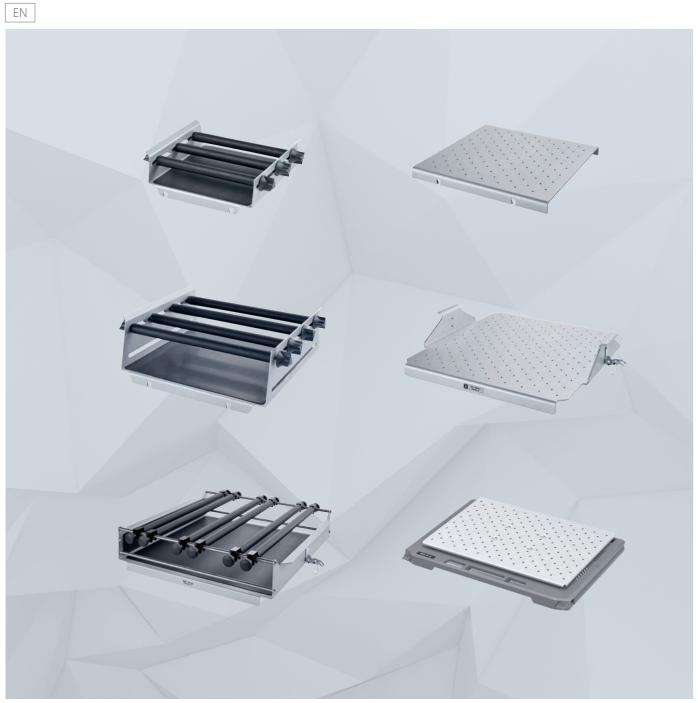


designed for scientists



SELECTION GUIDE HOW TO FIND THE RIGHT SHAKER AND ATTACHMENTS

#### **Shakers**

### /// Finding the right attachment for your application

IKA offers the perfect lab shakers for mixing and shaking tasks. In addition to the tried and tested orbital shakers and horizontal shakers, the innovative incubator shakers are gaining popularity in laboratories. Their precise temperature control make the devices a reliable asset in every lab. They can carry various attachment combinations like fixing clip attachments, universal attachments or STICKMAX.



## How to find the right shaker

## /// Your selection guide

Application	Shaking diameter	Max. permissible shaking weight	Speed range	Recommended IKA device
принастоп	didifficter			



#### Vortex

The cup generates a 'whirlpool' vortex action

Suitable for shaking small vessels and microtiter plates	3 mm	0,5 kg	0 – 3000 rpm	MATRIX Orbital MATRIX Orbital Delta MATRIX Orbital Delta Plus
·	4,5 mm	0,5 kg	0/200 – 3000 rpm	MS 3 basic   digital   control
	4,5 mm	0,5 kg	2800 rpm (fixed)	Hula Dancer basic
Ideal for use with all small vessels of up	4,5 mm	0,5 kg	1200 – 2800 rpm	Hula Dancer digital
to 30 mm in diameter, e.g. test tubes, centrifuge tubes and microcentrifuge tubes	4,5 mm	max. 50 ml (1 test tube)	2800 rpm (fixed)	lab dancer
	4,5 mm	0,1 kg	1000 – 2800 rpm	VORTEX 1
	4 mm	500 – 2500 rpm	VORTEX 2	
Suitable for mixing in test tubes, micro-	st tubes, micro- 4 mm 0,4 kg 500 – 2500 rp		500 – 2500 rpm	VORTEX 3
centrifuge tubes, reagent glasses / small vessels, and microtiter plates	4 mm	2 kg	100 – 2200 rpm	VXR basic Vibrax®
ressess, and merenter plates	3 mm	2 or 4 microtiter plates	50 – 1100 rpm	MTS 2/4 digital microtiter shaker



