

4. Stirring, Shaking, Mixing Shakers

Shakers overview

Movement	Load capacity (kg)	Rotation speed (rpm)	Orbit (mm)	Variable speed range	Variable amplitude	IP class
orbital	0	0-2850	3	Yes	No	IP22
orbital	0	150-1000	2	Yes	No	5-40°C / IP 20
orbital	0	20	-	No	Yes	4-60°C / IP 31
orbital	0	2-40	-	Yes	Yes	4-60°C / IP 31
orbital	0	750-3000	2	Yes	No	5-40°C / IP 20
orbital	0.1	2800	4.5	No	No	IP 40
orbital	0.2	0-1100	3	Yes	No	IP 21
orbital	0.4	500-2500	4	Yes	No	IP 21
orbital	0.5	0-3000	4.5	Yes	No	IP 21
orbital	0.5	0-3000	4.5	Yes	No	IP 21
orbital	0.5	200-2500	4.2	Yes	No	5-40°C / IP 31
orbital	0.5	2500	4.2	No	No	5-40°C / IP 31
orbital	1	250-1250	1.5	Yes	No	IP 31
orbital	2	0-2200	4	Yes	No	IP 21
orbital	2	250-1250	1.5	Yes	No	IP 31
orbital	2	80-800	4	Yes	No	IP 21
orbital	2	80-800	4	Yes	No	IP 21
orbital	3	30-300	16	Yes	No	5-40°C / IP 31
orbital	3	50-300	10	Yes	No	5-40°C / IP 20
orbital	7.5	10-500	10	Yes	No	IP 21
orbital	7.5	20-500	10	Yes	No	IP 21
orbital	8	20-500	10	Yes	No	IP 20
orbital	10	30-300	16	Yes	No	5-40°C / IP 31
orbital	15	0-300	30	Yes	No	IP 21
orbital	15	20-300	30	Yes	No	IP 20
orbital	15	20-300	30	Yes	No	IP 20
orbital	15.9	40-400	19	Yes	No	IP 20
orbital	15.9	15-500	19	Yes	No	IP 20
orbital	20	10-500	20	Yes	No	IP 30
orbital	20	10-500	20	Yes	No	IP 30
orbital	22.7	40-400	25.4	Yes	No	IP 20
orbital	22.7	15-500	25.4	Yes	No	IP 20
orbital	30	20-250	32	Yes	No	IP 20
orbital	30	20-250	32	Yes	No	IP 20
vibrating	0	0-2500	5	Yes	No	IP 22
vibrating	0	0-2500	5	Yes	No	IP 22
vibrating	1.2	100-1450	3	Yes	No	IP 20
vibrating	1.5	150-2000	3	Yes	No	IP 30
vibrating	2	150-1350	1,5	Yes	No	IP 30
vibrating	2	150-1350	3	Yes	No	IP 30
vibrating	2	150-1350	3	Yes	No	IP 30
vibrating	2	150-2500	1,5	Yes	No	IP 30
vibrating	5	150-1350	1,5	Yes	No	IP 40
reciprocating	5	30-250	32	Yes	No	IP 40
reciprocating	7.5	10-300	20	Yes	No	IP 21
reciprocating	7.5	20-300	20	Yes	No	IP 21
reciprocating	8	20-300	20	Yes	No	IP 20
reciprocating	10	20-400	20	Yes	No	IP 20
reciprocating	10	25-250	20	Yes	No	5-40°C / IP 31
reciprocating	15	0-300	30	Yes	No	IP 21
reciprocating	15	20-300	30	Yes	No	IP 20
reciprocating	15	20-300	30	Yes	No	IP 20
reciprocating, 360° rotation, vibration	0.5	10 - 100	-	Yes	Yes	4-40°C / IP 20
reciprocating, 360° rotation, vibration	0.8	10-100	-	Yes	Yes	4-40°C / IP 20
orbital	2	20-300	20	Yes	No	IP 30
orbital	5	30-500	10	Yes	No	IP 40
orbital	10	20-400	20	Yes	No	IP 20
wave	5	2-50	-	Yes	No	IP 40
wave	5	2-50	-	Yes	No	IP 40
wave	10	2,5-50	-	Yes	No	IP 20
wave	10	2,5-50	-	Yes	No	IP 20
wave, 3°	15	2-50	-	Yes	No	IP 20
wave, 3°	15	2-50	-	Yes	No	IP 20
overhead	0	6-80	-	Yes	No	IP 20
overhead	20	1-20	-	Yes	No	IP 20
rocking	5	2-50	-	Yes	No	IP 40
rocking	5	2-50	-	Yes	No	IP 40
rocking and rolling	5	33	16	No	No	4-60°C / IP 20
rocking and rolling	5	33	16	No	No	4-60°C / IP 20
rocking and rolling	5	5-60	16	Yes	No	4-60°C / IP 20
rocking and rolling	5	5-60	16	Yes	No	4-60°C / IP 20
rocking, 3°	15	2-50	-	Yes	No	IP 20
rocking, 3°	15	2-50	-	Yes	No	IP 20
rocking, 7°	0.5	7,5-30	-	Yes	No	4-40°C / IP 20
rocking, 7°	3	5-70	-	Yes	No	5-40°C / IP 30
rocking, 7°	10	5-70	-	Yes	No	5-40°C / IP 30
3D / fixed 20°	0.8	20	-	No	No	IP22
3D / 3-12°	3	5-70	-	Yes	Yes	5-40°C / IP 30
3D / 3-12°	10	5-70	-	Yes	Yes	5-40°C / IP 30
3D / fixed 5°	0.8	20	-	No	No	IP22
3D / fixed 7°	0.5	10-30	-	Yes	No	4-40°C / IP 20
3D / fixed 7°	5	3-60	-	Yes	No	IP22
3D 7° and rotation	1	5-30	22	Yes	Yes	4-40°C / IP 20
arc, 7.2°	3	8 - 800 osc.	-	Yes	No	IP 31

