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IP Protection classes

IP	Characteristic 1 for special protection	IP	Characteristic 2 for waterproofing
0	No special protection	0	No waterproofing
1	Protection from solid objects greater than 50mm in diameter	1	Protection from dripping water
2	Protection from object greater than 12mm in diameter	2	Protection from vertically dripping water (tilted up to 15°)
3	Protection from object greater than 2.5mm in diameter	3	Protection from sprayed water (tilted up to 60°)
4	Protection from object greater than 1mm in diameter	4	Protection from splashed water
5	Complete protection against contact, Protection against dust deposit	5	Protection from water projected from a nozzle
6	Complete protection against contact, Protection from infiltration of dust	6	Protection against heavy seas or powerful jets of water.
		7	Protection against immersion
		8	Protection against complete, continuous submersion in water.
		9	Protection against the ingress of water from all directions even under greatly high pressure on the housing. (High-pressure/steam cleaner, 80-100 bar)

IP 64

IP 64 { 6: Complete protection against contact, Protection from infiltration of dust
4: Protection from splashed water

1



1 LLG magnetic stirrer uniStirrer 2

NEW!

A reasonably priced magnetic stirrer without heating for volumes up to 1000ml. Adjustable speed from 0 to 2000rpm. Plate diameter 120mm. Body made of ABS. 3 years warranty.

Support rod, aluminium (Cat. No. 6.263 435) available as an optional accessory.

Specifications

Stirring quantity (H ₂ O):	1000ml
Speed range:	0 to 2000rpm
Permissible ambient temperature:	0 to 50°C
Permissible relative moisture:	85%
Material:	ABS case
Dimensions (WxDxH):	150 x 135 x 53mm
Weight:	0.5kg
Power supply:	100 - 230V, 50/60Hz
Protection class:	IP 21
Guarantee:	3 years

Type	PK	Cat. No.
uniSTIRRER 2 with EU-plug	1	6.263 430
uniSTIRRER 2 with UK-plug	1	6.263 431
Support rod, 25 cm, aluminum	1	6.263 435

2



2 Magnetic stirrer HI190

Hanna

Compact and lightweight stirrer.
- Speed is regulated by simply turning a button
- ABS plastic covered top plate
- Splashproof

Specifications

Max. stirring capacity (H ₂ O):	1000ml
Speed:	100rpm to 1000rpm
Dimensions (WxDxH):	120mm x 120mm x 45mm
Protection category:	IP 54
Permissible ambient temperature:	0°C to +50°C
Permissible relative humidity:	95%
Material:	ABS
Power supply:	230V

Type	PK	Cat. No.
HI 190M-2	1	9.720 085

1 Magnetic stirrer HI180 1

Without heating. Economical and lightweight stirrer.
 - Available in different colours
 - Splashproof

Hanna



Speedsafe system ensures that maximum speed will never be exceeded.

Specifications

Max. stirring capacity (H ₂ O):	1000ml
Speed:	100rpm to 1000rpm
Dimensions (dia. x H):	137 x 51mm
Protection category:	IP 54
Permissible ambient temperature:	0°C to +50°C
Permissible relative humidity:	95%
Material:	ABS
Power supply:	220V

Type	Colour	PK	Cat. No.
HI 180A-2	light yellow	1	9.720 090
HI 180B-2	light green	1	9.720 091
HI 180C-2	light blue	1	9.720 092
HI 180D-2	yellow	1	9.720 093
HI 180E-2	green	1	9.720 094
HI 180F-2	dark blue	1	9.720 095
HI 180G-2	red	1	9.720 096
HI 180H-2	grey	1	9.720 097
HI 180I-2	ivory	1	9.720 098

Magnetic stirrer UC151 2

Without heating. Glass ceramic top plate 150 x 150mm. Electronic variable speed control with off position.

Stuart



9.645 297

Specifications

Max. stirring capacity (H ₂ O):	15l
Speed:	100 to 2000rpm
Dimensions (WxDxH):	172 x 248 x 109mm
Protection category:	IP 32
Permissible ambient temperature:	+5 to +40°C
Permissible relative humidity:	≤ 80%
Plate material:	glass ceramic
Power supply:	230 V, 50 Hz

Type	PK	Cat. No.
UC151	1	9.645 297 2

3 Magnetic stirrer MIXdrive 1 XL (NEW!) 2mag

Ultra flat, compact and strong magnetic stirrer with fully automatic stirring bar monitoring mixWATCH, up to 40 litres stirring volume, also suitable for highly viscous media, very strong magnetic coupling, therefore predestined for magnetic power transmission over wide distances or for thick vessel bottoms.

Maintenance-free 2mag-motor-drive with large speed range from 60 up to 2000 rpm, temperature resistant up to +150°C, designed for use in ovens, extremely robust construction and performance, easy to clean and firm.



Control unit MIXcontrol XL

Powerful control unit for MIXdrive 1 XL, wide speed range 60 to 2000 rpm, jerk-free, even and smooth stirring even at slow speeds, incl. mixWATCH, stirring bar monitoring with fully automatic trim of the maximum reachable speed, for reliable and unattended operation, digital display, 4-step power setting, high power setting for viscous liquids and reduced power setting for long-term operation without warming effect, adjustable SoftStart for different volumes/viscosities, adjustable interval times for automated restart, QuickStop against after-run and glass breakage, RS232.

3 years warranty, Made in Germany.

Please order control unit separately.

Specifications

Ambient temperature:	+5 to +150°C (at 95% humidity)
Housing:	stainless steel, hermetically sealed
Protection class:	IP66

Type	Rotation speed	Stirring capacity	Dimensions (W x D x H)	Power	Weight	PK	Cat. No.
	rpm	ml	mm	W	kg		
MIXdrive 1 XL	-	1000 - 40000	225 x 225 x 38	20	3.4	1	9.646 028
MIXcontrol XL	60 - 2000	-	200 x 155 x 48	20	1.8	1	9.646 029

Magnetic stirrers / Hotplates/Without heating, with motor



1 Magnetic stirrer MIX 1XL

Wear-free 2mag motor drive, powerful, up to 40liters, 60-2000rpm, internal controller with 20 watts, incl. mixWATCH stirring bar monitoring with fully automatic trim of the max. Reachable speed for reliable and unattended operation, digital display, 4-step power setting for high power with regard to large and viscous media and reduced power for warming-free continuous operation, adjustable SoftStart for different volumes/viscosity, QuickStop against after-run and breakage, reliable sealed stainless-steel housing, 3 years warranty. Made in Germany. 2mag

Specifications

Operating conditions: -10°C to +50°C at 80% R.H. max.
 Housing: Stainless steel
 Protection category: IP 64

Type	Rotation speed	Stirring capacity	Dimensions (W x D x H)	Power	Weight	PK	Cat. No.
	rpm	ml	mm	W	kg		
MIX 1 XL	60 - 2000	500 - 40000	225 x 280 x 35	20 (4-steps)	4.0	1	6.236 109



2 Magnetic stirrer steriMIXdrive with external control

Pressure, steam, vacuum and temperature resistant. 2mag
 Maintenance-free 2mag-motor-drive with large speed range from 60rpm up to 1200rpm, fully encapsulated, pressure and vacuum resistant housing, IP68, temperature resistant up to +150°C, extremely robust construction and performance, easy to clean and firm. 3 years warranty. Made in Germany.

Specifications

Operating conditions: -10 to +150°C at 100% R.H. max.
 Housing: PPSU, hermetically sealed
 Protection category: **IP 68/IP 20 (control)**

Type	Rotation speed	Stirring capacity	Dimensions (W x D x H)	Rating	Weight	PK	Cat. No.
	rpm	l	mm	W	kg		
steriMIXdrive	-	1 - 40	140 x 140 x 32	20	9.0	1	9.646 035
steriMIXcontrol*	60 - 1200	-	200 x 175 x 48	20	1.8	1	9.646 036

* Control unit.



9.645 990

Magnetic stirrer FABdrive/MAXdrive with external control

Stirring Systems for Viscous Liquids or Volumes up to 1000 liters. 2mag

Outstanding powerful magnetic stirrer, up to 1000 liters, for stirring over larger distances or heavy-walled reservoir bases and for jacked reaction vessels, extremely powerful magnetic coupling, maintenance-free 2mag-motor-drive, speed range 80-990 rpm, adjustable SoftStart for different volumes/viscosities, QuickStop against motor overrun and glass breakage, closed stainless steel housing, sealed, IP64, robust and reliable construction, easy to clean, separate control unit with digital display, display of set speed and actual speed, 3 years warranty, made in Germany.

MAXdrive:

Identical to FABdrive, but for 250 liters, speed range 100-1200 rpm, housing with large surface, load up to 300 kg, separate control unit identical to FABcontrol, but with display of set speed.

Please order control unit separately!



9.645 976

Specifications

Operating conditions: -10 to +50°C at 95% R.H. max.
 Casing: Stainless steel
 Protection category: IP 64

Type	Rotation speed	Stirring capacity	Dimensions (W x D x H)	Power	Weight	PK	Cat. No.
	rpm	l	mm	W	kg		
FABdrive	-	1 - 1000	180 x 180 x 75	100	9.0	1	9.645 990
FABcontrol*	80 - 990	-	200 x 175 x 48	100	2.0	1	9.645 991
MAXdrive	-	1 - 250	260 x 260 x 68	40	9.0	1	9.645 976
MAXcontrol*	100 - 1200	-	200 x 175 x 48	40	2.0	1	9.645 977

* Control unit

4. Stirring, Shaking, Mixing

Magnetic stirrers / Hotplates/Without heating, with motor

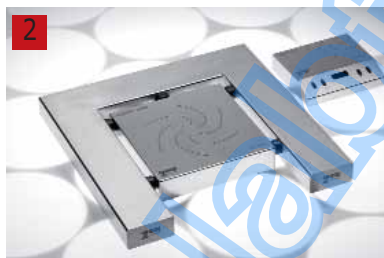
1 Magnetic stirrer maxMIX 2mag

Maintenance-free 2mag motor drive. Without heating. For universal stirring applications in science and industry up to 150L. Suitable for use with heavy-walled reservoir bases, round bottom flasks and jacketed reaction vessels. Can also stir over larger distances (max. 60mm). With long range, extremely powerful magnetic field, which produces dual torque when starting up. Offers optimal operation safety by consistent speed regulation and 3 second quick-stop without motor overrun. Adjustable SoftStart, digital speed display. Can be cleaned under running water. Supplied with mains adapter for 230V 50/60 Hz. 3 years warranty. Made in Germany.

Specifications

Speed accuracy: ±0.25%
 Digital display: Adjustable SoftStart (10 sec. to 60 sec.)
 Operating conditions: -10°C to +50°C at 80% R.H. max.
 Housing: Stainless steel
 Protection category: IP 64

Type	Rotation speed	Stirring capacity	Dimensions (W x D x H)	Power	Weight	PK	Cat. No.
	rpm	ml	mm	W	kg		
maxMIX	100 to 1200	1 to 150000	265 x 320 x 68	40	9.3	1	9.645 975



9.646 056

9.646 045

Accessories for 2mag magnetic stirring systems (NEW!) 2mag

Description	PK	Cat. No.
Enlargement frame maxFRAME for MIX/MAXdrive, footprint 500 x 500mm, loading capacity 1000kg	1	9.646 056 2
Mobile stand mixCADDY for FABdrive, for vessels up to diam. 570mm, loading capacity 250kg	1	9.646 045 3
Extension cable for MIXdrive, 3m	1	9.646 041
Extension cable for bioMIXdrive, 3m	1	9.646 042
Extension cable for MAXdrive/FABdrive, 3m	1	9.646 043

4 Magnetic stirrer for cell cultures with external control, bioMIXdrive 1/2/3/4 2mag

Maintenance free motor drive. Magnetic stirrer with 1/2/3/4 stirring positions, for careful, protective and warming-free mixing of cell cultures and culture broths, also for viscous cultures, maintenance-free, large surface. 100% jerk-free, speed range 5rpm to 250rpm, encapsulated stainless steel housing, water-, dust-, germproof, IP68, submersible, easy to clean, robust construction, flat design, suitable for propeller and spinning ball culture flasks, individual measurement on request. 3 years warranty. Made in Germany. Suitable for underwater use.



Specifications

Permitted operation conditions: -10°C up to +50°C at 100% H.R. max.
 +50°C submerged in water
 Housing: Stainless steel
 Protection class: IP 68

Type	Rotation speed	Stirring positions	Stirring centre distances	Stirring capacity	Dimensions (W x D x H)	Power	Weight	PK	Cat. No.
	rpm		mm	ml	mm	W	kg		
bioMIXdrive 1	5 to 250	1		5 to 5000	180 x 180 x 38	5	2.5	1	9.645 950
bioMIXdrive 2	5 to 250	2	140	5 to 5000	130 x 270 x 38	5	2.5	1	9.645 978
bioMIXdrive 3	5 to 250	3	140	5 to 5000	130 x 410 x 38	5	3.5	1	9.645 979
bioMIXdrive 4	5 to 250	4	140	5 to 5000	270 x 270 x 38	5	4.7	1	9.645 980



9.645 981



9.645 982

Control units for stirring drives bioMIXdrive

bioMIXcontrol

2mag

Control unit for 1x bioMIXdrive 1/2/3/4, speed range 5rpm to 250rpm, power setting (10 steps) for high power with regard to large and viscous media and reduced power for warming-free continuous operation e.g. in CO₂ incubators, digital display, SoftStart, stainless steel housing. 3 years warranty. Made in Germany.

bioMIXcontrol S

Identical to bioMIXcontrol, but with stackable housing and vertical control panel.

bioMIXcontrol MS4

Identical to bioMIXcontrol, but for 4x bioMIXdrive 1, individual and independent speed setting for each stirring drive, also ON-/OFF-function, synchronous speed mode for all drives with one touch.

Specifications

Operation conditions:	0 to +50°C at 80% H.R. max.
Operating voltage:	100-240V 50/60Hz, 1.5A
Housing:	Stainless steel
Protection category:	IP 20

Type	Rotation speed rpm	Dimensions (W x D x H) mm	Power W	Weight	PK	Cat. No.
				kg		
bioMIXcontrol	5 to 200	200 x 155 x 38	4-40 (10-steps)	1.4	1	9.645 951
bioMIXcontrol S	5 to 200	215 x 120 x 50	4-40 (10-steps)	1.4	1	9.645 981
bioMIXcontrol 4MS*	5 to 200	200 x 155 x 38	6	2.5	1	9.645 982

* only for bioMIXdrive 1



Magnetic mini-stirrers topolino

Without heating. Extremely convenient magnetic mini-stirrer for mixing volumes up to 250ml.

IKA

- Durable, brushless motor
- Infinitely variable speed range
- Strong magnetic coupling

Specifications

Stirring quantity max. (H ₂ O):	250ml
Speed range:	300rpm to 1800rpm
Dimensions (W x H x D):	95mm x 37mm x 115mm
Protection category:	IP 21
Permissible ambient temperature:	5°C to 40°C
Permissible relative humidity:	80%
Material:	PP
Power supply:	100 - 240 V

Type	Dimensions mm	PK	Cat. No.
topolino	95 x 37 x 115	1	9.720 220

Optional accessories: Ikaflon®- stirring bars, Trika®- stirring bars, RSE Stirring bar retriever



Magnetic stirrer color squid

Without heating. Small magnetic stirrers with digital speed display (LED).

IKA

- Electronically controlled motor for more capacity
- Higher range of speeds from 0rpm to 2500rpm
- Excellent chemical resistance due to glass top and plastic base in TPC-ET
- Manufactured in recyclable materials
- Power supply with adapter for EU/CH/UK/USA

Specifications

Stirring volume (H ₂ O):	1L
Speed display:	digital (LED)
Speed range:	0rpm to 2500rpm
Top plate dimensions:	115mm diameter
Dimensions (WxDxH):	145mm x 160mm x 45mm
Permissible ambient temperature:	5°C to 40°C
Permissible relative humidity:	80%
Protection class acc. to DIN EN 60529:	IP54
Supply requirements:	100V - 240V 50/60Hz
Tested to DIN EN IEC 61010-1.	

Type	PK	Cat. No.
color squid white	1	9.720 365

Optional accessories: Ikaflon®- stirring bars, Trika®- stirring bars, RSE Stirring bar retriever

Further models available on request.

#lookattheblue

All from one source for your lab



Tube Mill control

Crushing



Mixing



Heating/Tempering



Separation



RET® control-visc | white

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1



9.720 470

Magnetic stirrer big squid

Without heating. Small magnetic stirrers with digital speed display (LED).
 - Electronically controlled motor for more capacity
 - Higher speed range from 0rpm to 2500rpm
 - Excellent chemical resistance due to glass top and plastic base in TPC-ET
 - Manufactured in recyclable materials
 - Power supply with adapter for EU/CH/UK/USA

IKA

Specifications

Magnetic drive

Stirring volume max. (H₂O):

1.5L

Speed display:

digital (LED)

Speed range:

0rpm to 2500rpm

Top plate

Material:

glass

Dimensions:

160mm diameter

General data

Dimensions (WxDxH):

185 x 205 x 45mm

Ambient operating temperature:

5°C to 40°C

Ambient operating humidity:

80% R.H.

Protection class acc. to DIN EN 60529:

IP54

Supply requirements:

100-240V 50/60 Hz

Tested to DIN EN IEC 61010-1.

Type	PK	Cat. No.
big squid white	1	9.720 470 1

2



Magnetic stirrer Mini MR standard

Without heating.
 - For stirring quantities up to 1L (H₂O).
 - Infinitely variable speed from 0 to 2500rpm
 - White top plate suitable for observing colour reactions
 - Power supply with adapter for EU/CH/UK/USA

IKA

Specifications

Max. stirring volume, (H₂O):

1L

Speed range:

0 to 2500rpm

Top plate:

115mm x 115mm Polyester film

Size (WxDxH):

114mm x 127mm x 37mm

Protection to DIN EN 60529:

IP42

Supply requirements:

100-240V 50/60 Hz.

Tested to DIN EN IEC 61010-1.

Type	PK	Cat. No.
Mini MR standard	1	9.720 211

3



Magnetic stirrer, KMO2 basic

Without heating. Small but very powerful magnetic stirrer.
 - strong magnetic field resists stirrer bar decoupling
 - opto-electronic speed control motor
 - adjustable speed up to 1100rpm
 - stainless steel housing for easy cleaning and sterilization
 - with M10 thread for support rod H 16 V

IKA

Specifications

Max. volume stirred (H₂O):

5L

Motor rating input/output:

14/4W

Speed range (rpm):

0 to 1100rpm

Speed indication:

Scale

Surface:

140 x 120mm, stainless steel (AISI 304)

Dimensions (WxDxH):

140 x 200 x 75mm

Weight:

1.4kg

Housing IP rating to DIN EN 60529:

IP21

Supply requirements:

230V 50/60Hz

Tested to DIN EN IEC 61010-1.

Type	PK	Cat. No.
KMO 2 basic	1	9.720 210
KMO 2 basic UK	1	4.007 982

4. Stirring, Shaking, Mixing

Magnetic stirrers / Hotplates/Without heating, with motor

Magnetic stirrers C-MAG MS 4/C-MAG MS 7/C-MAG MS 10

Without heating. With glass ceramic top plate which offers excellent chemical resistance.
 - powerful motor for stirring quantities of up to 5l, 10l, or 15l (H₂O)
 - raised control panel for protection against leaking liquids

IKA

Specifications

Magnetic stirrer

Stirring volume max. (H₂O)
 C-Mag MS 4/MS 7/MS 10: 5l/10l/15l
 Motor rating input/output: 15/1.5W
 Speed range: 100 to 1500rpm
 Speed display: scale
 Max. magnetic bar (L x dia.)
 C-MAG MS 4: 30 x 8mm
 C-MAG MS 7/MS 10: 80 x 10mm

Set-up plate

Material: glass ceramic
 Dimensions (W x D)
 C-MAG MS 4: 100 x 100mm
 C-MAG MS 7: 180 x 180mm
 C-MAG MS 10: 260 x 260mm
 Dimensions (WxDxH)
 C-Mag MS 4: 150 x 260 x 105 mm
 C-Mag MS 7: 220 x 330 x 105 mm
 C-Mag MS 10: 300 x 415 x 105 mm
 Weight
 C-Mag MS 4/MS 7/MS 10: 3kg/5kg/6kg
 Protection class acc. to DIN EN 60529: IP 21
 Tested to DIN EN IEC 61010-1.

Type	PK	Cat. No.
C-MAG MS 4	1	9.720 493 1
C-MAG MS 7	1	9.720 494 2
C-MAG MS 10	1	9.720 495 3



9.720 493



9.720 494



9.720 495

4 Magnetic stirrers, Midi MR 1 digital

Without heating.
 - high power
 - flat stable stainless steel housing
 - non-locking motor
 - adjustable speed
 - LED digital speed display
 - 0 to 56 minute timer, or continuous operation

IKA

Specifications

Motor rating input/output: 70/19W
 Max. volume stirred (H₂O): 50L
 Speed range: 0 to 1000rpm
 Top plate: 350 x 350mm, Stainless steel (AISI 304)
 Dimensions WxDxH: 360 x 430 x 110mm
 Weight: 10.7kg
 Protection system to DIN EN 60529: IP21
 Supply requirements: 230V 50/60Hz
 Tested to DIN EN IEC 61010-1.



Type	PK	Cat. No.
Midi MR 1 digital	1	9.720 306

➔ Magnetic stirring bars and stirring bar retrievers please see from page 438 onwards.

4. Stirring, Shaking, Mixing

Magnetic stirrers / Hotplates/Without heating, with motor

Multi-position magnetic stirrers RO 5/10/15 series

Without heating. 5, 10 or 15-position digital magnetic stirrers, designed for synchronous stirring. The magnetic coil technology provides noiseless and consistent stirring on all positions. Speed remains constant, even when load changes. The closed and compact design allows easy cleaning and protects the equipment against the penetration of liquids. Additionally, a removable transparent anti-slip mat is included.

IKA

- Adjustable reverse operation
- Eco-mode for a low self-warming of the surface
- Wear free magnetic coils
- Error Code Display
- Easy operation with touch keypad
- Suitable for continuous operation
- Adjustable speed in increments of 10rpm

Specifications

Max. stirring quantity per stirring position (H ₂ O):	0.4l
Distance between stirring places:	90mm
Deviation for individual stirring positions:	0%
Speed range:	0 to 1200rpm
Speed display:	LED line
Set-up plate material:	stainless steel 1.4301
Protection class acc. to DIN EN 60529:	IP 40
Power supply:	100-240V, 50/60Hz

Type	Stirring positions	Dimensions (W x D x H) mm	PK	Cat. No.
RO 5	5	120 x 570 x 60	1	9.720 208
RO 10	10	190 x 570 x 60	1	9.720 222
RO 15	15	280 x 570 x 60	1	9.720 226



9.720 208



9.720 226



4. Stirring, Shaking, Mixing

Magnetic stirrers / Hotplates/Without heating, with induction

1 LLG magnetic stirrer uniSTIRRER 1 NEW!

An ultra-flat inductive magnetic stirrer without heating with timer for applications in biology and biochemistry. The modern magnet coil technology consists only of non-moving parts and therefore guarantees a wear-free drive. No heating of the probes. For a better mixing of samples it is possible to change the direction of rotation every 30 seconds. 3 years warranty.

- Timer (1min to 99min, infinitely)
- 100% wear- and maintenance-free inductive drive
- LED-display for an exact adjustment of the rotation speed
- Digital regulated rotation speed
- Alteration of the stirring direction
- High protection class IP 65
- Stainless steel surface

Delivery includes: magnetic stirrer, power cable, adapters for UK and US.

Specifications

Stirring quantity (H:O):	800ml
Speed range:	15 to 1500rpm
Permissible ambient temperature:	5 to 40°C
Magnetic bar:	max. 25mm
Display:	LED
Heating plate:	94mm diam./ Stainless steel
Dimensions (WxDxH):	110 x 155 x 12mm
Weight:	0.5kg
Power supply:	100 - 230V, 50/60Hz
Protection class:	IP 65
Guarantee:	3 years



Type	PK	Cat. No.
uniSTIRRER 1	1	6.263 420

2 Magnetic stirrers, lab disc

Without heating. Lab disc is an innovative, very flat, magnetic stirrer. It's modern, toroidal coil technology with no moving parts guarantees a maintenance-free drive. Lab disc can automatically change it's rotational direction every 30secs. and therefore enhances mixing of the medium.

IKA

- High IP protection class (IP 65)
- Set-up plate and casing made from chemically resistant materials
- Slip-proof, safe stand

Specifications

Max. volume stirred (H:O):	800ml
Motor rating input/output:	5W/3W
Speed range:	15rpm to 1500rpm
Stirring bar length max.:	25mm
Set-up plate material:	polyester
Set-up plate dimensions:	Ø 100mm
Dimensions (W x H x D):	117mm x 12mm x 180mm
Permissible ambient temperature:	5°C to 40°C
Permissible relative humidity:	80%
Protection category:	IP 65
Voltage/Frequency	100V - 240V/50/60Hz



Description	PK	Cat. No.
lab disc white EU/CH	1	9.720 480
lab disc white UK	1	4.008 137

Optional accessories: Ikaflon®- stirring bars, Trika®- stirring bars, RSE Stirring bar retriever

Magnetic stirring bars and stirring bar retrievers please see from page 438 onwards.

4. Stirring, Shaking, Mixing

Magnetic stirrers / Hotplates/Without heating, with induction



9.720 501

Magnetic stirrer, Cimarec i Mono Direct

With powerful magnets and no moving parts, these inductive-drive stirrers are the perfect choice for your general laboratory needs.

Thermo Scientific

- Large, flat, easy to clean work surfaces
- Compact, space saving design
- Initial acceleration is gradual and gentle, ensuring optimum magnetic coupling
- Adjustable power settings are separate from the speed control
- Decreases power consumption
- Lowers heat output
- Easy-to-use rotary knob design
- Rugged powder coated stainless steel housing

Specifications

Operating conditions:

-10 to +40°C at 95% R.H. max.

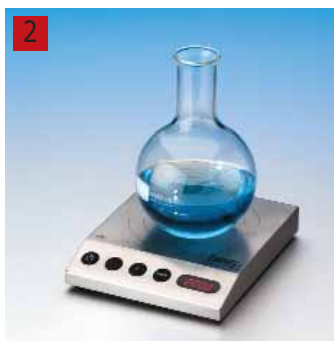
Housing:

Stainless steel

Colour:

Grey

Type	Rotation speed	Stirring capacity	Dimensions (W x D x H)	Power	Protection-level	PK Cat. No.
	rpm	ml	mm	W		
Mono Direct	130 - 1200	1 - 3000	180 x 215 x 35	1-5	32	1 9.720 501



9.720 618

Magnetic stirrer, Cimarec i Maxi Direct

With non-mechanical, electronic induction drive and dust/watertight, easy-clean stainless steel housing. Constant speed irrespective of load even if viscosity changes. With large footprint and a strong and more penetrating magnetic field. Not suitable for use in incubators. With mains adapter.

Thermo Scientific

Specifications

Stirrer:

1

Speed range:

80rpm to 2000rpm

Operating conditions:

-10°C to +40°C at 95% R.H. max.

Casing:

Stainless steel

Protection class acc. to DIN EN 60529:

IP 64

Type	Stirring capacity	Power	Dimensions (W x D x H)	PK Cat. No.
	ml	W	mm	
Maxi Direct	100 - 5000	5 - 20	180 x 215 x 35	1 9.720 618

Magnetic stirrer MIX 1 and MIX 1 eco



Wear-free inductive drive, powerful, up to 10liters, 100-2000rpm, internal controller with 20 watts, digital display, 4-step power setting for high power with regard to large and viscous media and reduced power for warming-free continuous operation, adjustable SoftStart for different volumes/viscosity. 3 years warranty. Made in Germany.

2mag

MIX 1 eco

Identical to MIX 1, but price optimized, up to 3 liters, speed range 120rpm-1400rpm, extremely robust, simple operation by speed knob and scale.

Specifications

Operating conditions:

-10°C to +50°C at 80% R.H. max.

Housing:

Stainless steel

Protection category:

IP 64

Type	Rotation speed	Stirring capacity	Dimensions (W x D x H)	Power	Weight	PK Cat. No.
	rpm	ml	mm	W	kg	
MIX 1	100 - 2000	1 - 10000	188 x 230 x 38	20 (4-steps)	4.0	1 9.645 954
MIX 1 eco	120 - 1400	1 - 3000	120 x 120 x 35	10	1.7	1 9.645 955



9.645 954



9.645 955

1 Magnetic stirrer luMIX with light function 2mag

Ultra flat, 100% maintenance-free and wear-free, 2mag magnetic induction drive concept. Magnetic stirrer with 1 large stirring position and a luminescent plate, up to 3000ml stirring volume, also suitable for viscous media. Stirring function and illumination function separately switchable.

Light: Bright and warming-free luminescent PMMA plate, white LEDs with homogenous brightness and variable light intensity (4-step), non-reflecting illumination.

Stirring: 100% maintenance-free and wear-free by inductive 2mag-Magnetic-Drive concept for powerful mixing of solutions, extremely wide speed range from 100rpm to 2000rpm, jerk-free stirring even at low speeds, 4-step power settings for high power with regard to large and viscous stirring volumes and reduced power for the warming-free continuous operation.

Clear digital display for light-, speed- and power settings.

Specifications

Perm. operating temperature: -10 to +50°C at 80% R.H. max.
 -40°C to +70°C, 10 to 95%, 500 to 1060hPa
 Housing: Stainless steel
 Protection class: IP64

Type	Rotation speed	Stirring capacity	Dimensions (W x D x H)	Power	Weight	PK	Cat. No.
	rpm	ml	mm	W	kg		
luMIX	100 - 2000	1 - 3000	188 x 238 x 44	20	3.6	1	9.645 992



Magnetic stirrer, Cimarec Power Direct Thermo Scientific

Super flat, powerful magnetic stirrer for volumes from 100ml up to 40L, with long-range, magnetic field for stirring over long distances up to max. 40mm, ideal for thick-walled, glass vessels, round bottom flasks or double-walled containers, wash- and abrasion-resistant, stainless steel housing, speed range 100rpm to 2000rpm with feedback control, quick stop within 2 sec., 4-step stirring power adjustment (5W/10W/15W/20W), digital speed display, bi-directional RS232 interface allowing up to 14 units to be directly and individually controlled by the user's PC and 24V d.c. output, a.c. adapter for 100 - 240V. Ambient operating temperature: -10 to +40°C. Protection class: IP 22.

