



# Shaker Accessory Guide

Accessories for Innova® & New Brunswick laboratory shakers  
from Eppendorf

# Biological Shaker Accessory Guide

This user guide provides detailed information on the lab shaker accessories for Eppendorf. From platforms, flask clamps, test tube and microplate racks up to sticky pad solutions.

Learn more about Eppendorf Biological Shakers at [www.eppendorf.com/shakers](http://www.eppendorf.com/shakers)

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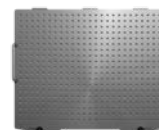
## Shaker Platform Dimensions

Shaker type	Model	Platform dimensions (W x D)	
		cm	in
Incubated and refrigerated shakers	Innova 40/40R	46 x 46	18 x 18
	Innova 42/42R	46 x 46	18 x 18
	Innova 43/43R	76 x 46	30 x 18
	Innova 44/44R	76 x 46	30 x 18
	Innova S44i	76 x 62	30 x 24
CO <sub>2</sub> incubator shaker	New Brunswick S41i	61 x 36	24 x 14

## Universal and Dedicated Shaker Platforms

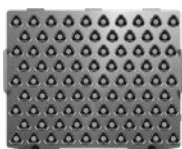
**Universal platforms:** Platforms with a screw hole pattern, that allows to use virtually any combination of Eppendorf shaker accessories, e.g. different sized clamps, test tube racks and microplate racks. For more information on use with sticky pads/sticky tape, [see page 10](#).

		CO <sub>2</sub> Incubated	Incubated and Refrigerated Shakers			
		New Brunswick S41i	Innova 40/40R Innova 42/42R	Innova 43/43R	Innova 44/44R	Innova S44i
Universal platform	Order no.	M1334-9920	M1250-9902	M1250-9920	M1282-9904	S44I040001
	Material	Aluminum, anodized	Aluminum, powder coated	Aluminum, powder coated	Aluminum, powder coated	Aluminum, anodized
	Mass (kg)	4.6	2.1	3.4	3.5	10
	Capacity	See capacity chart on <a href="#">page 4</a>				



**Dedicated platforms:** Platforms, that come complete with clamps of one size pre-installed. Dedicated platforms hold a greater number of clamps than the universal platforms, but do not offer the versatility to mix different vessel formats.

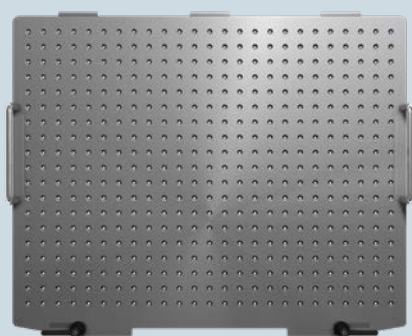
		CO <sub>2</sub> Incubated	Incubated and Refrigerated Shakers			
		New Brunswick S41i	Innova 40/40R Innova 42/42R	Innova 43/43R	Innova 44/44R	Innova S44i
Dedicated platform (example)	125 mL	M1334-9921	M1194-9904	M1191-9909	M1282-9905	S44I040002
	250/300 mL	M1334-9922	M1194-9905	M1191-9910	M1282-9906	S44I040003
	500 mL	M1334-9923	M1194-9906	M1191-9911	M1282-9907	S44I040004
	1 L	M1334-9924	M1194-9907	AG-1	M1282-9908	S44I040005
	2 L*	M1334-9925	M1194-9908	AG-2	M1282-9909	S44I040006
	2 L Lauber Thomson*	–	–	–	–	S44I040010
	Material	Aluminum, anodized	Phenolic resin	Aluminum, powder coated	Aluminum, powder coated	Aluminum, anodized
	Capacity	See capacity chart on <a href="#">page 4</a>				



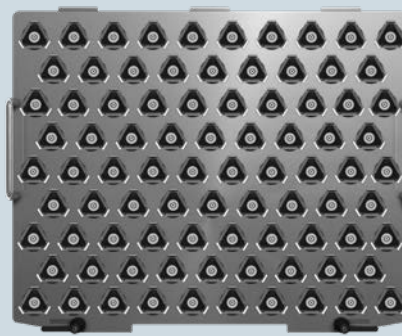
\*The dedicated platform 2 L (clamps with order no. ACE-2000S pre-installed) fits 2 L wide neck Erlenmeyer (DIN ISO 24450), or bottom diameter ~153 mm (6.02 in); The dedicated platform 2 L Lauber Thomson (clamps with order no. M1190-9005 pre-installed) fits 2 L narrow neck Erlenmeyer (DIN ISO 1773), Thomson, or Corning® flasks, or bottom diameter ~166 mm (6.54 in)

## Flask Clamp Capacities on Universal and Dedicated Platforms

The following table shows the flask clamp capacity for universal and dedicated platforms of different shaker models.