Shakers overview

Heating function	Cooling function	Incubating function	Product	Supplier	Cat. No.
No	No	No	Vortex Mixer VX-200	Labnet	9.595 320
No	No	No	Micro plate shaker PMS-1000	Grant	9.721 025
No	No	No	Rotator SB2	Stuart	9.645 322
No	No	No	Rotator SB3	Stuart	9.645 323
No	No	No	Mini-Vortex mixer PV-1	Grant	9.721 000
No	No	No	Shaker lab dancer	IKA	9.729 936
No	No	No	Microtiter shaker MTS 2/4 digital	IKA	9.838 195
No	No	No	Vortex Genius 3	IKA	9.729 950
No	No	No	Small-sized shaker MS 3 digital	IKA	9.729 939
No	No	No	Small-sized shaker MS 3 basic	IKA	9.729 938
No	No	No	Vortex mixer SA8	Stuart	9.720 969
No	No	No	Vortex mixer SA7	Stuart	9.950 433
No	No	No	Microtiter shaker SSM5	Stuart	9.728 850
No	No	No	Orbitalshaker Vibrax VXR basic	IKA	9.729 900
No	No	No	Microtiter shaker SSL5	Stuart	9.728 853
No	No	No	Orbital shaker KS 130 basic	IKA	9.838 150
No	No	No	Orbital shaker KS 130 control	IKA	9.838 155
No	No	No	Mini orbital shaker SSM1	Stuart	9.728 830
No	No	No	Orbital shaking platform POS-300	Grant	9.721 020
No	No	No	Laboratory shaker KS 260 control	IKA	9.838 175
No	No	No	Orbital shaker KS 260 basic	IKA	9.838 074
No	No	No	Shaker model 3005	GFL	9.837 905
No	No	No	Orbital shaker SSL1	Stuart	9.728 840
No	No	No	Orbital shaker KS 501 digital	IKA	9.838 040
No	No	No	Shaker model 3015	GFL	9.837 915
No	No	No	Shaker model 3017	GFL	9.837 917
No	No	No	Max Q 2000 analog	Thermo Sci.	4.011 045
No	No	No	Max Q 2000 digital	Thermo Sci.	4.011 057
Yes	No	Yes	Incubation shaker KS 4000i control	IKA	9.837 890
Yes	Yes	Yes	Incubation shaker KS 4000ic control	IKA	9.837 891
No	No	No	Max Q 3000 analog	Thermo Sci.	4.011 048
No	No	No	Max Q 3000 digital	Thermo Sci.	4.011 059
No	No	No	Shaker model 3019	GFL	9.837 919
No	No	No	Shaker model 3020	GFL	9.837 920
No	No	No	Test tubes shaker Reax top	Heidolph	9.730 040
No	No	No	Test tubes shaker Reax control	Heidolph	9.730 042
No	No	No	Vibration shaker 3023	GFL	9.837 921
No	No	No	Shaker Multi Reax	Heidolph	9.839 810
No	No	No	Microtiter plate shaker Titramax 100	Heidolph	9.839 831
No	No	No	Microtiter plate shaker Titramax 101	Heidolph	9.839 832
No	No	No	Shaker Vibramax 100	Heidolph	9.839 833
No	No	No	Shaker Vibramax 110	Heidolph	9.839 835
No	No	No	Microtiter plates shaker Titramax 1000	Heidolph	9.839 830
No	No	No	Shaker Promax 1020	Heidolph	9.839 853
No	No	No	Horizontal shaker HS 260 control	IKA	9.838 185
No	No	No	Horizontal shaker HS 260 basic	IKA	9.838 063
No	No	No	Shaker model 3006	GFL	9.837 906
No	No	No	Shaker Promax 2020	Heidolph	9.839 802
No	No	No	Reciprocating shaker SSL2	Stuart	9.728 841
No	No	No	Horizontal shaker IKA HS 501 digital	IKA	9.838 041
No	No	No	Shaker model 3016	GFL	9.837 916
No	No	No	Shaker model 3018	GFL	9.837 918
No	No	No	Multi function rotator PTR-30	Grant	9.721 027
No	No	No	Multi function rotator PTR-60	Grant	9.721 030
No	No	No	Shaker Rotamax 120	Heidolph	9.839 837
No	No	No	Shaker Unimax 1010	Heidolph	9.839 851
No	No	No	Shaker Unimax 2010	Heidolph	9.839 801
No	No	No	Shaker Polymax 1040 5°	Heidolph	9.839 857
No	No	No	Shaker Polymax 1040 10°	Heidolph	9.839 859
No	No	No	Shaker Polymax 2040 5°	Heidolph	9.839 804
No	No	No	Shaker Polymax 2040 10°	Heidolph	9.839 800
No	No	No	Shaker model 3011	GFL	9.837 911
No	No	No	Shaker model 3012	GFL	9.837 912
No	No	No	Test tube rotator 3025	GFL	9.837 925
No	No	No	Shaker model 3040	GFL	9.837 931
No	No	No	Shaker Duomax 1030 5°	Heidolph	9.839 855
No	No	No	Shaker Duomax 1030 10°	Heidolph	9.839 856
No	No	No	Roller mixer SRT6	Stuart	9.728 810
No	No	No	Roller mixer SRT9	Stuart	9.728 812
No	No	No	Roller mixer SRT6D	Stuart	9.728 811
No	No	No	Roller mixer SRT9D	Stuart	9.728 813
No	No	No	Shaker model 3014	GFL	9.837 914
No	No	No	Shaker model 3013	GFL	9.837 913
No	No	No	Mini platform rocker PMR-30	Grant	9.721 011
No	No	No	Mini-shaker SSM4	Stuart	9.728 821
No	No	No	See-saw shaker SSL4	Stuart	9.728 801
No	No	No	Shaker GyroMini 3-D	Labnet	9.595 330
No	No	No	Mini-shaker SSM3	Stuart	9.728 820
No	No	No	Gyratory shaker SSL3	Stuart	9.728 800
No	No	No	Shaker Enduro MiniMix 3-D	Labnet	9.595 331
No	No	No	Mini 3D platform mixer PS-3D	Grant	9.721 014
No	No	No	GyroTwister GX-1000 3-D	Labnet	6.227 093
No	No	No	Multi function rotator 3D mixer PS-M3D	Grant	9.721 017
No	No	No	Flask shaker SF1	Stuart	9.950 372



1 Globe Stirrer Couplings, POM

NEW!

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 BOLA 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

BOLA

Overall length mm	PK	Cat. No.
190	1	7.632 676



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 20mm diameter

Specifications

Speed range:	250 bis 3000rpm
Dimensions (WxDxH):	82 x 145 x 75mm
Temperature range:	4 to 45°C

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



3 Vortex Genie 2-Mixer

For shaking and mixing of small volumes. Stable housing with noise reducing feet. Continuous mixing control. Switch for constant or intermediate shaking. Supplied complete with shaking attachment for one 25ml test tube, 75mm disc for beakers, erlenmeyer flasks etc.