Type	Rotation speed	Dimensions (W x D x H)	Power	Weight	PK	Cat. No.
	rpm	mm	W	kg		
Power Direct	100 - 2000	240 x 295 x 35	5/10/15/20	2.5	1	9.720 595 2



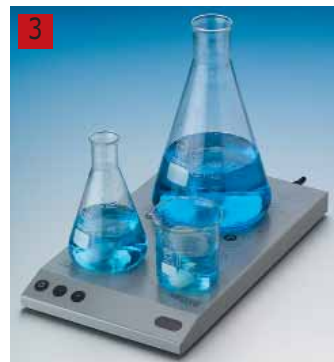
3 Multi-position magnetic stirrers, Cimarec i Poly 15 Thermo Scientific

With non-mechanical, electronic induction drive. With 15 stirring spaces, for e.g. 6 x 1L erlenmeyer flasks or 15 x 250ml beakers. For mass screening and biological applications, even in humidity incubators. With built-in controller, digital speed indicator and soft-start drive. With mains adaptor.

Specifications

Stirring positions: 15
 Protection class: IP 32
 Operating conditions: -10 to +40°C at 95% R.H. max.
 Housing: stainless steel, powder coated
 Colour: grey

Type	Rotation speed	Dimensions (W x D x H)	Power	PK	Cat. No.
	rpm	mm	W		
Poly 15	130 - 990	240 x 420 x 35	10	1	9.720 650



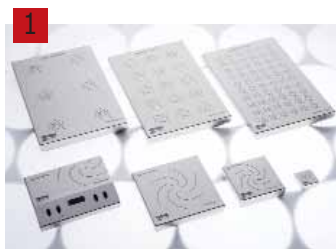
Multi-position magnetic stirrers, Multipoint Thermo Scientific

With non-mechanical, electronic induction drive. Ideal for batch series stirring. Choice of 6-place, stirring position models which can stir up to 6 x 1liter erlenmeyer flasks or 15-place models for up to 15 x 250ml beakers. With digital stirring speed display and soft-start function. With 4 adjustable power level stirring speeds (5 to 20W), easy to clean, hermetically sealed casing which can be washed under running water, ultra flat, space-saving profile and 100% synchronous speed control in all stirring positions. Supplied with mains adaptor for 230 V 50/60 Hz. Operating conditions: -10 to +40°C at 95% R.H. max. Housing: Stainless steel (240 x 420 x 35 mm). Protection class: IP 64. Stirring capacity up to 3000 ml.

Type	Stirring positions	Stirring centre distances	Rotation speed	PK	Cat. No.
		mm	rpm		
Multipoint 6	6	130	80 - 2000	1	9.720 624
Multipoint 15	15	65	80 - 2000	1	9.720 625 4



Magnetic stirrers / Hotplates/Without heating, with induction



1 Multi-position magnetic stirrers MIXdrive with external control use in waterbath and oven

Without heating. With non-mechanical, electronic inductive drive and dust/water tight housing, 100% wear-free and maintenance-free. Ideal for batch series stirring and for use in water baths. Choice of 6-place stirring position models which can stir up to 6 x 1L erlenmeyer flasks, 15-place models for up to 15 x 250ml beakers (high form) and 60-place models for small sample containers and using appropriate test tube stands, up to 60 test tubes or centrifuge tubes. Control units available as price-optimized eco 10W, high-power 20W or ultra high-power 40W version. Preselectable mixing power. SoftStart. With external control unit. 3 years warranty. Made in Germany.

2mag

Specifications

Operating conditions: -10°C to +50°C at 100% R.H. max.
 Operating temp. range: in air and water +50°C
 Standard: in air (ovens) +200°C, in water +95°C
 HT-Version: Stainless steel
 Stirrer unit housing: IP 68
 Protection category:

Type	Stirring positions	Stirring centre distances	Stirring capacity	Dimensions (W x D x H)	Weight	PK	Cat. No.
		mm	ml	mm	kg		
MIXdrive 1 XS	1		1 - 1000	48 x 48 x 18	0.3	1	9.645 985
MIXdrive 1 XS HT	1		1 - 1000	48 x 48 x 18	0.3	1	9.645 986
MIXdrive 1 eco	1		1 - 3000	120 x 120 x 35	1.5	1	9.645 961
MIXdrive 1 eco HT	1		1 - 3000	120 x 120 x 35	1.5	1	9.645 962
MIXdrive 1	1		1 - 10000	180 x 180 x 38	3.3	1	9.645 959
MIXdrive 1 HT	1		1 - 10000	180 x 180 x 38	3.3	1	9.645 960
MIXdrive 6	6	130	1 - 3000	245 x 375 x 38	8.9	1	9.645 963
MIXdrive 6 HT	6	130	1 - 3000	245 x 375 x 38	8.9	1	9.645 964
MIXdrive 15	15	65	1 - 3000	245 x 375 x 38	9.5	1	9.645 965
MIXdrive 15 HT	15	65	1 - 3000	245 x 375 x 38	9.5	1	9.645 966
MIXdrive 60	60	32.5	1 - 500	245 x 375 x 38	9.5	1	9.645 967
MIXdrive 60 HT	60	32.5	1 - 500	245 x 375 x 38	9.5	1	9.645 968

Please order control unit **MIXcontrol** separately.



9.645 971

Control units for mixers MIXdrive

MIXcontrol eco: Prize-optimized control unit, speed setting and ON/OFF by turning knob.

2mag

MIXcontrol 20: Stainless steel housing, digital speed display, 4-step power setting, 20watts.

MIXcontrol 40: Identical to MIXcontrol 20, but 10-step power setting, 40watts, 2 sockets for MIXdrive stirres.

Type	Rotation speed rpm	Dimensions (W x D x H) mm	Rating W	Weight kg	PK	Cat. No.
MIXcontrol eco	120 - 1200	65 x 50 x 45	10	0.5	1	9.645 969
MIXcontrol 20	100 - 1600	200 x 155 x 38	20	1.4	1	9.645 970
MIXcontrol 40	100 - 2000	200 x 155 x 38	40	1.4	1	9.645 971



3 4 Magnetic stirring atexMIXdrive 1 with external control

Explosion protected.

2mag

1 stirring position, 100% maintenance-free and wear-free by inductive 2mag-Magnetic-Drive concept for powerful mixing of solutions, jerk-free stirring even at low speeds. Fully encapsulated and hermetically sealed stainless steel housing, IP68, water, dust and germproof, extremely robust construction and performance. Easy to clean and maximum resistance, submersible in water, oil baths, suitable for the use in CO₂ incubators and ovens, temperate range up to +40°C. Certified according to ATEX II 2G Ex mb IIC T4.

Specifications

Operating conditions: -10°C to +40°C at 100% R.H. max.
 +40°C immersed in water
 Casing: Stainless steel
 Protection category: IP 68

Type	Stirring capacity	Dimensions (W x D x H)	Power	Weight	PK	Cat. No.
	l	mm	W	kg		
atexMIXdrive 1	0.001 - 10	180 x 180 x 38	20	3.5	1	6.238 005
atexMIXcontrol cleanroom*	-	210 x 55 x 30	20 (4 steps)	3.6	1	9.646 000

* Control unit explosion protection zone 2.

Accessories for mixer MIXdrive

(NEW)

2mag

Description	PK	Cat. No.
distribOX 4 (4-way header)	1	9.645 972
distribOX 8 (8-way header)	1	9.645 973
mixBATH (stainless steel bath, electropolished), fits for MIXdrive 6/15/60 (also HT)	1	9.645 974
mixBATHCover 6, PP, for mixBath in combination with MIXdrive 6	1	7.639 439
mixBATHCover 15, PP, for mixBath in combination with MIXdrive 15	1	6.255 612
Special design on request.		

1 Multi-position Magnetic stirrer with internal control MIX 4 MS

Powerful 4-position stirring, 100% maintenance-free and wear-free, 2mag magnetic induction drive concept, **with individual and independent speed setting for each stirring position** (Master-Slave-Technology). On-/Off function, synchronous speed mode for all positions, extremely wide speed range of 100rpm to 2000rpm, jerk-free stirring even at low speeds. Clear digital display for settings of stirrer speeds, SoftStart procedure for reliable stirrer bar coupling/centring and safe acceleration, automatic memory function to save the last settings, outstanding long working life of the hermetically sealed drive system and resistant stainless steel housing for easy and fast cleaning.

2mag



Specifications

Housing: Stainless steel
Protection class: IP 64

Type	Rotation speed	Stirring positions	Stirring capacity	Dimensions (W x D x H)	Rating	Weight	PK	Cat. No.
	rpm		ml	mm	W	kg		
MIX 4 MS	100 to 2000	4	1 to 3000	245 x 425 x 38	28	8.9	1	9.646 010

2 Multi-position magnetic stirrers MIX 6/15/8 XL/12 XL

(NEW)

Without heating. With non-mechanical, electronic induction drive, 100% wear-free and maintenance-free. Ideal for batch series stirring. Choice of 6-place, stirring position models which can stir up to 6 x 1000 ml. Erlenmeyer flasks or 15-place models for up to 15 x 250ml (high form) or 8/12 x 600ml beakers (high form). Digital stirring speed display and soft-start function. With 4 adjustable power level stirring speeds (5W to 20W). Easy to clean, hermetically sealed casing which can be washed under running water, ultra flat, space-saving profile and 100% synchronous speed control in all stirring positions. SoftStart. 3 years warranty, Made in Germany.

2mag



Specifications

Operating conditions: -10°C to +50°C at 80% R.H. max.
Housing: Stainless steel
Protection category: IP 64

Type	Rotation speed	Stirring positions	Stirring centre distances	Stirring capacity	Dimensions (W x D x H)	Weight	PK	Cat. No.
	rpm		mm	ml	mm	kg		
MIX 6	100 - 2000	6	130	1 - 3000	245 x 425 x 38	8.8	1	9.645 956
MIX 15	100 - 2000	15	65	1 - 3000	245 x 425 x 38	8.8	1	9.645 957
MIX 8 XL	100 - 1600	8	90	1 - 3000	185 x 420 x 38	6.2	1	9.646 026
MIX 12 XL	100 - 1600	12	90	1 - 3000	275 x 420 x 38	8.8	1	9.646 027

3 Multi-position magnetic stirrers MIX 15 eco

Without heating. Non-mechanical, electronic induction drive, 100% wear-free and maintenance-free. With 15 stirring positions, e.g. for 6L x 1L erlenmeyer flasks or 15ml x 250ml beakers (high form). Suitable for mass screening and biological applications, even in humidity incubators. With built-in controller, digital speed indicator and SoftStart drive. Supplied with mains adapter. 3 years warranty. Made in Germany.

2mag



Specifications

Operating conditions: -10°C to + 50°C at 80% R.H. max.
Housing: Stainless steel
Protection category: IP 64

Type	Rotation speed	Stirring positions	Stirring centre distances	Stirring capacity	Dimensions (W x D x H)	Power	Weight	PK	Cat. No.
	rpm		mm	ml	mm	W	kg		
MIX 15 eco	120 - 1200	15	65	1 - 1500	245 x 425 x 38	10	8.8	1	9.645 958

Magnetic stirrers / Hotplates/Without heating, cable free



1 Magnetic stirrer accuMIX, with battery operation

Mobile magnetic stirrer, 100% maintenance-free and wear-free by inductive 2mag-Magnetic-Drive concept for mixing of solutions, speed range from 120rpm up to 1600rpm, jerk-free stirring also at low speeds, two-step power setting for high power with regard to large and viscous stirring amounts and reduced power for battery-saving long-term operation. Constructed for the independent battery- and stationary mains operation, equipped with 8 commercially available high performance rechargeable batteries (Mignon/AA), universal charging/power supply device, intelligent battery charging station with single controlled charging slots as well as battery service function and 12V adapter cable for the operation at cigarette lighter car sockets. 2mag

Specifications

Operating conditions: -10°C to +50°C at 80% R.H. max.
 Casing: Stainless steel
 Protection category: IP 30

Type	Rotation speed	Stirring capacity	Dimensions (W x D x H)	Power	Weight	PK	Cat. No.
	rpm	l	mm	W	kg		
accuMIX	100 - 1600	1 - 3000	215 x 130 x 40	2/10 (2-steps)	2.5	1	9.646 011



2 Magnetic stirrer SM27, with battery operation

For use in the field or inside incubators or glove boxes where external power supply is impractical. With BioCote, silver-based, antimicrobial protection. Maximum speed 1300rpm. Maximum volume stirred 1.5L (H₂O). Top plate 150mm x 160mm. Variable speed control with battery status indicator. ABS casing 70mm high. Maximum operating conditions +60°C and 80% R.H. Weight 1.3kg. Supplied with 4 x 1.5V size 'D' alkaline batteries giving up to 600 hours operation, and a 25mm PTFE coated follower. Accessory adapters are available for use on 230V 50Hz mains or 12V vehicle supply using the cigar lighter socket. Stuart

Type	PK	Cat. No.
SM27	1	9.950 408

Accessories for magnetic stirrer, SM27

Description	PK	Cat. No.
Mains adapter, SM27/1 for UK / Ireland, 230 V 50Hz single phase supplies	1	9.950 409
Mains adapter, SM27/2 for continental Europe, 230 V 50Hz single phase supplies	1	9.950 410
Vehicle battery adapter, SM27/3 with cigarette lighter plug	1	9.950 411



3 Magnetic stirrer, operated by water/air pressure

PP-ABS construction. This unique stirrer is operated either by water pressure between 1kg/cm² and 2.5kg/cm² (15psi to 40psi) or by air pressure. No electrical supply is needed, thus eliminating heat, electric shock and explosion hazards. Corrosion-proof, all-plastic construction. Can be used on the bench or clamped to a stand with a 12mm (½") diameter rod using the integral bosshead. Kartell

Diam. mm	Height mm	PK	Cat. No.
129	61	1	9.303 043

➔ Accessories for 2mag magnetic stirrers, see page 415.

4. Stirring, Shaking, Mixing Magnetic stirrers / Hotplates/with heating, with induction

1 Heated magnetic stirrer hotMIX 1 with internal control

NEW!

2mag

Price-optimized magnetic stirrer, 100% maintenance-free and wear-free by inductive 2mag magnetic drive concept for mixing of solutions, speed range from 100rpm up to 1600rpm, jerk-free stirring even at low speeds. SoftStart for reliable catching/centering and safe accelerating of the stirring bar, resistant stainless steel housing for easy and fast cleaning, spill-over protection, extremely robust construction. Hot plate made from resistant aluminium alloy, max. heating temperature +200°C, socket for contact thermometer (accessory), warning-LED in case of hot plate, 3 integrated over temperature protection loops against overheating.



Specifications

Operating conditions: -10°C to +40°C at 80% R.H. max.
Casing: Stainless steel
Protection category: IP 20

Type	Hot-plate	Rotation speed	Stirring capacity	Dimensions (W x D x H)	Power	Weight	PK	Cat. No.
	mm	rpm	ml	mm	W	kg		
hotMIX 1	aluminum	100 to 1600	1 to 2000	120 x 140 x 80	10	2.0	1	6.238 077

2 Multiple stirring hotplate 2mag STIRRING HOTPLATE 6/15

NEW!

2mag

Stirring - Powerful 15 stirring points, maintenance-free and wear-free by 2mag inductive drive, extremely wide speed range of 100rpm to 2.000rpm, 100% synchronized speed, jerk-free stirring even at low speeds, 10-step power settings of the stirrer, high power setting for viscous liquids and reduced power setting for long-term operation without any heating effects caused by the stirrer, clear digital display for settings of stirrer speed, stirrer power and temperature of the integrated heater, SoftStart procedure for reliable catching/centering and safe acceleration of the stirring bar.

Heating - Heating plate made of resistant aluminium alloy, PTFE-coated for increased chemical resistance and easier cleaning, fast heating-up by powerful integrated electrical heater, homogenous temperature distribution, maximum heating temperature +200°C, Power Detect for automatic compensation of physically determined loss in stirring power which can come up to 40% at high temperatures, independent over-temperature protection inside the plate.

Type	Stirring positions	Stirring centre distances	Stirring capacity	Dimensions (W x D x H)	Weight	PK	Cat. No.
		mm	ml	mm	kg		
HOTPLATE 15	15	65	1 to 1.000	250 x 430 x 75	15.0	1	9.646 051



1



1 LLG magnetic stirrer with heating uniSTIRRER 3, complete set (NEW)

Low-priced magnetic stirrer with all essential functions and equipment features. A LED display to control all parameters, an integrated temperature control as well as an enclosed design (IP42) are integrated features. The included PT-1000 sensor ensures an exact temperature control. A stand rod with a sensor holder is supplied with this instrument. The integrated HOT-sign warns the user of a hot plate even if the device is switched off. 3 years warranty.

- LED display to set the exact rotation speed and the temperature
- Digital controlled rotation speed and temperature
- 'HOT' warning sign, even if the device is switched off
- Sensor PT-1000 is included
- Integrated temperature control
- Stand rod and sensor holder is supplied

Delivery includes: magnetic stirrer with PT-1000, stand rod and fixing material

Specifications

Stirring quantity (H ₂ O):	3l
Speed range:	100 to 1500rpm
Setting accuracy:	±10rpm
Magnetic bar:	max. 50mm
Display:	LED
Heating plate:	135mm diam./Stainless steel
Permissible ambient temperature:	5 to 40°C
Temperature range:	RT to 280°C
Setting accuracy:	±1°C
Control accuracy:	±2°C
Heat output:	500W
Safety temperature:	320°C
Dimensions (WxDxH):	155 x 215 x 100mm
Weight:	1.5kg
Power supply:	200 - 240V, 50/60Hz
Protection class:	IP 42
Guarantee:	3 years

Type	PK	Cat. No.
uniSTIRRER 3 with EU-plug	1	6.263 410
uniSTIRRER 3 with UK-plug	1	6.263 411



4. Stirring, Shaking, Mixing Magnetic stirrers / Hotplates/With heating and motor

1 LLG-Magnetic stirrer with heating uniSTIRRER 5, complete package NEW!

Universal magnetic stirrer with an outstanding price-performance ratio. Safety features include a "hot" warning display and a stirring function that continues to run until the plate temperature is below 50°C, even when the device is switched off. A digital timer enables unattended operation and can be set from 1min to 99h 59min. When the set time has elapsed, the unit stops automatically. An integrated control function offers precise control of the heated fluid temperature via a remote PT1000 temperature probe. The device is equipped with a 135mm ceramic plate, suitable for the LLG- Universal reaction block systems. 3 years warranty.

- Latest generation magnetic stirrer/hotplate
- Maintenance-free, brushless DC motor
- Timer (1min to 99h 59min)
- Digital control and backlit display
- Stirrer and display can be controlled remotely via an RS232 interface
- Hot surface indicator
- White ceramic-coated, stainless steel top plate
- Sturdy metal housing, IP42-rated
- Powerful stirring
- Connection for PT1000, integrated control function

Delivery includes: Magnetic stirrer with PT1000 probe, rod and holder, user manual.

Specifications

Stirring quantity (H ₂ O):	20l
Speed range:	100 to 1500rpm
Accuracy:	±1rpm
Magnetic bar:	80mm
Display:	LCD
Heating plate:	diam. 135mm/stainless steel with ceramic surface
Permissible ambient temperature:	5 to 40°C
Temperature range:	Ambient to 340°C
Setting accuracy:	±0.1°C
Control accuracy:	±0.2°C
Heat output:	550W
Safety temperature:	100 to 360°C
Dimensions (WxDxH):	280 x 160 x 85mm
Weight:	2.8kg
Power supply:	200 - 240V, 50/60Hz
Protection class:	IP 42
Guarantee:	3 years

Type	PK	Cat. No.
uniSTIRRER 5 with EU-plug	1	6.263 440
uniSTIRRER 5 with UK-plug	1	6.263 441



1 2 LLG-RCT standard *safety control*

Magnetic stirrer with new technology and new functions:

- integrated temperature control
- incl. PT 1000 temperature sensor (PT 1000.60)
- exact temperature and speed setting via digital display, even when switched off
- digital display of set safety temperature limit
- hot top indicator, hot surface warning to prevent burns
- digital error code display
- with adjustable safety circuit of heating plate temperature (+50 to +360°C)
- safety magnetic stirrer with heating, suitable for unsupervised operation
- DIN 12878 connector for attaching a contact thermometer, e.g. ETS-D5; enables precise temperature control directly in the heated medium
- enhanced safety due to improved heat control technology
- enclosed assembly (IP42) guarantees long service life
- highly polished, aluminium hotplate for optimal heat transfer
- improved magnetic coupling
- supplied with housing protection cover H 98

Specifications

Drive unit

Stirring quantity (H ₂ O):	20L
Motor rating input/output:	16/9W
Speed display:	digital
Speed range:	50 to 1500rpm
Max. magnetic bar (L x dia.):	80 x 10mm

Heating function

Speed display:	digital
Heat output:	600W
Heating rate (1 litre H ₂ O in H 15):	6.5K/min
Temperature range:	RT to 310°C
Setting accuracy:	±1K
Temp. variation without temp. sensor:	±2K
Adjustable safety circuit:	50 to 360°C
Control accuracy with sensor:	PT 1000/±1K ETS-D5/±0.5K ETS-D6/±0.2K

Heating plate

Material:	aluminium alloy
Dimensions:	135mm dia.

General data

Dimensions (WxDxH):	160 x 270 x 85mm
Weight:	2.5kg
Operating temperature range:	5 to 40°C
Operating humidity range:	80% R.H.
Protection class acc. to DIN EN 60529:	IP42
Tested to DIN EN IEC 61010-1.	

Type	Connector	PK	Cat. No.
RCT Standard safety control incl. PT 1000	CEE	1	9.720 250
RCT Standard safety control incl. PT 1000	UK	1	6.242 087
RCT Standard safety control incl. PT 1000	CH	1	4.008 142

Optional accessories: Electronic contact thermometer ETS-D5, Ikaflon® stirring bars, Trika® stirring bars, RS 1 stirring bar set, RSE Stirring bar remover, Quarter System, Reaction block System



Universal reaction block system for magnetic stirrers please see page 437.

Magnetic stirrer with heating, US152/UC152 and US152D/UC 152D



Stuart

- Choice of top plate: Robust coated aluminium or chemically resistant ceramic
- Flashing "Hot" warning light, mains independent
- Accurate temperature control with LED indicator scale
- Compact space saving design

Stylish and economical general purpose hotplate stirrers designed with safety as well as performance in mind. The compact shape takes up less bench space and makes storage easier. The hotplate has an innovative LED temperature indicator scale and can also be used in conjunction with the SCT1 digital contact thermometer to accurately control sample temperature. The "Hot" warning light will flash whenever the plate temperature is above 50°C even when the hotplate is turned off and unplugged from the mains. Powerful magnets and motor give stirring speeds up to 2000rpm and is capable of mixing large volumes (up to 15L).

Model US152 has a robust aluminium/silicon alloy top plate for excellent heat transmission. The top plate has a thin ceramic coating for added chemical resistance. A 700W element gives rapid heating and ensures even temperature distribution across the whole surface of the plate.

Model UC152 has a glass ceramic top which has excellent chemical resistance. The surface is easy to clean and the thermal properties allow very high plate temperatures while ensuring the edges stay cooler, reducing the chance of accidental burns. The white surface ensures good visibility of colour changes.

All models have an integral fitting for a retort rod and are supplied with 2 x 25mm PTFE coated stirring bars.



9.645 298



9.645 342

Specifications

US152(D)/UC152(D)	
Plate Material:	Coated Aluminium and Silicon/Glass ceramic
Plate Dimensions:	150mm x 150mm
Heated Area:	150mm x 150mm/120mm x 120mm
Heater Power:	700W/500W
Max plate temp:	325°C/450°C
Stirrer Speed:	100-2000rpm
Maximum Stirring Capacity:	15L
Dimensions (WxDxH):	172 x 248 x 120mm/172 x 248 x 122mm
Weight:	2.9kg
Electrical supply:	230V, 50Hz, 750W/230V, 50Hz, 550W
IP Rating:	IP 32

Type	Description	PK	Cat. No.
US152	Analog magnetic stirrer/hotplate, coated aluminium plate	1	9.645 295
US152D	Digital magnetic stirrer/hotplate, coated aluminium plate	1	9.645 299
UC152	Analog magnetic stirrer/hotplate, glass ceramic plate	1	9.645 296
UC152D	Digital magnetic stirrer/hotplate, glass ceramic plate	1	9.645 298
SCT1	Digital contact thermometer	1	9.645 342
SCT 1/2	PTFE probe	1	9.645 344
SCT 1/1	Probe holder	1	9.645 343
SR1	Retort rod, 600 x 12mm diameter	1	9.645 335

3 4 Magnetic stirrer with heating, 3-Position, SB162-3

Stuart

With 3 independently adjustable aluminium hotplates, Overheat protection mechanism and warning light which switches on when the plate temperature exceeds 50°C. With facility for mounting a 12.5mm retort rod at the rear of each plate and 3mm x 25mm PTFE coated followers. With BioCote, silver-based, antimicrobial protection.

Specifications

Max. stirring quantity (H ₂ O):	15l
Speed range:	100 - 1500rpm
Heat output:	3 x 700W
Max. plate temperature:	325°C
Set-up plate:	AL/Si alloy, 3 x 160 x 160 mm
Dimensions (WxDxH):	600 x 270 x 110mm
Weight:	11kg
Power supply:	230V, 50Hz
Protection class:	IP32



Type	Stirring positions	PK	Cat. No.
SB162-3	3	1	9.950 424



1 Magnetic stirrer with heating SLR, with glass ceramics plate

For stirring, heating and controlling. As well as the ability for rapid and temperature-controlled heating, many applications also require liquids to be stirred. You can use the SLR hotplate/stirrer to provide gentle or vigorous liquid stirring and, if required, gradual heating or cooling. All functions are displayed on the clear LCD panel and can be monitored. The stirrer and heater are individually controlled via manual control knobs. The stirrer can be set from 100rpm to 1100rpm x 10rpm increments. True running is achieved even at the lower end of the rpm range. Heating can also be adjusted over 24 steps attaining an average of 0.9kW at the top of the range. It is possible to regulate temperatures between 25°C and 200°C with variations of between ±2°C and ±5°C using the Pt1000 temperature sensor, depending on the liquid volume, heat capacity and ambient temperature conditions.

SI Analytics

Specifications

Max. stirring quantity (H ₂ O):	10l
Speed range:	100 to 1100rpm
Heat output:	900W
Min. time to boiling point 1 l H ₂ O:	approx. 15min
Temperature max.:	550°C
Connection for ext. temp. sensor:	Pt 1000
Control accuracy with sensor:	±2 - 5°C
Set-up plate:	glass ceramic, 235 x 235mm
Dimensions (WxDxH):	240 x 370 x 85mm
Weight:	approx. 3.8kg
Power supply:	230V, 50/60Hz
Protection class:	IP20

Type	PK	Cat. No.
SLR	1	9.720 130



9.720 411

2 Magnetic stirrers RH basic/digital

Newly designed, economic magnetic stirrer with heating. High heat output of 600 watts and the steel-copper compound hot plate ensures rapid heating. Adjustable safety temperature from 50 to 370°C. Soft-start stirring motor. Includes M 10 thread for a support rod. Strong magnetic field and wide speed range for volumes up to 15 litres. RH basic white/RH digital white with chemically resistant hot plate.

IKA

RH digital only:

Bushing according to DIN 12878 for connecting an electronic contact thermometer, such as the ETS-D5. Highly accurate temperature control is possible with the sensor placed directly in the medium.

- Digital display of temperature and speed
- Error code display
- Easy operation with touch keypad



9.720 414

Specifications

Max. stirring quantity (H ₂ O):	15l
Motor rating input/output:	15/2W
Speed range:	50 to 2000rpm
Speed display RH basic:	scale
Speed display RH digital:	LED
Heat output:	600W
Heating rate (1l H ₂ O):	6K/min
Temperature range min./max.:	50 to 320°C
Setting accuracy RH digital:	±5K
Adjustable safety circuit min./max.:	50 to 370°C
Connection for ext. temp. sensor:	DIN 12878
Control accuracy with sensor:	±1K
ETS-D5:	±0.5K
ETS-D6:	±0.2K
Set-up plate:	Stainless steel 1.4301, diam. 135mm
Dimensions (WxDxH):	160 x 246 x 90mm
Weight:	2kg
Protection class acc. to DIN EN 60529:	IP 21
Power supply:	220-240V, 50/60Hz



9.720 418

Type	PK	Cat. No.
RH basic	1	9.720 411 2
RH basic S 2 UK	1	9.720 412
RH basic white	1	9.720 417
RH digital	1	9.720 414 3
RH digital white	1	9.720 418 4

1 Magnetic stirrer RET® control-visc with heating and integrated balance



Safety magnetic stirrer with heating and integrated balance. Clear, multilingual TFT display makes it easy to set all parameters. Integrated temperature control feature enables connection of a temperature probe, placed directly in the medium, to control medium temperature with a high degree of precision. PT 1000 temperature sensor is included with purchase of RET control. The stainless steel composite hot plate, reaching a temperature of 340°C, enables rapid heating. RS 232 and USB interfaces enable pc control of the magnetic stirrer and documentation of all test parameters. "Lock" function prevents inadvertent changes of speed and temperature settings. As a safety feature, "HOT" sign flashes when the unit is switched off but surface is still hot.

RET® control-visc white with chemically resistant hot plate.