#### Orbital

The platform moves in a circular orbit

Ideal for unattended operation in a tem-	20 mm	20 kg	10 – 500 rpm	KS 4000 i control   ic control
perature-controlled environment	20 mm	7,5 kg	10 – 500 rpm	KS 3000 i control   ic control
Ideal for mixing in test tubes, microtiter	4 mm	2 kg	80 – 800 rpm	KS 130 basic   control
plates, bottles, flasks and beakers. A	10 mm	7,5 kg	50 – 500 rpm	KS 260 basic
wide range of attachment combinations allows for using almost all shapes and	10 mm	7,5 kg	10 – 500 rpm	KS 260 control
sizes of vessels	30 mm	15 kg	0 – 300 rpm	KS 501 digital
Ideal for cell cultivation and other	20 mm	7,5 kg	10 – 300 rpm	INC 125 FS digital (SP20)
microbiological applications in the field of Life Sciences: for microbiological tests,stability studies or cell cultivation	25 mm	7,5 kg	10 – 300 rpm	INC 125 FS digital (SP25)







lab dancer



VORTEX 3



KS 3000 i control



INC 125 FS digital

# How to find the right shaker

## /// Your selection guide

Application	Shaking diameter	Max. permissible shaking weight	Speed range	Recommended IKA device		
Reciprocating The platform moves back and forth hori	zontally					
	20 mm	7,5 kg	20 – 300 rpm	HS 260 basic		
Ideal for shaking out, eluting, extracting, gassing out, dissolving, enriching, etc.	20 mm	7,5 kg	10 – 300 rpm	HS 260 control		
J. J.	30 mm	15 kg	0 – 300 rpm	HS 260 basic HS 260 control HS 501 digital  ROCKER 2D basic ROCKER 2D digital  ROCKER 3D basic ROCKER 3D digital  ROLLER 6 basic ROLLER 6 digital ROLLER 10 basic ROLLER 10 digital		
Rocking (See-saw action) The platform rocks on a central pivot						
Used for homogenous mixing in flasks,	8° (angle)	2 kg	5 – 80 rpm	ROCKER 2D basic		
culture flasks, Petri dishes and tubes	0 – 15° (angle)	2 kg	5 – 80 rpm	ROCKER 2D digital		
Rocking (3D Tumbling motion) The platform moves in a three-dimension	nal motion					
Ideal for low foaming agitation, DNA extractions, staining and de-staining	8° (angle)	2 kg	30 rpm (fixed)	ROCKER 3D basic		
procedures, etc.	0 – 15° (angle)	2 kg	0 – 80 rpm	ROCKER 3D digital		
Rocking and Rolling The platform rocks on a central pivot as	well as revolves around	a fixed point				
	24,5 mm (high)	2 kg	30 rpm (fixed)	ROLLER 6 basic		
Recommended for mixing blood samples, viscous substances and	24,5 mm (high)	2 kg	0 – 80 rpm	ROLLER 6 digital		
liquid-solid suspensions where minimum aeration is required	24,5 mm (high)	2 kg	30 rpm (fixed)	ROLLER 10 basic		
	24,5 mm (high)	2 kg	0 – 80 rpm	HS 260 basic HS 260 control HS 501 digital  ROCKER 2D basic ROCKER 2D digital  ROCKER 3D basic ROCKER 3D digital  ROLLER 6 basic ROLLER 6 digital ROLLER 10 basic ROLLER 10 digital		
Rotating Platform revolves at a tilted angle						
3	Adjustable from horizontal to vertical	2 kg	20 rpm (fixed)	Loopster basic		
Platform revolves at a tilted angle  Ideal for keeping biological samples in suspension and for general mixing		2 kg 	20 rpm (fixed) 0 – 80 rpm			
Platform revolves at a tilted angle  Ideal for keeping biological samples	horizontal to vertical  Adjustable from			Loopster digital		