Specifications:

Speed range:	600 - 2700 min ⁻¹
Dimensions (WxDxH):	122 x 165 x 165mm
Weight:	4.0kg
Supply requirements:	220V 50 Hz, 250mA.

Description	PK	Cat. No.
Vortex Genie 2-Mixer	1	9.730 060



4 Vortex Mixer Select Vortex

Mix and vortex any size tube

SBP

- Gentle mixing or vigorous vortexing. Continuously variable speed makes the Select Vortex useful for a variety of applications, from gentle mixing to resuspending pellets.
- ease of operation. "Touch" or continuous mode.
- mix a variety of tubes and plates

Specifications

Speed range 120V	0 to 3400rpm
Speed range 230V	0 to 2850rpm
Operating modes	Touch or continuous
Dimensions (WxDxH)	14 x 16 x 13cm
Weight	2.2kg

Type	PK	Cat. No.
Vortex Mixer	1	9.595 320

Accessories for Vortex Mixer Select Vortex

SBP

Type	PK	Cat. No.
Head attachment for 24 x 1.5/2.0ml tubes, 24 x 0.5ml and 32 x 0.2ml tubes	1	9.595 321
Head attachment for 1 microplate or 64 x 0.2ml tubes or 8 x 0.2ml tube strips	1	9.595 322
Head attachment for 8 x 15ml and 8 x 12/13mm diameter tubes	1	9.595 323
Head attachment for 6 x 50ml tubes	1	9.595 324
Head attachment for 12 x 1.5/2.0ml tubes, held horizontally	1	9.595 325
Head attachment for 4 x 15ml tubes, held horizontally	1	9.595 326
Head attachment for 2 x 50ml tubes, held horizontally	1	9.595 327

2 Mixers, vortex, SA7, SA8

- Low profile, ergonomic design
 - Robust, die-cast housing avoids unnecessary movement during use
 - Powerful vortex mixing action, ideal for a range of tubes
 - Two models available
 - Economic fixed speed model SA7
 - Variable speed model SA8 with choice between intermittent or continuous operation
 - Integral retort rod fixing
 - Range of accessory heads available
- With BioCote, silver-based, antimicrobial protection.

Stuart



9.950 433

Specifications	SA 7/SA 8
Speed:	2500rpm/200 to 2500rpm
Orbit:	4.2mm
Continuous mode:	No/Yes
Accessory heads:	No/Yes
Maximum load:	0.5kg
Overall dimension:	78 x 135 x 215mm
Net weight:	3.2kg
Electrical supply:	90-240 V, 20W



Type	PK	Cat. No.
SA7	1	9.950 433
SA8	1	9.720 969
Accessory head for micro plates and micro tubes	1	9.720 970
Support rod 300 x 12.5mm	1	9.720 971

3 Test tube shaker, lab dancer

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

IKA



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 (Dia. 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!

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

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

NEW!

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 Shaker Vortex Genius 3

Vortex shaker suitable for intermittent operation (touch function), activated by pressing shaker attachment, or for continuous operation.

IKA

- 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

Specifications

Type of movement:	orbital/vortex
Orbital diameter:	4mm
Motor rating input/output:	58/10W
Speed range:	500 to 2500rpm
Speed indication:	scale 0 to 6
Dimensions (W x H x D):	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	1	9.729 950
VORTEX Genius 3 UK	1	4.008 061

Accessories for shaker Vortex Genius 3

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



4 Test tube shakers Reax top/control

Vibrating

Heidolph

Ideal for mixing samples in Eppendorf tubes, vials and similar vessels of different diameters at extremely high speed rates. The ridged mixing orbit yields consistent results and is ideal for product dissolution.

Reax top - The standard model

- The strong 5mm vibration orbit accomplishes best results even with high viscosity media or solids to give smooth and even dispersion quickly
- Switch to continuous mode, the unit performs a permanent vibration motion
- Switch to automatic mode, the unit will start once a vessel is pressed to the plate and will stop automatically once this pressure is released
- Fast and dependable mixing results due to high vibration frequency that rates up to 2500rpm
- Features an analog dial speed control, no settings of specified rpm numbers

Dimensions (W x H x D) [mm]: 134 x 105 x 172
Voltage/frequency: 230 V/50 Hz (others also available)

Reax control - The accurate model

Includes all Reax top features, plus:

- Features analog dial speed control with accurate rpm numbers setting
- Improve your results by the electronic speed control that provides constant rpm output even at very low speed and under changing loads



Type	PK	Cat. No.
Reax top, incl. attachment	1	9.730 040
Reax top, incl. attachment UK	1	9.730 041
Reax control, incl. attachment	1	9.730 042
Attachment, large, for tubes or flasks up to 50 ml	1	9.730 019



1 Test tube shakers Multi Reax

The all purpose - Vibrating

Heidolph

Shipment includes as standard:

- Attachment for 26 vessels with diameters from 10mm to 16mm
- Attachment for 12 vessels with diameters from 16mm to 32mm
- Your digital process timer allows for unattended operation and can be set from 1 to 999 minutes. After time expires this model sends an acoustic alarm and operation is stopped
- Set and continuously adjust the variable speeds from 150rpm to 2000rpm on the digital display
- The 3mm vibration orbit accomplishes excellent results especially in large vessels.
- The Multi Reax allows for ridged to smooth dispersion of viscous media and solids

Dimensions (wxhxd) (mm): 270 x 410 x 172
 Supply voltage: 230/240V/50/60 Hz or 115V/50/60 Hz

Description	PK	Cat. No.
Multi Reax	1	9.839 810
Carousel for 26 test tubes (10 to 16 mm dia.)	1	9.739 258
Carousel for 12 test tubes (16 to 32 mm dia.)	1	9.739 259



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



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		PK	Cat. No.
MS 3 basic EU/UK/CH/US	Continuous mode and touch operation	1	9.729 938 2
MS 3 digital EU/UK/CH/US	Timer and continous mode, touch operation	1	9.729 939 3

Accessories for Shaker MS 3

NEW!

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



6 Vibrating shaker, VXR basic Vibrax®

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 Vibrax®	1	9.729 900
VXR basic Vibrax® 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, Vibrax® VXR basic, accessory attachments

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).