Universal platform



Dedicated platform

	Innova 40/40R		Innova 42/42R <sup>1</sup>		Innova 43/43R <sup>2</sup>		Innova 44/44R <sup>2</sup>		Innova S44i <sup>3</sup>		New Brunswick S41i <sup>4</sup>	
	D	U	D	U	D	U	D	U	D	U	D	U
<b>Dedicated Platform (D)</b>												
<b>Universal Platform (U)</b>												
10 mL Erlenmeyer	–	109	–	109	–	183	–	187	–	238	–	110
25 mL Erlenmeyer	–	64	–	64	–	92	–	96	–	238	–	60
50 mL Erlenmeyer	–	45	–	45	108	92	–	96	–	130	–	60
125 mL Erlenmeyer	34	24	34	24	60	39	60	39	86	81	32	23
250 mL Erlenmeyer	25	19	25	19	40	30	40	31	53	48	24	18
500 mL Erlenmeyer	16	14	16	14	24	24	24	24	39	36	15	15
1 L Erlenmeyer	9	8	9	8	15	12	15	14	23	20	11	10
2 L Erlenmeyer <sup>5</sup>	5	6	5	6	12	11	12	11	15	14	6	6
2 L Lauber Thomson <sup>5</sup>	–	6	–	6	–	11	–	11	15	13	–	6
2.8 L Fernbach flask	–	4	–	4	–	6	–	6	–	8	–	3
3 L Erlenmeyer flask	–	4	–	4	–	6	–	6	–	9	–	3
4 L Erlenmeyer flask	–	–	–	4	–	6	–	6	–	8	–	3
5 L Erlenmeyer flask	–	–	–	4	–	6*	–	6*	–	6	–	3
6 L Erlenmeyer flasks	–	–	–	2	–	4*	–	–	–	–	–	–
500 mL Media bottle	–	14	–	14	–	24	–	24	–	30	–	15
1 L Media bottle	–	8	–	8	–	13	–	13	–	20	–	8

<sup>1</sup>Innova 42: Maximum flask size limited to 4 L with installed culture drawer, shelf or photosynthetic lights (shelf and drawer are easily removable to adjust larger flasks, shelf adjustable in height). Distance from platform to ceiling: ~47.7 cm (18.78 in), to drawer ~35.3 cm (13.90 in), to shelf in standard position (position 5 from top) ~36.8 cm (14.49 in).

<sup>2</sup>Innova 43/44: Maximum flask size limited to 4 L with installed photosynthetic lights. Innova 44 distance from platform to ceiling ~46 cm (18.11 in), platform to light bank ~40 cm (15.75 in)

<sup>3</sup>Innova S44i: Maximum flask size limited to 1 L with installed shelf (easily removable to adjust larger flasks, not adjustable in height), distance from platform to ceiling ~43.7 cm (17.20 in), to shelf ~27 cm (10.63 in), to LED bank ~40.6 cm (15.98 in)

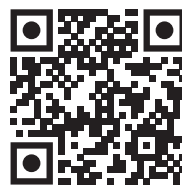
<sup>4</sup>New Brunswick S41i: Maximum flask size with shelf in lower position limited to 250 mL Erlenmeyer or 500 mL Thomson Optimum Growth. Maximum flask size with shelf in upper position limited to 1 L Erlenmeyer or 2.8 L Thomson Optimum Growth. Maximum flask size without shelves 3 L and 5 L Corning® and 5 L Thomson Optimum Growth. No fit of standard 5 L Erlenmeyer flasks. Distance from platform to ceiling: ~40 cm (15.75 in), platform to lower shelf: ~18.5 cm (7.28 in), platform to upper shelf ~27.5 cm (10.83 in)

<sup>5</sup>The 2 L Erlenmeyer clamp (ACE-2000S) fits 2 L wide neck Erlenmeyer (DIN ISO 24450), or bottom diameter ~153 mm (6.02 in); the 2 L Lauber Thomson clamp (M1190-9005) fits to 2 L narrow neck Erlenmeyer (DIN ISO 1773), Thomson, or Corning® flasks or bottom diameter ~166 mm (6.54 in)



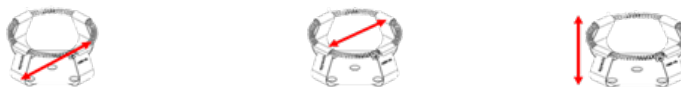
You would like to mix different accessories on a universal platform? Configure your platform online at:

















[www.eppendorf.com/ShakerConfigurator](http://www.eppendorf.com/ShakerConfigurator)



## Flask Clamp Properties

Flask clamps are made of stainless-steel, some with extra girdles (2 L, 2 L Lauber Thomson, 2.8, 4 and 6 L, girdles not depicted in table<sup>1)</sup>) for added security when agitating flasks at high speeds. The table below indicates the dimensions of all flask clamps. The Erlenmeyer clamps fit all common wide (DIN ISO 24450) and small neck Erlenmeyer formats (DIN ISO 1773) if not indicated differently.



