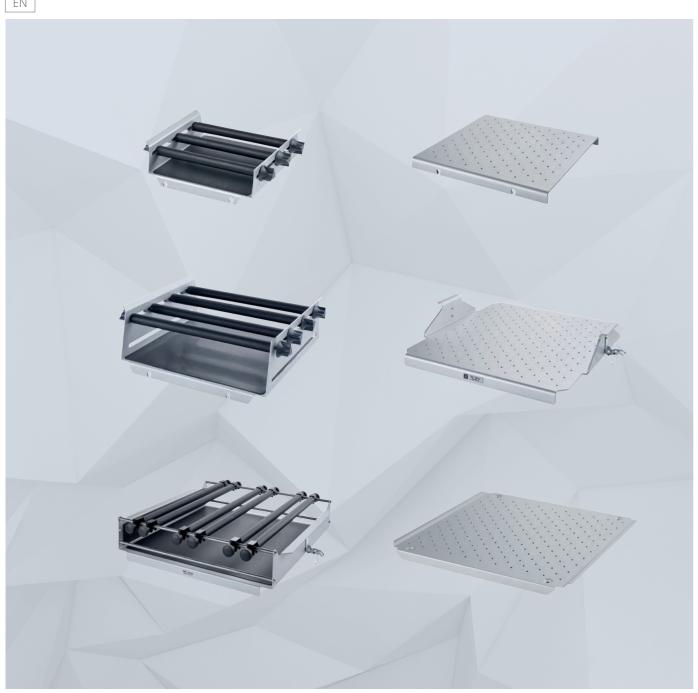


designed for scientists

EN

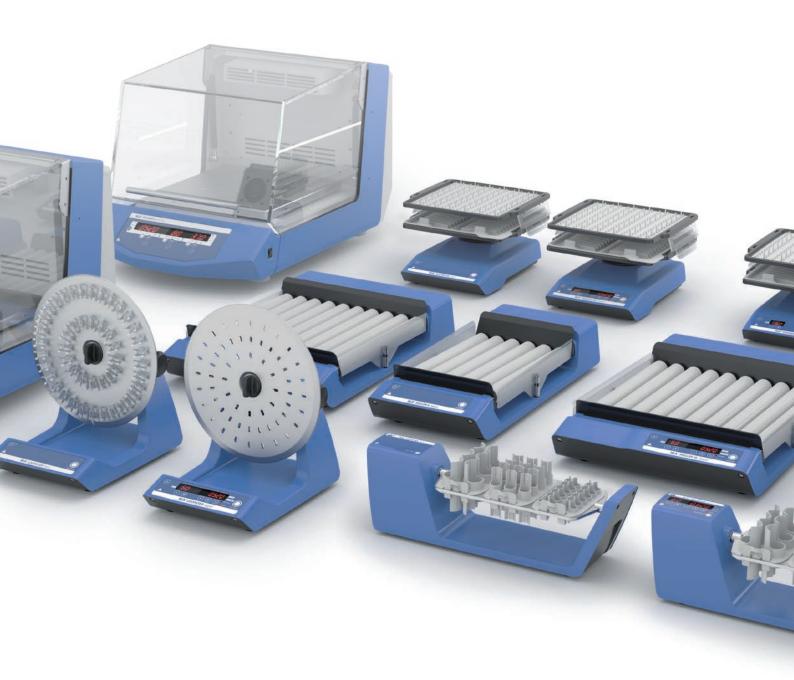


SELECTION GUIDE HOW TO FIND THE RIGHT SHAKER AND ATTACHMENTS

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
Application	ularrietei	Sliakilig Weight	speed range	INA device



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	4 mm 0,4 kg 500 – 2500 rpm		VORTEX 2
Suitable for mixing in test tubes, micro-	4 mm	0,4 kg	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



Orbita

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 plates, bottles, flasks and beakers. A wide range of attachment combinations allows for using almost all shapes and sizes of vessels	4 mm	2 kg	80 – 800 rpm	KS 130 basic control
	10 mm	7,5 kg	50 – 500 rpm	KS 260 basic
	10 mm	7,5 kg	10 – 500 rpm	KS 260 control
	30 mm	15 kg	0 – 300 rpm	KS 501 digital