VX 7 bowl attachment

For careful shaking of culture bottles, Petri dishes, etc.

VX 8 Universal attachment

For rapid and secure clamping, e.g. 2 Erlenmeyer flasks up to 500ml.

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 9
VX 7	410	210	40	1	9.729 907
VX 8	265	136	60	1	9.729 908





6.231 284

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.



9.729 915

Type	No. of holes	Diameter of holes mm	PK	Cat. No.
VX 11			1	6.231 284 1
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 2



3 4 5 Orbital shaker, KS 130 basic/ Package

NEW!

IKA

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

- 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.

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



Accessories for orbital shaker KS 130

IKA

AS 130.1 Universal attachment

Able to hold most types of container using adjustable tension rollers

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	Separating funnel 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
labworldsoft®	Software for control and data collection for KS 130 control		1	9.910 320

* 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.



9.838 160



9.838 161



9.838 162



9.838 163

6 Orbital shaker, KS 260 basic/ Package

NEW!

IKA

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

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



9.838 074



Specifications

Shaking motion:	Orbital
Orbit:	10mm
Max. loading (incl. attachment):	7.5kg
Motor rating input/output:	45/10W
Speed range:	20 to 500rpm
Speed indication:	LED scale
Timer:	5 to 50 min/continuous
Dimensions (WxDxH):	360 x 420 x 98mm
Weight:	8.5kg
Housing IP rating to DIN EN 60529:	IP21
Supply requirements:	230V 50/60Hz
Tested to DIN EN IEC 61010-1.	

Type	PK	Cat. No.
KS 260 basic	1	9.838 074
KS 260 basic Package (incl. 2 x STICKMAX, AS 260.3 Dish attachment)	1	9.838 075



9.838 175



2 Orbital shaker, KS260 control/ Package

NEW!

IKA

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.	

Type	PK	Cat. No.
KS260 control	1	9.838 175
KS 260 control Package (incl. 2 x STICKMAX, AS 260.3 Dish attachment)	1	9.838 176



3 Reciprocating shaker, HS260 basic

IKA

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

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

Specifications

Shaking motion:	reciprocating
Stroke:	20mm
Max. loading incl. attachment:	7.5kg
Motor rating input/output:	45/10 W
Speed range:	20 to 300rpm
Speed indication:	LED scale bar
Timer:	5 to 50 min/continuous
Dimensions (WxDxH):	360 x 420 x 100mm
Weight:	8.5kg
Housing IP rating to DIN EN 60529:	IP21
Supply requirement:	230V 50/60Hz
Tested to DIN EN IEC 61010-1.	

Type	PK	Cat. No.
HS260 basic	1	9.838 063

1 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

IKA



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.	

Type	PK	Cat. No.
HS 260 control	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

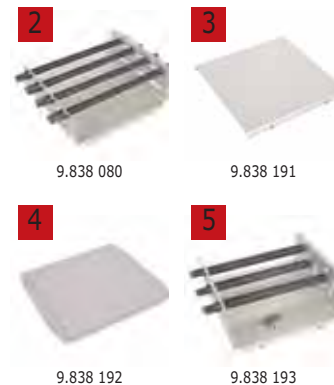
For gentle mixing and suspension of cell cultures or growth media in petri dishes, culture bottles and containers.
With integral anti-slide mat (PP).

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
labworldsoft®	Software for control and data collection for HS/KS 260 control		1	9.910 320

* 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.



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:	orbital
HS 501 digital:	reciprocal
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.	

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

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



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/ic 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





1 Shaker Multi Vortex Genie®

NEW!

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):	310mm x 270mm x 195mm
Weight:	11.3kg
Supply requirements:	230V, 50Hz
Speed range:	250rpm to 950rpm

Description	PK	Cat. No.
Multi Vortex-Genie®	1	9.730 090



2 Shaker Orbital-Genie®

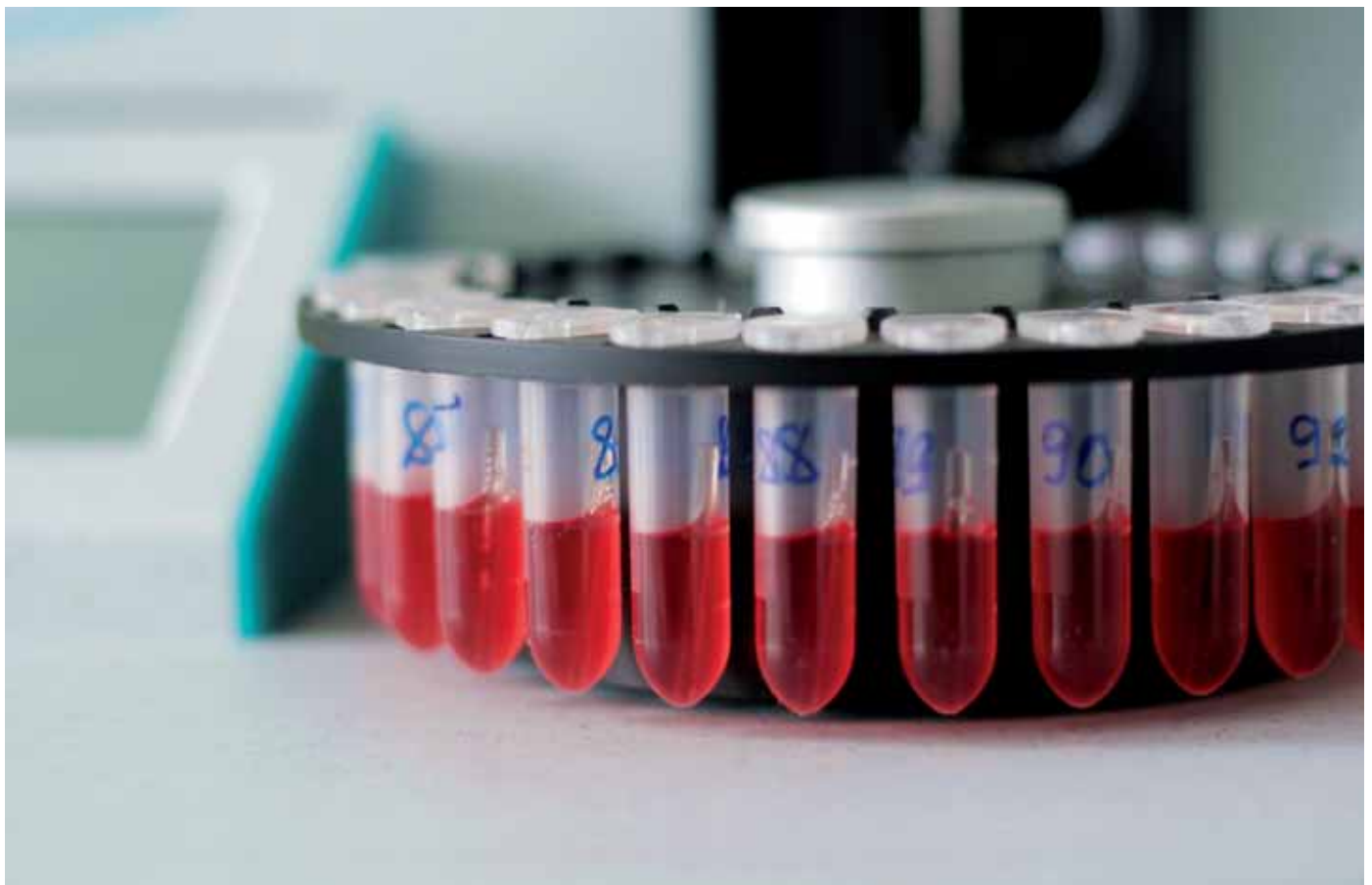
NEW!