- BNC socket for connection of a pH electrode
- Adjustable temperature control mode: rapid heating and very accurate temperature control
- Dual sensor for simultaneous control of heat transfer fluid temperature and medium temperature
- Timer and countdown functions
- Display of viscosity change trend
- Detached magnet detection
- Intermittent operation
- Several modes of operation available
- Safety circuit adjustable from 50 to 380°C
- Transparent protective cover included
- Error code display for easy troubleshooting
- Exact temperature and speed adjustment by means of digital display; even when function switched off
- Digital display of the safety temperature limit
- Suitable for unsupervised operation
- Sealed casing (IP 42) ensures a long service life
- labworldsoft® software included

Specifications

Max. stirring quantity (H ₂ O):	20l
Motor rating input/output:	22/12W
Speed:	50 to 1700rpm
Speed display:	TFT
Heat output:	600W
Heating rate (1l H ₂ O):	7K/min
Temperature range min./max.	RT to 340°C
Setting accuracy:	±0.1K
Adjustable safety circuit min./max.:	50 to 380°C
Connection for ext. temp. sensor:	DIN 12878
Control accuracy with sensor:	±0.2K
Interface:	USB/RS 232
Weighing range:	0 to 5000g
Weighing accuracy:	<500g : ±1g , >500g: ±5g
Set-up plate:	Stainless steel 1.4301, diam. 135mm
Dimensions (WxDxH):	160 x 270 x 85mm
Weight:	3kg
Protection class acc. to DIN EN 60529:	IP 42
Power supply:	220-240V, 50/60Hz

Type	PK	Cat. No.
RET® control-visc	1	9.720 261
RET® control-visc S 2 UK	1	9.720 262
RET® control-visc S 3 CH	1	9.720 263
RET® control-visc white	1	9.720 231
RET® control-visc white S 2 UK	1	9.720 232
RET® control-visc white S 3 CH	1	9.720 233

Temperature sensor for RET® control-visc

Type	Description	Immersion depth mm	PK	Cat. No.
PT 100.50	AISI 316 Ti	230	1	9.720 350
PT 100.51	Borosilicate glass 3.3	230	1	9.720 351
PT 1000.50	Stainless steel	230	1	9.720 348
PT 1000.51	Stainless steel, glass coated, for corrosive media	230	1	9.720 349
PT 1000.80	Stainless steel	150	1	9.720 352



9.720 350



9.720 441

Magnetic stirrers C-MAG HS 4 digital/C-MAG HS 7 digital/C-MAG HS 10 digital

New magnetic stirrer with heating and ceramic heating plate which offers excellent chemical resistance.

IKA

- Powerful motor for stirring quantities of up to 5l, 10l or 15l (H₂O)
- Simultaneous digital display of target and actual temperatures via LCD display
- Directly connection for a PT 1000 temperature sensor enable a precise temperature control (included in delivery)
- Control accuracy in medium $\pm 0.5K$ (in combination with PT 1000)
- Display of actual temperature value in medium with 0.1K resolution when using PT 1000 temperature sensor
- 3 operating modes to choose (standard, safe, adjustment protection)
- Fixed safety circuit of 550°C
- Hot Top indicator: hot surface warning to prevent burns!
- Digital error code display
- Elevated control panel for protection against leaking liquids



9.720 443

Specifications

Magnetic drive

Max. stirring quantity (H₂O)

C-MAG HS 4:

5l

C-MAG HS 7:

10l

C-MAG HS 10:

15l

Motor rating input/output:

15/1.5W

Speed range:

100 to 1500rpm

Speed display:

Scale

Max. stirring bar length

C-MAG HS 4:

30mm

C-MAG HS 7/HS 10:

80mm

Heating function

Heat output:

C-MAG HS 4:

250W

C-MAG HS 7:

1000W

C-MAG HS 10:

1500W

Heating rate (1l H₂O):

C-MAG HS 4:

2.5K/min

C-MAG HS 7/HS 10:

5K/min

Temperature range min./max.

50 to 500°C

Setting accuracy:

 $\pm 1K$

Temperature display:

LCD

Safety circuit fixed:

550°C

Connection for ext. temp. sensor:

DIN 12878

Control accuracy with sensor:

 $\pm 0.5K$

Set-up plate

Material:

ceramic

Dimensions

C-MAG HS 4:

100 x 100mm

C-MAG HS 7:

180 x 180mm

C-MAG HS 10:

260 x 260mm

Protection class acc. to DIN EN 60529:

IP 21

Power supply:

230 V, 50/60 Hz



9.720 445

Type	Dimensions (W x D x H) mm	Weight kg	PK	Cat. No.
C-MAG HS 4 digital	150 x 260 x 105	3	1	9.720 441
C-MAG HS 4 digital S 2 UK	150 x 260 x 105	3	1	9.720 442
C-MAG HS 4 digital S 3 CH	150 x 260 x 105	3	1	9.720 447
C-MAG HS 7 digital	215 x 330 x 105	5	1	9.720 443
C-MAG HS 7 digital S 2 UK	215 x 330 x 105	5	1	9.720 444
C-MAG HS 7 digital S 3 CH	215 x 330 x 105	5	1	9.720 448
C-MAG HS 10 digital	300 x 415 x 105	6	1	9.720 445
C-MAG HS 10 digital S 2 UK	300 x 415 x 105	6	1	9.720 446
C-MAG HS 10 digital S 3 CH	300 x 415 x 105	6	1	9.720 449



4 Magnetic stirrer C-MAG HS 7 Package

C-MAG HS 7 Package includes:

Magnetic stirrer/hotplate C-MAG HS 7, ETS-D5 Electronic contact thermometer, H 38 Holding rod, H 16 V Support rod and H 44 Bosshead.

IKA

Type	PK	Cat. No.
C-MAG HS 7 Package	1	6.235 183

Overall accessories for IKA magnetic stirrers



IKA

Type	Description	For model	PK	Cat. No.
PT 1000.60	Temperature sensor	RCT basic	1	6.229 702
PT 1000.70	Temperature sensor, glass-coated	RCT basic	1	6.231 283
H 104	Protective cover	RET control, RCT basic	1	9.910 338
H 29	Oil bath attachment, i. d. : 136 - 180 mm, H: 81 mm, Vol. : 1 l	RET, RCT	1	7.017 796
H 30	Oil bath attachment, i. d. : 136 - 190 mm, H: 110 mm, Vol. : 1.5 l	RET, RCT	1	7.017 797
labworldsoft® V5	Software for control and data collection	RET, RCT	1	9.910 319

Electronic Contact thermometer ETS-D5/ETS-D6

3 possible operation modes guarantee optimum adjustment to your application:

Operating mode A: Suitable for work with varying parameters (from -50°C to 450°C).

Adjustable safety temperature

Operating mode B: Suitable for repeated operation under uniform conditions and parameters

Operating mode C: Suitable for unsupervised operation

- with optimised PID control
- reset function
- includes stainless steel sensor probe H 62.51
- for all magnetic stirrers with a DIN 12878 class 2 contact thermometer connection, e.g. IKA®, Heidolph and Corning with adapter AD-C1.

ETS-D6 additionally with integrated pH measuring instrument (without pH electrode) and large, graphic LCD display with multilingual user guide.

Specifications

Temperature

Measuring range:	-50 to 450°C
Resolution:	±0.1K
Accuracy*:	±0.2K
Control accuracy:	0.1K
Control accuracy (with sensor)	±0.5K
Voltage:	8 to 16V d.c.
Current (at 9V)	15 mA
Connection:	DIN 12878 Class 2
Operating range:	0 to 60°C
Max. R.H.:	80%
Protection class:	IP54
Connector:	6-pole, DIN 45322
Weight:	0.2kg
Tested to DIN EN IEC 61010-1.	

Type	Dimensions (W x D x H) mm	PK	Cat. No.
ETS-D5	82 x 22 x 83	1	9.720 241
ETS-D6	96 x 45 x 98	1	9.720 242

Dimensions without sensor.

*Sensor: PT1000 DIN IEC 751 Class A

Accessories for ETS-D5/ETS-D6 contact thermometer

IKA

Type	Description	PK	Cat. No.
H 44	Bosshead	1	9.232 994
H 16 V	Stainless steel support rod	1	9.720 257
H 62.51	Replacement sensor, stainless steel	1	9.232 998
H 66.51	Stainless steel sensor, glass sleeved	1	9.232 999
H 70	Extension cable, 1 metre	1	9.233 000
H 11	Replacement power cable	1	9.720 276
H 38	Holding rod	1	9.232 996

1



9.720 241

2



9.720 242

Magnetic stirrers/hotplates, multi-position, RT 5/10/15



Digital magnetic hotplate stirrers with 5, 10 or 15 positions, designed for synchronous heating and stirring. The magnetic coil technology provides noiseless and consistent stirring on all positions. The surface temperature is infinitely adjustable up to 120°C, producing a maximum medium temperature of 70°C (depending on type of vessel). Speed remains constant, even when load changes.

IKA

- Homogeneous temperature distribution across heating plate
- Adjustable reverse operation
- Eco-mode for a low self-warming of the surface
- Wear free magnetic coils
- Error code display
- Easy operation with touch keypad
- Suitable for continuous operation
- Adjustable speed in increments of 10rpm

Specifications

Max. stirring quantity per stirring position (H ₂ O):	0.4l
Distance between stirring places:	90mm
Deviation for individual stirring positions:	0%
Speed range:	0 to 1000rpm
Heating rate (1l H ₂ O in H15):	3K/min
Temperature range heating plate:	RT to 120°C
Max. temperature medium (dep. on vessel):	70°C
Temperature display:	LED
Heat control accuracy:	±1K
Speed display:	LED line
Set-up plate material:	aluminium alloy
Protection class acc. to DIN EN 60529:	IP 40
Power supply:	100-240V, 50/60Hz

Type	Stirring positions	Dimensions Set-up plate (W x D) mm	Dimensions (W x D x H) mm	Heating power W	PK	Cat. No.
RT 5	5	110 x 495	120 x 610 x 60	175	1	9.720 603
RT 5 S 2 UK	5	110 x 495	120 x 610 x 60	175	1	9.720 604
RT 5 S 3 CH	5	110 x 495	120 x 610 x 60	175	1	9.720 605
RT 10	10	180 x 495	190 x 610 x 60	375	1	9.720 606
RT 10 S 2 UK	10	180 x 495	190 x 610 x 60	375	1	9.720 607
RT 10 S 3 CH	10	180 x 495	190 x 610 x 60	375	1	9.720 608
RT 15	15	270 x 495	280 x 610 x 60	580	1	9.720 609
RT 15 S 2 UK	15	270 x 495	280 x 610 x 60	580	1	9.720 610
RT 15 S 3 CH	15	270 x 495	280 x 610 x 60	580	1	9.720 611

1



9.720 603

2



9.720 609

1 2 3 LLG-Universal reaction block system for magnetic stirrers **NEW!**

Universal alternative to oil bath

The reaction block allows syntheses to be carried out in round flasks at temperatures of up to 250°C. As a result oil as a heat transfer media is made redundant and your lab is a safer place with this system. The reaction block ensures safety at work and prevents oil baths and heating mantles from overheating in your lab. The messy oil clean-ups that results from changing oil or removing flasks from an oil bath will be eliminated. Injuries and burns from hot oil will never happen again. Uniform mixing is also guaranteed because there is no interference to the magnetic field from the aluminium blocks. This system ensures optimal heat transfer from the heating plate directly into the medium.

- **Universal model**
- **For round plates of 135 to 145mm diameter**
- **With adapter plate for all square plates of min. 145mm length side**
- Reaction blocks are available in six standard sizes.
- Delivered adapter allows the use with either IKA or Heidolph magnetic stirrers.
- Syntheses in round flasks without oil bath up to 250°C.
- Uniform and constant mixing
- High-precision thermal conduction directly into the reaction block
- Safe and clean working
- Made in Germany

Description	PK	Cat. No.
LLG-Universal reaction block system 50ml	1	9.728 890
LLG-Universal reaction block system 100ml	1	9.728 891
LLG-Universal reaction block system 250ml	1	9.728 892
LLG-Universal reaction block system 500ml	1	9.728 893
LLG-Universal reaction block system 1000ml	1	9.728 897
LLG-Universal reaction block system 2000ml	1	9.728 898
Spare adapter ring for reduction from 145mm to 135mm, for attachment 50 to 500ml	1	9.728 894
Spare adapter ring for reduction from 145mm to 135mm, for attachment 1000 and 2000ml	1	9.728 899
Adapter plate for rectangular hotplates, for attachment 50 to 500ml	1	9.728 895
Adapter plate for rectangular hotplates, for attachment 1000 and 2000ml	1	9.728 900
2 spare screws and 1 wrench, for attachment 50 to 500ml	1	9.728 896
2 spare screws (countersunk), for attachment 1000 and 2000ml	1	9.728 901



4 Safety cover for LLG-Universal reaction block system for magnetic stirrers **NEW!**

Safety cover for LLG-Reaction block system to protect against broken glass and for heat insulation.



For	PK	Cat. No.
Round flask attachment 250ml	1	9.728 885
Round flask attachment 500ml	1	9.728 886
Round flask attachment 1000ml	1	9.728 887
Round flask attachment 2000ml	1	9.728 902

4. Stirring, Shaking, Mixing

Magnetic stirrers / Hotplates/Accessories, Magnetic stirring bars



1 LLG-Magnetic stirring bars, cylindrical, PTFE, *eco pack*



Circular, smooth and PTFE-coated. Packaging size: 10 pieces

Length mm	Diam. mm	PK	Cat. No.
10	6	10	9.198 910
12	3	10	9.198 766
15	6	10	9.198 919
20	6	10	9.198 920
25	6	10	9.198 925
25	8	10	9.198 767
30	6	10	9.198 930
35	6	10	9.198 935
40	8	10	9.198 940
45	8	10	9.198 945
50	8	10	9.198 950
60	9	10	9.198 960
70	9	10	9.198 970
80	9	10	9.198 980



6.267 318

Magnetic stirring bar behrotest, set 1 + 2



Magnetic stirring bars behrotest®, Set 1 in a transparent box with hinged lid
Consisting of: 2x 20 x 6 mm, 2x 25 x 6mm, 2x 30 x 6 mm, 2x 40 x 8 mm, 1x 50 x 8 mm, 1x 60 x 9 mm

Behr

Magnetic stirring bars behrotest®, Set 2 in a transparent box with hinged lid including magnetic stirring bar retriever, length 245 mm

Consisting of: 1x 15 x 6 mm, 2x 20 x 6 mm, 2x 25 x 6mm, 1x 30 x 6 mm, 2x 40 x 8 mm, 1x 50 x 8 mm, 1x 60 x 9 mm

Description	PK	Cat. No.
Set 1	1	6.267 317
Set 2	1	6.267 318



3 Magnetic stirring bars, cylindrical, PTFE

PTFE-coated. Cylindrical. Round, smooth surface. Versatile. Autoclavable. Further sizes available on request.

BRAND

Length mm	Diam. mm	PK	Cat. No.
2.5	2.5	1	9.197 502
3.5	3.5	1	9.197 505
5.0	2.0	1	9.197 503
6.0	3.0	1	9.197 506
7.0	2.0	1	9.197 504
8.0	3.0	1	9.197 509
10.0	3.0	1	9.197 507
10.0	6.0	1	9.197 510
12.0	4.5	1	9.197 512
13.0	3.0	1	9.197 508
15.0	6.0	1	9.197 515
15.0	4.5	1	9.197 514
20.0	6.0	1	9.197 520
25.0	6.0	1	9.197 525
30.0	6.0	1	9.197 530
35.0	6.0	1	9.197 535
40.0	8.0	1	9.197 540
45.0	8.0	1	9.197 545
50.0	8.0	1	9.197 550
60.0	9.0	1	9.197 560
70.0	9.0	1	9.197 570
80.0	9.0	1	9.197 580



4 Magnetic stirring bars, triangular, PTFE

Triangular. PTFE-coated. Wedge-shaped, ideal for dissolving solids and re-suspending sediments due to scraping action. Angular surface produces high turbulence, even at low stirring speeds.

BRAND

Length mm	Diam. mm	PK	Cat. No.
12	6	1	7.019 669
20	8	1	7.019 670
25	8	1	9.197 652
25	14	1	7.019 672
35	10	1	7.019 673
40	14	1	9.197 654
50	12	1	7.019 675
55	14	1	9.197 655
80	16	1	9.197 658

1 Magnetic stirring bars ASTEROID, triangular, PTFE (NEW!)

More than 4x higher torque transmissible. Unbeatably enhanced mixing effect in comparison to conventional stirring bars. Strong, stable, long-lasting magnetic field, with no demagnetization effect. Concave design for minimal surface contact and reliable rotation, triangular shape for powerful shear force and enhanced mixing at lower rotational speeds. Significantly higher rotation speeds achievable, high quality, even and sealed PTFE encapsulation. Conform to FDA requirements, steam sterilisable at 121°C. Multiple enhancements against all types of magnetic stirrers. 2mag



Length mm	Diam. mm	PK	Cat. No.
25	17	1	9.646 057
40	28	1	9.646 040
70	46	1	9.646 058

2 Magnetic stirring bar, octagonal, PTFE (NEW!)

- Interrupted profile provides greater surface area and added turbulence when compared to the smooth surface of cylindrical bars Bel-Art Products
 - Pivot ring aids in reducing friction and chattering
 - PTFE encapsulated Alnico magnet
 - Autoclavable

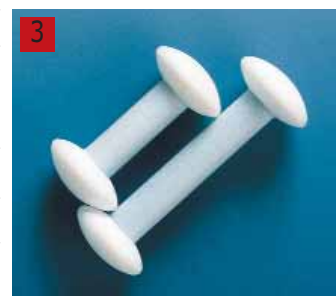


Length mm	Diam. mm	PK	Cat. No.
12.7	8	1	9.197 460
15.9	8	1	9.197 461
22.2	8	1	9.197 462
25.4	8	1	9.197 463
28.6	8	1	9.197 464
38.1	8	1	9.197 465
50.8	8	1	9.197 466

3 Magnetic stirring bars, dumbbell, PTFE

PTFE-coated. Dumbbell-shaped. Excellent centring, low surface contact and high turbulence even at low stirring speeds, ends 20mm diameter. Stem diameter 8mm. BRAND

Length mm	PK	Cat. No.
37	1	9.197 643
55	1	9.197 645



4 Magnetic stirring bars, oval, PTFE (NEW!)

Encapsulated in PTFE. Oval. Ideal for round bottom flasks. BOLA

Length mm	Diam. mm	PK	Cat. No.
20	10	1	9.197 590
25	12	1	9.197 591
30	15	1	9.197 592
35	15	1	9.197 593
40	20	1	9.197 594
50	20	1	9.197 595



5 LLG-Magnetic Stirring Bar Retrievers, PTFE

PTFE-encapsulated stirring bar retriever with strong permanent magnet (Alnico 5), universal chemical resistance. For the removal of stirring bars from aggressive liquids, prevents loss of stirring bars. Lower end diameter 10mm.

Length mm	Diam. mm	PK	Cat. No.
150	8	1	9.197 717
250	8	1	9.197 725
300	8	1	4.008 501
350	8	1	9.197 735





1 Overhead stirrer EUROSTAR 20 digital

Laboratory stirrer designed for simple stirring tasks for quantities up to 15l (H₂O). It automatically adjusts the speed through microprocessor controlled technology within the speed range of 0/30 to 2000rpm. Safety circuits installed ensures automatic cut-off in an anti-stall or overload conditions. Continuous comparison of shaft speed to desired speed is maintained and variations are adjusted automatically. This guarantees a constant speed even with changes in viscosities of the sample.

IKA

- Digital speed display
- Infinitely adjustable speed
- Push-through agitator shafts
- Overload protection
- Short-term overload operation
- Slim casing
- Quiet operation
- Error code display

Specifications

Stirring quantity max. (H ₂ O):	15l
Max. viscosity:	10000mPas
Motor rating input/output:	56/44W
Speed range:	0/30 to 2000rpm
Max. torque at stirring shaft:	20Ncm
Display:	LED
Chuck range:	0.5 to 10mm
Dimensions (WxDxH):	86 x 208 x 248mm
Protection class DIN EN 60529:	IP 40
Power supply:	230V, 50/60Hz

Type	PK	Cat. No.
EUROSTAR 20 digital	1	9.816 691
EUROSTAR 20 digital S 2 UK	1	9.816 692
EUROSTAR 20 digital S 3 CH	1	9.816 693



2 Overhead stirrer EUROSTAR 20 high speed digital

High speed laboratory stirrer designed for intensive stirring tasks for quantities up to 20l (H₂O). It automatically adjusts the speed through microprocessor controlled technology within the speed range of 0/150 to 6000rpm. Safety circuits installed ensures automatic cut-off in an anti-stall or overload conditions. Continuous comparison of shaft speed to desired speed is maintained and variations are adjusted automatically. This guarantees a constant speed even with changes in viscosities of the sample.

IKA

- Digital speed display
- Infinitely adjustable speed
- Cone seat for precision shaft
- Overload protection
- Short-term overload operation
- Slim casing
- Quiet operation
- Error code display

Specifications

Stirring quantity max. (H ₂ O):	20l
Max. viscosity:	10000mPas
Motor rating input/output:	176/125W
Speed range:	0/150 to 6000rpm
Max. torque at stirring shaft:	20Ncm
Display:	LED
Chuck range:	fixed
Dimensions (WxDxH):	86 x 208 x 325mm
Protection class DIN EN 60529:	IP 40
Power supply:	230V, 50/60Hz

Type	PK	Cat. No.
EUROSTAR 20 high speed digital	1	9.816 694
EUROSTAR 20 high speed digital S 2 UK	1	9.816 695
EUROSTAR 20 high speed digital S 3 CH	1	9.816 696

Stirrers for overhead stirrer EUROSTAR 20 high speed digital/control

IKA



9.197 053

9.197 055

Type	Description	For Volume l	Rotor diam. mm	PK	Cat. No.
R 1401	Propeller	1 - 30	55	1	9.197 054
R 1405	Propeller	0.25 - 30	45	1	9.197 053
R 1402	Dissolver	1 - 30	42	1	9.197 055

1 Overhead stirrer EUROSTAR 20 high speed control

NEW!

1

High speed laboratory stirrer designed with a removable wireless controller and a digital TFT display. It automatically adjusts the speed through microprocessor controlled technology within the speed range of 0/150 - 6000 rpm. The stirrer comes equipped with a RS 232 and a USB interface to control and document all parameters, and an update of the current firmware. An integrated torque trend display is provided for the measurement of viscosity changes. The included precision stirrer shaft is 280 mm long and has a maximum immersion depth of 220 mm.

- Multilingual TFT display
- Programmable functions
- Integrated temperature measurement
- Interval operation
- Timer function
- Adjustable safety circuit
- Locked function
- Infinitely adjustable speed
- Push-through agitator shafts
- Overload protection
- Short-term overload operation
- Slim casing
- Quiet operation
- Error code display

Specifications

Stirring quantity max. (H ₂ O):	20l
Max. viscosity:	10000mPas
Motor rating input/output:	176/125W
Speed range:	0/150 to 6000rpm
Max. torque at stirring shaft:	20Ncm
Display:	TFT
Chuck range:	special stirrer shaft (incl. in delivery)
Dimensions (WxDxH):	86 x 230 x 325mm
Protection class DIN EN 60529:	IP 40
Power supply:	230V, 50/60Hz

Type	PK	Cat. No.
EUROSTAR 20 high speed control	1	6.265 592
EUROSTAR 20 high speed control S 2 UK	1	6.265 900
EUROSTAR 20 high speed control S 3 CH	1	6.265 901



2 Overhead stirrer EUROSTAR 40 digital

2

Universal laboratory stirrer designed for simple stirring tasks for quantities up to 25l (H₂O). It automatically adjusts the speed through microprocessor controlled technology within the speed range of 0/30 to 2000rpm. Safety circuits installed ensures automatic cut-off in an anti-stall or overload conditions. Continuous comparison of shaft speed to desired speed is maintained and variations are adjusted automatically. This guarantees a constant speed even with changes in viscosities of the sample.

- Digital speed display
- Infinitely adjustable speed
- Push-through agitator shafts
- Overload protection
- Short-term overload operation
- Slim casing
- Quiet operation
- Error code display

Specifications

Stirring quantity max. (H ₂ O):	25l
Max. viscosity:	30000mPas
Motor rating input/output:	118/84W
Speed range:	0/30 to 2000rpm
Max. torque at stirring shaft:	40Ncm
Display:	LED
Chuck range:	0.5 to 10mm
Dimensions (WxDxH):	86 x 208 x 248mm
Protection class DIN EN 60529:	IP 40
Power supply:	230V, 50/60Hz

Type	PK	Cat. No.
EUROSTAR 40 digital	1	9.816 697
EUROSTAR 40 digital S 2 UK	1	9.816 698
EUROSTAR 40 digital S 3 CH	1	9.816 699



Overhead stirrer EUROSTAR 60 digital/60 control

Universally used strong laboratory stirrer for quantities up to 40l (H₂O). It automatically adjusts the speed through microprocessor controlled technology within the speed range of 0/30 to 2000rpm. Safety circuits installed ensures automatic cut-off in an anti-stall or overload conditions. Continuous comparison of shaft speed to desired speed is maintained and variations are adjusted automatically. This guarantees a constant speed even with changes in viscosities of the sample.

IKA

EUROSTAR 60 digital:

- Digital speed display
- Infinitely adjustable speed
- Push-through agitator shafts
- Overload protection
- Short-term overload operation
- Slim casing
- Quiet operation
- Error code display

EUROSTAR 60 control additionally:

- Multilingual TFT display
- Programmable functions
- Integrated temperature measurement
- Interval operation
- Timer function
- Adjustable safety circuit
- Locked function

Specifications

Stirring quantity max. (H ₂ O):	40l
Max. viscosity:	50000mPas
Motor rating input/output:	176/126 W
Speed range:	0/30 to 2000rpm
Max. torque at stirring shaft:	60Ncm
Display 60 digital:	LED
Display 60 control:	TFT
Chuck range:	0.5 to 10mm
Dimensions (WxDxH) 60 digital:	86 x 208 x 248mm
Dimensions (WxDxH) 60 control:	86 x 230 x 267mm
Protection class DIN EN 60529:	IP 40
Power supply:	230V, 50/60Hz
EUROSTAR 60 control only:	
Temperature measurement:	PT 1000
Temperature measuring range:	-10 to +350°C

Type	PK	Cat. No.
EUROSTAR 60 digital	1	9.816 700 ■
EUROSTAR 60 digital S 2 UK	1	9.816 701
EUROSTAR 60 digital S 3 CH	1	9.816 702
EUROSTAR 60 control	1	9.816 703 ■
EUROSTAR 60 control S 2 UK	1	9.816 704
EUROSTAR 60 control S 3 CH	1	9.816 705

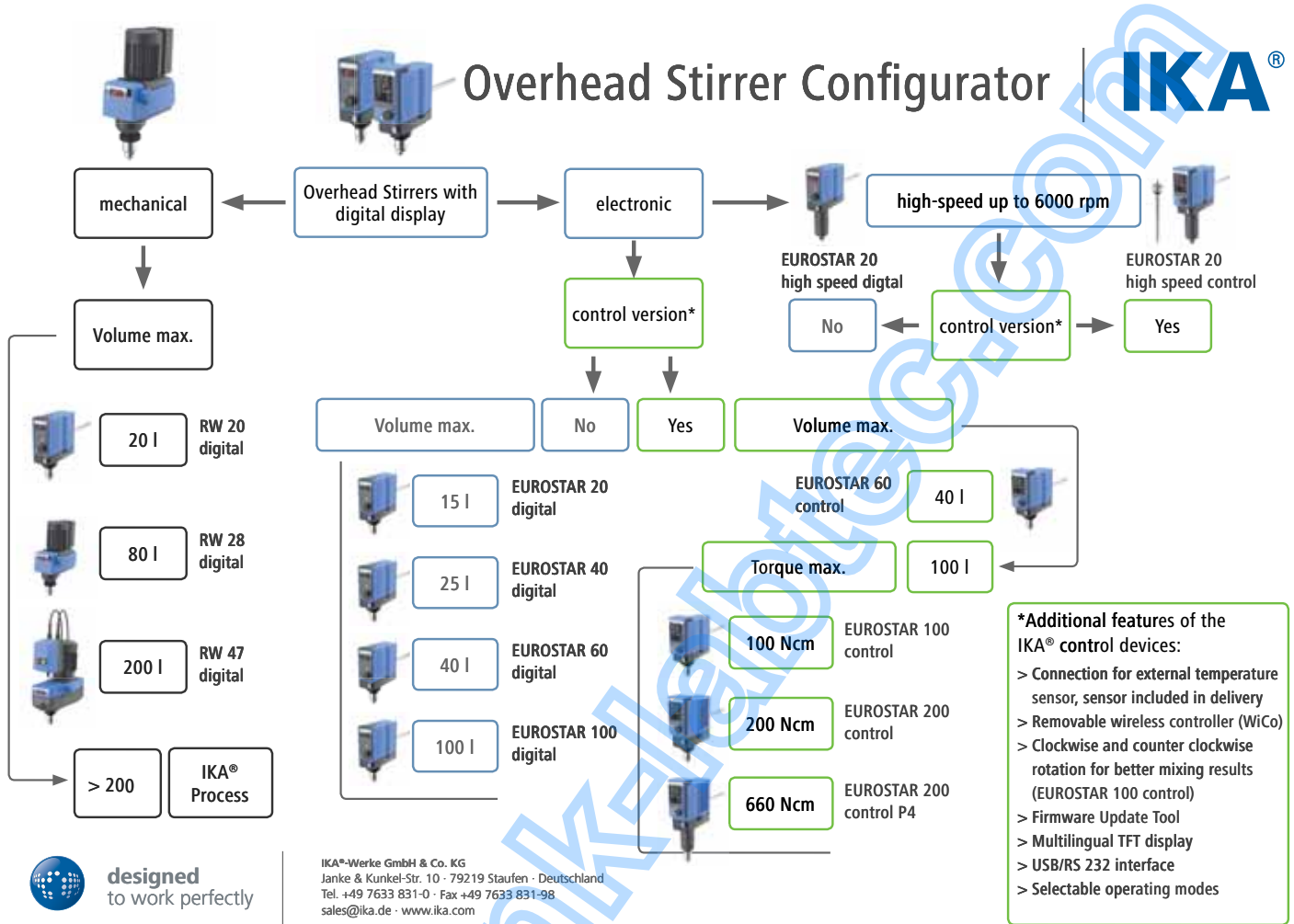


9.816 700



9.816 703

➔ Accessories for the IKA overhead stirrers please see page 449.



