciprocating motion is ideal for gentle-to-vigorous mixing of separatory funnels with the sturdy separatory funnel platform. Other optional platforms for flask clamps, media bottles and tube racks.
- Designed for safety - speed ramping feature slowly increases speed to avoid splashing. Load sensor detects unbalanced conditions and automatically reduces to a safe speed to protect samples.

Specifications *Reciprocating Shakers*

Model	SHRC0719DG
Control	Digital
Motion	Reciprocating, 19 mm
Speed Range	20 rpm – 300 rpm
Speed Accuracy	± 2 rpm, Above 100 rpm ± 2% of set speed
Timer	1 second – 160 hours
Capacity	6.8 kg
Calibration	Speed calibration
Communication	RS232 (Included)
Working Environment	-10 °C – 60 °C, 80% Relative Humidity, non-condensing
Drive System	Brushless DC Motor; Single Eccentric
Included Tray (L × W)	279 mm × 330 mm
Tray Construction	Aluminum
Overall Dimensions (L × W × H)	413 mm × 355 mm × 149 mm
Net Weight	21.8 kg
Power	230V, 2.5A, 50/60Hz
Power Consumption	40 W

Other Standard Features and Equipment

Built-in tray with a non-slip rubber mat (included), overload protection with audible and visual signals, audible alarm

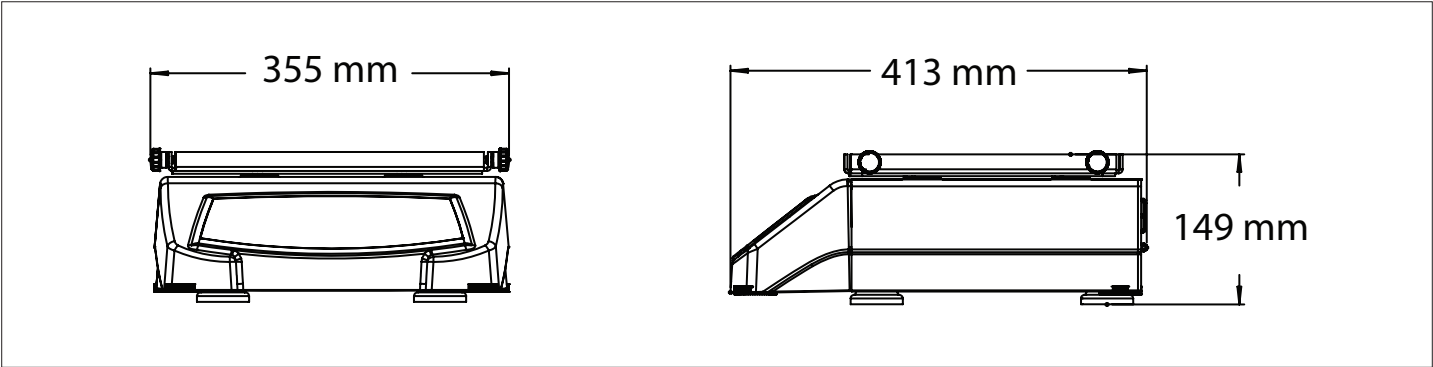
Compliance

- **Product Safety:** EN 61010-1, EN 61010-2-051
- **Electromagnetic Compatibility:** EN 61326-1 Class A, Industrial Environments
- **Compliance Marks:** CE; RCM; UKCA; TÜV SÜD

Applications

Chemical extractions, blood sample mixing, gel staining, cell cultures, solubility studies