Benchtop Orbital Shaker with Universal Ratcheting Clamps provides the flexibility for using a mix of different size and shape vessels on a single platform. Unit is supplied with two ratcheting and one non-ratcheting cushioned clamps. Extra ratcheting clamps for more than two rows of smaller vessels are optional.

Specifications

Type of movement:	orbital
Dimensions (WxDxH):	310mm x 270mm x 195mm
Weight:	12kg
Supply requirements:	230V, 50Hz
Speed range:	10 to 300rpm

Description	PK	Cat. No.
Orbital-Genie®	1	9.730 091



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

1 Platform shakers Titramax 100/101/1000

Vibrating

Heidolph

Your advantages

- Rule out accidents: all models have been designed with a low centre of gravity which prevents gliding at high speed, even on a damp surface
- Choose between different shaking motions, orbits, angles and load capacities the right model for your specific application
- Unlimited visual reaction control at all times: the transparent, non-fogging PETG material offers it all
- For applications in microbiology: insulated drive system prevents any heat-up coming from the motor and consequently thermal damage to your sample
- Immediate access: optional incubator hood opens instantly and interlocks in any position
- An over temperature sensor preventatively shuts off the unit in a dangerous heat-up situation, particularly valuable for you in case of unattended continuous operation



Titramax 100 - The compact model

- Titramax 100 is a compact and space saving unit that accepts load capacities of 2kg and space for 4 microtiter plates
- Your analog process timer allows for unattended operation and can be set from 1 to 120 mins. After time expires this model sends an acoustic alarm and operation is stopped
- Set and continuously adjust the variable speed on the analog control knob from 150rpm to 1350rpm
- The 1.5mm vibration orbit performs gentle mixing with best results using small sample volumes

Titramax 101 - The strong model

- Includes all Titramax 100 features, plus:
- The 3mm vibration orbit accomplishes better results with higher volume samples than the Titramax 100 to yield consistent mixing of samples in the plate

Titramax 1000 - The incubating model

- Includes all Titramax 100 features, plus:
- The use of 6 microtiter plates increases your throughput by 50%
- The 1.5mm vibration orbit performs gentle mixing with best results using small sample volumes
- Titramax 1000 is a medium sized model and accepts load capacities of 5kg
- This model is suitable for the modular incubator system and is recommended for applications which require variable temperature control of up to 65°C

Type	Orbit mm	Rotation speed rpm	Max. no. plates	Width mm	Depth mm	Height mm	PK	Cat. No.
Titramax 100	1,5	150 - 1350	4	245	310	125	1	9.839 831
Titramax 101	3,0	150 - 1350	4	245	310	125	1	9.839 832
Titramax 1000	1,5	150 - 1350	6	320	375	125	1	9.839 830

Platform shakers Vibramax 100/110

Vibrating

Heidolph

Vibramax 100 - The compact model

- A large selection of attachments is provided for the use of various vessels and sizes
- Vibramax 100 is a compact and space saving unit with a load capacity of 2kg
- The 3mm vibration orbit gives excellent results especially in large vessels, allows for smooth to ridged mixing of viscous media and solids
- Set and continuously adjust the variable speed on the analog control knob from 150rpm to 1350rpm
- Analog process timer allows for unattended operation and can be set from 1 to 120 minutes. After time expires this model sends an acoustic alarm and operation is stopped
- Optional attachments with tension rollers accepts any glassware size



9.839 833

Vibramax 110 -The efficient model

includes all Vibramax 100 features, plus:

- The shaking orbit of 1.5mm performs a gentle motion for sensitive samples
- Set and continuously adjust the variable speed on the analog control knob from 150rpm to 2500rpm
- Ideal for the optional attachment to use 49 test tubes that increases your throughput significantly



9.839 835

Type	Orbit mm	Rotation speed rpm	Max. Internal loading kg	Internal dimensions (W x D x H) mm	PK	Cat. No.
Vibramax 100	3,0	150 - 1350	2	245 x 310 x 125	1	9.839 833
Vibramax 110	1,5	150 - 2500	2	245 x 310 x 140	1	9.839 835

Attachments are not included - Please order separately



1 Platform shakers Duomax 1030 - rocking

Duomax 1030 - The incubating model

Heidolph

- This model is suitable for the modular incubator system and is recommended for applications which require variable temperature settings
- Choose your angle between these two options: Tilt angle to 5° for soft and gentle movements or tilt angle to 10° for a much stronger motion
- Set and continuously adjust the variable speed on the analog control knob from 2rpm to 50rpm, ideal for media bottles
- Analog process timer allows for unattended operation and can be set from 1 to 120 minutes. After time expires this model sends an acoustic alarm and operation is stopped
- The Duomax 1030 is a medium sized model and accepts load capacities of 5kg

Type	Angle	Rotation speed rpm	Max. loading kg	PK	Cat. No.
Duomax 1030	5	2 - 50	5	1	9.839 855
Duomax 1030	10	2 - 50	5	1	9.839 856