Clamps				Bottom Diameter		Top Diameter		Height	
Size	Order no.	Design <sup>1,2</sup>	Weight (g)	(mm)	(in)	(mm)	(in)	(mm)	(in)
10 mL	ACE-10S		4.26	30.94	1.26	28.45	1.12	25.40	1.00
25 mL	M1190-9004		5.55	43.18	1.70	43.18	1.70	22.35	0.88
50 mL	M1190-9000		9.26	50.80	2.00	47.24	1.86	25.60	1.01
125 mL	M1190-9001		30.46	67.82	2.67	64.52	2.54	37.34	1.47
250 mL	M1190-9002		37.84	91.44	3.60	80.24	3.16	47.24	1.86
500 mL	M1190-9003		58.56	101.6	4.00	88.90	3.50	47.75	1.88
1 L	ACE-1000S		134.70	130.05	5.12	111.25	4.38	63.50	2.50
2 L <sup>1,2</sup>	ACE-2000S		308.75	157.99	6.22	143.76	5.66	71.63	2.82
2 L Lauber Thomson <sup>1,2</sup>	M1190-9005		379.63	165.10	6.50	117.35	4.62	112.00	5.64
2.8 L <sup>1</sup>	ACFE-2800S		352.00	203.20	8.00	177.80	7.00	73.15	2.88
3 L	ACE-3000S		354.12	189.00	7.44	130.00	5.12	112.00	4.41
4 L <sup>1</sup>	ACE-4000S		450.77	209.80	8.26	180.85	7.12	98.55	3.88
5 L	ACE-5000S		507.45	222.00	8.74	145.00	5.71	145.00	5.71
6 L <sup>1</sup>	ACE-6000S		573.92	243.84	9.60	215.90	8.50	100.33	3.95
500 mL media bottle	ACSB-500S		162.28	92.20	3.63	96.52	3.80	107.95	4.25
1 L media bottle	ACSB-1000S		181.80	107.95	4.25	123.95	4.88	149.35	5.88

<sup>1</sup>The girdles of the clamps (2 L, 2 L Lauber Thomson, 2.8, 4, 6 L) do not withstand autoclaving or 120 °C high temperature disinfection. The metal parts and all other sizes of the clamps can be autoclaved or stay inside the device during 120 °C high temperature disinfection.

<sup>2</sup>The 2 L Erlenmeyer clamp (ACE-2000S) fits 2 L wide neck Erlenmeyer (DIN ISO 24450), or bottom diameter ~153 mm (6.02 in); the 2 L Lauber Thomson clamp (M1190-9005) fits 2 L narrow neck Erlenmeyer (DIN ISO 1773), Thomson, or Corning® flasks or bottom diameter ~166 mm (6.54 in)

All clamps come complete with screws.

Spare screws for clamps: S2116-3051P (Pack of 25).

No spare screws for M1190-9005, ACE-3000S, and ACE-5000S.



### Flask Fit Single-use Flasks and Other Vessels

The Erlenmeyer clamps fit all common wide (DIN-ISO 24450) and small neck Erlenmeyer formats (DIN-ISO 1773) if not indicated differently. In the following table, other commonly used flask and vessel formats are listed.

Flask type	Size	Order no.*	125 mL (M1190-9001)	250 mL (M1190-9002)	500 mL (M1190-9003)	1 L (ACE-1000S)	2 L (ACE-2000S)	2 L Thomson (M1190-9005)	5 L (ACE-5000S)	500 mL Media (ACSB-500S)	1 L Media (ACSB-1000S)	No fit
Thomson Ultra Yield® flasks	125 mL	931147	■									
	250 mL	931144		■								
	500 mL	931141			■							
	1.5 L	931138				■						
	2.5 L	931136-B						■				
Thomson Optimum Growth™ flasks	125 mL	931110	■									
	250mL	931111		■								
	500mL	931112			■							
	1.6L	931113										■
	2.8L	931114					■	■				
	5L	931116							■ <sup>1</sup>			
Tunair™ flasks	2.5 L	SS-5013						■				
Corning® flasks	125 mL	431143	■									
	250 mL	431144		■								
	500 mL	431145			■							
	1 L	431147				■						
	2 L	431255						■				
	3 L	431252							■ <sup>1</sup>			
	5 L	431685							■			
Corning® Centrifuge Tubes	500 mL	431123								■		
TPP® TubeSpin® Bioreactors	450/600 mL	87450/87600								■		
DURAN® Blue cap bottle	250 mL	218013651		■ <sup>2</sup>								
	500 mL	218014455			■ <sup>2</sup>							
	1000 mL	218015455								■ <sup>3</sup>		