Dimensions

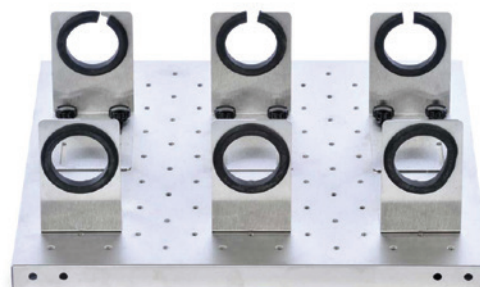


Accessories *Reciprocating Shakers*

Platforms for Reciprocating Shakers		
Item No.	Description	
30400052	Universal Platform, 28 × 33 cm, S/S	
30400053	Universal Platform, 33 × 33 cm, S/S	
30400054	Universal Platform, 46 × 46 cm, S/S	
30400056	Universal Platform, 61 × 46 cm, S/S	
30400066	Culture Platform with Mat, 46 × 46 cm	
30400067	Culture Platform with Mat, 46 × 61 cm	
30400075	Dedicated Platform, 33 × 33 cm, 125 mL	
30400076	Dedicated Platform, 33 × 33 cm, 250 mL	
30400077	Dedicated Platform, 33 × 33 cm, 500 mL	
30400078	Dedicated Platform, 33 × 33 cm, 1000 mL	
30400079	Dedicated Platform, 46 × 46 cm, 125 mL	
30400080	Dedicated Platform, 46 × 46 cm, 250 mL	
30400081	Dedicated Platform, 46 × 46 cm, 500 mL	
30400082	Dedicated Platform, 46 × 46 cm, 1000 mL	
30400083	Separatory Funnel Platform 46 × 46 cm	



30400052
Universal Platform, 28 × 33 cm, S/S



30400083
Separatory Funnel Platform, 46 × 46 cm

Accessories for Universal Platform—28 × 33 cm (Item No. 30400052)		
Item No.	Description	Max. per Platform
30400084	Flask Clamp, 10 mL	60
30400085	Flask Clamp, 25 mL	25
30400086	Flask Clamp, 50 mL	13
30400087	Flask Clamp, 125 mL	10
30400088	Flask Clamp, 250 mL	9
30400089	Flask Clamp, 500 mL	7
30400090	1 Liter Erlenmeyer Flask Clamp	4
30400097	500 mL Media Bottle Clamp	5
30400098	1000 mL Media Bottle Clamp	2
30400099	Flask Clamp PVC 125 mL	10
30400100	Flask Clamp PVC 250 mL	8
30400101	Flask Clamp PVC 500 mL	5
30400102	Flask Clamp PVC 1000 mL	2
30400105	Test Tube Rack 13 mm Pivoting	1
30400106	Test Tube Rack 16 mm Pivoting	1
30400107	Test Tube Rack 20 mm Pivoting	1
30400108	Test Tube Rack 25 mm Pivoting	1
30400109	Test Tube Rack 30 mm Pivoting	1
30400114	Micro Tube Rack	2
30400115	Test Tube Rack 10-13 mm Diameter	2
30400116	Test Tube Rack 14-16 mm Diameter	2
30400117	Test Tube Rack 18-20 mm Diameter	2
30400118	Test Tube Rack 22-25 mm Diameter	2
30400119	Test Tube Rack For 15 mL Tubes	2
30400120	Test Tube Rack For 50 mL Tubes	2
30400104	Clamp Microplate Stainless Steel	4
30400060	Rubber Mat, 28 × 33 cm	1

Accessories for Universal Platform—33 × 33 cm (Item No. 30400053)		
Item No.	Description	Max. per Platform
30400084	Flask Clamp, 10 mL	60
30400085	Flask Clamp, 25 mL	30
30400086	Flask Clamp, 50 mL	15
30400087	Flask Clamp, 125 mL	12
30400088	Flask Clamp, 250 mL	12
30400089	Flask Clamp, 500 mL	8
30400090	1 Liter Erlenmeyer Flask Clamp	4
30400091	2 Liter Erlenmeyer Flask Clamp	3
30400092	2.8 Liter Erlenmeyer Flask Clamp	1
30400093	3 Liter Erlenmeyer Flask Clamp	1
30400094	4 Liter Erlenmeyer Flask Clamp	1
30400095	5 Liter Erlenmeyer Flask Clamp	1
30400096	6 Liter Erlenmeyer Flask Clamp	1
30400097	500 mL Media Bottle Clamp	6
30400098	1000 mL Media Bottle Clamp	5
30400099	Flask Clamp PVC 125 mL	12
30400100	Flask Clamp PVC 250 mL	10
30400101	Flask Clamp PVC 500 mL	6
30400102	Flask Clamp PVC 1000 mL	4
30400103	Flask Clamp PVC 2000 mL	3
30400105	Test Tube Rack 13 mm Pivoting	2
30400106	Test Tube Rack 16 mm Pivoting	2
30400107	Test Tube Rack 20 mm Pivoting	2
30400108	Test Tube Rack 25 mm Pivoting	2
30400109	Test Tube Rack 30 mm Pivoting	2
30400114	Micro Tube Rack	2
30400115	Test Tube Rack 10-13 mm Diameter	2
30400116	Test Tube Rack 14-16 mm Diameter	2
30400117	Test Tube Rack 18-20 mm Diameter	2
30400118	Test Tube Rack 22-25 mm Diameter	2
30400119	Test Tube Rack For 15 mL Tubes	2
30400120	Test Tube Rack For 50 mL Tubes	2
30400104	Clamp Microplate Stainless Steel	6
30400061	Rubber Mat, 33 × 33 cm	1