2 Platform shakers Polymax 1040/2040 - wave

Polymax 1040 - The incubating model

Heidolph

- This model is suitable for the modular incubator system and is recommended for applications which require variable temperature control up to 65°
- Choose your angle between these two options: Tilt angle to 5° for soft and gentle movements or tilt angle to 10° for a much stronger motion
- Use this model for any vessel, from culture plates, media bottles and Erlenmeyer flasks, there is no limit
- Set and continuously adjust the variable speed on the analog control knob from 2rpm to 50rpm, ideal for cell culture plates
- Your analog process timer allows for unattended operation and can be set from 1 to 120 minutes. After time expires this model sends an acoustic alarm and operation is stopped
- The Polymax 1040 is a medium sized model and accepts load capacities of 5kg

Polymax 2040 - The resilient model

includes all Polymax 1040 features, plus:

- Set and continuously adjust the variable speed on the digital display from 2.5rpm to 50rpm, ideal for cell culture plates
- Your digital process timer allows for unattended operation and can be set from 1 to 120 minutes. After time expires this model sends an acoustic alarm and operation is stopped
- The Polymax 2040 is a large model and accepts load capacity of 10kg for high sample throughput

Type	Angle	Rotation speed rpm	Max. loading kg	Dimensions (W x D x H) mm	PK	Cat. No.
Polymax 1040	5	2 - 50	5	320 x 375 x 195	1	9.839 857
Polymax 1040	10	2 - 50	5	320 x 375 x 195	1	9.839 859
Polymax 2040	5	2,5 - 50	10	426 x 435 x 208	1	9.839 804
Polymax 2040	10	2,5 - 50	10	426 x 435 x 208	1	9.839 800



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

Platform Shakers Rotamax 120/Unimax 1010/2010 - orbital

Rotamax 120 - The compact model

Heidolph

- Wide range of accessories, attachments and clamps for up to 16 Erlenmeyer flasks available
- The shaking orbit of 20mm performs a gentle motion for sensitive samples and supports culture plates and Erlenmeyer flasks
- Set and adjust continuously variable speed on the analog control knob from 20rpm to 300rpm
- Your analog process timer allows for unattended operation and can be set from 1 to 120 minutes. After time expires this model sends an acoustic alarm and operation is stopped
- Rotamax 120 is a compact and space saving unit that accepts load capacities of 2kg and offers space for 4 medium sized culture plates



9.839 837

Unimax 1010 - The incubating model

includes all Rotamax/Unimax features, plus:

- This model is suitable for the modular incubator system and is recommended for applications which require variable temperature control up to 65°C
- The shaking orbit of 10mm performs a gentle motion for sensitive samples and supports culture plates and Erlenmeyer flasks
- Set and continuously adjust the variable speed on the digital display from 30rpm to 500rpm
- Your digital process timer allows for unattended operation and can be set from 1 to 999 minutes. After time expires this model sends an acoustic alarm and operation is stopped
- The Unimax 1010 is a medium sized model and accepts load capacities of 5kg



9.839 851

Unimax 1010 package

Includes

- 1 x orbital platform shaker Unimax 1010
- 1 x heating modul
- 1 x high incubator hood

Unimax 2010 - The resilient model

includes all Unimax 1010 features, plus:

- The shaking orbit of 20mm performs a gentle motion for sensitive samples and supports culture plates and Erlenmeyer flasks
- Set and adjust continuously variable speed on the digital display from 20rpm to 400rpm
- Your digital process timer allows for unattended operation and can be set from 1 to 120 minutes. After time expires this model sends an acoustic alarm and operation is stopped
- Increase your sample throughput with the optional multi-tier attachment for a variety of vessel sizes
- The Unimax 2010 is a large model and accepts a load capacity of 10kg for high sample throughput



9.839 801

Type	Orbit mm	Rotation speed rpm	Max. loading kg	Dimensions (W x D x H) mm	PK	Cat. No.
Rotamax 120	20	20 - 300	2	245 x 310 x 125	1	9.839 837
Rotamax 120 UK	20	20 - 300	2	245 x 310 x 125	1	9.839 799
Unimax 1010	10	30 - 500	5	320 x 125 x 375	1	9.839 851
Unimax 1010 UK	10	30 - 500	5	320 x 125 x 375	1	9.839 797
Unimax 1010 Package	10	30 - 500	5	320 x 125 x 375	1	9.839 839
Unimax 2010	20	20 - 400	10	426 x 135 x 435	1	9.839 801

Attachments are not included - Please order separately

4 Platform shakers Promax 1020/2020 - reciprocating

Promax 1020 - The incubating model

Heidolph

- This model is suitable for the modular incubator system and is recommended for applications which require variable temperature control up to 65°C
- Wide range of accessories, attachments and clamps for separatory funnels available
- With a stroke length of 32mm the Promax model performs an ideal motion for separatory funnels
- Set and continuously adjust the variable speed on the digital display from 30rpm to 250rpm
- Your digital process timer allows for unattended operation and can be set from 1 to 999 minutes. After time expires this model sends an acoustic alarm and operation is stopped
- The Promax 1020 is a medium sized model and accepts load capacities of 5kg



Promax 2020 - The resilient model

includes all Promax 1020 features, plus:

- With a stroke length of 20mm this Promax model can mix larger volumes with ease
- Set and continuously adjust the variable speed on the digital display from 20rpm to 400rpm; ideal for separations
- Your digital process timer allows for unattended operation and can be set from 1 to 120 minutes. After time expires this model sends an acoustic alarm and operation is stopped
- The Promax 2020 is a large model and accept a load capacity of 10kg for high sample throughput

Type	Orbit mm	Rotation speed rpm	Max. loading kg	Dimensions (W x D x H) mm	PK	Cat. No.
Promax 1020	32	20 - 250	5	320 x 375 x 125	1	9.839 853
Promax 2020	20	20 - 400	10	426 x 435 x 135	1	9.839 802