\*Order no. of the unbaffled flasks are listed as example. Flask variants (e.g. baffles, other material types, sterility level) will fit as well

<sup>1</sup>Sticky pad recommended. Proper fit in the clamp bottom, but due to the upper flask geometry limited fit in the upper part. Insertion and removal slightly impaired.

<sup>2</sup>Limited fit in respective clamp, only up to approx. 150 rpm (25 mm orbit).

<sup>3</sup>Limited fit in respective clamp, only up to approx. 200 rpm (25 mm orbit).



TubeSpin®  
Bioreactor 450



TubeSpin®  
Bioreactor 600



Corning® 5 L Erlenmeyer



Corning® 3L  
Erlenmeyer  
(Fernbach Design)



Thomson Optimum  
Growth™ Flask 5 L



Thomson Ultra  
Yield™ Flask 2.5 L



Thomson Optimum  
Growth™ Flask 2.8 L






DURAN® laboratory  
bottle 1 L



DURAN® laboratory  
bottle 250 mL

## Test Tube Racks

The test tube racks can be attached to universal platforms. They have an adjustable angle and tube height-support. The test tube racks are made of stainless-steel with plastic inserts to help retain tubes and prevent them from spinning in the rack. The side knobs let you quickly adjust the angle, or release the insert rack from the holder, for easy transport to the bench. Test tube racks come complete with screws for fixation on universal platforms. Spare screws: M1289-0800 (pack of 10).

Test tube rack	Order no.	Tubes/rack	Tube diameter		Tube examples	Plastic inserts (replacement, pack of 10) <sup>1</sup>
			(mm)	(in)		
<b>Small</b> 	M1289-0001	48	8–11	0.32–0.43	1.5/2 mL	K0240-0290
	M1289-0002	34	12–15	0.47–0.59	–	K0240-0291
	M1289-0003	24	15–18	0.59–0.71	Conical 5/15 mL	K0240-0292
	M1289-0004	18	18–21	0.71–0.83	–	K0240-0293
	M1289-0005	13	22–26	0.87–1.02	–	K0240-0294
	M1289-0006	12	26–30	1.02–1.18	Conical 25/50 mL	K0240-0295
<b>Medium</b> 	M1289-0010	60	8–11	0.32–0.43	1.5/2 mL	K0240-0290
	M1289-0020	44	12–15	0.47–0.59	–	K0240-0291
	M1289-0030	31	15–18	0.59–0.71	Conical 5/15 mL	K0240-0292
	M1289-0040	23	18–21	0.71–0.83	–	K0240-0293
	M1289-0050	16	22–26	0.87–1.02	–	K0240-0294
	M1289-0060	16	26–30	1.02–1.18	Conical 25/50 mL	K0240-0295
<b>Large</b> 	M1289-0100	80	8–11	0.32–0.43	1.5/2 mL	K0240-0290
	M1289-0200	60	12–15	0.47–0.59	–	K0240-0291
	M1289-0300	42	15–18	0.59–0.71	Conical 5/15 mL	K0240-0292
	M1289-0400	30	18–21	0.71–0.83	–	K0240-0293
	M1289-0500	22	22–26	0.87–1.02	–	K0240-0294
	M1289-0600	20	26–30	1.02–1.18	Conical 25/50 mL	K0240-0295

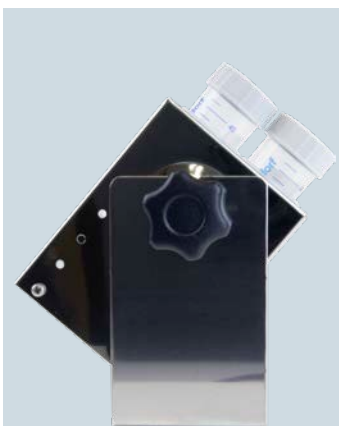
<sup>1</sup>Note: The plastic parts of the rack do not withstand autoclaving or 120 °C high temperature disinfection.