ROLLER 6 digital



Loopster digital



Trayster digital

## Shaker attachments and their vessel capacities

### /// Recommendations for various vessel sizes

IKA shaker	Attachment combination	25 ml	50 ml	100 ml	200 ml	250 ml	500 ml	1000 ml	2000 ml	3000 ml	5000 ml
ERLENMEYER FLASI	<s< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></s<>										
	STICKMAX	25	16	9	-	5	4	2	1	1	-
KS 130 basic	AS 130.1 Universal attachment	15	12	6	-	2	2	1	1	1	-
KS 130 digital	required clamping rolls for AS 130.1	4	4	3	-	2	2	2	2	2	-
	AS 130.2 Fixing clip attachment	12	12	9	-	4	4	-	-	ml 1 1	-
KS 260 basic	STICKMAX	44	36	25	-	9	9	4	2	2	1
KS 260 digital	AS 260.1 Universal attachment	28	24	15	-	6	6	2	1	1	1
HS 260 basic	required clamping rolls for AS 260.1	5	5	4	-	3	3	2	2	2	2
HS 260 control	AS 260.2 Fixing clip attachment	31	28	17	-	10	9	5	4	-	-
	STICKMAX	100	64	36	-	25	16	9	4	4	2
S 501 digital	AS 501.1 Universal attachment	70	48	30	-	20	12	9	4	4	1
HS 501 digital	required clamping rolls for AS 501.1	7	6	5	-	4	3	6	3	3	2
	AS 501.4 Fixing clip support	55	50	30	_	12	11	8	5	-	-
	STICKMAX	44	36	25	_	9	9	4	2	_	_
KS 3000 i control	AS 260.1 Universal attachment	28	24	15	-	6	6	2	-	_	_
S 3000 ic control	required clamping rolls for AS 260.1	5	5	4		3	3	2			
	AS 260.2 Fixing clip attachment	31	28	17		10	9	5			
	STICKMAX	81	49	36	_	16	9	9	4		
	AS 4000.1 Universal attachment	54	35	24	_	12	9	6	4		
(S 4000 i control (S 4000 ic control	required clamping rolls for AS 4000.1	7	6	5		4	4	3	3		
13 1000 10 00111101	AS 4000.2 Fixing clip attachment	55	52	25		16		7	4		
							11				
NC 125 FS digital	STICKMAX	111	66	36	20	20	12	8	6	-	
INC 125 F3 digital	required fixing clips for IO SP 20 / IO SP 25 Shaker platform	39	39	24	12	12	12	6	2	-	-
VOLUMETRIC FLASI	<s< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></s<>										
	STICKMAX	25	16	9	6	6	4	2	**	-	-
KS 130 basic	AS 130.1 Universal attachment	20	12	6	6	2	2	-	-	-	-
KS 130 dasic	required clamping rolls for AS 130.1	5	4	3	3	2	2	-		-	
, and the second	AS 130.2 Fixing clip attachment	18	9	8	4	4	4				
	STICKMAX	49	36	25	16	9	9	4	**	_	
KS 260 basic	AS 260.1 Universal attachment	32	24	15	8	8	6	2	**		
KS 260 digital HS 260 basic	required clamping rolls for AS 260.1	5	5	4	3	3	4	2	**		
HS 260 control		30	30	23	9	9	9	5	4		
	AS 260.2 Fixing clip attachment STICKMAX	100	64	36	25	16	9	9	**		
	AS 501.1 Universal attachment + 10	100	04		23	10		9			
KS 501 digital	AS 1.11 Clamping roll + 20 AS 1.6 Clamping device	70	48	30	20	20	12	9	**	-	-
HS 501 digital	required clamping rolls for AS 501.1	7	6	5	4	4	3	3	**	-	-
	AS 501.2 Separating funnel attachment	55	54	35	19	19	11	8	5	-	-
	STICKMAX	49	36	25	16	9	6	-	_	_	_
(S 3000 i control	AS 260.1 Universal attachment	32	24	15	8	8	6	-	-	_	
KS 3000 ic control	required clamping rolls for AS 260.1	5	5	4	3	3	4		_	_	_
	AS 260.2 Fixing clip attachment	30	30	23	9	9	5		-	-	
	STICKMAX	100	64	36	25	25	16	6		_	
VC 4000 :										•	
CS 4000 i control CS 4000 ic control	AS 4000.1 Universal attachment	60	40	24	20	15	12	6	-	-	-
S -FOOD IC COITEON	required clamping rolls for AS 4000.1	7	6	5	5	5	6	4	-	-	-
	AS 4000.2 Fixing clip attachment	55	55	32	21	21	12	5		-	-

Subject to technical changes

\* Limited recommendation! \*\* Not recommended! \*\*\* 4 = only up; 10 = up + down