Accessories Reciprocating Shakers

Accessories for Universal Platform—46 × 46 cm (Item No. 30400054)		
Item No.	Description	Max. per Platform
30400084	Flask Clamp, 10 mL	113
30400085	Flask Clamp, 25 mL	64
30400086	Flask Clamp, 50 mL	32
30400087	Flask Clamp, 125 mL	20
30400088	Flask Clamp, 250 mL	20
30400089	Flask Clamp, 500 mL	13
30400090	1 Liter Erlenmeyer Flask Clamp	8
30400091	2 Liter Erlenmeyer Flask Clamp	5
30400092	2.8 Liter Erlenmeyer Flask Clamp	2
30400093	3 Liter Erlenmeyer Flask Clamp	2
30400094	4 Liter Erlenmeyer Flask Clamp	4
30400095	5 Liter Erlenmeyer Flask Clamp	4
30400096	6 Liter Erlenmeyer Flask Clamp	2
30400097	500 mL Media Bottle Clamp	16
30400098	1000 mL Media Bottle Clamp	10
30400099	Flask Clamp PVC 125 mL	20
30400100	Flask Clamp PVC 250 mL	18
30400101	Flask Clamp PVC 500 mL	12
30400102	Flask Clamp PVC 1000 mL	8
30400103	Flask Clamp PVC 2000 mL	4
30400105	Test Tube Rack 13 mm Pivoting	2
30400106	Test Tube Rack 16 mm Pivoting	2
30400107	Test Tube Rack 20 mm Pivoting	2
30400108	Test Tube Rack 25 mm Pivoting	2
30400109	Test Tube Rack 30 mm Pivoting	2
30400110	Test Tube Rack 10-14 mm Stationary	3
30400111	Test Tube Rack 16-20 mm Stationary	3
30400112	Test Tube Rack 21-25 mm Stationary	3
30400113	Test Tube Rack 50 mL Tubes Stationary	3
30400114	Micro Tube Rack	4
30400115	Test Tube Rack 10-13 mm Diameter	4
30400116	Test Tube Rack 14-16 mm Diameter	4
30400117	Test Tube Rack 18-20 mm Diameter	4
30400118	Test Tube Rack 22-25 mm Diameter	4
30400119	Test Tube Rack For 15 mL Tubes	4
30400120	Test Tube Rack For 50 mL Tubes	4
30400104	Clamp Microplate Stainless Steel	12
30400062	Rubber Mat, 46 × 46 cm	1