We can supply this
manufacturer's
whole
product range !



Overhead stirrer EUROSTAR 100 digital/100 control

Powerful laboratory stirrer for highly viscous applications and intensive mixing for quantities up to 100l (H₂O). It automatically adjusts the speed through microprocessor controlled technology within the speed range of 0/30 to 1300rpm. Safety circuits installed ensures automatic cut-off in an anti-stall or overload conditions. Continuous comparison of shaft speed to desired speed is maintained and variations are adjusted automatically. This guarantees a constant speed even with changes in viscosities of the sample.

IKA

EUROSTAR 100 digital:

- Digital speed display
- Infinitely adjustable speed
- Push-through agitator shafts
- Overload protection
- Short-term overload operation
- Slim casing
- Quiet operation
- Error code display

EUROSTAR 100 control additionally:

- Multilingual TFT display
- Detachable remote control
- Programmable functions
- Integrated temperature measurement
- Interval operation
- Reverse function
- Timer function
- Adjustable safety circuit
- Locked function

Specifications

Stirring quantity max. (H ₂ O):	100l
Max. viscosity:	70000mPas
Motor rating input/output:	186/136W
Speed range:	0/30 to 1300rpm
Max. torque at stirring shaft:	100Ncm
Display 100 digital:	LED
Display 100 control:	TFT
Chuck range:	0.5 to 10mm
Dimensions (WxDxH) 100 digital:	86 x 208 x 248mm
Dimensions (WxDxH) 100 control:	86 x 230 x 267mm
Protection class DIN EN 60529:	IP 40
Power supply:	230V, 50/60Hz
EUROSTAR 100 control only:	
Temperature measurement:	PT 1000
Temperature measuring range:	-10 to +350°C

Type	PK	Cat. No.
EUROSTAR 100 digital	1	9.816 706
EUROSTAR 100 digital S 2 UK	1	9.816 707
EUROSTAR 100 digital S 3 CH	1	9.816 708
EUROSTAR 100 control	1	9.816 709
EUROSTAR 100 control S 2 UK	1	9.816 710
EUROSTAR 100 control S 3 CH	1	9.816 711



9.816 706



9.816 709

Overhead stirrer EUROSTAR 200 digital/200 control

Extremely powerful laboratory stirrer for highly viscous applications and intensive mixing for quantities up to 100l (H₂O). It automatically adjusts the speed through microprocessor controlled technology within the speed range of 0/6 to 2000rpm (two speed ranges). Safety circuits installed ensures automatic cut-off in an anti-stall or overload conditions. Continuous comparison of shaft speed to desired speed is maintained and variations are adjusted automatically. This guarantees a constant speed even with changes in viscosities of the sample.

IKA

EUROSTAR 200 digital:

- Digital speed display
- Infinitely adjustable speed
- Push-through agitator shafts
- Overload protection
- Short-term overload operation
- Slim casing
- Quiet operation
- Error code display

EUROSTAR 200 control additionally:

- Multilingual TFT display
- Detachable remote control
- Programmable functions
- Integrated temperature measurement
- Interval operation
- Timer function
- Adjustable safety circuit
- Locked function

Specifications

Stirring quantity max. (H ₂ O):	100l
Max. viscosity:	100000mPas
Motor rating input/output:	130/84W
Speed range:	6 to 2000rpm
Speed range I (at 50/60 Hz):	6 to 400rpm
Speed range II (at 50/60 Hz):	30 to 2000rpm
Max. torque at stirring shaft:	200Ncm
Display 200 digital:	LED
Display 200 control:	TFT
Chuck range:	0.5 to 10mm
Dimensions (WxDxH) 200 digital:	91 x 209 x 274mm
Dimensions (WxDxH) 200 control:	91 x 231 x 274mm
Protection class DIN EN 60529:	IP 40
Power supply:	230V, 50/60Hz
EUROSTAR 200 control only:	
Temperature measurement:	PT 1000
Temperature measuring range:	-10 to +350°C

Type	PK	Cat. No.
EUROSTAR 200 digital	1	9.816 715
EUROSTAR 200 digital S 2 UK	1	9.816 716
EUROSTAR 200 digital S 3 CH	1	9.816 717
EUROSTAR 200 control	1	9.816 718
EUROSTAR 200 control S 2 UK	1	9.816 719
EUROSTAR 200 control S 3 CH	1	9.816 720



9.816 715



9.816 718

1


1 Overhead stirrer EUROSTAR 200 control P4

Extremely powerful laboratory stirrer for highly viscous applications for quantities up to 100l (H₂O). It is designed with a removable wireless controller and a digital TFT display. It automatically adjusts the speed through microprocessor controlled technology within the speed range of 0/4 to 530rpm (two speed ranges). The stirrer comes equipped with a RS 232 and a USB interface to control and document all parameters. An integrated torque trend display is provided for the measurement of viscosity changes. Safety circuits installed ensures automatic cut-off in an anti-stall or overload conditions. Continuous comparison of shaft speed to desired speed is maintained and variations are adjusted automatically. This guarantees a constant speed even with changes in viscosities of the sample.

IKA

- Multilingual TFT display
- Detachable remote control
- Programmable functions
- Integrated temperature measurement
- Interval operation
- Timer function
- Adjustable safety circuit
- Locked function
- Infinitely adjustable speed
- Overload protection
- Short-term overload operation
- Slim casing
- Quiet operation
- Error code display

Specifications

Stirring quantity max. (H ₂ O):	100l
Max. viscosity:	150000mPas
Motor rating input/output:	134/76W
Speed range:	0/4 to 530rpm
Speed range I (at 50/60 Hz):	0/4 to 110rpm
Speed range II (at 50/60 Hz):	0/16 to 530rpm
Max. torque at stirring shaft:	660Ncm
Display	TFT
Chuck range:	0.5 to 10mm
Dimensions (WxDxH)	91 x 231 x 379mm
Protection class DIN EN 60529:	IP 40
Power supply:	230V/50/60Hz

Type	PK	Cat. No.
EUROSTAR 200 control P4	1	9.816 712
EUROSTAR 200 control P4 S 2 UK	1	9.816 713
EUROSTAR 200 control P4 S 3 CH	1	9.816 714

2


2 Overhead stirrer RW 20 digital

- Technical improvements on the trusted RW20 series design, mechanically controlled
- with digital display
- robust, ergonomic design
- constant power-drive
- two speed ranges for universal use from 60rpm to 2000rpm
- hollow-shafted chuck for rotor shaft height adjustment (only when stationary)

IKA

Specifications

Stirring volume max. (H ₂ O):	20L
Viscosity range:	up to 10000mPas
Motor rating input/output:	70/35W
Output max. at stirring shaft:	26W
Max. stirring shaft torque (at 100rpm.):	150Ncm
Speed range I (at 50Hz):	60 to 500rpm.
Speed range II (at 50Hz):	240 to 2000rpm.
Chuck range:	0.5 to 10mm
Diameter/length of extension arm:	13mm/160mm
Dimensions (WxDxH)	88 x 212 x 294mm
Weight:	3.1kg
Protection class acc. to DIN EN 60529:	IP20
Supply requirements:	230V 50/60Hz
Tested to DIN EN IEC 61010-1.	

Type	PK	Cat. No.
RW 20 digital	1	9.816 622
RW 20 digital UK	1	6.227 717

Optional accessories: Stands: R 1825, R 1826, R 1827, R 182 Boss head, FK 1 Flexible coupling, RH 3 Strap clamp, R 301 Stirring shaft protection, Stirring elements: e.g. R 1342, R 1381

1 Overhead stirrer RW 28 digital

Powerful, mechanically controlled laboratory stirrer designed for highly viscous applications for quantities up to 80l (H₂O). It is suitable for intensive mixing for use in laboratories and pilot plants. The stirrer comes equipped with a protection for overheating of the motor by means of self-locking temperature limiter. Additionally, to secure bowls, a stirring shaft protection and clamping fixture are optionally available.

IKA

- Digital speed display
- Infinitely adjustable speed in two speed ranges
- Push-through agitator shafts
- Overload protection
- Error code display
- Robust, ergonomic design
- Quiet operation
- With constant power-drive

Specifications

Stirring quantity max. (H ₂ O):	80l
Max. viscosity:	50000mPas
Motor rating input/output:	220/90W
Speed range (at 50/60 Hz):	60 to 1400rpm/72 to 1680rpm
Speed range I (at 50/60 Hz):	60 to 400rpm/72 to 480rpm
Speed range II (at 50/60 Hz):	240 to 1400rpm/288 to 1680rpm
Max. torque at stirring shaft:	900Ncm
Display:	LED
Chuck range:	1 to 10mm
Dimensions (WxDxH):	123 x 252 x 364mm
Protection class DIN EN 60529:	IP 40
Power supply:	220-240V, 50/60Hz

Type	PK	Cat. No.
RW 28 digital	1	9.816 630
RW 28 digital S 2 UK	1	9.816 631
RW 28 digital S 3 CH	1	9.816 632

**2** Overhead stirrer RW 47 digital

Universal laboratory stirrer designed for simple stirring tasks for quantities up to 200l (H₂O). It automatically adjusts the speed through microprocessor controlled technology within the speed range of 0/30 to 2000rpm. Safety circuits installed ensures automatic cut-off in an anti-stall or overload conditions. Continuous comparison of shaft speed to desired speed is maintained and variations are adjusted automatically. This guarantees a constant speed even with changes in viscosities of the sample.

IKA

- Digital speed display
- Infinitely adjustable speed
- Push-through agitator shafts
- Overload protection
- Short-term overload operation
- Slim casing
- Quiet operation
- Error code display

Specifications

Stirring quantity max. (H ₂ O):	200l
Max. viscosity:	100000mPas
Motor rating input/output:	513/370W
Speed range:	57 to 1300rpm
Speed range I (at 50Hz):	57 to 275rpm
Speed range II (at 50Hz):	275 to 1300rpm
Max. torque at stirring shaft:	3000Ncm
Display:	LED
Chuck range:	3 to 16mm
Dimensions (WxDxH):	145 x 358 x 465mm
Protection class DIN EN 60529:	IP 54
Power supply:	3 x 400V, 50/60Hz

Type	PK	Cat. No.
RW 47 digital	1	9.816 633





1	1 Flexible clutch		
	Required for stirring tasks using glass stirring rods. The flexible coupling compensates for any structural variances.		<i>Buddeberg</i>
	Clamping range: 6 to 10mm Torque max. 10 Ncm		
	Type	PK	Cat. No.
	FK 1	1	9.197 060



6.240 637



7.632 676



6.231 539

Globe Stirrer Couplings, POM

Made of POM, a plastic material with a good mechanical strength, powerful transmission of up to 300Ncm, suitable for a speed of up to 1.200 rounds per minute, maximum misalignment of axes 10mm. Ideal for balancing misalignment of axes between agitator and stirrer shaft, suitable for glass, metal or PTFE stirrer shafts. Opening for stirrer shaft diameter 8 + 10mm. Upper diameter 10mm.

- very low centrifugal forces due to low weight
- suitable for both left and right-handed rotation (except for GL 10 thread: no left-handed rotation possible)
- no resonance
- simple assembly by means of screw joints with clamp rings
- pivot (length 90mm) can be shortened by the user

Opening for stirrer shaft	Top diam.	Overall length	PK	Cat. No.
mm	mm	mm		
Diam. 6.5 + 10	10	190	1	6.240 637
Diam. 8 + 10	10	190	1	7.632 676
Inner square SW6	SW8	180	1	6.231 539



5	5 Magnetic Stirrer Heads P-MRK		
	Ideal stirrer head for PTFE-jacketed stirrer shafts from BOLA. Consisting of capsuled drive shaft (stainless steel) with ball bearings, rotor and lower bearing made of PTFE/PEEK and a hollow shaft made of borosilicate glass. Requires little space due to compact construction. No leakage or memory effects due to non-porous, welded rotor. Compression fittings for safe fixing of stirrer shaft and optimum power transmission. Joint-Cone with nut (Safe-Lab) for easy locking and unlocking of the ground joint. Square size 6mm for accepting an agitator or a stirrer coupling. Insertion length of shaft 95mm. Drive shaft outside diameter 50mm.		<i>BOLA</i>
	<ul style="list-style-type: none"> - gastight stirrer head for perfect vacuum - stirrer shaft's height adjustable, approx. 40mm - also suitable for shortened stirrer shafts - powerful transmission of up to 90Ncm - excellent chemical resistance - all products which are exposed to the medium do not contain any metals - no grease required/save to run dry - high speed of up to max. 1.500rpm - drive shaft fixed for your safety - high durability - easy disassembly of all parts for cleaning 		

Joint size	For diam. stirring rod	Height	PK	Cat. No.
NS	mm	mm		
29/32	8	145	1	9.197 205
29/32	10	145	1	9.197 206
45/40	10	145	1	9.197 207

Stands for overhead stirrers

IKA

Type	Description	Rod diam.	Height	Max. load	PK	Cat. No.
		mm	mm	kg		
R 1825	Stand with baseplate	16	560	5	1	9.224 031 1
R 1826	Stand with baseplate	16	800	5	1	9.224 032
R 1827	Stand with baseplate	16	1000	5	1	9.224 033
R 2722	H-stand	34	1010	10	1	9.224 026 2
R 2723	Telescopic stand	34	620 - 1010	10	1	9.224 028
R 474	Telescopic stand	48	500 - 1000	30	1	9.816 735 3
R 472	Floor stand	80x80	980 - 1860	30	1	9.816 736 4

Further stands available on request.



9.224 031



9.224 026



9.816 735



9.816 736

Bossheds for overhead stirrers

IKA

Type	Jaw opening mm	PK	Cat. No.
R 182	Stand / extension arm: 6 to 16	1	9.224 292 5
R 270	Stand / extension arm: 25 to 36 / 5 to 21	1	9.224 293 6
R 271	Stand / extension arm: 34 / 16	1	9.224 266



9.224 292



9.224 293

Strap clamps for overhead stirrers

IKA

Type	Rod diam.	Vessel diam.	PK	Cat. No.
	mm	mm		
RH 3	8 to 16	40 to 300	1	9.224 761 7
RH 5*	25 to 36	40 to 300	1	9.224 762 8

*with R 270 bosshead



9.224 761



9.224 762





3 PLR compressed air laboratory stirrers up to 25 L for use in potentially explosive atmospheres, without/with tachometer

PLR compressed air laboratory stirrers are designed for all kinds of standard mixing tasks. The vane type, air-driven motor offers a high power density and is significantly lighter and smaller than an equivalent electric motor.

Buddeberg

General specifications:

- operating pressure max. 6 bar
- air consumption 260 L/min. at 6 bar
- power output 200W at 6 bar
- clockwise rotation
- ATEX certification in accordance with Directive 94/9 EG

Basic models include:

- all-stainless steel housing, grade 1.4305
- continuously adjustable speed control valve
- support arm diam. 14mm
- tubing nozzle connector diam. 9mm
- output shaft L x diam. 26 x 10mm



Type	Rating	Capacity max.	For fluid viscosity	Off-load speed	Load speed	Load torque	Torque	ATEX certification	PK	Cat. No.
	W	litres	mPa.	rpm.	rpm.	Nm	Nm			
PLR 10	200	3	1000	18000	8200	0.2	0.3	Ex II 2G c T4	1	9.778 950
PLR 11	200	20	50000	1800	900	1.8	3.5	Ex II 2G c T5	1	9.778 951
PLR 12	200	25	70000	870	480	3.1	5.3	Ex II 2G c T5	1	9.778 952
PLR 28	200	25	100000	580	296	5.8	10.4	Ex II 2G c T5	1	9.778 954
PLR 13	200	25	150000	80	60	12.0	19.8	Ex II 2G c T5	1	9.778 953
PLR 10T*	200	3	1000	18000	8200	0.2	0.3	Ex II 2G c T4	1	9.778 960
PLR 11T*	200	20	50000	1800	900	1.8	3.5	Ex II 2G c T5	1	9.778 961
PLR 12T*	200	25	70000	870	480	3.1	5.3	Ex II 2G c T5	1	9.778 962
PLR 28T*	200	25	100000	580	296	5.8	10.4	Ex II 2G c T5	1	9.778 964
PLR 13T*	200	25	150000	80	60	12.0	19.8	Ex II 2G c T5	1	9.778 963

* analogue tachometer

Compressed air powered stirrers, PLR, accessories

9.779 052: Chuck F8:

For quick, easy attachment of stirring rods. Not to be used in potentially explosive atmospheres.

Buddeberg

9.779 003: Connection couplings VK:

Fixed-diameter connection for motor/magnetic coupling drive shaft and stirring rod. Suitable for use in potentially explosive atmospheres.

9.198 010: Flexible glass stirring shaft couplings PK:

For stirring tasks using glass stirring rods. Elastic connector between motor and stirring shaft. Provides exact alignment of motor and shaft, and evens out axial and height differences. Accepts 6mm to 10mm diameter shafts.

9.779 013: Flexible glass stirring shaft couplings K:

For stirring tasks using glass stirring rods. Elastic connector between motor and stirring shaft. Provides exact alignment of motor and shaft, and evens out axial and height differences. Output drive accepts 6mm to 10mm diameter shafts, input shaft receiver fits 10mm or 10/13mm diameter drives, secured by allen screws.

9.779 065: Double-Cardan-Coupling DCK I:

With 8mm dia. hexagonal input drive receiver and 6mm square socket drive output.

Type	Description	Material No.	PK	Cat. No.
F 8	Chuck for shafts 0.5 to 8,5mm		1	9.779 052
VK 10 x 6	Connection coupling	1.4305	1	9.779 003
VK 10 x 8	Connection coupling	1.4305	1	9.779 005
VK 10 x 10	Connection coupling	1.4305	1	9.779 006
K 10	Flex coupling receiver i. d. 10mm		1	9.198 010
K 10/13	Flex coupling receiver i. d. 10/13mm		1	9.197 400
PK 10	Flex coupling receiver i. d. 10mm		1	9.779 013
PK 10/13	Flex coupling receiver i. d. 10/13mm		1	9.779 014
DCK I	Stainless steel, L = 110mm		1	9.779 065



Stands

Floor stand BS

with angled foot, side length 600 mm, rod diam. 34 mm.

Buddeberg

Wall bracket WS

Rod diam. 34 mm, clearance from wall: 200 mm.

Type	Description	Length mm	PK	Cat. No.
BS 1	Floor stand	1000	1	9.224 000
BS 2	Floor stand	1500	1	6.206 348
WS	Wall bracket	1000	1	6.225 791



3 Compressed air industrial stirrers BSR 64 with floor stand

NEW!
Buddeberg

BSR series stirrers perform routine mixing tasks up to 200l, mounted on a floor stand.

General specifications:

- operating pressure max. 6 bar
- air consumption 800l/min. at 6 bar
- power output 640W at 6 bar
- clockwise rotation
- ATEX certification in accordance with Directive 94/9 EG

Basic models include:

- all-stainless steel housing, grade 1.4305
- continuously adjustable speed control valve
- spherical clamping device with support arm diam. 16mm, length 200mm
- floor stand with rod (height 1000mm, width 600mm) and bosshead
- tubing nozzle connector diam. 9mm
- output shaft L 32mm x diam. 14mm

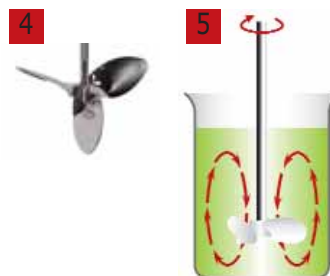
Type	Rating	Capacity max.	For fluid viscosity	Off-load speed	Load speed	Load torque	PK	Cat. No.
	W	litres	mPa.	rpm.	rpm.	Nm		
BSR64/160-V	640	200	20000	2600	1300	4.7	1	9.779 163
BSR64/65-V	640	200	50000	1300	650	9.4	1	9.779 164
BSR64/30-V	640	200	100000	580	290	21.0	1	9.779 165



4 5 Propeller stirring rotors, 3-blade, stainless steel 1.4305

The 3-blade propellers produce axial flow, and reduce shear forces to a minimum, even at high stirring speeds, thanks to their optimised blade design. Recommended for medium to high speed operations. Other sizes available on request.

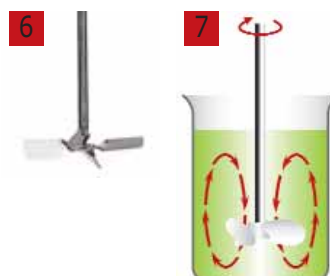
Ø agitator mm	Ø agitator shaft mm	Length mm	PK	Cat. No.
45	8	350	1	9.197 021
55	8	350	1	9.197 022
140	10	550	1	9.197 023
140	10	800	1	9.197 024



6 7 Diagonal blade stirring rotors, 4-blade, stainless steel 1.4305

The 4-blade diagonal blade stirring rotor provides axial flow and creates increasing shear forces at higher stirring speeds. Recommended for medium to high speed operations. Other sizes available on request.

Ø agitator mm	Ø agitator shaft mm	Length mm	PK	Cat. No.
50	8	350	1	9.197 006
100	8	350	1	9.197 009
100	10	550	1	9.779 320





1 2 Turbine stirring rotors, 3-blade with guide ring, stainless steel 1.4305

The 3-blade turbine stirring rotor produces radial flow; the guide ring surrounding the blades reduces shear forces, and offers protection when contacting the wall or bottom of the vessel. Recommended for medium to high speed operations.

Ø agitator mm	Ø agitator shaft mm	Length mm	PK	Cat. No.
30	8	350	1	9.197 030
50	8	350	1	9.197 031
70	10	400	1	9.197 032



3 Double blade stirring rotors, stainless steel 1.4305

The double blade rotor creates two counter-currents. Vortices are prevented. Recommended for medium to high speed operations. Other sizes available on request.

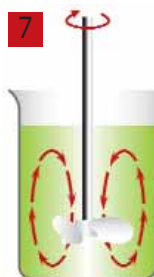
Ø agitator mm	Ø agitator shaft mm	Length mm	PK	Cat. No.
60	8	500	1	6.203 095
80	8	500	1	9.779 321



4 5 Dissolver stirring rotors, stainless steel 1.4305

The dissolver stirring rotor creates a radial flow with high turbulence. The mixture is drawn from top to bottom. High shear forces are created at the dissolver disk, which provides effective particle reduction. Recommended for medium to high speed operations.

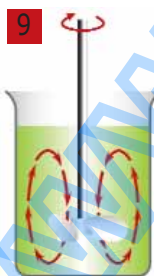
Ø agitator mm	Ø agitator shaft mm	Length mm	PK	Cat. No.
30	8	350	1	9.779 322
40	8	350	1	9.197 007
50	8	350	1	9.779 323
60	8	350	1	6.050 915
70	8	350	1	9.779 324
80	8	350	1	9.197 001
80	8	550	1	9.779 325
100	10	350	1	9.197 003



6 7 Centrifugal stirring rotors, 2-blade, stainless steel 1.4305

The folding blades of this 2-blade centrifugal stirring rotor open with increasing speed, allowing use with narrow-neck vessels. The stirring effect it provides is similar to a standard diagonal blade stirring rotor. Recommended for medium to high speed operations.

Ø agitator open / closed mm	Ø agitator shaft mm	Length mm	PK	Cat. No.
60/15	8	350	1	9.197 011
100/24	8	550	1	9.197 013



8 9 Moebius stirrer, stainless steel 1.4571 (NEW!)

Generates axial flow. For drawing the material to be mixed from above. For circulating and handling low to medium viscous liquids. Recommended for medium speed operations.

IKA

Type	Ø agitator mm	Ø agitator shaft mm	Length mm	PK	Cat. No.
R 3000.1	100	10	565	1	6.265 593
R 3001.1	100	10	575	1	6.265 594



10 11 Spiral stirrer, stainless steel 1.4571 (NEW!)

Generates axial flow. Medium is conveyed from the bottom upwards. For homogeneous mixing and heat exchange of medium to high viscosity media. Recommended for medium speed operations.

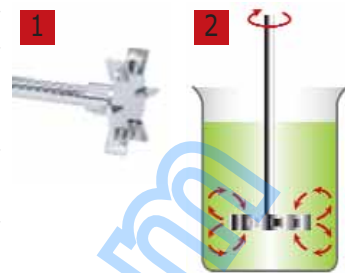
IKA

Type	Ø agitator mm	Ø agitator shaft mm	Length mm	PK	Cat. No.
R 3003	50	8	350	1	6.265 595
R 3003.1	100	10	550	1	6.265 596
R 3003.2	150	10	800	1	6.265 597

1 2 Blade stirrer, stainless steel 1.4571 (NEW)

Generates a radial flow. For drawing the material to be mixed from the top and bottom. For aerating of low viscosity media and for homogenizing solids in liquids. Used at medium to high speeds.

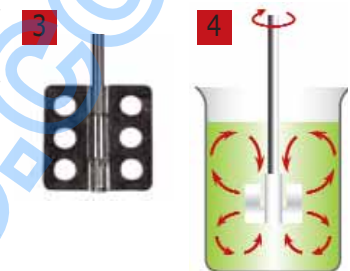
Type	Ø agitator mm	Ø agitator shaft mm	Length mm	PK	Cat. No.
R 3004	30	8	359	1	6.265 598
R 3004.1	50	10	565	1	6.265 599
R 3004.2	70	10	819	1	6.265 700



3 4 Paddle stirring rotors, 6 holes, stainless steel 1.4305

The paddle stirring rotor creates a tangential flow with minimum turbulence. Its design ensures a gentle action on sensitive products and good heat exchange. Recommended for low to medium speed operations. Other sizes available on request.

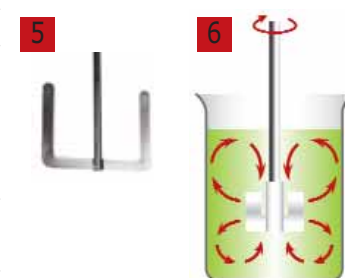
Ø agitator mm	Ø agitator shaft mm	Length mm	PK	Cat. No.
70	8	350	1	9.197 019
150	10	550	1	9.197 020



5 6 Anchor stirring rotors, stainless steel 1.4305

The anchor-shape rotor creates a tangential flow and high shear forces between the vessel wall and stirring blades. This stirrer is especially suitable for medium to high viscosity fluids. Recommended for low speed operations. Other sizes available on request.

Ø agitator mm	Ø agitator shaft mm	Length mm	PK	Cat. No.
45	8	350	1	9.197 033
80	8	350	1	9.779 326
90	8	350	1	9.197 034
100	8	550	1	6.238 672
150	10	550	1	9.197 036



7 8 BuddeMix Stirring System 1 - 4

This novel stirring system has been conceived to mix low viscosity fluids as well as highly viscous media at slow speeds. Its special design creates inherent dynamic currents to produce perfectly homogeneous mixing results in very little time. Additional components like baffles, bottom bearings, etc. are not needed.

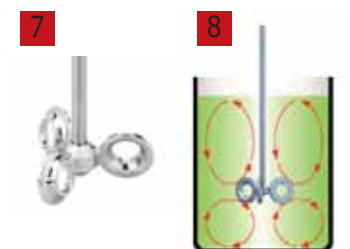
Advantages at a glance:

- suitable for low to highly viscous fluids
- stirs media containing solids and fibres without any difficulty
- gentle, low-shear stirring, due to slow stirring speed
- constant product temperature, with no heating effect
- short mixing times as the entire contents of the container are agitated
- no air addition, no foaming
- no baffles required
- low gear wear due to balanced forces
- minimal power consumption thanks to low speeds and short operation times
- easy cleaning
- material no. 1.4404

Particularly for potentially explosive atmospheres:

- a single stirring zone, near to the container base, ensures easy mixing of settled residues, e.g. in flow-through mixing containers
- no baffles required, thus no additional sources of ignition

Type	Ø agitator mm	Ø agitator shaft mm	Length mm	Material No.	PK	Cat. No.
BuddeMix 1	60	8	350	1.4404	1	9.779 331
BuddeMix 2	80	8	350	1.4404	1	9.779 332
BuddeMix 3	120	10	550	1.4404	1	9.779 333
BuddeMix 4	150	10	850	1.4404	1	9.779 334



Stirring rotors made of PTFE

Interesting facts about PTFE stirrers:

The stirrer shafts consist of a PTFE-jacketed, stainless steel shaft and a stirrer paddle made of solid PTFE. The stainless steel core assures stability of the stirrer shaft and allows safe attachment of the stirrer chuck. Thanks to the thick PTFE coat and the paddle made of solid PTFE, the medium will only come into contact with PTFE. High chemical resistance makes it almost universally suitable. PTFE is extremely nonstick so that residues are repelled from shaft and paddle. The stirrer shafts are similar in size to (KPG) glass stirring rods and are therefore interchangeable easily.

Operating temperature: -200°C to +250°C

Additional sizes and accessories are available on request.

Information on the mixing effects of the different stirring geometries can be found in the descriptions of the stainless steel stirring rotors.



9.197 194

Propeller, 3 blades, PTFE

The blades are inclined at 45°. Recommended for medium to high speed operations.

Ø agitator	Ø agitator shaft	To fit chuck diam.	Length	Blades	PK	Cat. No.
mm	mm	mm	mm			
50	6	4.7	450	angular	1	9.197 138
75	8	6.5	350	angular	1	9.197 130
75	10	8.0	450	angular	1	9.197 140
75	10	8.0	800	angular	1	9.197 149
140	10	8.0	600	round	1	9.197 194
140	10	8.0	800	round	1	9.197 195
200	16	14.0	1000	round	1	6.244 067



2 Crescent-shaped stirring rotors, PTFE

The semi-circular shape of the paddle is ideal for mixing in round-bottom flasks. The pivoting blade allows insertion into vessels with narrow necks and/or ground joints.

BOLA

Ø agitator	Ø agitator shaft	To fit chuck diam.	Length	PK	Cat. No.
mm	mm	mm	mm		
65	8	6.5	350	1	9.197 121
90	8	6.5	450	1	9.197 122
90	10	8.0	350	1	9.197 127
90	10	8.0	450	1	9.197 124
90	10	8.0	510	1	9.197 128
90	10	8.0	600	1	9.197 125
125	16	14.0	800	1	9.197 126



3 Anchor stirrer, PTFE

Recommended for low speed operations.