1

1 Accessories for shakers and mixers

NEW!
Temperature Controlled Shaking

Heidolph

Type	Class	PK	Cat. No.
Attachment with 2 tension rollers	B	1	9.839 844
Test tube attachment for up to 49 test tubes, 12 x 80mm dia. x L	C	1	9.839 841
Test tube attachment for up to 36 test tubes, 16 x 80mm dia. x L	C	1	9.839 842
Attachment for up to 22 x 25ml erlenmeyer flasks	D	1	9.839 861
Attachment for up to 14 x 50ml erlenmeyer flasks	D	1	9.839 862
Attachment for up to 9 x 100ml erlenmeyer flasks	D	1	9.839 863
Attachment for up to 5 x 250ml erlenmeyer flasks	D	1	9.839 864
Attachment for up to 4 x 500ml erlenmeyer flasks	D	1	9.839 865
Attachment for up to 2 x 1000ml erlenmeyer flasks	D	1	9.839 866
Attachment with 2 tension rollers	D	1	9.839 869
Spare tension roller	D	1	9.839 870
Attachment for up to 4 conical separating funnels, 50ml or 100ml	D	1	9.839 871
Universal perforated platform 1000	D	1	9.839 814
Universal perforated platform 2000	E	1	9.839 813
Size 1, 25ml erlenmeyer clamp with attachment clip for the perforated platform, max. 36 per platform	B, C, D, E	1	9.839 816
Size 2, 50ml erlenmeyer clamp with attachment clip for the perforated platform, max. 36 per platform	B, C, D, E	1	9.839 817
Size 3, 100ml erlenmeyer clamp with attachment clip for the perforated platform, max. 23 per platform	B, C, D, E	1	9.839 818
Size 4, 250ml erlenmeyer clamp with attachment clip for the perforated platform, max. 12 per platform	B, C, D, E	1	9.839 819
Size 5, 500ml erlenmeyer clamp with attachment clip for the perforated platform, max. 9 per platform	B, C, D, E	1	9.839 821
Size 6, 1000ml erlenmeyer clamp with attachment clip for the perforated platform, max. 5 per platform	B, C, D, E	1	9.839 822
Size 7, 2000ml erlenmeyer clamp with attachment clip for the perforated platform, max. 3 per platform	B, C, D, E	1	9.839 820
Size 1 separatory funnel clamp for platform 2000 (250 ml - max. 4, 500/1000ml - max. 3 per platform)	E	1	9.839 823
Size 2 separatory funnel clamp for platform 2000 (2000 ml - max. 2 per platform)	E	1	9.839 827
Frame for tension roller only. Supplied without tension roller	E	1	9.839 811
Tension roller and frame complete. Order at least 2	E	1	9.839 812
Multi-storey attachment. Includes perforated platform 2000 and 4 supporting rods	E	1	9.839 826
Test tube stand for up to 6 Eppendorf vessels (1.5ml)		1	6.229 903
Tension plate for caps allows for the use of common bottles with dia. 94mm		1	7.055 418
V2A support rod with vessel holder		1	9.730 021
Attachment for 10 test tubes 10 or 60mm		1	9.730 045
Adapter for 20 test tubes dia. 10 to 18mm		1	9.730 222
Universal adapter (for flasks, bottles, test tube racks, etc.)		1	9.730 223
Set of holders for four 1l bottles		1	9.839 808
Set of holders for four 0.5l bottles		1	9.839 809

2

3

2 3 Shakers, 3000 series

Housing made of high impact strength polystyrene, finished in off-white.

GFL

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.

Digitally 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.

1 Shaker 3005

With orbital motion.

GFL

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):	380 x 510 x 140mm
Platform (W x D):	330 x 330mm
Max. loading:	max. 8kg
Type of movement:	orbital
Orbit:	10mm
Shaking speed:	20 to 500rpm
Supply requirements:	230V 50/60Hz, 82 W
Net/Gross weight:	10/12kg
Timer:	up to 60 min or continuous operation

Type	PK	Cat. No.
3005	1	9.837 905



2 Shaker 3006

With reciprocating motion.

GFL

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.

Technical Specification:

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.
Supply requirements:	230V 50/60Hz, 65W
Net/gross weight:	10/12kg
Timer:	up to 60 min. or continuous operation

Type	PK	Cat. No.
3006	1	9.837 906



3 Shakers 3011 and 3012

With orbital rocking motion.

GFL

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)

Technical Specifications

Overall (WxDxH):	510 x 625 x 168mm
Platform (W x D):	450 x 450mm
Max. loading:	max. 15kg
Type of movement:	Three-dimensional, orbital rocking
Platform angle:	3°
Shaking speed:	2 to 50rpm.
Supply requirements:	
3011:	230V 50/60Hz, 90W
3012:	230V 50 or 60 Hz, 90W*
Net/gross weight:	18/22kg
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	PK	Cat. No.
3011	1	9.837 911
3012**	1	9.837 912

* Please specify when placing your order !

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





1 Shakers 3013 and 3014

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

Type	PK	Cat. No.
3013	1	9.837 913
3014**	1	9.837 914

* Please specify when placing your order!

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



2 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	PK	Cat. No.
3015	1	9.837 915
3017**	1	9.837 917

* Please specify when placing your order!

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

1 Shakers 3016 and 3018

With reciprocating motion.
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.
Supply requirements:	
3016:	230V 50/60Hz, 65W
3018:	230V 50/60Hz, 65W*
Net/gross weight:	18/22kg
Timer:	
3016:	Up to 60 min. or continuous operation
3018:	1 min. up to 99:59h. or continuous operation
Model 3018:	is microprocessor controlled

Type	PK	Cat. No.
3016	1	9.837 916
3018**	1	9.837 918

* Please specify when placing your order.

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

2 Shakers 3019 and 3020

With orbital motion.
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)

GFL



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	PK	Cat. No.
3019	1	9.837 919
3020**	1	9.837 920

* Please specify when placing your order.

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

4. Stirring, Shaking, Mixing

Shakers and mixers/Multidimensional shakers



1 Shaking Trays

Made of stainless steel with holes to accommodate clamps for Erlenmeyer flasks and other accessory equipment. GFL

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 clamps 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 Clips for Erlenmeyer Flasks

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

Type	For flasks ml	Clips required	Clips required	Clips required	PK	Cat. No.
		shaker Model 3005, 3006	shaker Model 3011 to 3018	shaker Model 3019, 3020		
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 (see also Shaking Incubator 3031, 3032 and 3033). GFL

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 Funnel

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



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

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

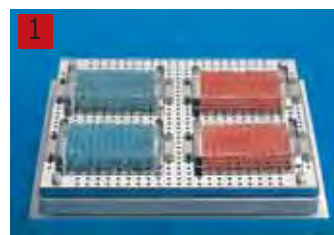
1 Holding Frame for a Test Plate

Stainless steel, for securing a test plate.
Screws onto shaking trays 3950, 3966 and 3980 (see also **Shaking Incubator 3031**).
Supplied with attachment material.