Accessories for Universal Platform—61 × 46 cm (Item No. 30400056)		
Item No.	Description	Max. per Platform
30400084	Flask Clamp, 10 mL	158
30400085	Flask Clamp, 25 mL	88
30400086	Flask Clamp, 50 mL	44
30400087	Flask Clamp, 125 mL	28
30400088	Flask Clamp, 250 mL	28
30400089	Flask Clamp, 500 mL	20
30400090	1 Liter Erlenmeyer Flask Clamp	12
30400091	2 Liter Erlenmeyer Flask Clamp	6
30400092	2.8 Liter Erlenmeyer Flask Clamp	3
30400093	3 Liter Erlenmeyer Flask Clamp	3
30400094	4 Liter Erlenmeyer Flask Clamp	4
30400095	5 Liter Erlenmeyer Flask Clamp	4
30400096	6 Liter Erlenmeyer Flask Clamp	3
30400097	500 mL Media Bottle Clamp	20
30400098	1000 mL Media Bottle Clamp	13
30400099	Flask Clamp PVC 125 mL	28
30400100	Flask Clamp PVC 250 mL	25
30400101	Flask Clamp PVC 500 mL	16
30400102	Flask Clamp PVC 1000 mL	10
30400103	Flask Clamp PVC 2000 mL	6
30400105	Test Tube Rack 13 mm Pivoting	3
30400106	Test Tube Rack 16 mm Pivoting	3
30400107	Test Tube Rack 20 mm Pivoting	3
30400108	Test Tube Rack 25 mm Pivoting	3
30400109	Test Tube Rack 30 mm Pivoting	3
30400110	Test Tube Rack 10-14 mm Stationary	5
30400111	Test Tube Rack 16-20 mm Stationary	5
30400112	Test Tube Rack 21-25 mm Stationary	5
30400113	Test Tube Rack 50 mL Tubes Stationary	5
30400114	Micro Tube Rack	6
30400115	Test Tube Rack 10-13 mm Diameter	6
30400116	Test Tube Rack 14-16 mm Diameter	6
30400117	Test Tube Rack 18-20 mm Diameter	6
30400118	Test Tube Rack 22-25 mm Diameter	6
30400119	Test Tube Rack For 15 mL Tubes	6
30400120	Test Tube Rack For 50 mL Tubes	6
30400104	Clamp Microplate Stainless Steel	18
30400063	Rubber Mat, 46 × 61 cm	1



30400096
6 Liter Erlenmeyer Flask Clamp



30400102
Flask Clamp PVC 1000 mL



30400093
3 Liter Erlenmeyer Flask Clamp



30400120
Test Tube Rack For 50 mL Tubes

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The management system
governing the manufacture
of this product is ISO
9001:2015 certified.





Rocking & Waving Shakers



Reliable Rocking and Waving Shakers with Simple Adjustments for Tilt Angle and Speed

OHAUS Rocking and Waving Shakers are innovatively designed for use in a wide range of lab applications. Rocking Shakers provide controlled seesaw-like motion, while Waving Shakers offer a smooth, low-foaming, 3D wave motion. Available in microprocessor-controlled digital models and economical non-digital models. All models include a non-slip mat, and most models are available with a stacking tray option to easily double the capacity.

Standard Features:

- Electronic control allows simple tilt angle and speed adjustments while the unit is still running to achieve optimal mixing.
- Achieve reproducible results you can trust with digital models. Precisely adjust the tilt angle in 1° increments with variable speed down to 1 rpm with intuitive touchpad controls.
- Optimal speed ramping feature slowly increases speed to desired setpoint to avoid splashing. Smooth rocking or waving motion is maintained with state-of-the-art motor and electronics.

Rocking & Waving Shakers

Model	SHRK07AL1	SHRK07AL2	SHRK04DG	SHWV02AL	SHWV02DG
Control	Analog	Analog	Digital	Analog	Digital
Motion / Tilt Angle	Rocking / 0 – 15°			Waving / 0 – 16°	Waving / 0 – 20°
Speed Range	1 – 75 rpm		1 – 50 rpm	1 – 75 rpm	1 – 30 rpm
Speed Accuracy	± 1 rpm				
Timer	1 minute – 120 minutes		1 second – 160 hours	1 minute – 120 minutes	1 second – 160 hours
Capacity	7.3 kg		4.5 kg	2.3 kg	
Working Environment	-10 °C – 60 °C, 80% Relative Humidity, non-condensing				
Drive System	Stepper Motor				
Included Tray (L × W)	356 × 279 mm		324 × 254 mm	356 × 279 mm	299 × 222 mm
Tray Construction	Aluminum				
Tiers	1	2	1		
Overall Dimensions (L × W × H)	425 × 279 × 165 mm	425 × 279 × 241 mm	425 × 254 × 140 mm	425 × 279 × 165 mm	432 × 279 × 152 mm
Net Weight	6.6 kg	7 kg	6.6 kg		6.9 kg
Power	230V, 0.65A, 50/60Hz		230V, 5A, 50/60Hz	230V, 0.65A, 50/60Hz	230V, 5A, 50/60Hz
Power Consumption	15 W		25 W		