Ø agitator	Ø agitator shaft	To fit chuck diam.	Length	PK	Cat. No.
mm	mm	mm	mm		
60	8	6.5	350	1	9.197 144
100	8	6.5	600	1	9.197 145
80	10	8.0	350	1	9.197 146
100	10	8.0	600	1	9.197 147

Additional wings available on request

4 5 6 7 Additional wings available on request



1 Overhead stirrer rotors, centrifugal paddle, PTFE (NEW!)

With PTFE-coated, stainless steel shaft.

Length	Shaft diam.	To fit chuck diam.	Ø Paddle	PK	Cat. No.
mm	mm	mm	mm		
350	6	4.7	50	1	9.197 176
450	8	6.5	90	1	9.197 177
350	10	8.0	90	1	9.197 178
450	10	8.0	90	1	9.197 179



2 Propeller stirring rotors, PP/PE

PP propeller, stirring shaft PE-coated. Good operating characteristics thanks to the steel core of the stirring shaft. Highly resistant to breakage and reduced scratching effect when contacting the vessel wall.

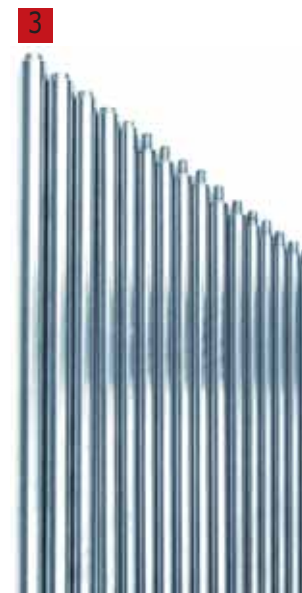
Ø agitator	Ø agitator shaft	Length	PK	Cat. No.
mm	mm	mm		
45	6	380	1	9.197 101



3 Rods for stirrer rotor shafts, M6 and 2 M10 screwthread end

Stainless steel 1.4301. With screwthread fitting as outlined below. For subsequent stirrer heads.

Description	Diam. mm	Length mm	PK	Cat. No.
Rod, screwthread M 6	6	150	1	9.156 100
Rod, screwthread M 6	6	300	1	9.156 101
Rod, screwthread M 6	6	350	1	9.156 102
Rod, screwthread M 6	6	400	1	9.156 103
Rod, screwthread M 6	6	450	1	9.156 104
Rod, screwthread M 6	6	500	1	9.156 105
Rod, screwthread M 6	6	600	1	9.156 106
Rod, screwthread M 6	6	700	1	9.156 107
Rod, screwthread M 6	6	800	1	9.156 108
Rod, screwthread M 10	10	550	1	9.156 129
Rod, screwthread M 10	10	750	1	9.156 130
Rod, screwthread M 10	10	1000	1	9.156 131
Rod, screwthread M 10	10	1300	1	9.156 132
Rod, screwthread M 10	12	550	1	9.156 133
Rod, screwthread M 10	12	750	1	9.156 134
Rod, screwthread M 10	12	800	1	9.156 135
Rod, screwthread M 10	12	1000	1	9.156 136
Rod, screwthread M 10	12	1300	1	9.156 137
Rod, screwthread M 10	12	1500	1	9.156 138



4 Paddles, 2 blade propeller

For stirrer rotors with M6 thread. Stainless steel 1.4301.

Type	Blade mm	PK	Cat. No.
2 blades, M6	50	1	9.156 164
2 blades, M6	70	1	9.156 165
2 blades, M6	100	1	9.156 166
2 blades, 90° offset, M6	50	1	9.156 167
2 blades, 90° offset, M6	70	1	9.156 168
2 blades, 90° offset, M6	100	1	9.156 169



5 Paddles, 3 blade propeller.

Stainless steel 1.4301. With screwthread fitting as outlined below.

Type	Blade mm	PK	Cat. No.
3 blades, M6 thread	50	1	9.156 170
3 blades, M6 thread	70	1	9.156 171
3 blades, M6 thread	100	1	9.156 172
3 blades, M6 thread	140	1	9.156 173
3 blades, M10 thread	140	1	9.156 148





1 Paddles, 4 blade propeller

Stainless steel 1.4301. With screwthread shaft connection as outlined below.

Description	Blade mm	PK	Cat. No.
4 blades, M6 thread	70	1	9.156 175
4 blades, M6 thread	100	1	9.156 176
4 blades, M6 thread	150	1	9.156 177
4 blades, M10 thread	150	1	9.156 142
4 blades, 90° offset, M6 thread	50	1	9.156 178
4 blades, 90° offset, M6 thread	70	1	9.156 179
4 blades, 90° offset, M6 thread	100	1	9.156 180



2 Paddles, flask with holes

Stainless steel 1.4301. With screwthread fitting as outlined below.

Description	Blade mm	PK	Cat. No.
6 hole, M6 thread	70 x 70	1	9.156 186
10 hole, M6 thread	70 x 100	1	9.156 187
14 hole, M6 thread	70 x 150	1	9.156 188



3 Centrifugal stirrer heads

Stainless steel 1.4301. With screwthread fitting as outlined below.

Type	Blade mm	PK	Cat. No.
2 blade, M6 thread	60	1	9.156 182
2 blade, M6 thread	90	1	9.156 183
2 blade, M6 thread	100	1	9.156 184



Shakers overview

Movement	Load capacity (kg)	Rotation speed (rpm)	Orbit (mm)	Variable speed range	IP class	Product	Cat. No.	Page
orbital, vibrating	0	750-3000	2	Yes	5-40°C / IP 20	Vortex PV-1, Grant	9.721 000	459
orbital, vibrating	0	500-2850	4	Yes	-	Genie®-S 2 digital, Scientific Ind.	6.242 793	460
orbital, vibrating	0	600-2700	4	Yes	-	Genie®-S 2, Scientific Ind.	9.730 060	460
orbital, vibrating	0.1	2800	4.5	No	IP 40	Lab dancer, IKA	9.729 936	459
orbital, vibrating	0.1	1000-2800	4.5	Yes	IP 21	Vortex 1, IKA	9.729 931	460
orbital, vibrating	0.4	500-2500	4	Yes	IP 21	Vortex 3, IKA	9.729 950	461
orbital, vibrating	0.5	0-3000	4.5	Yes	IP 21	MS 3 digital, IKA	9.729 939	462
orbital, vibrating	0.5	0-3000	4.5	Yes	IP 21	MS 3 basic, IKA	9.729 938	462
orbital, vibrating	0.5	0-3000	4.5	Yes	IP 21	Vortex 4 basic, IKA	9.729 932	460
orbital, vibrating	0.5	0-3000	4.5	Yes	IP 21	Vortex 4 digital, IKA	9.729 933	460
orbital, vibrating	0.5	0-4500	4.5	Yes	5-40°C / IP 43	LLG-uniTEXER, LLG Labware	6.261 826	458
orbital, vibrating	0.5	1000, 2000, 3000	3.7	Yes	2-40°C / IP 20	LLG-uniTEXER 1, LLG Labware	6.263 490	459
orbital, vibrating	1.5	200-1000	4	Yes	-	Multi Vortex Genie, Scientific Ind.	9.730 090	464
orbital, vibrating	2	0-2200	4	Yes	IP 21	VXR basic, IKA	9.729 900	463
orbital, vibrating	8	20-250	20	Yes	4-40°C / IP 20	PSU-20i, Grant	6.256 816	467
orbital	0.2	0-1100	3	Yes	IP 21	MTS 2/4 digital, IKA	9.838 195	1296
orbital	1	150-1000	2	Yes	4-40°C / IP 20	PMS-1000i, Grant	9.721 074	1295
orbital	2	80-800	4	Yes	IP 21	KS 130 basic, IKA	9.838 150	474
orbital	2.5	100-800	4	Yes	IP 21	RS-OS 10, Phoenix Instr.	9.852 120	469
orbital	3	50-450	10	Yes	4-40°C / IP 20	PSU-10i, Grant	9.721 019	466
orbital	3	30-300	16	Yes	5-40°C / IP 31	SSM1, Stuart	9.728 830	466
orbital	4.5	20-300	19.2	Yes	-	Sea Star®, Heathrow	9.839 701	468
orbital	7.5	100-500	10	Yes	IP 21	RS-OS 20, Phoenix Instr.	9.852 121	469
orbital	7.5	10-500	10	Yes	IP 21	KS 260 control, IKA	9.838 175	475
orbital	7.5	20-500	10	Yes	IP 21	KS 260 basic, IKA	9.838 074	475
orbital	8	20-500	10	Yes	IP 20	Typ 3005, GFL	9.837 905	470
orbital	10	50-400	10	Yes	IP 21	MO10, Hettich Benelux	9.777 253	467
orbital	10	30-300	16	Yes	5-40°C / IP 31	SSL1, Stuart	9.728 840	469
orbital	15	20-300	30	Yes	IP 20	Typ 3015, GFL	9.837 915	471
orbital	15	20-300	30	Yes	IP 20	Typ 3017, GFL	9.837 917	471
orbital	15	0-300	30	Yes	IP 21	KS 501 digital, IKA	9.838 040	475
orbital	25	50-500	25	Yes	IP 21	LLG-uniSHAKER 25, LLG Labware	6.263 590	465
orbital	30	20-250	32	Yes	IP 20	Typ 3019, GFL	9.837 919	471
orbital	30	20-250	32	Yes	IP 20	Typ 3020, GFL	9.837 920	471
reciprocating	2.5	100-350	4	Yes	IP 21	RS-LS 10, Phoenix Instr.	9.852 122	469
reciprocating	7.5	100-350	10	Yes	IP 21	RS-LS 20, Phoenix Instr.	9.852 123	469
reciprocating	7.5	10-300	20	Yes	IP 21	HS 260 control, IKA	9.838 185	479
reciprocating	7.5	20-300	20	Yes	IP 21	HS 260 basic, IKA	9.838 063	479
reciprocating	8	20-300	20	Yes	IP 20	Typ 3006, GFL	9.837 906	478
reciprocating	10	25-250	20	Yes	5-40°C / IP 31	SSL2, Stuart	9.728 841	469
reciprocating	15	20-300	30	Yes	IP 20	Typ 3016, GFL	9.837 916	478
reciprocating	15	20-300	30	Yes	IP 20	Typ 3018, GFL	9.837 918	478
reciprocating	15	0-300	30	Yes	IP 21	HS 501 digital, IKA	9.838 041	475
3D 7° and rotation	1	5-30	22	Yes	4-40°C / IP 20	PS-M3D, Grant	9.721 017	484
wave, 0-15°	2	5-80	-	Yes	4-50°C / IP 21	Rocker 3D digital, IKA	9.729 987	485
wave, 3°	15	2-50	-	Yes	IP 20	Typ 3011, GFL	9.837 911	486
wave, 3°	15	2-50	-	Yes	IP 20	Typ 3012, GFL	9.837 912	486
wave, 3°-12°	3	5-70	-	Yes	5-40°C / IP 30	SSM3, Stuart	9.728 820	468
wave, 3°-12°	10	5-70	-	Yes	5-40°C / IP 30	SSL3, Stuart	9.728 800	482
wave, 4°	5	5-50	-	Yes	IP 21	3DL 05, Hettich Benelux	9.777 293	484
wave, 7°	0.5	10-30	-	Yes	4-40°C / IP 20	PS-3D, Grant	9.721 014	483
wave, 8°	2	30	-	No	4-50°C / IP 21	Rocker 3D basic, IKA	9.729 986	485
wave, 8°	5	5-50	-	Yes	IP 21	3D, Hettich Benelux	9.777 250	484
overhead	0	6-80	-	Yes	IP 20	Typ 3025, GFL	9.837 925	489
overhead	0.4	5-30	-	Yes	4-40°C / IP 20	PTR-25, Grant	9.721 016	488
rocking, 0-15°	2	5-80	-	Yes	4-50°C / IP 21	Rocker 2D digital, IKA	9.729 985	482
rocking, 0-10°	5	5-50	-	Yes	4-40°C / IP 20	PMR-100, Grant	9.721 015	481
rocking, 3°	15	2-50	-	Yes	IP 20	Typ 3014, GFL	9.837 914	483
rocking, 3°	15	2-50	-	Yes	IP 20	Typ 3013, GFL	9.837 913	483
rocking, 7°	0.5	7,5-30	-	Yes	4-40°C / IP 20	PMR-30, Grant	9.721 011	484
rocking, 7°	3	5-70	-	Yes	5-40°C / IP 30	SSM4, Stuart	9.728 821	468
rocking, 7°	10	5-70	-	Yes	5-40°C / IP 30	SSL4, Stuart	9.728 801	482
rocking, 8°	2	5-80	-	Yes	4-50°C / IP 21	Rocker 2D basic, IKA	9.729 984	482
overhead	0.5	10-100	-	Yes	4-40°C / IP 20	PTR-35, Grant	9.721 028	488
overhead	0.8	10-100	-	Yes	4-40°C / IP 20	PTR-60, Grant	9.721 030	488
overhead	2	20	-	No	4-50°C / IP 21	Trayster analog, IKA	9.837 870	489
overhead	2	5-80	-	Yes	4-50°C / IP 21	Trayster digital, IKA	9.837 871	489
overhead	2	20	-	No	4-50°C / IP 21	Loopster basic, IKA	9.729 982	492
overhead	2	5-80	-	Yes	4-50°C / IP 21	Loopster digital, IKA	9.729 983	492
overhead	2.3	5-35	-	Yes	-	Rotator Genie™, Scientific Ind.	6.254 273	487
overhead	8	6-60	-	Yes	IP 31	STR4, Stuart	9.950 375	490
overhead	20	1-20	-	Yes	IP 20	Typ 3040, GFL	9.837 931	490
arc	3	8 - 800 Osz.	-	Yes	IP 31	SF1, Stuart	9.950 372	480
rolling	2	30	24.5	No	4-50°C / IP 21	Roller 6 analog, IKA	9.729 970	493
rolling	2	5-80	24.5	Yes	4-50°C / IP 21	Roller 6 digital, IKA	9.729 971	493
rolling	2	30	24.5	No	4-50°C / IP 21	Roller 10 analog, IKA	9.729 972	493
rolling	2	5-80	24.5	Yes	4-50°C / IP 21	Roller 10 digital, IKA	9.729 973	493
rolling	4	10-70	17	Yes	4-40°C / IP 21	RS-TR 5, Phoenix Instr.	9.852 140	492
rolling	4	0-70	17	Yes	4-40°C / IP 21	RS-TR 10, Phoenix Instr.	9.852 143	492
rolling	5	33	16	No	4-60°C / IP 20	SRT6, analog, Stuart	9.728 810	493
rolling	5	5-60	16	Yes	4-60°C / IP 20	SRT6D, digital, Stuart	9.728 811	493
rolling	5	33	16	No	4-60°C / IP 20	SRT9, analog, Stuart	9.728 812	493
rolling	5	5-60	16	Yes	4-60°C / IP 20	SRT9D, digital, Stuart	9.728 813	493

1 2 3 LLG-Vortexer uniTEXER with universal attachment



One head - multiple uses

Vortexer with single carrier head, accommodating the most popular consumables and tubes: for 1 x assay plate, 2 x 50ml conical tubes, 2 x 15ml conical tubes, 2 x 5 ml conical tubes, 4 x 1.5/2ml microcentrifuge tubes, 6 x 0.5ml and 24 x 0.2ml microcentrifuge tubes.

- Carrier head is very easy to clean
- Precise speed control via a variable rotary switch
- Elastomeric feet ensure excellent stability on the bench and quieter operation
- Modern design
- Robust, ABS housing
- 3 years warranty

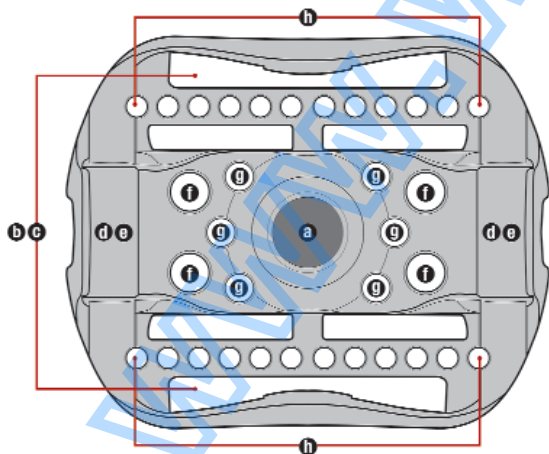
Specifications

Type of movement:	orbital/vortex
Orbital diameter:	3.7mm
Speed:	1000, 2000 und 3000rpm
Dimensions (WxDxH):	173 x 198 x 198mm
Weight:	3.8kg
Protection class:	IP 20
Supply requirements:	220 V, 50/60 Hz
Guarantee:	3 years

Type	PK	Cat. No.
LLG-uniTEXER	1	6.261 826



Mixing head with multiple loading possibilities



- a Center pad area for hand held mixing
- b Assay plate x 1 (to be used with retention cords)
- c 50 ml conical tubes x 2 (horizontally mounted)
- d 15 ml conical tubes x 2 (horizontally mounted)
- e 5 ml tubes x 2 (horizontally mounted in the same retention space as 15 ml)
- f 1.5/2 ml microfuge tubes x 4 (vertically mounted)
- g 0.5 ml microfuge tubes x 6 (vertically mounted)
- h 0.2 ml microfuge tubes (strip tubes) x 24 (vertically mounted)

1 LLG-Test tube shaker uniTEXER 1

NEW!

Compact test tube shaker with brushless motor drive and touch function. Adjustable speed control up to 4500rpm for excellent mixing results in a very short time. Especially for small volumes. 3 years warranty.

Specifications

Type of movement:	orbital/circular motion
Orbit:	4.5mm
Speed range:	0 to 4500rpm
Permissible ambient temperature:	5 to 40°C
Permissible relative moisture:	<80%
Dimensions (WxDxH):	100 x 100 x 70mm
Weight:	0.55kg
Power supply:	100 - 240V, 50/60Hz
Protection class:	IP 43
Guarantee:	3 years



Type	PK	Cat. No.
uniTEXER 1 with EU-plug	1	6.263 490
uniTEXER 1 with UK-plug	1	6.263 491

2 Vortex mixer PV-1

With low profile and small footprint for gentle mixing to vigorous re-suspension of cell or chemical pellets.

Grant

- variable speed: 750rpm to 3000rpm
- continuous or touch operation
- for tubes up to 30mm diameter

Specifications

Speed range:	750 to 3000rpm
Dimensions (WxDxH):	90 x 150 x 80mm
Temperature range:	4 to 40°C

Type	PK	Cat. No.
PV-1	1	9.721 000



3 Test tube shaker, lab dancer

Inexpensive, compact, attractively designed, test tube vortex shaker. Designed for mixing small test samples by touch function.

IKA

- Small, compact and reliable
- For small containers up to 30mm in diameter, e.g. test tubes, centrifuge tubes, Eppendorf tubes
- Fixed speed (2800rpm)
- Excellent mixing
- Top of housing and the test tube accessories are made from chemically inert plastic. The bottom section is a coated, zinc die-casting.
- Includes lightweight 12V mains adapter

Specifications

Mixing:	orbital/vortex
Orbit:	4.5mm
Capacity, volume:	1 tube, max. 50ml
Motor rating input/output:	1.2/0.8W
Speed:	2800rpm (fixed)
Dimensions (Diam. x H):	100 x 70mm
Weight:	550g
Material housing:	PP
Material attachment:	TPU
Material base:	Zinc, coated
Enclosure according to DIN EN 60529:	IP40
Supply requirements:	100-240V 50/60 Hz
Tested to DIN EN IEC 61010-1.	



Type	PK	Cat. No.
lab dancer EU/CH	1	9.729 936
lab dancer UK	1	4.008 065

1


1 Shaker VORTEX 1

New test tube shaker with infinitely adjustable speed range. Specially for mixing small sample volumes with touch function.

IKA

Specifications

Type of movement:	orbital/vortex
Orbital diameter:	4.5mm
Max. shaken quantity (1 test tube)	100ml
Motor rating input/output:	1.2/0.8W
Speed range:	1000 to 2800rpm
Dimensions (W x H x D):	95 x 110 x 70mm
Weight:	0.55kg
Enclosure according to DIN EN 60529:	IP 40

Type	PK	Cat. No.
VORTEX 1	1	9.729 931

2


9.729 932

Shaker VORTEX 4 basic/digital

Compact, universal small shaker suitable for shaking tasks with small vessels and microtiter plates

IKA

Specifications

Type of movement:	orbital/vortex
Orbital diameter:	4.5mm
Max. permitted shaking weight (incl. attachment)	0.5kg
Motor rating input/output:	10/8W
Speed range:	0 to 3000rpm
Timer:	only for VORTEX 4 digital (1 sec. - 999 min)
Dimensions (W x H x D):	176 x 190 x 63mm
Weight:	3.0kg
Enclosure according to DIN EN 60529:	IP 21

Type	PK	Cat. No.
VORTEX 4 basic	1	9.729 932 2
VORTEX 4 digital	1	9.729 933 3

3


9.729 933

4


4 Vortex-Genie®-series



Robust and reliable shakers for speedy mixing and shaking of samples. Multiple accessories: e.g. adapter tops for test tubes, beakers, centrifuge tubes etc. Adapter tops can be changed easily with the snap fit system.

Scientific Industries

Vortex-Genie® 2

Variable speed for precise mixing from gentle to vigorous. Broad range of attachments for most tubes, plates and other containers. Hands-Free or Touch On control.

Vortex-Genie® 2T with an integrated timer

Timer function: (Touch On) 1-60 seconds, (Hands-Free) 1-60 minutes or continuous. Unit automatically stops at the end of user programmed time.

Digital Vortex-Genie® 2 with digital control and display of speed and time

Digital display provides accuracy, reproducibility and repeatability. Timer function: (Touch On) 1-99 seconds, (Hands-Free) 1-99 minutes or continuous. Specially configured unit for Applied Biosystems protocol available.

Specifications

Shaking movement:	circular
Speed display/Timer:	Scale/No/Scale/Scale/Digital/Digital
Speed range:	600 - 2700rpm/600 - 2700rpm/500 - 2850rpm
Timer	
Interval operation:	-/1 to 60s/1 to 99s
Hands-free mode:	-/1 to 60min/1 to 99min
Dimensions (L x W x H):	165 x 122 x 165mm
Permissible ambient conditions:	0 to 38°C at 95% rh
Weight:	4kg
Power supply:	230V, 50/60Hz

Vortex-Genie® 2/Vortex-Genie® 2T/Digital Vortex-Genie® 2

Type	Connector	PK	Cat. No.
Vortex Genie® 2	EU	1	9.730 060
Vortex Genie® 2	UK	1	6.251 939
Vortex Genie® 2	CH	1	6.235 684
Vortex-Genie® 2T	EU	1	6.252 823
Vortex-Genie® 2T	UK	1	6.252 946
Vortex-Genie® 2T	CH	1	9.730 121
Digital Vortex-Genie® 2	EU	1	6.242 793
Digital Vortex-Genie® 2	UK	1	9.730 120
Digital Vortex-Genie® 2	CH	1	6.240 599

Accessories for Vortex-Genie®-series



Scientific Industries

Description	PK	Cat. No.
Standard shaking attachment, diam. 25 mm	1	9.730 051
Microtube holder for 12 x 1.5 or 2.0ml tubes	1	6.253 281
TurboMix® attachment	1	7.400 045
Recessed platform	1	7.301 382
Elastic bands for recessed platform	2	6.235 226
Foam inserts for 9-16mm tubes, for recessed platform	2	7.510 295
Foam inserts for 14-29mm tubes, for recessed platform	2	7.510 296
Foam inserts, blank, for recessed platform	2	7.981 175
Platform (diam. 150mm)	1	7.091 220
Foam inserts for microtubes, for platform (diam. 150mm)	2	6.252 944
Foam inserts for microplates, for platform (diam. 150mm)	1	9.730 058
Platform (diam. 75mm) with rubber cover	1	6.254 016
Spare rubber cover (diam. 75mm)	1	9.730 053
Attachment, horizontal, for 2 large ampoules	1	6.203 006
Attachment, horizontal, for 24 microtubes	1	6.252 814
Attachment, horizontal, for 12 x 15ml tubes	1	1.970 740
Attachment, vertical, for 6 x 50ml tubes	1	6.252 942
Attachment, vertical, for 24 microtubes	1	6.257 992
Attachment, vertical, for 6 x 50ml, 6 x 15ml and 12 x microtubes	1	7.930 215
High speed attachment, vertical, for 3 x 50ml tubes	1	6.259 054
Starter Set incl. one foam insert for microtubes and microplates each	1	6.254 476
Starter Set incl. recessed platform and 4 different foam inserts	1	6.256 952

1



6.259 054

2



7.301 382

3



7.510 296

4



6.252 944

5



6.252 814

6 Shaker Vortex Genius 3

- Vortex shaker suitable for intermittent operation (touch function), activated by pressing shaker attachment, or for continuous operation.
- Wide speed range, infinitely adjustable
 - Versatile, due to 3 accessory interchangeable attachments and 7 inserts (e.g. Eppendorf tubes, microtitre plates, 250ml Erlenmeyer flasks etc.), please order separately
 - Attachments securely click onto shaker in any position
 - Strap clamp (VG3.36) ensures easy holding of round/Erlenmeyer flasks
 - Sturdy, die cast zinc casing
 - Stable at high speeds due to special feet (silicone base with ultra-high vibration damping)
 - Eccentric drive with ball bearings
 - Self-ventilated motor allows continuous operation with minimal warm-up of the housing

Supplied with standard attachment.

Specifications

Type of movement:	orbital/vortex
Orbital diameter:	4mm
Motor rating input/output:	58/10W
Speed range:	500rpm to 2500rpm
Speed indication:	scale 0 to 6
Dimensions (WxDxH):	127 x 149 x 136mm
Weight:	4.5kg
Protection class acc. to DIN EN 60529:	IP 21
Supply requirements:	230V 50/60 Hz
Tested to DIN EN IEC 61010-1.	

Type	PK	Cat. No.
VORTEX Genius 3 EU	1	9.729 950
VORTEX Genius 3 CH	1	4.008 062
VORTEX Genius 3 UK	1	4.008 061

6



Accessories for shaker Vortex Genius 3

IKA

Type	Description	PK	Cat. No.
VG 3.1	Standard attachment, for test tubes, small vessels*	1	9.729 954
VG 3.2	One-hand attachment 88mm, rubber inlet	1	9.729 955
VG 3.3	Standard tray 150mm, rubber inlet	1	9.729 951
VG 3.31	Insert for 54 Eppendorf tubes	1	9.729 956
VG 3.32	Insert for 18 x 10mm diameter test tubes	1	9.729 957
VG 3.33	Insert for 12 x 12mm diameter test tubes	1	9.729 958
VG 3.34	Insert for 8 x 16mm diameter test tubes	1	9.729 959
VG 3.35	Insert for 8 x 20mm diameter test tubes	1	9.729 952
VG 3.36	Attachment for Erlenmeyer and round vessels 100 to 250ml	1	9.729 953
VG 3.37	Holder for 1 standard microtitre plate	1	9.729 960

*included in delivery

1



9.729 951

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9.729 952

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9.729 953

4



9.729 938

Shaker MS3 basic/digital

Compact, universal small shaker suitable for shaking tasks with all small vessels and microtitre plates.

IKA

- Continuous or touch operation (with standard attachment)
- Two operating modes available:

Mode A (safe mode with attachment detection)

the maximum speed of 3000rpm is only attained with the standard attachment in touch mode. When using other attachments the speed is limited to 1300rpm.

Mode B (without attachment detection)

a speed of 3000rpm is possible with all attachments.

- Stable in all speed ranges
- Sturdy, zinc, die-cast casing

MS 3 digital additionally with countdown function timer (1sec to 999min).

Items supplied with MS3 basic + digital:

Standard attachment, universal attachment, one-hand insert

Additional items supplied with MS3 digital:

Microtitre plate attachment, test tube insert with 6 holes for 12mm diameter tubes

5



9.729 939

Specifications:

Type of movement:	orbital
Orbit:	4.5mm
Max. permitted shaking weight (incl. attachment):	0.5kg
Motor rating input/output:	10/8W
Speed display:	Scale
Speed range:	0 to 3000rpm
Dimensions (WxDxH):	148 x 205 x 63mm
Weight:	2.9kg
Protection class acc. to DIN EN 60529	IP21
Supply requirements:	100-240V 50/60Hz
Tested to DIN EN IEC 61010-1.	

Type	Operating mode	PK	Cat. No.
MS 3 basic EU/UK/CH/US	Continuous mode and touch operation	1	9.729 938
MS 3 digital EU/UK/CH/US	Timer and continuous mode, touch operation	1	9.729 939

Accessories for Shaker MS 3

IKA

Type	Description	PK	Cat. No.
MS 3.1	Standard attachment	1	9.729 942 1
MS 3.3	Universal attachment	1	9.729 944 2
MS 3.4	Microtitre plate attachment	1	9.729 943 3
MS 3.5	PCR attachment	1	6.237 469 4
MS 1.21	One-hand insert	1	9.729 945 5
MS 1.31	Test tube insert, with 14 holes for tubes diameter 10mm	1	9.729 946
MS 1.32	Test tube insert, with 6 holes for tubes diameter 12mm	1	9.729 947
MS 1.33	Test tube insert, with 4 holes for tubes diameter 16mm	1	9.729 948
MS 1.34	Test tube insert, plain, for user to drill	1	9.729 949

1



9.729 942

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9.729 944

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9.729 943

4



6.237 469

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9.729 945

6 Vibrating shaker, VXR basic Vibrax®

IKA

Optoelectronically controlled small shaker with a very wide speed range.

- Suitable for continuous operation
- New design and improved drive system
- Circular shaking motions
- Slow speeds are well maintained
- Attachments are interchangeable

Please order the required shaker attachment separately.