## Test Tube Rack Dimensions

<b>Small</b>	L 300 mm (11.8 in) x D 80 mm (3.2 in) x H 129 mm (5.1 in)
<b>Medium</b>	L 360 mm (14.2 in) x D 80 mm (3.2 in) x H 129 mm (5.1 in)
<b>Large</b>	L 450 mm (17.7 in) x D 80 mm (3.2 in) x H 129 mm (5.1 in)

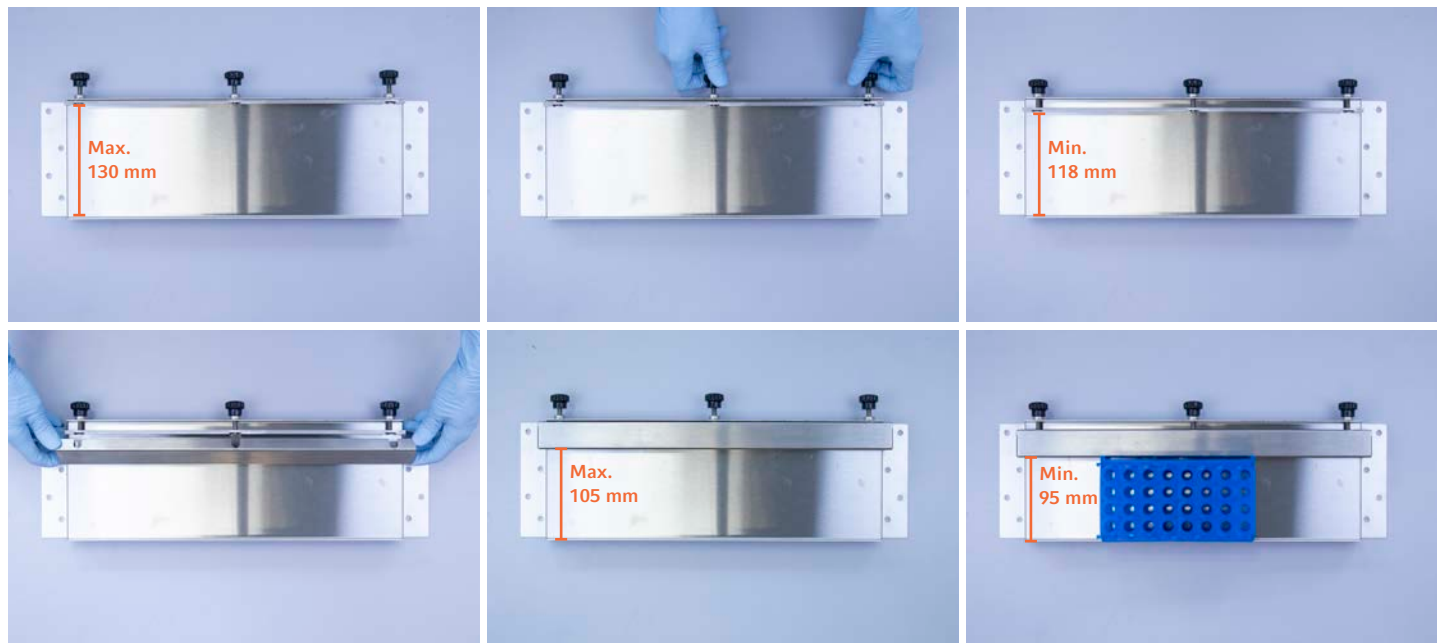


Shaker type	Model	Number of Test Tube Racks per Universal Platform		
		Small	Medium	Large
Incubated and refrigerated shakers	Innova 40/40R	5	4	4
	Innova 42/42R	5	4	4
	Innova 43/43R	9	8	6
	Innova 44/44R	9	8	6
	Innova S44i	12	10	7
CO <sub>2</sub> incubator shaker	New Brunswick S41i	6	4	3



Microplate Racks

The microplate racks can be attached to the universal platforms. They either hold plates side by side in one layer (for aeration) or hold plates in a stack for higher capacity.



**Top:** Microplate rack, single layer (Order no. TTR-221) with adjustable fixation bar for plates. Minimum and maximum distances that can be set with the fixation bar.  
**Bottom:** An additional spacer bar (Order no. TTR-215) is available to reduced the distance/size to fit racks or other formats of differing sizes. Minimum and maximum distances that can be set with the spacer bar.



Microplate rack, stack (Order no. M1289-0700)

Microplate Rack Order Numbers, Plate Capacities, and Rack Dimensions

For Deepwell Plates (DWP) and Microplates (MTP).