Other Standard Features and Equipment

Built-in tray with non-slip rubber mat (included), overload protection with audio/visual alarm on digital models and audible alarm on analog models

Compliance

- **Product Safety:** EN 61010-1, EN 61010-2-051
- **Electromagnetic Compatibility:** EN 61326-1 Class A, Industrial Environments
- **Compliance Marks:** CE; RCM; UKCA; TÜV SÜD

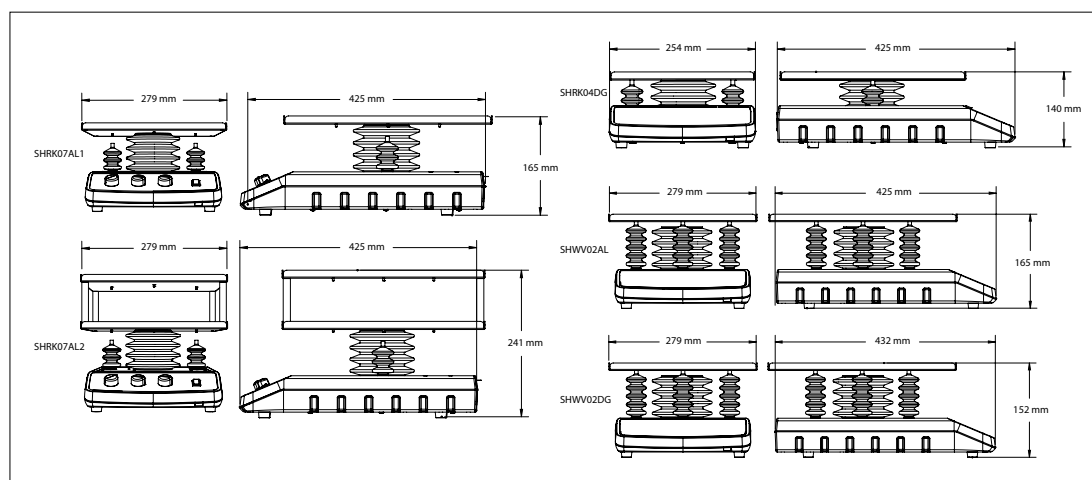
Applications

Mixing blood samples, DNA extractions, blotting techniques, staining and destaining gels, hybridizations

Accessories

Rocking and Waving Shaker Accessories						
Item No.	Description	SHRK07AL1	SHRK07AL2	SHRK04DG	SHWV02AL	SHWV02DG
30400137	Double Tier Platform Kit Rocker SHRK04DG			•		
30400138	Double Tier Platform Kit Waver SHWV02DG					•
30400139	Double Tier Platform Kit Rocker SHRK07AL	•				
30400140	Dimpled Mat For Rocker SHRK04DG			•		
30400142	Dimpled Mat For Waver SHWV02DG					•
30400144	Dimpled Mat For Rocker SHRK07AL	•	•		•	

Dimensions



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The management system
governing the manufacture of
this product is ISO 9001:2015
certified.





Light Duty Orbital Shakers



Choose the Perfect Light Duty Orbital Shaker You Can Trust for Reliable Everyday Shaking

Dependable OHAUS Light Duty Shakers are designed for applications with loads up to 4 kg. Choose from two orbits and speed ranges to optimize your sample mix. One digital model dedicated for use with microplates, two digital models designed to work with accessories and a non-digital economical unit for everyday shaking. All models feature triple eccentric drive systems for stable shaking with microprocessor-control for reliable shaking action.

Unique Features:

- Designed for flexibility with your applications – OHAUS Light Duty Shakers include the ready-to-use tray and mat, or remove the mat and customize the tray with over 20 easy-to-install accessories.
- Well-performing economical choice for your everyday laboratory shaking needs. Non-digital model offers reliable shaking across the entire speed range with the robust triple eccentric drive design.
- Microplate shaker is designed to securely hold up to four microplates or deepwell plates, or easily install two microtube racks. Units slowly increase speed to desired setpoint to avoid splashing.