lab dancer



VORTEX 3



KS 3000 i control

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. J.	30 mm	15 kg	0 – 300 rpm	HS 501 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	HS 260 basic HS 260 control	
culture flasks, Petri dishes and tubes	0 – 15° (angle)	2 kg	5 – 80 rpm		
The platform moves in a three-dimensio	nal motion 8° (angle)	2 kg	30 rpm (fixed)	ROCKER 3D basic	
Ideal for low foaming agitation, DNA	8° (angle)	2 kg	30 rpm (fixed)	ROCKER 3D basic	
extractions, staining and de-staining 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				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	
aeration is required	24,5 mm (high)	2 kg	30 rpm (fixed)	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	
	24,5 mm (high) 24,5 mm (high)	2 kg 2 kg	30 rpm (fixed) 0 – 80 rpm		
	, , , , , , , , , , , , , , , , , , , ,				
aeration is required Rotating	, , , , , , , , , , , , , , , , , , , ,			ROLLER 10 digital	
Rotating Platform revolves at a tilted angle Ideal for keeping biological samples in suspension and for general mixing	24,5 mm (high) Adjustable from	2 kg	0 – 80 rpm	ROLLER 10 digital	
Rotating Platform revolves at a tilted angle Ideal for keeping biological samples	24,5 mm (high) Adjustable from horizontal to vertical Adjustable from	2 kg	0 – 80 rpm 20 rpm (fixed)	ROLLER 10 digital Loopster basic	







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 FLASK	SS										
	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	-	-	-	-
KS 260 basic	STICKMAX	44	36	25	-	9	9	4	2	2	1
KS 260 dasic 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
KS 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	_	
KE 2000 :	AS 260.1 Universal attachment	28	24	15		6	6	2	-		
KS 3000 i control KS 3000 ic control		5	5	4		3	3	2			
113 3000 10 00111101	required clamping rolls for AS 260.1										
	AS 260.2 Fixing clip attachment	31	28	17	-	10	9	5	-	-	-
	STICKMAX	81	49	36	-	16	9	9	4	2	-
KS 4000 i control KS 4000 ic control	AS 4000.1 Universal attachment	54	35	24	-	12	9	6	4	2	-
K3 4000 IC COITHOI	required clamping rolls for AS 4000.1	7	6	5	-	4	4	3	3	2	-
	AS 4000.2 Fixing clip attachment	55	52	25	-	16	11	7	4	-	-
VOLUMETRIC FLASK	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 digital	required clamping rolls for AS 130.1	5	4	3	3	2	2	-	-	-	-
	AS 130.2 Fixing clip attachment	18	9	8	4	4	4	-	-	-	-
VC 250 L :	STICKMAX	49	36	25	16	9	9	4	**	-	-
KS 260 basic KS 260 digital	AS 260.1 Universal attachment	32	24	15	8	8	6	2	**	-	-
HS 260 basic	required clamping rolls for AS 260.1	5	5	4	3	3	4	2	**	-	-
HS 260 control	AS 260.2 Fixing clip attachment	30	30	23	9	9	9	5	4	-	-
	STICKMAX	100	64	36	25	16	9	9	**	-	-
	AS 501.1 Universal attachment + 10		***************************************		***************************************		***************************************		***************************************	**************************************	***************************************
	AS 1.11 Clamping roll + 20 AS 1.6	70	48	30	20	20	12	9	**	-	_
KS 501 digital HS 501 digital	Clamping device										
113 301 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	-	-	_	
KS 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		_	
VS 4000 i	AS 4000.1 Universal attachment	60	40	24	20	15	12	6		_	
KS 4000 i control KS 4000 ic control	required clamping rolls for AS 4000.1	7	6	5	5	5	6	4		•	-
		/	()	.)			()	4	-	-	_