Item	Order No.	Plates / Rack	Dimensions (cm)	Dimensions (in)
Microplate Layer	TTR-221	5 DWP/MTP	W 45.7 x D 13.5	W 18 x D 5.31
Microplate Stack	M1289-0700	3 DWP or 9 MTP	H 13.1 x W 9.0 x D 18.0	H 5.16 x W 3.54x D 7.09

Microplate Rack Capacities On Universal Platform

Shaker Type	Model	Microplate rack, single layer TTR-221	Microplate rack, stack M1289-0700
Incubated and refrigerated shakers	Innova 40/40R	2 (10 DWP/MTP)	8 (24 DWP/72 MTP)
	Innova 42/42R	2 (10 DWP/MTP)	8 (24 DWP/72 MTP)
	Innova 43/43R	4 (20 DWP/MTP)	16 (24 DWP/72 MTP)
	Innova 44/44R	4 (20 DWP/MTP)	16 (24 DWP/72 MTP)
	Innova S44i	4 (20 DWP/MTP)	20 (60 DWP/180 MTP)
CO <sub>2</sub> incubator shaker	New Brunswick S41i	2 (10 DWP/MTP)	9 (27/81 DWP)

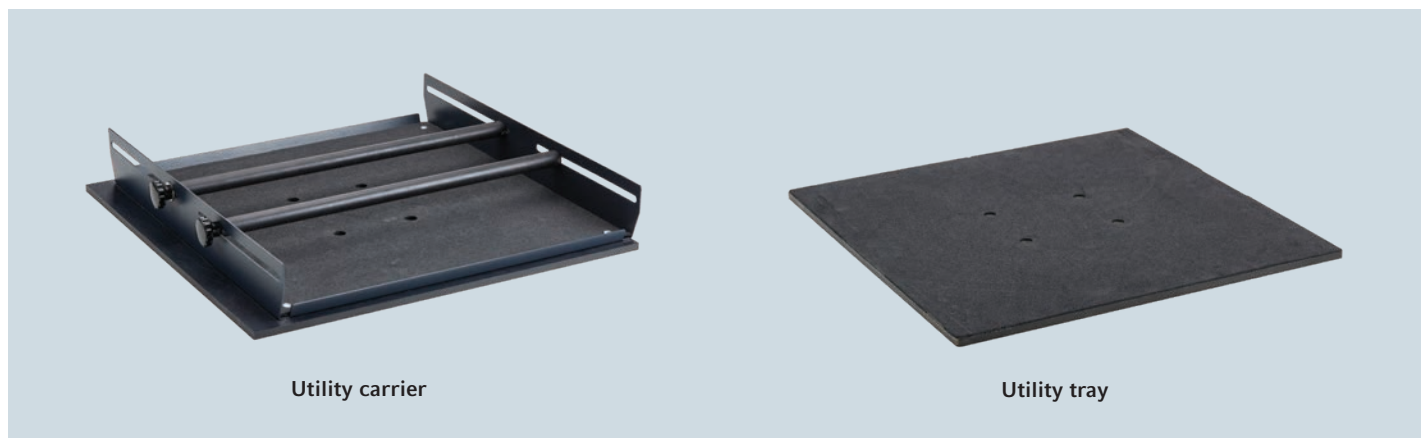


## Utility Carrier and Utility Tray

Utility carrier and Utility tray are stand-alone platforms that do not require a universal platform

> Utility Carrier: Platform that fixates vessels between adjustable cushioned rods

> Utility Tray: Platform with no fixation, non-skid rubber surface



		Utility Carrier <sup>1</sup>			Utility Tray <sup>2</sup>
		Order no.	No. of rods	Additional rod	Order no.
Incubated and refrigerated shakers	Innova 40/40R	M1194-9909	2	M1194-9923	M1194-9910
	Innova 42/42R	M1194-9909	2	M1194-9923	M1194-9910
	Innova 43/43R	-	-	-	AG-00
	Innova 44/44R	-	-	-	-
	Innova S44i	-	-	-	-
CO <sub>2</sub> incubator shaker	New Brunswick S41i	-	-	-	-

<sup>1</sup>Platform materials: phenolic resin and neoprene surface. Weight M1194-9910: 5.90 kg (incl. two rods), additional rod: 0.33 kg

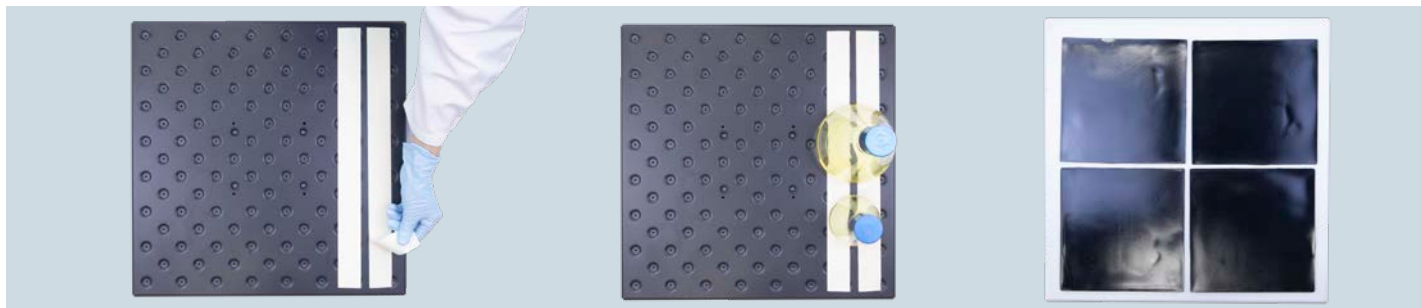
<sup>2</sup>Platform materials: phenolic resin and neoprene surface; Weight: 2.40 kg