Specifications:

Shaking motion:	Orbital
Orbit:	4mm
Motor rating input/output:	35/13.2W
Speed range:	0 to 2200rpm
Dimensions (WxDxH):	157 x 247 x 130mm
Weight (without attachment):	6.1kg
Max. loading:	2kg
Protection class DIN EN 60529:	IP21
Supply requirements:	230V 50/60Hz
Tested to DIN EN IEC 61010-1.	



Type	PK	Cat. No.
VXR basic	1	9.729 900
VXR basic UK	1	6.202 467

Optional accessories: Attachments: VX 1, VX 2, VX 2E, VX 7, VX 8, VX 11, VX 11.1, VX11.2, VX 11.3, VX 11.4

Vibrating shaker, VXR basic Vibrax®, accessory attachments

IKA

VX 1 one-hand attachment

For shaking single, non-fixed vessels of 1ml to 250ml.

VX 2 test tube attachment

For up to 36 test tubes or centrifugal tubes with a diameter of 16 mm.

VX 2E "Eppendorf" attachment

For intensive shaking of up to 64 "Eppendorf" tubes (1.5ml).

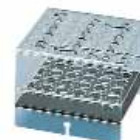
Type	Width mm	Depth mm	Height mm	PK	Cat. No.
VX 1	130	135	40	1	9.729 901 7
VX 2	140	145	115	1	9.729 902 8
VX 2E	210	210	65	1	9.729 914

7



9.729 901

8



9.729 902

➔ Microtitre shakers please see page 1295.



6.231 284



9.729 915

Accessories for Shaker VXR basic Vibrax®

VX 11 Basic holder

Attachment for test tube inserts.

VX 11.1 Test tube insert

Attachment for Eppendorf tubes or test tube inserts.

VX 11.2/ VX 11.3/VX 11.4 Test tube inserts

For test tubes.

Type	No. of holes	Diam. of holes mm	PK	Cat. No.
VX 11			1	6.231 284
VX 11.1	70	10	1	6.232 813
VX 11.2	41	12	1	6.231 285
VX 11.3	32	16	1	6.228 246
VX 11.4	18	20	1	9.729 915

3 Shaker Multi Vortex Genie®



Scientific Industries

Robust and reliable shaking device for mixing and shaking of samples in Erlenmeyer flasks or vials.

Properties:

- Digital display for speed and time
- Speed increase in steps of 10rpm Robust metal case
- Secure stand at high speed thanks to supports with high vibration damping
- Can be loaded with e. g. max. 6 Erlenmeyer flasks 250ml or 2 multi racks each for 12 test tubes (max. tube diameter 29mm, length min. 85mm)
- After 10 minutes of non use, the mixer switches to "sleep" mode

Supplied with: incl. platform with clamp/tension roller (for securely attaching standing vessels) and 2 multi-racks.

Specifications

Type of movement:	vibrating
Dimensions (WxDxH):	310 x 270 x 195mm
Weight:	11.3kg
Supply requirements:	230V, 50Hz
Speed range:	200rpm to 950rpm

Type	Connector	PK	Cat. No.
Multi Vortex-Genie®	EU	1	9.730 090
Multi Vortex-Genie®	UK	1	6.265 221
Multi Vortex-Genie®	CH	1	6.265 222

3



1 | 2 LLG-Orbital shaker uniSHAKER 25

NEW!

Powerful, smooth running orbital shaker for loads up to 25kg. The maintenance free brushless motor and the shaking mechanism with counter weight allow any time smooth and stable operation. Digital display for speed and time. Adjustable speed from 50 to 500rpm, built-in timer from 1 to 99 minutes or continuous. Two different platforms (610 x 460mm or 760 x 460mm) and 5 clamps for vessels from 125ml to 2000ml available. Platforms and clamps must be ordered separately.

- Stable and robust metal housing
- Maximum load capacity 25kg
- Shaking orbit 25mm
- Different platforms and clamps available

Specifications

Type of movement:	orbital
Orbital diameter:	25mm
Speed range:	50 to 500rpm
Motor:	Brushless DC motor
Timer:	0-99 minutes, continuous
Power consumption:	250VA
Permissible ambient temperature:	4 to 75°C
Dimensions (WxDxH):	600 x 550 x 150mm
Weight:	48kg
Power supply:	230V, 50Hz

Type	PK	Cat. No.
LLG-uniSHAKER 25 with EU plug	1	6.263 590
LLG-uniSHAKER 25 with UK plug	1	6.263 599
Universal attachment, 610 x 460mm	1	6.263 591
Universal attachment, 760 x 460mm	1	6.263 592
Clamp, 100ml	1	6.263 593
Clamp, 250ml	1	6.263 594
Clamp, 500ml	1	6.263 595
Clamp, 1000ml	1	6.263 596
Clamp, 2000ml	1	6.263 597
Rubber mat, adhesive, transparent blue, 150 x 150 x 3mm	1	6.263 598





9.839 701

Sea Star® Digital Orbital Shaker

Heathrow Scientific

The Sea Star® is designed with high-end features such as an electronic sensor that maintains gentle agitation or vigorous motion while compensating for full or unbalanced loads.

The slow, soft-start greatly decreases the risk of spills. The low adjustable rpm setting also provides gentle shaking - ideal for western blot, molecular biology and other immunology protocols and applications. For vigorous culture applications, simply turn the speed knob up to 300rpm. The large, back lit digital display tracks pre-set timed run, continuous run and rpm settings for improved test procedure repeatability. Non-stop optical motor feedback provides instantaneous speed adjustment. Aesthetically pleasing style and highly intuitive, the Sea Star can be set for continuous time or up to 49 hours. The LCD display shows speed and time remaining and an audible beep indicates ending time. The Sea Star is also designed for use in incubators.

Soft rubber feet minimise walking, and the skid-free rubber mat with unique wave design acts as a non-slip surface for Petri dishes, culture bottles, media flasks and dishes. Sturdy anodized platform provides a stable surface for samples with eight elastic ties for added security. Plug-in-place interchangeable power adapter meets all source requirements. Platform capacity:

Erlenmeyer Flasks e.g.: 25ml x 50ml, 16ml x 125ml, 9ml x 250ml, 4ml x 500ml, 4ml x 1000ml, 1ml x 2000ml

Beakers e.g.: 36ml x 50ml, 25ml x 100ml, 16ml x 250ml, 9ml x 400ml, 4ml x 1000ml

Deep well assay plates e.g.: 6 x standard (more if stacking is an option)

Supplied with: Orbital Shaker Sea Star® incl. universal attachment, universal power supply, non-slip rubber mat and 8 elastic ties

Specifications

Type of movement:	orbital
Orbit diameter:	19.2mm
Maximum load:	4.5kg
Speed range:	20 to 300rpm (adjustable)/1rpm increments
Ambient conditions:	4 to 40°C; 20% to 80% RH, non-condensing
Speed display:	digital
Timer range:	0 to 49 hours/1 second increments
Power supply:	100 to 240 V, 50/60 Hz
Platform interior dimensions:	279 x 279mm
Overall dimensions (WxDxH):	314 x 305 x 183mm

Description	Max. Load kg	PK	Cat. No.
Digital orbital shaker Sea Star®, complete	4.5	1	9.839 701
Spare rubber mat		1	9.839 702
Spare ties, elastic		8	9.839 703
Spare power adapter		1	9.839 704



2 Orbital Shaker PSU-10i

Grant

Microprocessor controlled shaking platform providing smooth and quiet horizontal orbital motion for mixing in bottles, flasks and beakers.

- Variable shaking speed: 50rpm to 450rpm

- Loads up to 3kg

- Continuous or timed operation with automatic switch-off

- Reliable direct drive system

- Automatic load balancing system

- The five interchangeable accessory platforms enable a wide choice of vessels to be used, including bottles, flasks and beakers, dishes, boxes and petri-dishes.

Specifications

Type of movement:	orbital
Orbit diameter:	10mm
Maximum load:	3kg
Speed range:	50 to 450rpm/10rpm increments
Timer range:	1min to 96 hours or continuous
Overall dimensions (WxDxH):	220 x 205 x 90mm
Power supply:	100 - 240V, 50/60Hz

Type	Max. Load kg	PK	Cat. No.
PSU-10i	3.0	1	9.721 019

Accessories for Orbital shaking platform PSU-10i

Grant

Type	Description	PK	Cat. No.
Bio PP-4	Flat platform, working area 230 x 230mm	1	9.721 018
PUP-12	Universal platform, working area 270 x 195mm	1	9.721 021
P12-100	Platform with clamps for 12 x 100ml flasks / 150ml beakers	1	9.721 023
P6-250	Platform with clamps for 6 x 250ml flasks / 400ml beakers	1	9.721 024
P16-88	Platform with spring holders for 88 tubes up to 30mm	1	9.721 049



9.721 021

2 Orbital Shaker PSU-20i

Grant

Powerful and efficient microprocessor controlled, multi-functional orbital shaker providing all that is required to mix your samples: rotation, reciprocation and vibration. This enables optimisation of the mixing whether in flasks, beakers, Petri dishes or other laboratory vessels.

- Orbital motion (20 to 250rpm), reciprocation (20 to 250rpm) and vibration functions all in one product
- Loading capacity: 8kg
- Fully programmable sequence that can use one or all the functions
- 6 interchangeable platforms for vessels up to 1000ml including a multi-level platform to hold a large number of various microplates, Petri dishes and culture bags.
- Reciprocal rotation: 0 to 360° turning angle, in 30 degree steps
- Vibration: 0 to 5° turning angle, 1 degree steps

Type	Max. Load kg	PK	Cat. No.
PSU-20i	8.0	1	6.256 816



3 Accessories for Orbital shaker PSU-20i

NEW!

Grant

Type	Description	PK	Cat. No.
PUP-330	Universal platform with adjustable bars	1	9.721 081
PP-20	Flat platform with non-slip mat, 400 x 360mm	1	6.256 809
P30-100	Platform with clamps for 30 x 100 ml flasks	1	9.721 061
P16-250	Platform with clamps for 16 x 250 ml flasks	1	9.721 062
P9-500	Platform with clamps for 9 x 500 ml flasks	1	9.721 063
P6-1000	Platform with clamps for 6 x 1000 ml flasks	1	9.721 064



4 Orbital Shaker MO10

Hettich Benelux

The Orbital Shaker works with an orbital shaking motion. **Application areas for this device are life science, diagnostics, food science and chemics.** It's rock-solid metal housing, the large accessories range and excellent price make the Orbital Shaker a real all-rounder.

Specifications

Speed: 50 to 400rpm
 Timer: 0 to 120min
 Max. capacity: 10kg
 Platform dimensions (L x W): 350 x 400mm
 Overall dimensions (WxDxH): 410 x 570 x 140mm
 Power supply: 230V, 50Hz

Type	Max. Load kg	PK	Cat. No.
Orbital Shaker MO10	10.0	1	9.777 253
Orbital Shaker MO10 CH	10.0	1	9.777 292

Further power connectors on request.



Accessories for Orbital shaker MO10

Hettich Benelux

Description	PK	Cat. No.
Non-slipping Platform, 350 x 400mm	1	9.777 254
Universal Platform with 5 rollers, 350 x 400mm	1	9.777 256
Platform fastening for Erlenmeyer clips	1	9.777 259
Erlenmeyer Clip 250ml	1	9.777 262
Erlenmeyer Clip 500ml	1	9.777 263



9.777 254



1 2 Rocking Shaker SSM3/SSM4

- Small space saving design, ideal for personal use
- Gentle rocking action
- Choice of two models: 3D gyratory action SSM3 and See-saw wave action SSM4
- Digital speed control and built-in timer
- Optional tier system available to increase capacity

Stuart

These compact rockers are ideal where gentle mixing is required. There is a choice of two models: **Model SSM3** provides a 3D gyratory motion, ideal for low foaming agitation, DNA extractions, staining and de-staining procedures etc. The tilt angle can be adjusted to any position by hand to optimise mixing of vessels.

Model SSM4 has a see-saw rocking action that creates a wave motion within vessels such as culture flasks, Petri dishes etc.

Both models are supplied with a non-slip mat and have digital selection of both speed and time.

An accessory tier system is available. Fitted in seconds, without the need for tools, it triples the available space for samples.

With BioCote, silver-based, antimicrobial protection.

Technical Specifications

Rocking action:	3D gyratory/See-saw wave
Platform dimensions (W x D):	235 x 235mm/235 x 235mm
Speed range:	5 to 70rpm/5 to 70rpm
Angle of tilt:	3 to 12°/7°
Angle adjustable:	Yes by hand/No
Maximum load:	3kg/3kg
Overall dimensions (WxDxH):	240 x 300 x 165mm/240 x 300 x 150mm
Net weight:	5kg/5kg
Electrically supply:	230V 50Hz, 50W

SSM3/SSM4

Rocking action:	3D gyratory/See-saw wave
Platform dimensions (W x D):	235 x 235mm/235 x 235mm
Speed range:	5 to 70rpm/5 to 70rpm
Angle of tilt:	3 to 12°/7°
Angle adjustable:	Yes by hand/No
Maximum load:	3kg/3kg
Overall dimensions (WxDxH):	240 x 300 x 165mm/240 x 300 x 150mm
Net weight:	5kg/5kg
Electrically supply:	230V 50Hz, 50W

Type	Description	Max. Load kg	PK	Cat. No.
SSM3	Rocker, gyratory, mini	3.0	1	9.728 820
SSM4	Rocker, see-saw, mini	3.0	1	9.728 821



9.728 830

5 Shaker SSM1

- Smooth orbital shaking action
- Built-in digital timer
- Variable speed control 30 to 300rpm
- Supplied with non-slip mat for microplates etc.
- Optional accessory cradle system for flasks and bottles

Stuart

The compact SSM1 provides a smooth uniform circular motion with an orbit of 16mm. It is supplied with a non-slip mat that can hold up to four microplates or diagnostic cards. Alternatively, an accessory cradle system is available that can accommodate a variety of vessels including flasks, bottles or beakers via four rubber securing bars. It will hold up to: 4 x 250ml or 2 x 500ml or 1 x 1000ml Erlenmeyer Flasks or bottles.

Speed is variable from 30rpm to 300rpm. Once set on the digital display, the shaking speed is effectively maintained even over long periods of time. Shaking times can be set to run for 1 second to 9 hours on the built-in digital timer, or the unit can also be set for continuous operation.

With BioCote, silver-based, antimicrobial protection.

Technical Specifications

Platform dimensions (W x D):	220 x 220mm
Speed range:	30 to 300rpm
Orbit diameter:	16mm
Maximum load:	3kg
Overall dimensions (WxDxH):	240 x 300 x 140mm
Net weight:	5kg
Supply requirement:	230V, 50Hz, 50W

Type	Description	Max. Load kg	PK	Cat. No.
SSM1	Shaker, orbital, mini	3.0	1	9.728 830
SSM1/1	Accessory cradle with 4 securing bars		1	9.728 831

Attachments are not included. - Please order separately.



9.728 831



2 Shakers, large platform, SSL1/SSL2

- available with orbital or reciprocating action
- digital speed selection: SSL1 to 300rpm with soft start, SSL2 to 250rpm
- built-in digital timer
- reliable, quiet running mechanism
- fully adjustable cradle system

Stuart



9.728 840

These lab scale platform shakers have powerful yet quiet shaking mechanisms and have been designed for trouble-free, continuous use. The cradle type platforms have four rubber cushioned horizontal securing bars which can be easily adjusted both vertically and horizontally to hold most sizes and types of vessel, including flasks, bottles and beakers. For example, they will accommodate the following Erlenmeyer flasks or bottles: 12 x 250ml or 9 x 500ml or 6 x 1000ml or 2 x 2000ml. Speed is continuously adjustable and is set digitally. The speed is accurately maintained, even over long runs. A built-in digital timer allows shaking times from 1 to 999 minutes to be set. Alternatively the unit can be set for continuous operation.

With BioCote silver based antimicrobial protection.

Technical Specifications

SSL1/SSL2

Platform dimensions (W x D):	335 x 335mm
Speed range:	30 to 300rpm/25 to 250rpm
Orbit/stroke:	16mm/20mm
Maximum loading:	10kg
Overall dimensions (WxDxH):	360 x 420 x 270mm
Net weight:	11kg
Supply requirements:	230V, 50Hz, 50W

2



Type	Description	Max. Load kg	PK	Cat. No.
SSL1	Shaker, orbital, large platform	10.0	1	9.728 840
SSL2	Shaker, reciprocating, large platform	10.0	1	9.728 841
SSL1/1*	Accessory platform 510 x 510 mm with twelve rubber securing bars		1	9.728 842
SSL1/2	Accessory flat platform 350 x 350 mm without cradle		1	9.728 843

* For use with SSL1 only.

3 Linear and Orbital shaker RS-OS /RS-LS series

A compact, orbital and linear shaker with ideal swivel motion, for a maximum shaking weight of 2.5kg and 7.5kg. The shakers can be set up individually by using the comprehensive range of accessories.

Phoenix Instrument

3



Features at a glance RS-OS 10/20 - RS-LS10/20:

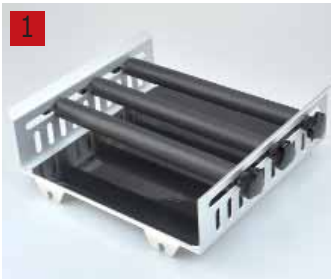
- compact shaker for a maximum shaking weight of 2.5 or 7.5 kg
- Backlight LCD display for speed and timer adjustment.
- Speed, time and operating mode can be viewed simultaneously
- Comprehensive accessories
- Electronic time switching clock: control time or continuous operation mode
- PC control via RS232 interface, the special Shaker PC software can realise the setting of instrument parameters on the PC and the display of working curves real-time.
- 2 years warranty

Please order attachments and further accessories separately.

Specifications

Type of movement/Orbit diameter:	orbital/4mm
RS-OS 10/RS-OS 20	linear/10mm
RS-LS 10/RS-LS 20	
Maximum load:	
RS-OS 10/RS-LS 10	2.5kg
RS-OS 20/RS-LS 20	7.5kg
Voltage:	100 to 240 VAC, 50/60 Hz
Power:	30W
Speed display:	digital
Interface:	RS-232
Housing IP rating	IP 21

Type	Description	Rotation speed rpm	Dimensions mm	Weight kg	Max. Load kg	PK	Cat. No.
RS-OS 10	digital orbital shaker	100-800	340 x 300 x 100	8.1	2.5	1	9.852 120
RS-OS 20	digital orbital shaker	100-500	420 x 370 x 100	13.5	7.5	1	9.852 121
RS-LS 10	digital linear shaker	100-350	340 x 300 x 100	8.1	2.5	1	9.852 122
RS-LS 20	digital linear shaker	100-350	420 x 370 x 100	13.5	7.5	1	9.852 123



1 Accessories linear and orbital shaker RS-OS/RS-LR series

NEW!

Phoenix Instrument

Type	Description	PK	Cat. No.
RSS-E 100	universal attachment with clamping rolls for OS/LS 10	1	9.852 125
RSS-E 105	base plate for OS/LS 10 to be used with Erlenmeyer fixing clips	1	9.852 126
RSS-E 110	universal attachment with vertical adjustable clamping rolls for OS/LS 10	1	9.852 127
RSS-E 115	dish attachment for OS/LS 10	1	9.852 128
RSS-E 200	universal attachment with clamping rolls for OS/LS 20	1	9.852 129
RSS-E 205	base plate for OS/LS 20 to be used with Erlenmeyer fixing clips	1	9.852 130
RSS-E 210	universal attachment with vertical adjustable clamping rolls for OS/LS 20	1	9.852 131
RSS-E 220	dish attachment with tensioning belt for OS/LS 20	1	9.852 146
RSS-E 120	fixing clip for Erlenmeyer flask 25 ml volume	1	9.852 133
RSS-E 125	fixing clip for Erlenmeyer flask 50 ml volume	1	9.852 134
RSS-E 130	fixing clip for Erlenmeyer flask 100 ml volume	1	9.852 135
RSS-E 135	fixing clip for Erlenmeyer flask 200/250 ml volume	1	9.852 136
RSS-E 140	fixing clip for Erlenmeyer flask 500 ml volume	1	9.852 137
RSS-E 145	clamping roll for universal attachment for OS/LS 10	1	9.852 138
RSS-E 245	clamping roll for universal attachment for OS/LS 20	1	9.852 139



2 3 Shakers, 3000 series

GFL

Housing made of high impact strength polystyrene, finished in off-white. The base plate is made of electrolytically galvanized, powder-coated sheet steel, the shaking platform of anodised aluminium, equipped with four plastic pins (models 3005 to 3018 and 3023) for secure attachment of accessory equipment (holds almost all shapes of vessels used in standard laboratory applications). Models 3019/3020: Shaking platform made of electrolytically galvanized, powder-coated sheet steel, equipped with four support rods with screw-type clamps made of stainless steel. Clearly laid out control panels for easy operation and an a.c. motor with overload protection drives the unit. Stepless, electronic speed control, with soft-start and quiet operation. Constant speed maintained during continuous operation, independent of load. Suitable for use in laboratories, incubation and controlled environment rooms at ambient temperatures between +10°C and +50°C. The devices are low-maintenance, have the German seal for proven Safety (GS) and the CE mark.

Analogue control models (1)

3005/3006/3011/3013/3015/3016/3019/3023.

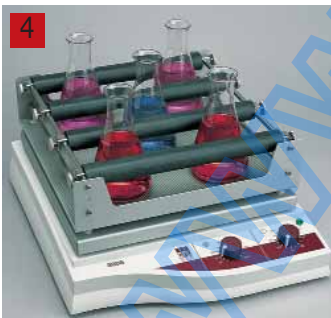
Timer for operations up to 60min. and continuous operation.

Digital control models (2)

3012/3014/3017/3018/3020.

Microprocessor controlled, with interface RS232. Timer: 1 min. up to 99:59 h or continuous operation. Speed and remaining time indicated by two LCD readouts.

The following shaker types are available: Orbital shakers, horizontal shaker, rocking shakers, tumbling shakers and overhead shakers. Please see the different motion types of the 3000 series shakers in the relevant chapters.



4 Circle-Shaker 3005

GFL

With orbital motion.

Space-saving, universally applicable. Either for gentle movement of liquids or vigorous mixing. Applications are in biology and microbiology laboratories and in diagnostic test reactions. Compact, low-wear counterbalanced drive mechanism, ensuring high stability for continuous operation.

Specifications

Overall (WxDxH):	380mm x 510mm x 140mm
Platform (W x D):	330mm x 330mm
Max. loading:	max. 8kg
Type of movement:	orbital
Orbit:	10mm
Shaking speed:	20rpm to 500rpm
Supply requirements:	230V 50/60Hz, 65 W
Net/Gross weight:	10kg/12kg
Timer:	up to 60 min or continuous operation

Type	Max. Load kg	PK	Cat. No.
3005	8.0	1	9.837 905

1 Orbital shakers 3015 and 3017

With orbital motion.

GFL

For gentle motion or vigorous shaking of liquids. Quiet operation. For universal application, e.g. in biochemistry, biotechnology, microbiology, bacteriology and virology, especially suitable for growing microorganisms, cell and tissue cultures. Compact, low-wear counterbalanced drive mechanism for orbital shaking motion.

Technical Specifications

Overall (WxDxH):	510 x 625 x 142mm
Platform (W x D):	450 x 450mm
Max. loading:	15kg
Type of movement:	Orbital
Orbit:	30mm
Shaking speed:	20 to 300rpm.
Supply requirements	
3015:	230V 50/60Hz, 65W
3017:	230V 50 or 60Hz, 65W*
Net/gross weight:	18/22kg
Timer:	
3015:	up to 60 min. or continuous operation
3017:	1 min up to 99:59 hours or continuous operation
Model 3017:	microprocessor controlled, with RS-232 interface



Type	Max. Load kg	PK	Cat. No.
3015	15.0	1	9.837 915
3017**	15.0	1	9.837 917

* Please specify when placing your order!

**Speed and remaining time indicated by 2 LC-displays.

2 Orbital shakers 3019 and 3020

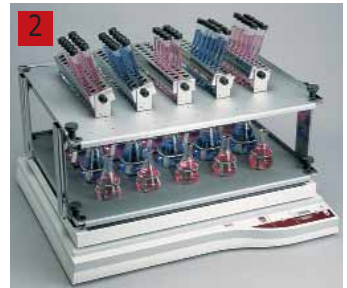
With orbital motion.

GFL

With a large shaking tray for accommodating heavier loads. Well-suited for gentle motion or vigorous mixing of the most varying liquids, thanks to its useful shaking amplitude and the option of adjusting its speed. Quiet, universally applicable, e.g. for analytical or diagnostic applications in the pharmaceutical industry, chemistry, biology, or in plant breeding or nutritional applications, in the growing of microorganisms, cell and tissue cultures. Compact, low-wear counterbalanced drive mechanism, ensuring high stability and dependability. (3020 with RS 232 interface)

Technical Specifications

Overall (WxDxH):	745 x 730 x 135mm
Platform (W x D):	676 x 540mm
Max. loading:	30kg
Type of movement:	Orbital
Orbit:	32mm
Shaking speed:	20 to 250rpm, when the rack frame is used 20 to 200rpm
Supply requirements:	
3019:	230V 50/60Hz, 90W
3020:	230V 50 or 60Hz, 90W*
Net/gross weight:	34/40 kg
Timer:	
3019:	Up to 60 min. or continuous operation
3020:	1 min. up to 99:59 h. or continuous operation
Model 3020:	microprocessor controlled, with a built-in RS-232 interface



Type	Max. Load kg	PK	Cat. No.
3019	30.0	1	9.837 919
3020**	30.0	1	9.837 920

* Please specify when placing your order.

**Speed and remaining time indicated by 2 LC-displays.



1 Shaking Trays

NEW!

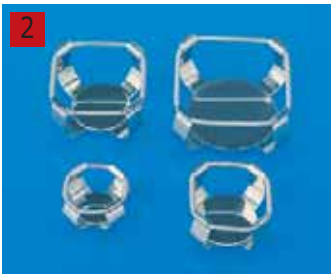
Made of stainless steel with holes to accommodate clips for Erlenmeyer flasks and other accessory equipment.
Type 3950: for Shakers 3005 and 3006.

Type 3966: for Shakers 3011 to 3018 (see also **Shaking Incubator 3031**).

Type 3980: for Shakers 3019/3020 (see also **Shaking Incubator 3033**).

Made of 3mm thick anodised aluminium, with holes to accommodate clips for Erlenmeyer flasks and other accessory equipment.

Type	For Type	PK	Cat. No.
3950	3005 / 3006	1	9.837 972
3966	3011 - 1018 / 3031	1	9.837 936
3980	3019 / 3020 / 3033	1	9.837 980



2 Clamps for Erlenmeyer Flasks

NEW!

Stainless steel, for screwing onto shaking tray 3950, 3966 and 3980, supplied with attachment fittings (see also **Shaking Incubators 3031-3033**).

Type	For flasks ml	Clips required shaker Model 3005, 3006	Clips required shaker Model 3011 to 3018	Clips required shaker Model 3019, 3020	PK	Cat. No.
3983	25	45	79	99	1	9.837 983
3984	50	25	49	99	1	9.837 984
3985	100	16	36	50	1	9.837 985
3986	200	12	22	26	1	9.837 986
3987	250-300	9	16	26	1	9.837 987
3988	500	9	12	26	1	9.837 988
3989	1000	4	9	12	1	9.837 989
3990	2000	2	4	9	1	9.837 991

Other clamps on request



3 Test tube rack

For **Shakers 3005 and 3006, 3015 to 3020 and Shaking Incubator 3031 (Tray 3966), 3032 (Tray 3970/3 racks) and 3033 (Tray 3980)**.

Stainless steel, for max. 24 test tubes, 12mm to 17mm diameter, perforated section can be tilted by 90°, with clamping springs for secure grip and silent shaking of tubes. For screwing onto **shaking trays 3950, 3966 and 3980**.

For trays:	Number of racks:
3950	3
3966	6
3980	9

Type	PK	Cat. No.
3953	1	9.837 974



4 Clamps for Separating Funnels

Stainless steel, for screwing onto base trays 3950 and 3966.

Type	Capacity ml	Max. clips per platform	Neck width	PK	Cat. No.
3957	50	6 / 11	19 / 26 (ISO / Squibb)	1	9.837 975
3958	100	6 / 11	19 / 26 (ISO / Squibb)	1	9.837 976
3959	250	4 / 8	19 / 26 (ISO / Squibb)	1	9.837 977
3955	250	4 / 8	29 / 32 (conical)	1	9.837 970
3956	500	3 / 6	29 / 32 (ISO / Squibb)	1	9.837 978

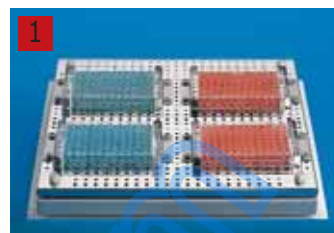
Other clamps on request

1 Holding Frame for a Test Plate

Stainless steel, for securing a test plate. Screws onto shaking trays 3950, 3966 and 3980. **See also Shaking Incubator 3031, (Tray 3966), 3032 (Tray 3970/6 microplates) and 3033 (Tray 3980).** Supplied with attachment material.

For trays: Number microtitration plates:
 3950 4
 3966 6
 3980 15

GFL



Type	For Type	PK	Cat. No.
3910	3005/3006, 3015-3018, 3019/3020	1	9.837 979

2 Non-slip Mats

Used as a shaking platform. For the slow moving of e.g. nutrient media solutions in Petri dishes and flasks. **Type 3965 also for Shaking Incubator 3031.**

GFL



Type	For Type	Width mm	Length mm	PK	Cat. No.
3951	3005 / 3006	300	300	1	9.837 971
3965	3011 - 3018 / 3031	420	420	1	9.837 935

3 Universal Mounts

For secure attachment of various shaking vessels.

Type 3952 for Shakers 3005 and 3006. With 4 rubber coated bars.

Type 3967 for Shakers 3011/3012, 3013/3014, 3015/3017, 3016/3018 (see also Shaking Incubator 3031). With 6 rubber coated bars.

Type 3982 for Shakers 3019/3020. It consists of 2 longitudinal bars and 6 transverse bars. Screw-type clamps are used for adjusting the longitudinal bars vertically and the transverse bars horizontally.