Subject to technical changes

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









AS 260.2

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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)													
WC 420 L . :	STICKMAX	36	16	9	9	9	5	4	4	4	1	1	-	-
KS 130 basic KS 130 digital	AS 130.1 Universal attachment	18	15	8	6	6	4	2	2	2	1	1	-	-
	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	-	-
KS 260 digital	AS 260.1 Universal attachment	45	28	18	15	15	8	6	6	6	2	2	-	-
HS 260 basic HS 260 control	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	-	-
KS 501 digital HS 501 digital	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 KS 3000 ic control	AS 260.1 Universal attachment	45	28	18	15	15	8	6	6	6	2	-	-	-
K3 3000 IC COILLIOI	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 KS 4000 ic control	AS 4000.1 Universal attachment	84	48	35	24	20	20	12	12	12	6	4	_	-
K3 4000 IC COILLIOI	required clamping rolls for AS 4000.1	8	7	6	5	5	5	4	4	4	3	3	-	-
BEAKERS (LOW FO														
KS 130 basic	STICKMAX	25	16	9	9	5	4	4	4	4	1	1*	1*	**
KS 130 digital	AS 130.1 Universal attachment	15	8	8	6	3	2	2	2	2	1	1*	_	-
	required clamping rolls for AS 130.1	4	3	3	3	3	2	2	2	2	2	2	-	-
							9	9	5	5	4	2	1	
KS 260 basic	STICKMAX	64	49	25	25	16								1*
KS 260 digital	AS 260.1 Universal attachment	64 32	49 24	25 15	12	16 8	6	6	6	4	2	2	1	1* 1*
								6	3	3	2	2		
KS 260 digital HS 260 basic HS 260 control	AS 260.1 Universal attachment	32	24	15	12	8	6				***************************************		1	1*
KS 260 digital HS 260 basic HS 260 control	AS 260.1 Universal attachment required clamping rolls for AS 260.1	32	24	15 4	12	8	6	3	3	3	2	2	1 2	1*
KS 260 digital HS 260 basic HS 260 control	AS 260.1 Universal attachment required clamping rolls for AS 260.1 STICKMAX	32 5 100	5 64	15 4 49	12 4 36	8 3 25	6 3	3	3	3	2	2	2	1* 2
KS 260 digital HS 260 basic HS 260 control KS 501 digital HS 501 digital	AS 260.1 Universal attachment required clamping rolls for AS 260.1 STICKMAX AS 501.1 Universal attachment	32 5 100 70	5 64 48	15 4 49 42	12 4 36 30	8 3 25 20	6 3 16 16	3 16 12	9 12	3 9 9	9 6	2 4 4	2 4 1	1* 2 1
KS 260 digital HS 260 basic HS 260 control KS 501 digital HS 501 digital	AS 260.1 Universal attachment required clamping rolls for AS 260.1 STICKMAX AS 501.1 Universal attachment required clamping rolls for AS 501.1	32 5 100 70 7	5 64 48 6	15 4 49 42 6	12 4 36 30 5	8 3 25 20 4	6 3 16 16 4	3 16 12 3	3 9 12 3	3 9 9	2 9 6 2	2 4 4	2 4 1 2	1* 2 1 1 2
KS 260 digital HS 260 basic HS 260 control KS 501 digital HS 501 digital	AS 260.1 Universal attachment required clamping rolls for AS 260.1 STICKMAX AS 501.1 Universal attachment required clamping rolls for AS 501.1 STICKMAX	32 5 100 70 7 64	24 5 64 48 6 49	15 4 49 42 6 25	12 4 36 30 5	8 3 25 20 4 16	6 3 16 16 4	3 16 12 3	3 9 12 3 5	3 9 9 3 5	2 9 6 2 4	2 4 4 2	1 2 4 1 2 2	1* 2 1 1 2 -
KS 260 digital HS 260 basic HS 260 control KS 501 digital HS 501 digital KS 3000 i control KS 3000 ic control	AS 260.1 Universal attachment required clamping rolls for AS 260.1 STICKMAX AS 501.1 Universal attachment required clamping rolls for AS 501.1 STICKMAX AS 260.1 Universal attachment	32 5 100 70 7 64 32	24 5 64 48 6 49 24	15 4 49 42 6 25 15	12 4 36 30 5 25 12	8 3 25 20 4 16 8	6 3 16 16 4 9	3 16 12 3 9 6	3 9 12 3 5 4	3 9 9 3 5 4	2 9 6 2 4	2 4 4 2	1 2 4 1 2	1* 2 1 1 2
KS 260 digital HS 260 basic HS 260 control KS 501 digital HS 501 digital	AS 260.1 Universal attachment required clamping rolls for AS 260.1 STICKMAX AS 501.1 Universal attachment required clamping rolls for AS 501.1 STICKMAX AS 260.1 Universal attachment required clamping rolls for AS 260.1	32 5 100 70 7 64 32 5	5 64 48 6 49 24 5	15 4 49 42 6 25 15 4	12 4 36 30 5 25 12 4	8 3 25 20 4 16 8 3	6 3 16 16 4 9 6	3 16 12 3 9 6	3 9 12 3 5 4	3 9 9 3 5 4	2 9 6 2 4 2	2 4 4 2 2 1	1 2 4 1 2 2	1* 2 1 1 2

Subject to technical changes

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









AS 130.1 AS 260.1

AS 501.1

AS 4000.1