Utility carrier (M1194-9909) minimum and maximum settable distances between the rods with 4 rods installed (note that 2 are incl. with the platform, additional must be ordered separately)

## Sticky Pad and Sticky Tape

Sticky pad and sticky tape can be used as an alternative to clamps for flat bottom vessels. Sticky pad requires an anodized aluminum platform. Thus, sticky pads are compatible with universal platforms of New Brunswick S41i and Innova S44i. All other shakers require a sticky pad adapter kit for universal platforms (Order no. M1250-9504, see next chapter) or a dedicated sticky pad platform (see table). The Sticky Pad is re-usable and can be re-positioned simply by peeling it from the surface. In contrast, sticky tape is compatible with all universal platforms and can not be reused after removal. For further information please refer to the operating manual of sticky pad and tape.





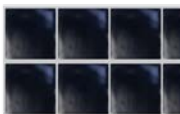
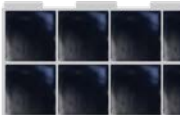

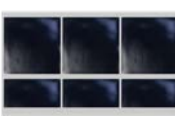
**Left:** Sticky tape attached to universal platform

**Center:** Sticky tape with flasks on universal platform

**Right:** Sticky pads on sticky pad platform

Item	Order No.	Dimensions	Temperature resistance	Max. speed (orbit)	Reusable
Sticky Tape	M1250-9600	23 m x 4 cm (75.5 ft x 1.56 in)	10-50 °C	300 (25 mm / 1 in) 200 (50 mm / 2 in)	No
Sticky Pad	M1250-9700	20 x 20 cm (8 x 8 in)	15-45 °C	250 (25 mm / 1 in) 200 (50 mm / 2 in)	Yes

### Number of sticky pads per sticky pad platform (Innova 40, 42, 43, 44) or Universal platform (New Brunswick S41i, Innova S44i)

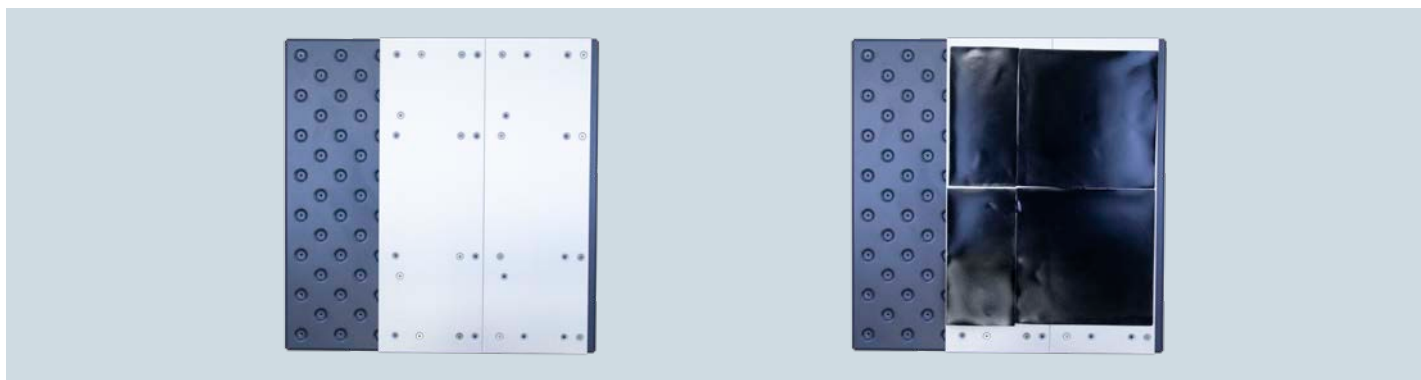
Type	Model	Order no. Sticky pad platform (Aluminum, anodized)	Platform size (cm)	Platform size (in)	Maximum number of sticky pads per platform <sup>2</sup>
Incubated and refrigerated shakers	Innova 40/40R	M1250-9903	46 x 46	18 x 18	4 
	Innova 42/42R	M1250-9903	46 x 46	18 x 18	4 
	Innova 43/43R	M1250-9904	76 x 46	30 x 18	7 
	Innova 44/44R	M1282-9913	76 x 46	30 x 18	7 
	Innova S44i	Use on universal platform <sup>1</sup>	76 x 62	30 x 24	9 
CO <sub>2</sub> incubator shaker	New Brunswick S41i	Use on universal platform <sup>1</sup>	61 x 36	24 x 14	5 