AS 501.4 AS 4000.2

IO SP 20 / IO SP 25

## Shaker attachments and their vessel capacities

/// Recommendations for various vessel sizes

IKA shaker	Attachment combination	25 ml	50 ml	100 ml	150 ml	250 ml	400 ml	600 ml	800 ml	1000 ml	2000 ml	3000 ml	5000 ml	10 000 ml
BEAKERS (HIGH FO	DRM)													
	STICKMAX	36	16	9	9	9	5	4	4	4	1	1	-	-
	AS 130.1 Universal attachment	18	15	8	6	6	4	2	2	2	1	1	-	-
K3 130 digital	required clamping rolls for AS 130.1	4	4	3	3	3	3	2	2	2	2	2	-	-
KS 260 basic	STICKMAX	81	49	25	25	16	16	9	9	9	4	4	-	-
	AS 260.1 Universal attachment	45	28	18	15	15	8	6	6	6	2	2	-	-
	required clamping rolls for AS 260.1	6	5	4	4	4	3	3	3	3	2	2	-	-
	STICKMAX	121	81	49	36	36	25	16	16	9	9	4	-	-
	AS 501.1 Universal attachment	96	63	42	36	30	25	16	12	12	9	4	-	-
ns so i digital	required clamping rolls for AS 501.1	8	7	6	5	5	4	4	3	3	3	2	-	-
	STICKMAX	81	49	25	25	25	16	9	9	9	4	-	-	-
KS 3000 i control	AS 260.1 Universal attachment	45	28	18	15	15	8	6	6	6	2	-	-	-
K2 2000 IC COULTOI	required clamping rolls for AS 260.1	6	5	4	4	3	3	3	3	3	2	-	-	-
	STICKMAX	121	81	49	36	36	25	16	16	9	9	4	_	-
KS 4000 i control	AS 4000.1 Universal attachment	84	48	35	24	20	20	12	12	12	6	4	-	-
KS 4000 IC CONTROL	required clamping rolls for AS 4000.1	8	7	6	5	5	5	4	4	4	3	3	-	-
BEAKERS (LOW FO	PRM)													
	STICKMAX	25	16	9	9	5	4	4	4	4	1	1*	1*	**
	AS 130.1 Universal attachment	15	8	8	6	3	2	2	2	2	1	1*	-	-
BEAKERS (LOW FC  KS 130 basic KS 130 digital  KS 260 basic	required clamping rolls for AS 130.1	4	3	3	3	3	2	2	2	2	2	2	-	-
KS 260 basic	STICKMAX	64	49	25	25	16	9	9	5	5	4	2	1	1*
KS 260 digital	AS 260.1 Universal attachment	32	24	15	12	8	6	6	6	4	2	2	1	1*
BEAKERS (HIGH FO  KS 130 basic KS 130 digital  KS 260 basic KS 260 digital HS 260 basic HS 260 control  KS 501 digital HS 501 digital  KS 3000 i control  KS 4000 i control	required clamping rolls for AS 260.1	5	5	4	4	3	3	3	3	3	2	2	2	2
	STICKMAX	100	64	49	36	25	16	16	9	9	9	4	4	1
	AS 501.1 Universal attachment	70	48	42	30	20	16	12	12	9	6	4	1	1
113 301 digital	required clamping rolls for AS 501.1	7	6	6	5	4	4	3	3	3	2	2	2	2
	STICKMAX	64	49	25	25	16	9	9	5	5	4		-	-
	AS 260.1 Universal attachment	32	24	15	12	8	6	6	4	4	2	2	-	-
אס אסטט וכ כטווווטו	required clamping rolls for AS 260.1	5	5	4	4	3	3	3	3	4	2	1	-	-
	STICKMAX	100	64	49	36	25	16	16	10	10	9	4	2	-
	AS 4000.1 Universal attachment	66	40	35	20	20	12	12	9	6	4	4	2	-
KS 4000 ic control	required clamping rolls for AS 4000.1	7	6	6	5	5	4	4	4	3	3	3	2	_

Subject to technical changes

\* Limited recommendation! \*\* Not recommended! + recommended!









AS 130.1 AS 260.1

AS 501.1

AS 4000.1