GFL



Type	For Type	PK	Cat. No.
3952	3005 / 3006	1	9.837 973
3967	3011 - 3018 / 3031	1	9.837 937
3982	3019 / 3020	1	9.837 982

4 Platform Frame

For **Shakers 3011 to 3014.**

With 4 levels, with top rims, 3 levels removable. Frame and trays made of stainless steel. Distance between trays 60mm. Grooved rubber mats on trays to ensure secure grip of objects.

GFL



Type	For Type	PK	Cat. No.
3968	3011 - 3014	1	9.837 938

5 Rack Frame

For **Shakers 3019/3020.**

For doubling the capacity by accommodating 2 shaking trays 3980. Distance between trays 205mm. The bottom tray can be loaded with flasks up to a max. of 500ml.

GFL



Type	For Type	PK	Cat. No.
3981	3019 / 3020	1	9.837 981



1 2 Orbital shaker, KS 130 basic/ Package

Small, quiet running, low-friction shaker with effective orbital movement and a maximum loading of 2kg.

IKA

- Electronic speed control and timer adjustment
- LED scale bar speed and time display
- Large selection of attachments for different container types and sizes
- Attachments not included - Please order separately.

Package includes: KS 130 basic, adhesive mat STICKMAX, AS 130.3 Dish attachment

KS 130 control available on request.

Specifications

Shaking movement:	orbital
Orbit:	4mm
Max. capacity including attachment:	2kg
Motor rating input/output:	45 /10W
Speed range:	80 to 800rpm
Speed indication:	LED scale bar
Timer:	5 to 50 min/continuous
Dimensions (WxDxH):	270 x 316 x 98mm
Weight:	8.8kg
Housing IP rating to DIN EN 60529:	IP21
Power source:	230V 50/60Hz
Tested to DIN EN IEC 61010-1.	

Type	Max. Load kg	PK	Cat. No.
KS 130 basic	2.0	1	9.838 150
KS 130 basic Package (incl. adhesive mat STICKMAX, AS 130.3 Dish attachment)	2.0	1	9.838 151

Accessories for orbital shaker KS 130

AS 130.1 Universal attachment

Able to hold most types of container using adjustable tension rollers

IKA

AS 130.2 Fixing clip platform

For shaking round bottom vessels, volumetric and Erlenmeyer flasks. Supplied without clips

AS 130.3 Petri dish attachment

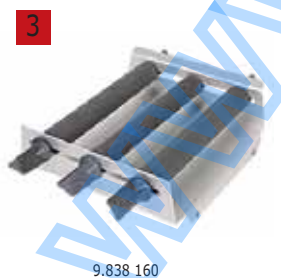
For gentle mixing and suspension of cell cultures or growth media in petri dishes, culture bottles and containers. With integral anti-slide mat (PP).

AS 130.4 Test tube holder

For intensive vibrating of small tubes, test tubes, cuvettes, centrifuge tubes.

Type	Description	Dimensions (W x D x H) mm	PK	Cat. No.
AS 130.1	Universal attachment	325 x 234 x 88	1	9.838 160
AS 130.2	Fixing clip platform*	230 x 230 x 24	1	9.838 161
AS 130.3	Petri dish attachment	420 x 270 x 32	1	9.838 162
AS 130.4	Test tube holders	220 x 230 x 95	1	9.838 163

* Clips AS 2.1 (9.838 091), AS 2.2 (9.838 092), AS 2.3 (9.838 093), AS 2.4 (9.838 094), AS 2.5 (9.838 095) please order separately.



Orbital shaker, KS260 control/ Package

Compact, low-level, platform shaker with highly effective, orbital motion, maximum capacity 7.5kg.

- Electronic speed control and timer adjustment
- Separate digital speed and timer displays with operating mode indication
- Timer: 0 to 9 h 59 min or continuous operation
- Controlled stop-point positioning function (enables use in automated robotic sampling routines)
- All functions can be controlled and documented using labworldsoft® software
- Special variant with reverse rotation function available on request
- Large selection of attachments enable use with a wide variety of vessel shapes and sizes
- Attachments are not included - Please order separately

Specifications

Shaking motion:	orbital
Orbit:	10mm
Max. loading (incl. attachment):	7.5kg
Motor rating input/output:	45/10W
Speed range:	10 to 500rpm
Speed indication:	digital
Timer:	1 to 599 min./continuous
Dimensions (WxDxH):	360 x 420 x 98mm
Weight:	8.8kg
Housing IP rating to DIN EN 60529:	IP21
Interface:	RS232/analogue
Supply requirements:	230V 50/60Hz
Tested to DIN EN IEC 61010-1.	

IKA



9.838 074



9.838 175



9.838 176

Type	Max. Load kg	PK	Cat. No.
KS 260 basic	7.5	1	9.838 074
KS 260 basic Package (incl. 2 x STICKMAX, AS 260.3 Dish attachment)	7.5	1	9.838 075
KS260 control	7.5	1	9.838 175
KS 260 control Package (incl. 2 x STICKMAX, AS 260.3 Dish attachment)	7.5	1	9.838 176

Orbital shaker, KS501 digital/Reciprocating shaker, HS 501 digital

Low-profile laboratory shaker with large platform and 15kg load capacity. With continuously adjustable speed range: 0 to 300rpm, digital display and timer. Continuous operation is guaranteed even under extreme loads. Requires accessory attachments for operation (these are not supplied)

Orbital shaker, KS501 digital

Ideally suited for vessel sizes over 250ml, e.g. round bottom flasks, erlenmeyer flasks, culture flasks, bottles etc. Developed for biological and microbiological growth tests and for production of stock solutions.

Reciprocating shaker, HS 501 digital

Ideally suited for flasks, measuring cylinders and particularly separating funnels. Developed for universal applications.

Specifications

Shaking movement	
KS 501 digital:	orbital
HS 501 digital:	recipocal
Orbital diameter:	30mm
Max. shaking weight (with attachment):	15kg
Motor rating input/output:	70/19W
Speed range:	0 to 300rpm
Timer:	0 to 56 mins./continuous
Dimensions (WxDxH):	505 x 585 x 120mm
Weight (without attachment):	26kg
Protection class acc. to DIN EN 60529:	IP21
Supply requirements:	230V 50/60Hz
Tested to DIN EN IEC 61010-1.	

IKA



Type	Max. Load kg	PK	Cat. No.
KS 501 digital	15.0	1	9.838 040
HS 501 digital	15.0	1	9.838 041
HS 501 digital UK	15.0	1	6.203 237

Optional accessories: Shaking attachments: AS 501.1, AS 501.4, AS 501.5, Non-slip mat STICKMAX

E & OE.

Shakers, KS/HS501 digital, accessories

For orbital shaker Ika KS501 digital and reciprocating shaker Ika HS501 digital.

IKA

AS 501.1 Universal attachment

For a variety of vessels (flasks, beakers etc.) with volumes of at least 50ml (ideally greater than 250ml). With tension rollers that can be mounted on 2 levels. Usable area: 420mm x 420mm.

Dimensions (WxDxH) 480mm x 500mm x 120mm.

AS 501.2 Separating funnel attachment

Only for HS 501 digital. For shaking separating funnels from 50ml to 250ml capacity.

Comprises basic holder, 6 tension rollers, 2 x 6 clamping devices.

Suitable for 12 x 50ml, 10 x 100ml or 6 x 250ml separating funnels.

AS 501.3 Separating funnel attachment

For HS 501 digital only. For shaking separating funnels of 500ml to 2000ml. Comprises basic holder, 4 tension rollers, 2 x 4 clamping devices.

Suitable for 4 x 500ml, 3 x 1000ml or 2 x 2000ml separating funnels.

AS 501.6 Separating funnel attachment

Only for HS 501 digital. For shaking 4 x 1000ml separating funnels.

Comprising basic holder, 4 clamping devices, 4 support bars and 8 ground cone section holders.

Dimensions (W x D x H) 480mm x 505mm x 225mm, weight 5500g.

AS 501.4 Gridded clip attachment

(Without spring clips). For shaking round bottom, flat-bottom, pear-shaped, volumetric and erlenmeyer flasks etc. Minimum volume 25ml. Dimensions (W x D x H) 475mm x 460mm x 95mm, weight 2640g.

Capacity: Number of fixing clips (volume held) 110 x AS 2.1 (25ml), 55 x AS 2.2 (50ml), 35 x AS 2.3 (100ml), 16 x AS 2.4 (250ml), 12 x AS 2.5 (500ml), 8 x AS 2.6 (1000ml)

AS 501.5 Dish attachment

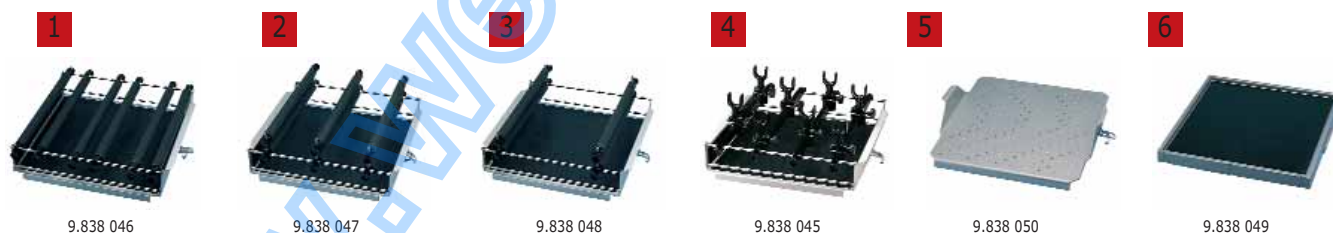
For the gentle movement of petri dishes, but also suitable for gentle mixing in vessels with large, flat bottoms (wide mouth erlenmeyers, beakers). Fitted with a non-slip, plastic mat.

Dimensions (W x D x H) 450mm x 450mm x 45mm, weight 1120g. 4 clamping devices with rod AS 1.7.

Suitable for 4 x 500ml, 3 x 1000ml or 2 x 2000ml separating funnels.

Type	Description	PK	Cat. No.
AS 501.1	Universal attachment	1	9.838 046 1
AS 501.2	Separating funnel attachment	1	9.838 047 2
AS 501.3	Separating funnel attachment	1	9.838 048 3
AS 501.6	Separating funnel attachment	1	9.838 045 4
AS 501.4	Gridded clip attachment*	1	9.838 050 5
AS 501.5	Dish attachment	1	9.838 049 6

* Clips AS 2.1 (9.838 091), AS 2.2 (9.838 092), AS 2.3 (9.838 093), AS 2.4 (9.838 094), AS 2.5 (9.838 095) please order separately.



7 Accessories for orbital and reciprocating shakers

Clamps for orbital shakers Ika KS 130 basic/control, KS 260 basic/control and reciprocating shakers Ika HS 260 basic/control, HS 501 digital, KS 501 digital, KS 4000 i/c control.

IKA

Type	For bottle ml	PK	Cat. No.
AS 2.1	25	1	9.838 091
AS 2.2	50	1	9.838 092
AS 2.3	100	1	9.838 093
AS 2.4	200/250	1	9.838 094
AS 2.5	500	1	9.838 095

4. Stirring, Shaking, Mixing Shakers and mixers/Reciprocating shakers

2 Shakers, large platform, SSL1/SSL2

- available with orbital or reciprocating action
- digital speed selection: SSL1 to 300rpm with soft start, SSL2 to 250rpm
- built-in digital timer
- reliable, quiet running mechanism
- fully adjustable cradle system

Stuart



9.728 840

These lab scale platform shakers have powerful yet quiet shaking mechanisms and have been designed for trouble-free, continuous use. The cradle type platforms have four rubber cushioned horizontal securing bars which can be easily adjusted both vertically and horizontally to hold most sizes and types of vessel, including flasks, bottles and beakers. For example, they will accommodate the following Erlenmeyer flasks or bottles: 12 x 250ml or 9 x 500ml or 6 x 1000ml or 2 x 2000ml. Speed is continuously adjustable and is set digitally. The speed is accurately maintained, even over long runs. A built-in digital timer allows shaking times from 1 to 999 minutes to be set. Alternatively the unit can be set for continuous operation.

With BioCote silver based antimicrobial protection.

Technical Specification

SSL1/SSL2

Platform dimensions (W x D):	335 x 335mm
Speed range:	30 to 300rpm/25 to 250rpm
Orbit/stroke:	16mm/20mm
Maximum loading:	10kg
Overall dimensions (WxDxH):	360 x 420 x 270mm
Net weight:	11kg
Supply requirements:	230V, 50Hz, 50W

2



Type	Description	Max. Load kg	PK	Cat. No.
SSL1	Shaker, orbital, large platform	10.0	1	9.728 840
SSL2	Shaker, reciprocating, large platform	10.0	1	9.728 841
SSL1/1*	Accessory platform 510 x 510 mm with twelve rubber securing bars		1	9.728 842
SSL1/2	Accessory flat platform 350 x 350 mm without cradle		1	9.728 843

* For use with SSL1 only.

3 Linear and Orbital shaker RS-OS /RS-LS series

A compact, orbital and linear shaker with ideal swivel motion, for a maximum shaking weight of 2.5kg and 7.5kg. The shakers can be set up individually by using the comprehensive range of accessories.

Phoenix Instrument

Features at a glance RS-OS 10/20 - RS-LS10/20:

- compact shaker for a maximum shaking weight of 2.5 or 7.5 kg
- Backlight LCD display for speed and timer adjustment.
- Speed, time and operating mode can be viewed simultaneously
- Comprehensive accessories
- Electronic time switching clock: control time or continuous operation mode
- PC control via RS232 interface, the special Shaker PC software can realise the setting of instrument parameters on the PC and the display of working curves real-time.
- 2 years warranty

Please order attachments and further accessories separately.

Specifications

Type of movement/Orbit diameter:	
RS-OS 10/RS-OS 20	orbital/4mm
RS-LS 10/RS-LS 20	linear/10mm
Maximum load:	
RS-OS 10/RS-LS 10	2.5kg
RS-OS 20/RS-LS 20	7.5kg
Voltage:	100 to 240 VAC, 50/60 Hz
Power:	30W
Speed display:	digital
Interface:	RS-232
Housing IP rating	IP 21

3



Type	Description	Rotation speed rpm	Dimensions mm	Weight kg	Max. Load kg	PK	Cat. No.
RS-OS 10	digital orbital shaker	100-800	340 x 300 x 100	8.1	2.5	1	9.852 120
RS-OS 20	digital orbital shaker	100-500	420 x 370 x 100	13.5	7.5	1	9.852 121
RS-LS 10	digital linear shaker	100-350	340 x 300 x 100	8.1	2.5	1	9.852 122
RS-LS 20	digital linear shaker	100-350	420 x 370 x 100	13.5	7.5	1	9.852 123

➔ Accessories for RS-OS/RS-LS - please see page 470.



1 2 Shakers, 3000 series

Housing made of high impact strength polystyrene, finished in off-white. The base plate is made of electrolytically galvanized, powder-coated sheet steel, the shaking platform of anodised aluminium, equipped with four plastic pins (models 3005 to 3018 and 3023) for secure attachment of accessory equipment (holds almost all shapes of vessels used in standard laboratory applications). Models 3019/3020: Shaking platform made of electrolytically galvanized, powder-coated sheet steel, equipped with four support rods with screw-type clamps made of stainless steel. Clearly laid out control panels for easy operation and an a.c. motor with overload protection drives the unit. Stepless, electronic speed control, with soft-start and quiet operation. Constant speed maintained during continuous operation, independent of load. Suitable for use in laboratories, incubation and controlled environment rooms at ambient temperatures between +10°C and +50°C. The devices are low-maintenance, have the German seal for proven Safety (GS) and the CE mark. GFL

Analogue control models (1)
3005/3006/3011/3013/3015/3016/3019/3023.
 Timer for operations up to 60min. and continuous operation.

Digital control models (2)
3012/3014/3017/3018/3020.
 Microprocessor controlled, with interface RS232. Timer: 1 min. up to 99:59 h or continuous operation. Speed and remaining time indicated by two LCD readouts.

The following shaker types are available: Orbital shakers, horizontal shaker, rocking shakers, tumbling shakers and overhead shakers. Please see the different motion types of the 3000 series shakers in the relevant chapters.



3 Horizontal-Shaker 3006

For gentle back and forth motion as well as intensive shaking of liquids, especially in separating funnels. Applications are in medical diagnostics or analysis, as well as for culturing micro-organisms, cell and tissue cultures. The stable, low-friction, counterbalanced drive mechanism ensures a reliable, continuous operation. GFL

Technical Specifications

Overall (WxDxH):	380 x 510 x 140mm
Platform (W x D):	330 x 330mm
Max. loading:	8kg
Type of movement:	Reciprocating
Stroke:	20mm
Shaking speed:	20 to 300rpm.
Net/gross weight:	10/12kg
Timer:	up to 60 min. or continuous operation

Type	Max. Load kg	PK	Cat. No.
3006	8.0	1	9.837 906



4 Horizontal shakers 3016 and 3018

For vigorous and intensive shaking e.g. of clamped, recumbent flasks, mixing flasks or separating funnels. Quiet operation. The shaking platform's jerky, back and forth motion creates high turbulence, thus thoroughly mixing the media, e.g. when producing suspensions and emulsions. Applications are varied, e.g. medical diagnostics, foodstuffs or environmental analyses. Compact, low-wear, counterbalanced drive mechanism for reciprocal shaking motion. (3018 supplied with RS232 interface) GFL

Technical Specifications

Overall (WxDxH):	510 x 625 x 145mm
Platform (W x D):	450 x 450mm
Max. loading:	15kg
Type of movement:	Reciprocating
Stroke:	30mm
Shaking speed:	20 to 300rpm.
Net/gross weight:	18/22kg
Timer:	
3016:	Up to 60 min. or continuous operation
3018:	1 min. up to 99:59h. or continuous operation

Type	Max. Load kg	PK	Cat. No.
3016	15.0	1	9.837 916
3018*	15.0	1	9.837 918

* Speed and remaining time indicated by 2 LC-displays.

➔ Accessories for Model 3006/3016/3018 - please see page 472.

4. Stirring, Shaking, Mixing Shakers and mixers/Reciprocating shakers

Horizontal shaker, HS 260 control

Compact, low-level, platform shaker with highly effective, reciprocating motion, maximum capacity 7.5kg.

- Electronic speed control and timer adjustment
- Separate digital speed and timer displays with operating mode indication
- Timer: 0 to 9 h 59 min or continuous operation
- Controlled stop-point positioning function (enables use in automated robotic sampling routines)
- All functions can be controlled and documented using labworldsoft® software
- Large selection of attachments enable use with a wide variety of vessel shapes and sizes
- Attachments are not included - Please order separately

Specifications

Shaking motion:	reciprocating
Stroke:	20 mm
Max. loading incl. attachment:	7.5 kg
Motor rating input/output:	45W/10 W
Speed range:	10 to 300 rpm
Speed indication:	digital
Time switch clock:	1 h 599 min/continuous
Dimensions (WxDxH):	360 x 420 x 100 mm
Weight:	8.8 kg
Housing IP rating to DIN EN 60529:	IP 21
Interface:	RS 232/analogue
Power source:	230 V 50/60Hz
Tested to DIN EN IEC 61010-1.	

IKA



9.838 063



9.838 185

Type	Max. Load kg	PK	Cat. No.
HS260 basic	7.5	1	9.838 063
HS 260 control	7.5	1	9.838 185

Accessories for orbital shakers HS/KS 260

AS 260.1 Universal attachment

Able to hold most types of container using adjustable tension rollers. Surface: 320 x 320mm

AS 260.2 Fixing clip platform

For shaking round bottom vessels, volumetric and Erlenmeyer flasks. Supplied without clips.

Max. number of clips (capacity held): 56 x AS 2.1 (25ml), 23 x AS 2.2 (50ml), 23 x AS 2.3 (100ml), 11 x AS 2.4 (250ml), 9 x AS 2.5 (500ml), 5 x AS 2.6 (1000ml)

AS 260.3 Petri dish attachment

For gentle mixing and suspension of cell cultures or growth media in petri dishes, culture bottles and containers. With integral anti-slide mat (PP).

AS 260.5 Separating funnel attachment

For HS 260 basic and control

For shaking, elution, extraction, gassing out, dissolving, enriching. The 3 tension rollers supplied are height-adjustable to accommodate different separating funnel sizes. The separating funnels are secured by means of O-rings (6 O-rings supplied).

Capacity: Number of funnels (pear shaped) x volume 6 x 50ml, 5 x 100ml, 3 x 250ml, 3 x 500ml

IKA

Type	Description	Dimensions (W x D x H) mm	PK	Cat. No.
AS 260.1	Universal attachment	425 x 335 x 135	1	9.838 080
AS 260.2	Gridded clip platform attachment*	330 x 330 x 24	1	9.838 191
AS 260.3	Petri dish attachment	410 x 370 x 32	1	9.838 192
AS 260.5	Separating funnel attachment	334 x 425 x 145	1	9.838 193

* Clips AS 2.1 (9.838 091), AS 2.2 (9.838 092), AS 2.3 (9.838 093), AS 2.4 (9.838 094), AS 2.5 (9.838 095) please order separately.



9.838 080



9.838 191



9.838 192



9.838 193



1 Orbital shaker, KS501 digital/Reciprocating shaker, HS 501 digital

Low-profile laboratory shaker with large platform and 15kg load capacity. With continuously adjustable speed range: 0 to 300rpm, digital display and timer. Continuous operation is guaranteed even under extreme loads. Requires accessory attachments for operation (these are not supplied)

IKA

Orbital shaker, KS501 digital

Ideally suited for vessel sizes over 250ml, e.g. round bottom flasks, erlenmeyer flasks, culture flasks, bottles etc. Developed for biological and microbiological growth tests and for production of stock solutions.

Reciprocating shaker, HS 501 digital

Ideally suited for flasks, measuring cylinders and particularly separating funnels. Developed for universal applications.

Specifications

Shaking movement

KS 501 digital:

HS 501 digital:

Orbital diameter:

Max. shaking weight (with attachment):

Motor rating input/output:

Speed range:

Timer:

Dimensions (WxDxH):

Weight (without attachment):

Protection class acc. to DIN EN 60529:

Supply requirements:

Tested to DIN EN IEC 61010-1.

orbital

reciprocal

30mm

15kg

70/19W

0 to 300rpm

0 to 56 mins./continuous

505 x 585 x 120mm

26kg

IP21

230V 50/60Hz

Type	Max. Load kg	PK	Cat. No.
KS 501 digital	15.0	1	9.838 040
HS 501 digital	15.0	1	9.838 041
HS 501 digital UK	15.0	1	6.203 237

Optional accessories: Shaking attachments: AS 501.1, AS 5014, AS 501.5, Non-slip mat STICKMAX

2 3 Flask shaker SF1

Creates a vigorous shaking action. With clamps to accept 8 flasks up to 500ml capacity.

Stuart

With stepless variable speed control from 80 to 800 oscillations/min. and 10 to 60 minute timer with off and continuous run settings.

Electronic feedback control ensures a constant speed irrespective of the load. Overall 780mm x 270mm x 240mm (WxDxH). Weight 8.3kg. For 230V 50Hz single phase supplies.

Accessory side-arms are available for converting 9.950 372 to shake up to 12 flasks. Maximum load: 3L. Each side arm accepts six clamps. Supplied with 4 clamps.

With BioCote, silver-based, antimicrobial protection.

Type	PK	Cat. No.
SF1	1	9.950 372
Spare clamp	1	9.950 373
Accessory side arm	1	9.950 374



1 Platform rocker PMR-100

Large capacity, adjustable angle and speed platform rocker, providing soft or intensive side to side rocking for optimal mixing of samples. Suitable for Life Science applications.

Grant

Ideal for minigel destaining after electrophoresis, conducting reactions of Northern, Southern and Western blots, immunoblots, hybridisation washes, cell culture, visualisation of blots, immunostaining, protein electrophoresis. For use in cold rooms or incubators with ambient operating temperature range +4°C to +40°C. Continuous or timed operation, with automatic switch-off. Integral timer: 1min to 99h 59min.

Specifications

Type of movement:	rocking
Shaking diameter (adjustable):	0 to 10° (fixed at 10° over 50rpm)
Permissible shaking weight (incl. attachment):	5kg
Power consumption:	13W
Speed:	1 to 99rpm
Speed display:	LCD
Dimensions platform (WxDxH):	460 x 360mm
Dimensions (WxDxH):	400 x 480 x 250mm
Weight:	13kg
Protection class acc. to DIN EN 60529:	IP20
Power supply:	12V

Type	Max. Load kg	PK	Cat. No.
PMR-100	5.0	1	9.721 015



2 3 Rocking Shaker SSM3/SSM4

- Small space saving design, ideal for personal use
- Gentle rocking action
- Choice of two models: 3D gyratory action SSM3 and See-saw wave action SSM4
- Digital speed control and built-in timer
- Optional tier system available to increase capacity

Stuart

These compact rockers are ideal where gentle mixing is required. There is a choice of two models:

Model SSM3 provides a 3D gyratory motion, ideal for low foaming agitation, DNA extractions, staining and de-staining procedures etc. The tilt angle can be adjusted to any position by hand to optimise mixing of vessels.

Model SSM4 has a see-saw rocking action that creates a wave motion within vessels such as culture flasks, Petri dishes etc.

Both models are supplied with a non-slip mat and have digital selection of both speed and time.

An accessory tier system is available. Fitted in seconds, without the need for tools, it triples the available space for samples.

With BioCote, silver-based, antimicrobial protection.



Technical Specification

Rocking action:	3D gyratory/See-saw wave
Platform dimensions (W x D):	235 x 235mm/235 x 235mm
Speed range:	5 to 70rpm/5 to 70rpm
Angle of tilt:	3 to 12°/7°
Angle adjustable:	Yes by hand/No
Maximum load:	3kg/3kg
Overall dimensions (WxDxH):	240 x 300 x 165mm/240 x 300 x 150mm
Net weight:	5kg/5kg
Electrically supply:	230V 50Hz, 50W

SSM3/SSM4

Type	Description	Max. Load kg	PK	Cat. No.
SSM3	Rocker, gyratory, mini	3.0	1	9.728 820
SSM4	Rocker, see-saw, mini	3.0	1	9.728 821



1


9.728 800

Rocking shakers SSL3/ SSL4, large platform

- Large platform rockers - ideal for multiple users
- Gentle rocking action
- Choice of two models
- Tumbling gyratory action SSL3
- See-saw, wave action SSL4
- Digital speed control and built-in timer
- Optional tier system available to increase capacity

Stuart

These rockers have large platforms able to accommodate a number of samples, ideal for a busy lab. They are very quiet in operation and designed to be run continuously. There are two models available:

Model SSL3 provides a tumbling gyratory motion, ideal for low foaming agitation, DNA extractions, staining and de-staining procedures etc. The tilt angle can be adjusted to any position by hand to optimise mixing of vessels.

Model SSL4 has a see-saw rocking action that creates a wave motion within vessels such as culture flasks, petri dishes etc.

Both models are supplied with a non-slip mat and have digital selection of both speed and time.

An accessory tier system is available. Fitted in seconds, without the need for tools, it triples the available space for samples.

With BioCote, silver-based, antimicrobial protection.

2


9.728 801

Specifications

	SSL3/SSL 4
Rocking action:	Tumbling gyratory/See-saw wave
Platform dimensions (W x D):	355mm x 355mm/355mm x 355mm
Speed range:	5rpm to 70rpm/5rpm to 70rpm
Angle of tilt:	3° to 12°/7°
Angle adjustable:	Yes by hand/No
Maximum load:	10kg/10kg
Overall dimensions (W x D x H):	360mm x 420mm x 170mm/360mm x 420mm x 160mm
Net weight:	10kg/10kg
Supply requirements:	230V, 50Hz, 50W

Type	Description	Max. Load kg	PK	Cat. No.
SSL3	Rocker, gyratory, lab scale	10.0	1	9.728 800 1
SSL4	Rocker, see-saw, lab scale	10.0	1	9.728 801 2
SSL3/1	Tier system (2 platforms plus 8 bars)		1	9.728 802

Attachments are not included - Please order separately

3


9.729 984

Rocking shaker Rocker 2D basic/2D digital

Rocking shaker with fixed speed for smooth mixing tasks. For homogeneous mixing in flasks, culture flasks, Petri dishes and tubes. Even with load and voltage fluctuations the shaking speed remains constant. A fixed tilt angle ensures reproducible test results.

IKA

- Different attachments allow a variety of applications
- Usable at 4 to 50°C in incubators
- Anti-slip rubber mat included
- Easy operation by foil keypad
- Suitable for continuous operation

Rocker 2D digital only:

- Timer: Countdown, adjustable from 1s to 99h 59min
- Counter: Display of shaking time
- Error code display

Specifications

Type of movement:	rocking
Shaking diameter	
Rocker 2D basic:	8° (angle)
Rocker 2D digital:	0 - 15° (angle)
Permissible shaking weight (incl. attachment):	2kg
Motor rating input/output:	16/9W
Speed:	5 to 80rpm
Speed display:	7 segment LED
Dimensions (WxDxH):	280 x 330 x 150mm
Weight:	2.2kg
Protection class acc. to DIN EN 60529:	IP 21
Power supply:	100-240V, 50/60Hz

Type	Max. Load kg	PK	Cat. No.
Rocker 2D basic	2.0	1	9.729 984 3
Rocker 2D digital	2.0	1	9.729 985

4. Stirring, Shaking, Mixing Shakers and mixers/Rocking shakers-Tumbling shakers

1 2 Shakers, 3000 series

Housing made of high impact strength polystyrene, finished in off-white. The base plate is made of electrolytically galvanized, powder-coated sheet steel, the shaking platform of anodised aluminium, equipped with four plastic pins (models 3005 to 3018 and 3023) for secure attachment of accessory equipment (holds almost all shapes of vessels used in standard laboratory applications). Models 3019/3020: Shaking platform made of electrolytically galvanized, powder-coated sheet steel, equipped with four support rods with screw-type clamps made of stainless steel. Clearly laid out control panels for easy operation and an a.c. motor with overload protection drives the unit. Stepless, electronic speed control, with soft-start and quiet operation. Constant speed maintained during continuous operation, independent of load. Suitable for use in laboratories, incubation and controlled environment rooms at ambient temperatures between +10°C and +50°C. The devices are low-maintenance, have the German seal for proven Safety (GS) and the CE mark.