<sup>1</sup>as universal platform is made of anodized aluminum

<sup>2</sup>Order amount given, sticky pads require partly cutting to cover platform as indicated in the pictures

### Sticky Pad Adapter Kit

As an alternative to a dedicated sticky pad platform (see previous chapter), the Sticky pad adapter kit can be attached on the Universal platform. Sticky Pad Adapter Kit (Order no. M1250-9504) consists of two anodized aluminum sheets (each 15.2 x 45.7 cm (6 x 18 in), two sheets next to each other: 30.4 x 45.7 cm (12 x 18 in)), that can be screwed on the universal platform. 2–3 Sticky pads fit per adapter kit (as shown in picture). The adapter kit always leaves space for additional clamps or racks on the universal platform.



Sticky pad adapter kit fits 3 sticky pads (1 cut) each.

**Left:** A 46 x 46 cm universal platform (Innova 40/40R and Innova Innova 42/42R) with one complete sticky pad adapter kit attached

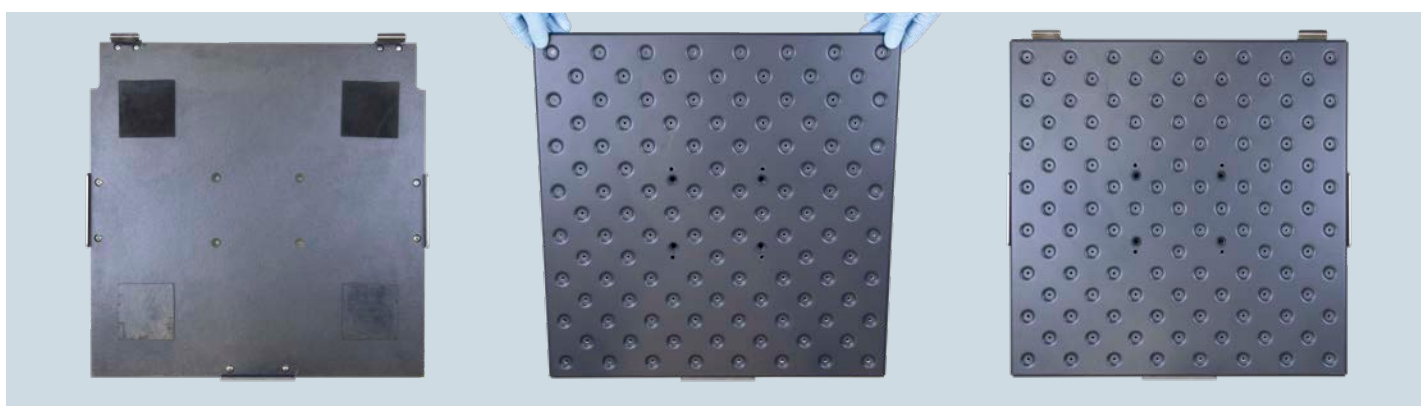
**Right:** 3 sticky pads (1 cut) to fit on the sticky pad adapter kit

Type	Model	Platform dimensions (cm)	Platform dimensions (in)	Maximum number of sticky pad adapter kits	Maximum number of sticky pads
Incubated and refrigerated shakers	Innova 40/40R	46 x 46	18 x 18	1	3
	Innova 42/42R	46 x 46	18 x 18	1	3
	Innova 43/43R	76 x 46	30 x 18	2	6
	Innova 44/44R	76 x 46	30 x 18	2	6
	Innova S44i	76 x 62	30 x 24	na <sup>1</sup>	na
CO <sub>2</sub> incubator shaker	New Brunswick S41i	61 x 36	24 x 14	na <sup>1</sup>	na

<sup>1</sup>Direct use on universal platform as this is made of anodized aluminum

### Quick-Change Platform

The quick-change platform (Order no. M1192-9901) enables quick exchange of shaker platforms by snapping platforms in place without tools. Available for 46 x 46 cm (18 x 18 in) platforms (Innova 40/40R, Innova 42/42R).



A 46 x 46 cm quick change platform (Innova 40/40R, Innova 42/42R)

**Left:** Quick-change platform, empty

**Center:** Quick-change platform being loaded with a universal platform

**Right:** Quick-change platform with a universal platform

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