Light Duty Orbital Shakers

Model	SHLD0415AL	SHLD0403DG	SHLD0415DG	SHLDMP03DG
Control	Analog	Digital		
Motion	Orbital, 15 mm	Orbital, 3 mm	Orbital, 15 mm	Orbital, 3 mm
Speed Range	40 to 300 rpm	100 to 1200 rpm	40 to 300 rpm	100 to 1200 rpm
Timer	N/A	1 second to 160 hours		
Capacity	3.6 kg			4 Microplates or 2 Microtube Racks
Working Environment	0 °C to 40 °C, 80% Relative Humidity, non-condensing	-10 °C to 60 °C, 80% Relative Humidity, non-condensing		
Drive System	Brushless DC Motor; Triple Eccentric			
Tray Size (L × W)	299 × 222 mm			279 × 197 mm
Tray Construction	Aluminum			
Dimensions (H × L × W)	108 × 413 × 260 mm			
Net Weight	10.9 kg			
Power	230V, 2.5A, 50/60Hz	230V, 5A, 50/60Hz		
Power Consumption	25 W			

Other Standard Features and Equipment

Non-slip mat (299 × 222 mm) included with all models except SHLDMP03DG

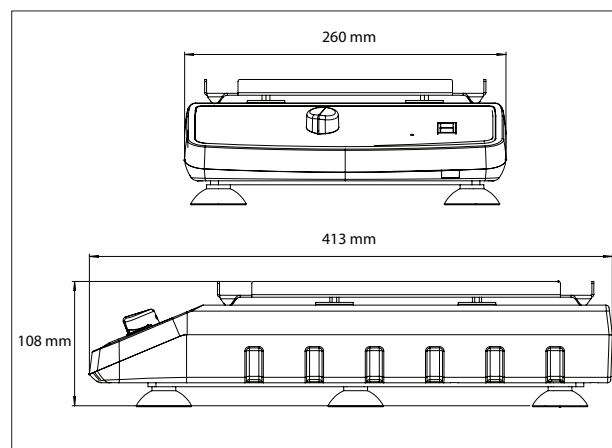
Compliance

- **Product Safety:** EN 61010-1, EN 61010-2-051
- **Electromagnetic Compatibility:** EN 61326-1 Class A, Industrial Environments
- **Compliance Marks:** CE; RCM; UKCA; TÜV SÜD

Accessories

Accessories for SHLD0403DG and SHLD0415DG		
Item No.	Description	Max. per Shaker
30400084	Flask Clamp, 10 mL	35
30400085	Flask Clamp, 25 mL	20
30400086	Flask Clamp, 50 mL	15
30400087	Flask Clamp, 125 mL	12
30400088	Flask Clamp, 250 mL	6
30400089	Flask Clamp, 500 mL	4
30400097	Flask Media Bottle Clamp, 500 mL	3
30400099	Flask Clamp PVC 125 mL	12
30400100	Flask Clamp PVC 250 mL	6
30400101	Flask Clamp PVC 500 mL	4
30400114	Microtube Rack (70 tubes per rack)	2
30400115	Tube Rack Ø 10–13 mm (63 tubes per rack)	2
30400116	Tube Rack Ø 14–16 mm (48 tubes per rack)	2
30400117	Tube Rack Ø 18–20 mm (35 tubes per rack)	2
30400118	Tube Rack Ø 22–25 mm (24 tubes per rack)	2
30400119	Tube Rack 15 mL (35 tubes per rack)	2
30400120	Tube Rack 50 mL (12 tubes per rack)	2
30400121	Adjustable Platform 22 × 30 cm, 2 bars	1
30400122	Roller Bar, 22 cm (for Adjustable Platform only)	Variable
30400123	Universal Harness	1
30400124	Dimpled Mat, 22 × 30 cm	1
Accessories for SHLD0415AL		
30400124	Dimpled Mat, 22 × 30 cm	1
Accessories for SHLDMP03DG		
30400114	Microtube Rack (70 tubes per rack)	2

Dimensions



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The management system
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