Analogue control models (1)

3005/3006/3011/3013/3015/3016/3019/3023.

Timer for operations up to 60min. and continuous operation.

Digital control models (2)

3012/3014/3017/3018/3020.

Microprocessor controlled, with interface RS232. Timer: 1 min. up to 99:59 h or continuous operation. Speed and remaining time indicated by two LCD readouts.

The following shaker types are available: Orbital shakers, horizontal shaker, rocking shakers, tumbling shakers and overhead shakers. Please see the different motion types of the 3000 series shakers in the relevant chapters.

GFL



3 Shakers 3013 and 3014 rocking

With rocking motion.

Compact, low-wear counterbalanced drive mechanism for slow and uniform rocking motion, quiet. The devices create reproducible growth and processing conditions at low speeds for cell cultures and other media. Ideal rinsing and tumbling of the samples. Various applications, e.g for the supply of parallel cultures and cell lines or for staining or de-staining of gels.

Technical Specifications

Overall (WxDxH):	510mm x 625mm x 168mm
Platform (W x D):	450mm x 450mm
Max. loading:	15kg
Platform angle:	3°
Shaking speed:	2rpm to 50rpm.
Supply requirements:	
3013:	230V 50/60Hz, 90W
3014:	230V 50 or 60Hz, 90W*
Net/gross weight:	18kg/21kg
Timer:	
Model 3013:	1min to 60min or continuous operation
Model 3014:	1 min to 99:59 hours or continuous operation
Model 3014:	microprocessor controlled, with RS-232 interface

Type	Max. Load kg	PK	Cat. No.
3013	15.0	1	9.837 913
3014**	15.0	1	9.837 914

* Please specify when placing your order!

**Speed and remaining time indicated by 2 LC-displays.

GFL



➔ Accessories for Type 3013/3014 - please see page 472.

4 Platform tumbling rotator PS-3D

Smooth tumbling orbital motion for mixing in tubes, culture flasks, dishes and boxes.

- Ideal size for personal use
- Variable speed: 5rpm to 60rpm
- Operating range: +4°C to 40°C
- Fixed position: 7°C tilt angle
- Loads up to 0.5kg
- 210mm x 210mm platform

Type	Max. Load kg	PK	Cat. No.
PS-3D	0.5	1	9.721 014

Grant





1 Platform rocker PMR-30 Grant

Smooth rocking motion for gentle sample agitation in tubes, culture flasks, dishes and boxes.

- Side to side rocking motion
- Variable speed: 5 to 30rpm
- Load up to 0.5kg
- Fixed position: 7° tilt angle
- Continuous or timed operation with automatic switch-off
- Integral timer: 1 min to 24 hours
- 210 x 210mm platform
- Operating ambient +4°C to 40°C

Type	Max. Load kg	PK	Cat. No.
PMR-30	0.5	1	9.721 011



2 Multi-function tumbling rotator PS-M3D Grant

With consistent and reproducible agitation throughout the speed range, multi segment program.

- Multi function: rotation, reciprocation, vibration
- Reciprocal tumbling rotation: 1° to 360°
- Vibration: 1° to 5°
- Loads up to 1kg
- Variable speed: 1rpm to 100rpm
- Fixed position: 7° tilt angle
- 210 x 210mm platform

Type	Max. Load kg	PK	Cat. No.
PS-M3D	1.0	1	9.721 017



3 Accessories for platform rocker PMR-30, tumbling-platform rotator PS-3D and multi-function rotator PSM-3D Grant

Type	Description	PK	Cat. No.
PDM	Dimpled mat, prevents tubes from rolling around	1	9.721 013

9.721 013



4 3D Shaker **NEW!**
Hettich Benelux

The DITABIS 3D shaker works with a rotational 3D motion. **Application areas for this device are cultivation and ventilation applications, DNA-extractions as well as colouring and decolouring of gels in life science sectors.** The rock-solid metal housing and the excellent price of the DITABIS 3D shaker will elate you. Shaker available as standard shaker, double platform shaker and shaker with extra large platform.

Specifications

Speed:	5 to 50rpm
Timer:	0 to 120min
Max. capacity:	5kg
Angle of tilt:	8°
3DL05:	4°
Platform dimensions (L x W):	290 x 260mm
3DL05:	350 x 350mm
Distance double platforms:	17mm
Overall dimensions (WxDxH):	340 x 400 x 125mm
Power supply:	230V, 50Hz

Type	Max. Load kg	PK	Cat. No.
3D shaker	5.0	1	9.777 250
3D shaker CH	5.0	1	9.777 288
3D shaker, double platform	5.0	1	9.777 251
3D shaker, double platform CH	5.0	1	9.777 290
3D Shaker 3DL 05, extra large platform	5.0	1	9.777 293
3D Shaker 3DL 05, extra large platform CH	5.0	1	9.777 294
Mat with 12 channels, 260 x 290mm		1	9.777 252

Further power connectors on request.

Rocking shakers SSL3/ SSL4, large platform

- Large platform rockers - ideal for multiple users
- Gentle rocking action
- Choice of two models
- Tumbling gyrotary action SSL3
- See-saw, wave action SSL4
- Digital speed control and built-in timer
- Optional tier system available to increase capacity

These rockers have large platforms able to accommodate a number of samples, ideal for a busy lab.

They are very quiet in operation and designed to be run continuously. There are two models available:

Model SSL3 provides a tumbling gyrotary motion, ideal for low foaming agitation, DNA extractions, staining and de-staining procedures etc. The tilt angle can be adjusted to any position by hand to optimise mixing of vessels.

Model SSL4 has a see-saw rocking action that creates a wave motion within vessels such as culture flasks, petri dishes etc.

Both models are supplied with a non-slip mat and have digital selection of both speed and time.

An accessory tier system is available. Fitted in seconds, without the need for tools, it triples the available space for samples.

With BioCote, silver-based, antimicrobial protection.

Specifications

	SSL3/SSL 4
Rocking action:	Tumbling gyrotary/See-saw wave
Platform dimensions (W x D):	355mm x 355mm/355mm x 355mm
Speed range:	5rpm to 70rpm/5rpm to 70rpm
Angle of tilt:	3° to 12°/7°
Angle adjustable:	Yes by hand/No
Maximum load:	10kg/10kg
Overall dimensions (W x D x H):	360mm x 420mm x 170mm/360mm x 420mm x 160mm
Net weight:	10kg/10kg
Supply requirements:	230V, 50Hz, 50W

Type	Description	Max. Load kg	PK	Cat. No.
SSL3	Rocker, gyrotary, lab scale	10.0	1	9.728 800
SSL4	Rocker, see-saw, lab scale	10.0	1	9.728 801
SSL3/1	Tier system (2 platforms plus 8 bars)		1	9.728 802

Attachments are not included - Please order separately

Tumbling shakers Rocker 3D basic/3D digital

Shaker with three-dimensional tumbling motion and a fixed speed for smooth mixing tasks. For homogeneous mixing in flasks, culture flasks, Petri dishes and tubes. Ideal for e.g. the cultivation of cell cultures, DNA extractions, distributing of cells and staining and destaining of cells. Even with load and voltage fluctuations the shaking speed remains constant. A fixed angle ensures reproducible test results.

- Different attachments allow a variety of applications
- Usable at 4 to 50°C in incubators
- Anti-slip rubber mat included
- Easy operation by foil keypad
- Suitable for continuous operation

Rocker 3D digital only:

- Timer: Countdown, adjustable from 1s to 99h 59min
- Counter: Display of shaking time
- Error code display

Specifications

Type of movement:	tumbling
Shaking diameter	
Rocker 3D basic:	8° (angle)
Rocker 3D digital:	0 - 15° (angle)
Permissible shaking weight (incl. attachment):	2kg
Motor rating input/output:	16/9W
Speed Rocker 3D basic:	30rpm (fixed)
Speed Rocker 3D digital:	5 to 80rpm
Speed display (Rocker 3D digital only):	7 segment LED
Dimensions (WxDxH) Rocker 3D basic:	280 x 330 x 165mm
Dimensions (WxDxH) Rocker 3D digital:	280 x 330 x 185mm
Weight:	2.2kg
Protection class acc. to DIN EN 60529:	IP 21
Power supply:	100-240V, 50/60Hz

Type	Max. Load kg	PK	Cat. No.
Rocker 3D basic	2.0	1	9.729 986
Rocker 3D digital	2.0	1	9.729 987

1
Stuart



9.728 800



9.728 801

3

IKA



9.729 986



1 2 Shakers, 3000 series

Housing made of high impact strength polystyrene, finished in off-white. The base plate is made of electrolytically galvanized, powder-coated sheet steel, the shaking platform of anodised aluminium, equipped with four plastic pins (models 3005 to 3018 and 3023) for secure attachment of accessory equipment (holds almost all shapes of vessels used in standard laboratory applications). Models 3019/3020: Shaking platform made of electrolytically galvanized, powder-coated sheet steel, equipped with four support rods with screw-type clamps made of stainless steel. Clearly laid out control panels for easy operation and an a.c. motor with overload protection drives the unit. Stepless, electronic speed control, with soft-start and quiet operation. Constant speed maintained during continuous operation, independent of load. Suitable for use in laboratories, incubation and controlled environment rooms at ambient temperatures between +10°C and +50°C. The devices are low-maintenance, have the German seal for proven Safety (GS) and the CE mark.

GFL

Analogue control models (1)

3005/3006/3011/3013/3015/3016/3019/3023.

Timer for operations up to 60min. and continuous operation.

Digital control models (2)

3012/3014/3017/3018/3020.

Microprocessor controlled, with interface RS232. Timer: 1 min. up to 99:59 h or continuous operation. Speed and remaining time indicated by two LCD readouts.

The following shaker types are available: Orbital shakers, horizontal shaker, rocking shakers, tumbling shakers and overhead shakers. Please see the different motion types of the 3000 series shakers in the relevant chapters.



3 Tumbling shakers 3011 and 3012

With orbital rocking motion.

For gentle and uniform orbital rocking motion, quiet. Applications in AIDS research, for diagnostic tests with test plates or for growing cell cultures and microorganisms. (3012 with RS 232 interface)

GFL

Technical Specifications

Overall (WxDxH):	510mm x 625mm x 168mm
Platform (W x D):	450mm x 450mm
Max. loading:	max. 15kg
Type of movement:	Three-dimensional, orbital rocking
Platform angle:	3°C
Shaking speed:	2rpm to 50rpm.
Supply requirements:	
3011:	230V 50/60Hz, 90W
3012:	230V 50 or 60 Hz, 90W*
Net/gross weight:	18kg/22kg
Timer:	
3011:	up to 60 min or continuous operation
3012:	1 min to 99:59 hours or continuous operation
Model 3012:	microprocessor controlled; RS232 interface

Type	Max. Load kg	PK	Cat. No.
3011	15.0	1	9.837 911
3012**	15.0	1	9.837 912

* Please specify when placing your order

**Speed and remaining time indicated by 2 LC-displays

➔ Accessories for Type 3011/3012 - please see page 472.

4. Stirring, Shaking, Mixing Shakers and mixers/Overhead shakers

1 Rotator Genie™, with magnetic platform

Holds a wide variety of tubes, flasks, microplates, and odd-shaped vessels. Available in two interchangeable platform configurations. Magnetic platform features unique spring clip plate system. The optional Standard platform (Cat. No. 9.730 104) is designed to turn 90 degrees allowing different mixing motions. Designed for cold room and incubator use. Will easily fit in most incubators. Uniquely designed for a wide selection of motions, which can be adjusted from gentle rolling to forceful end over end mixing. Continuous-duty quality motor provides smooth, quiet operation.

Scientific Industries



Specifications

Speed: 5rpm to 35rpm
 Environmental: ATEX-Installation Category 2, 0°C to 38°C, 95% max. relative humidity
 Overall dimensions (WxDxH): 400 x 175 (290 platform horizontal) x 400mm
 Dimensions magnetic platform: 290 x 315mm
 Dimensions standard platform: 260 x 260mm
 Weight: 5.2kg

Type	Description	Max. Load kg	PK	Cat. No.
SI-2202	incl. magnetic platform, EU plug	2.3	1	6.254 273
SI-2203	incl. magnetic platform, UK plug	2.3	1	9.730 102
SI-2204	incl. magnetic platform, CH plug	2.3	1	9.730 103

3 Accessories for Rotator Genie™

Scientific Industries

Type	Description	Figure	PK	Cat. No.
SI-2110	Standard platform with bands	a	1	9.730 104
SI-2210	Magnetic platform	h	1	9.730 114
SI-1123	1 Clip plate for 12 tubes, 10mm to 13mm*	b	1	9.730 105
SI-1124	1 Clip plate for 6 tubes, 15mm to 17mm*	c	1	9.730 106
SI-1125	1 Clip plate for 3 tubes, 28mm to 30mm*	d	1	9.730 107
SI-1120	6 Clip plate for 12 tubes, 10mm to 13mm*	b	6	9.730 108
SI-1121	6 Clip plate for 6 tubes, 15mm to 17mm*	c	6	9.730 109
SI-1122	6 Clip plate for 3 tubes, 28mm to 30mm*	d	6	9.730 110
SI-1134	2 Universal clip plates	e	2	9.730 111
SI-1135	1 Magnetic microtube box, 100 places**	f	1	9.730 112
SI-1136	1 Clip plate for volumetric flasks, 100ml	g	1	9.730 113

*Platform capacity: 12 Clip plates, **Platform capacity: 8 boxes



9.730 104



We can supply this
manufacturer's
 whole
product range !

partner of the
LLG
 Lab Logistics Group





1 Vertical mini rotator PTR-25

Compact, economy solution with simple to use controls, providing thorough mixing of samples in tubes up to 50ml. Suitable for preventing blood coagulation in tubes and for fulfilment of procedures of extraction of biological components. For use in cold rooms and incubators.

Grant

- 360° vertical rotation
- Vertical rotation speed range: 5rpm to 30 rpm
- Timer: 1 min to 24 hours, with audible alarm and automatic switch-off
- Simple to use controls
- Platform accommodating 22 tubes (up to 15mm diameter) is included as standard

Type	Description	Max. Load kg	PK	Cat. No.
PTR-25	for 22 microtubes	0.5	1	9.721 016



9.721 046

2 Attachments for Vertical mini rotator PTR-25

Grant

Type	Description	PK	Cat. No.
PRS-22	for 22 tubes up to diam. 15mm, volume: 1.5 to 15ml	1	9.721 046
PRSC-18	for 18 tubes up to diam. 14-15mm, with clips	1	9.721 047
PPRS4-12	for 4 x 50ml and 12 x 1.5 to 15 ml tubes	1	9.721 029



3 Multi-function rotator PTR-35/PTR-60

Vertical multi-function rotator for thorough mixing in tubes, with multi-segment programme.

Grant

- Multi-function: vertical rotation, reciprocation, vibration
- Continuous or timed operation for each phase
- Choice of two models with different microtube capacities
- Speed: 1rpm to 100rpm
- Reciprocal rotation: 1° to 90° turning angle
- Vibration: programmable in a burst of 1 to 5 seconds
- Fully programmable sequence of functions, including pause
- Alternative platforms for larger tubes

Type	Description	PK	Cat. No.
PTR-35	for 26 microtubes with 15 mm dia.	1	9.721 028
PTR-60	for 48 microtubes with 15 mm dia.	1	9.721 030



6.241 460

4 Platform for multi-function overhead shakers PTR-35

Grant

Type	For	PK	Cat. No.
PRS-26	26 x 1.5 to 15ml (up to diam. 15mm)	1	9.721 045
PRS-5-12	5 x 50ml (up to diam. 30mm) and 12 x 1.5 to 15ml (up to diam. 15mm)	1	6.241 460
PRS-10	10 x 50ml (up to diam. 30mm)	1	9.721 038
PRSC-10	10 x 50ml (up to diam. 30mm), with clips	1	9.721 039
PRSC-22	22 x 15ml (up to 15mm), with clips	1	9.721 040
PRS-1DP	1 x 96-well microplate	1	9.721 065



9.721 031

9.721 032

5 Platform for multi-function overhead shakers PTR-60

Grant

Type	For	PK	Cat. No.
PRS-8-22	8 x 50ml (up to diam. 30mm) and 22 x 1.5 to 15ml (up to diam. 15mm)	1	9.721 031
PRS-14	14 tubes up to dia. 30mm	1	9.721 032
PRS-48	48 tubes up to dia. 15mm	1	9.721 048

Overhead shaker Trayster basic/digital

1

Overhead shaker with vertical rotation for smooth but effective mixing with a fixed speed. Ideal for biological samples, particularly blood samples. Suitable for separating and mixing processes of powdered and liquid samples in Eppendorf tubes and Greiner tubes up to 50 ml. The easy removable attachments allow simple and quick cleaning of the unit of spilled samples.

IKA

- Different attachments allow a variety of applications
- Usable at 4 to 50°C in incubators
- Suitable for continuous operation
- Easy operation by foil keypad
- Suitable for continuous operation

Trayster digital only:

- Timer: Countdown, adjustable from 1s to 99h 59min
- Counter: Display of shaking time
- Error code display

Specifications

Type of movement:	overhead
Shaking diameter:	vertical or horizontal
Permissible shaking weight (incl. attachment):	2kg
Motor rating input/output:	16/9 W
Dimensions (WxDxH):	460 x 140 x 180 mm
Protection class acc. to DIN EN 60529:	IP 21
Power supply:	100-240V, 50/60Hz



Type	Rotation speed rpm	PK	Cat. No.
Trayster basic	20	1	9.837 870
Trayster digital	5 - 80	1	9.837 871

2 Test Tube Rotator 3025

GFL

Constant uniform rotating tilting motion, particularly suitable for gentle to intensive shaking and mixing of powdered or liquid substances, e.g. for separating or mixing applications. The axle for max. 24 test tubes can be removed and can also be loaded outside the rotator. Can be exchanged with an axle with removable clamps.

Compact, low-wear drive mechanism. External housing is made of electrolytically galvanized powder coated sheet steel, the axle and the collecting trough are made of stainless steel. Electronic speed control, stepless. Maintenance-free, GS safety approval, comes with CE mark.

For max. 24 test tubes: Ø 12/17 mm/ length: 75 to 180 mm

Technical Specification

External dimensions (WxDxH):	490 x 330 x 220mm
Rotational speed:	6 to 60rpm.
Supply requirements:	230V 50/60Hz, 80W
Net/gross weight:	10/12kg

Type	PK	Cat. No.
3025	1	9.837 925

2





1 Rotating Shaker 3040

The specialist shaker with uniform rotating motion. Various applications, e.g. for precise sedimentation, mixing and processing of soil samples (particularly well-suited for processing soil samples in glass/plastic wide mouth vessels up to 2000ml rated volume as per DIN 38414, Part 4 to German Standard Methods for Water, Wastewater and Sludge Analysis - Determination of Leachability by Water. Compact, low-wear drive mechanism. External housing is made of electrolytically galvanized, powder-coated sheet steel. Clearly laid out control panel for easy operation. With LED speed display. Holding device guarantees easy clamping of sample vessels on the shaking rack. Electronic, stepless speed control, constant speed during continuous operation. Rotating rack incorporates ball bearings on both sides, accommodating a max. of 12 flasks/vessels, round or rectangular, up to 110mm max. dia. and 270mm max. height, stacked in 4 levels, each level with 3 holding frames. Drive motion is achieved via a toothed belt and a sliding hub. With stainless steel clamping frame for safe securing of the sample vessels. For ambient temperatures from 10 to 40°C. Maintenance-free, GS safety approval, CE marked.

GFL

Technical Specifications

Motion:	orbital rotating
Speed range:	1 to 20rpm.
Speed control:	Electronic, stepless
Speed display:	Digital
Capacity:	12 bottles/vessels
Bottle height range:	to max. 270mm height
Max. bottle dims.:	110mm, round or square
Drive:	d.c. motor with overload protection
Dimensions (WxDxH):	770 x 700 x 715mm
Supply requirements:	230V 50/60Hz, 100W
Max. load:	20kg
Net/gross weight:	approx. 62/78kg

Type	PK	Cat. No.
3040	1	9.837 931



2 3 Overhead shakers STR4

For use with the STR4/1 drum, STR4/2 flask/bottle rotator Drum, STR4/3 figure 8 drum, STR4/4 bottle holder or STR4/5 eppendorf-type tube rack holder. Fitted with illuminated mains On/Off switch. Has variable speed with electronic speed control, range 6rpm to 60rpm, fitted with 10 to 60 minute timer with Off option and manual over-ride position. Fitted with panel mounted fuse. For use on 230V 50Hz single phase supplies. Overall dimensions (WxDxH) 650mm x 250mm x 250mm. Net weight 6.4kg. Requires accessory drums for operation. With BioCote, silver-based, antimicrobial protection. Drum and accessories sold separately.

Stuart

Type	PK	Cat. No.
STR4	1	9.950 375



4 5 Drum STR4/1 for overhead shakers STR4

Square drum which accepts one plate of clips on each side. The plates plug into the drum which is fitted with a push button release/lock mechanism. Without accessory plates. Drive Cat. No. 9.950 375 separately.

Stuart

Type	PK	Cat. No.
STR4/1	1	9.950 376

* Tubes not included



Accessory plates for STR4/1

To fit drum 9.950 376. Fitted with clips to accept tubes vertically. Supplied in pairs. Drive Art. no 9.950 375 separately.

Stuart

No. of tubes	Diam. mm	PK	Cat. No.
12	12	2	9.950 378
10	16	2	9.950 379
8	19	2	9.950 380
7	24	2	9.950 381

4. Stirring, Shaking, Mixing Shakers and mixers/Overhead shakers

1 2 Drum, Flask, STR4/2 for overhead shakers STR4

Drum with two platforms for STR4. Accepts two 500ml conical flasks or reagent bottles. The support columns can be detached to give two platforms 10.5cm x 17.5cm each for separating funnels, jars or test tube racks. With BioCote, silver-based, antimicrobial protection. Drive Art. no 9.950 375 separately.

Type	PK	Cat. No.
STR4/2	1	9.950 382



3 4 Drum figure-of-8 STR4/3 for overhead shakers STR4

The drum has a platform which can be adjusted within the drum from horizontal to 45°. In this way the sample container can be rolled and turned end over end at the same time. Suitable for extractions, paint mixing, powders and granular samples. The sample container is held by an adjustable velcro strap. With BioCote, silver-based, antimicrobial protection. Drive Art. no 9.950 375 separately.

Type	PK	Cat. No.
STR4/3	1	9.950 384



5 6 Bottle holder STR4/4 for overhead shakers STR4

Perspex four segment cradle with velcro straps for STR4. Holds 2 to 4 bottles each up to 1000ml capacity. With BioCote, silver-based, antimicrobial protection. Drive Art. no 9.950 375 separately.

Type	PK	Cat. No.
STR4/4	1	9.950 385



Rack cradle STR4/5 for overhead shakers STR4

Holds four acrylic racks for end over end mixing of Eppendorf tubes by STR4. Supplied with four racks, each with a capacity of 60 Eppendorf tubes. With BioCote, silver-based, antimicrobial protection. Drive Art. no 9.950 375 separately.

Type	PK	Cat. No.
Rack cradle STR4/5	1	9.950 386
Spare rack for STR4/5	1	9.950 387



9.950 386

Rotators SB2/SB3

The Stuart rotators give gentle but effective mixing, ideal for life sciences applications such as keeping blood samples in suspension. The angle of tilt is fully adjustable. The Rotators can be used in incubators up to 60°C and in cold rooms down to 4°C.

SB2: Fixed speed of 20rpm.

SB3: Variable speed of 2rpm to 40rpm. Additional digital timer of 1 to 999 minutes. Digital speed control.

There are six types of tube holder available. Please order separately.

Specifications:

Dimensions (WxDxH): 200 x 270 x 230mm
 Supply: 230 V/50 Hz, 50W
 Weight: 3.2kg

Type	PK	Cat. No.
SB2	1	9.645 322
SB3	1	9.645 323



9.645 323

1

1 Tube holders for rotators SB2/SB3

Stuart

Type	For	No. of vessels	PK	Cat. No.
SB3/1	Micro tubes, 10 to 11.5mm dia.	46	1	9.645 324
SB3/2	Test/blood tubes, 9 to 20mm dia.	20	1	9.645 325
SB3/3	50ml centrifuge tubes, 25 to 35mm dia.	12	1	9.645 326
SB3/4	Culture tubes, 12mm dia.	63	1	9.645 327
SB3/5	Culture tubes, 16mm dia.	63	1	9.645 328
SB3/6	Culture tubes, 26mm dia.	30	1	9.645 329

Additional accessories on request.

2


9.729 983

Rotators Loopster basic/digital

Rotators for smooth but effective mixing with a fixed speed. Ideal for biological samples, particularly blood samples. Suitable for separating and mixing processes of powdered and liquid samples in Eppendorf tubes and Greiner tubes up to 50ml. The easy removable attachments allow simple and quick cleaning of the unit of spilled samples.

IKA

- Freely adjustable rotary angle
- Different attachments allow a variety of applications
- Usable at 4 to 50°C in incubators
- Easy operation by foil keypad
- Suitable for continuous operation

Loopster digital only:

- Timer: Countdown, adjustable from 1s to 99h 59min
- Counter: Display of shaking time
- Error code display

Specifications

Type of movement:	rotating
Shaking diameter:	adjustable from horizontal to vertical
Permissible shaking weight (incl. attachment):	2kg
Motor rating input/output:	16/9W
Dimensions (WxDxH):	300 x 300 x 360mm
Protection class acc. to DIN EN 60529:	IP 21
Power supply:	100-240V, 50/60Hz

Type	Rotation speed rpm	PK	Cat. No.
Loopster basic	20	1	9.729 982
Loopster digital	5 - 80	1	9.729 983

3


9.852 140

Roller mixers RS-TR 5/10

These tube roller mixers provide gentle and effective mixing by simultaneous rocking and rolling action. The adjustment and control of speed and time can be done easily via the LCD-Display, with the fully digital version or with a knob in the analog version. Additionally a Timer-Function can be activated via the illuminated LCD-Display of the RS-TR 10.

Phoenix Instrument

Specifications

Type of movement:	rocking and rolling
Amplitude:	17mm
Roller size (l x Ø)	280 x 30mm
Ambient temperature:	+4 to +40°C
Max. humidity:	80%
Protection class:	IP 21
Power supply:	100 - 240V, 50/60Hz

4


9.852 143

Type	Rollers	Dimensions (W x D x H)	Rotation speed	Load max.	PK	Cat. No.
		mm	rpm	kg		
RS-TR 5, analog	6	260 x 460 x 120	0 to 70	4.0	1	9.852 140
RS-TR 5 UK, analog	6	260 x 460 x 120	0 to 70	4.0	1	9.852 141
RS-TR 5 CH, analog	6	260 x 460 x 120	0 to 70	4.0	1	9.852 142
RS-TR 10, digital	6	260 x 460 x 120	10 to 70	4.0	1	9.852 143
RS-TR 10 UK, digital	6	260 x 460 x 120	10 to 70	4.0	1	9.852 144
RS-TR 10 CH, digital	6	260 x 460 x 120	10 to 70	4.0	1	9.852 145

2 Roller mixers SRT6/SRT9

Recommended for mixing blood samples, viscous substances and liquid-solid suspensions where minimum aeration is required. Units can be used in incubators up to 60°C and humidity up to 80%, or in cold rooms down to 4°C. A magnetic block, stacking system is available separately to stack up to three units without tools, optimizing bench space. Stuart

- Rocking and rolling action for complete mixing
- Choice of analogue fixed speed or digital variable speed model
- Digital models have integral timer function
- Designed for continuous quiet operation

Specifications

Type of movement:	rocking and rolling
Amplitude:	16mm
Roller size (l x Ø):	340 x 30mm
Ambient temperature:	+4°C to +60°C
Max. humidity:	80%
Protection class:	IP 20
Power supply:	230 V, 50Hz, 50W

Type	Rollers	Dimensions (W x D x H)	Rotation speed	Load max.	PK	Cat. No.
		mm	rpm	kg		
SRT6	6	565 x 240 x 110	33 (fixed)	5.0	1	9.728 810
SRT6D	6	565 x 240 x 110	5 to 60	5.0	1	9.728 811
SRT9	9	565 x 360 x 110	33 (fixed)	5.0	1	9.728 812
SRT9D	9	565 x 360 x 110	5 to 60	5.0	1	9.728 813

Stacking system for roller mixers

Stuart

Type	PK	Cat. No.
SRT/STACK	4	9.728 815



9.728 811



2

3 Tube roller Roller 6 basic/6 digital/10 basic/10 digital

Roller shaker with 6 or 10 rolls, with smooth rocking and rolling action and a fixed speed. Particularly for mixing blood samples, solid and liquid suspensions and viscous samples. The unit can be used for all conventional tubes and cylindrical bottles. The easy removable rolls allow simple and quick cleaning of the unit from spilled samples. IKA

- Usable from 4 to 50°C in incubators
- Suitable for continuous operation
- Removable rolls make it suitable for larger tubes
- Easy operation by foil keypad
- Easy removable rolls

Roller 6 digital/10 digital only:

- Timer: Countdown, adjustable from 1s to 99h 59min
- Counter: Display of shaking time
- Error code display

Specifications

Type of movement:	rocking and rolling
Shaking diameter	24.5 (height)
Roller size (l x Ø):	310 x 32mm
Ambient temperature:	+4°C to +50°C
Max. humidity:	80%
Protection class:	IP 21
Power supply:	100-240V, 50/60Hz

Type	Rollers	Dimensions (W x D x H)	Rotation speed	Load max.	PK	Cat. No.
		mm	rpm	kg		
Roller 6 basic	6	240 x 545 x 115	30 (fixed)	2.0	1	9.729 970
Roller 6 digital	6	240 x 545 x 115	5 - 80	2.0	1	9.729 971
Roller 10 basic	10	380 x 545 x 115	30 (fixed)	2.0	1	9.729 972
Roller 10 digital	10	380 x 545 x 115	5 - 80	2.0	1	9.729 973



9.729 970



9.729 973

4