GFL

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

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	Length	PK	Cat. No.
		mm	mm		
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.

GFL

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.

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





9.728 830

3 Shaker SSM1

- Smooth orbital shaking action
- Built-in digital timer
- Variable speed control 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 to 999 minutes on the built-in digital timer, or the unit can also be set for continuous operation.

With BioCote, silver-based, antimicrobial protection.



9.728 831

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	PK	Cat. No.
SSM1	Shaker, orbital, mini	1	9.728 830 1
SSM1/1	Accessory cradle with 4 securing bars	1	9.728 831 2

Attachments are not included - Please order separately



4 5 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:	SSM3/SSM4 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	PK	Cat. No.
SSM3	Rocker, gyratory, mini	1	9.728 820
SSM4	Rocker, see-saw, mini	1	9.728 821

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

2 Shakers, large platform, SSL1 & SSL2

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

Stuart

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 six 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 8 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

Type	Description	PK	Cat. No.
SSL1	Shaker, orbital, large platform	1	9.728 840
SSL2	Shaker, reciprocating, large platform	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.



9.728 840



5 Rocking shakers SSL3/ SSL4, large platform

- Large platform rockers - ideal for multiple users
- Gentle rocking action
- Choice of two models
- 3D 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 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 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:	3D gyratory/See-saw wave
Platform dimensions (W x D):	355 x 355mm/335 x 355mm
Speed range:	5 to 70rpm/5 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):	360 x 420 x 170mm/360 x 420 x 160mm
Net weight:	10kg/10kg
Supply requirements:	230V, 50Hz, 50W

Type	Description	PK	Cat. No.
SSL3	Rocker, gyratory, lab scale	1	9.728 800
SSL4	Rocker, see-saw, lab scale	1	9.728 801

Attachments are not included - Please order separately



9.728 800



9.728 801





1 GyroTwister™/Gyro Twister Ad

- gyratory action provides gentle, thorough mixing
- Ideal for staining gels, washing membranes and mixing samples in tubes
- fixed angle and adjustable tilt models
- safe for cold room or incubator use

Labnet

- platform: 30 x 30 cm
- speed range: 3-60rpm
- timer: 20 to 120 min or continuous
- Motion/Pitch: 3D/adjustable $\pm 10^\circ$
- Motion/Pitch: 3D/Fixed 7° pitch
- max. load: 5kg
- operating range: $+4^\circ$ to 70°C
- dimensions: 33 x 35.2 x 21cm
- weight: 6.6kg
- electrical: 230V, 50/60Hz

Shaker comes with 30cm x 30cm non-slip platform and dimped tube mat.

Description	PK	Cat. No.
GyroTwister Adjustable	1	6.227 093
Dimpled mat, 30 x 30cm, for holding tubes	1	6.227 094
GyroTwister 3-D Shaker	1	9.595 334
Staking platform 30 x 30cm, with hardware	1	9.595 335
Large platform, 40 x 40cm, with non-slip rubber mat	1	9.595 336
Extra large platform, 50 x 50cm, with non-slip rubber mat	1	9.595 337
Elasticated tie-down	4	9.595 338



2 3D platform rotator PS-3D

Smooth 3D orbital motion for mixing in tubes, culture flasks, dishes and boxes.

Grant

- ideal size for personal use
- variable speed: 10 to 30rpm
- operating range: $+5^\circ$ to $+40^\circ\text{C}$
- fixed position: 7° tilt angle
- Loads up to 0.5kg
- 215 x 215mm platform

Type	PK	Cat. No.
PS-3D	1	9.721 014



3 Multi-function 3D rotator PS-M3D

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

Grant

- multi function: rotation, reciprocation, vibration
- reciprocal 3D rotation: 1 to 360°
- vibration: 1 to 6°
- loads up to 1kg
- variable speed: 5 to 30rpm
- fixed position: 7° tilt angle
- 215 x 215mm platform

Type	PK	Cat. No.
PS-M3D	1	9.721 017



Accessories for 3D 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
PTP-26	Adaptor for 26 tubes up to 11mm dia.	1	9.721 012



9.721 013



9.721 012

3 3D-Mini Twist and Mini Mixer

The Mini Twist and Mini Mixer are small mixers that combine the motions of an orbital shaker and a rocker to produce a three dimensional action. This action provides thorough yet gentle mixing without foaming. The pitch and speed of the Mini Twister are fixed. A dimpled mat on the platform surface holds tubes firmly in place. The mat will hold as many as 60 x 1.5ml tubes, 30 paediatric blood tubes (3ml), 21 standard blood tubes (7ml), 17 x 15ml tubes or 9 x 50ml tubes. The Mini Mixer has a pitch and speed that produces the perfect motion for processing western blots and staining gels. The tilt angle is large. Both shakers may be used in temperature controlled environments.

SBP



- gyratory action provides gentle, thorough mixing
- Mini Twist: Perfect for centrifuge and blood tubes
- Mini Mixer: Designed for processing blots and staining gels
- optimal fixed speed and pitch
- safe for temperature controlled environments

Blot boxes

- 2 sizes: medium and large
- hinged lid and positive catch

Supplied with:

Mini Twist incl. positioning mat
Mini Mixer incl. anti-slip mat and 2 large blot boxes

Specifications

Speed range	20rpm
Motion/Pitch	Mini Twist: 3-D/fixed 20° Mini Mixer: 3-D/fixed 5°
Maximum load	0.8 kg
Ambient operating range	+4° to 65°C
Dimensions (WxDxH):	Mini Twist: 24.1 x 17.15 x 15.24 cm Mini Mixer: 24 x 17.5 x 15cm
Weight	0.88kg
Electrical supply	230V, 50 Hz

Description	PK	Cat. No.
Mini Twist 3-D shaker	1	9.595 330
Mini Mixer 3-D shaker	1	9.595 331
Blot Box 9.1 x 6.6 cm, 3-5 ml	10	9.595 332
Blot Box 11.7 x 8.9 cm, 6-10ml	10	9.595 333

4. Stirring, Shaking, Mixing

Shakers and mixers/Multidimensional shakers



1 Orbital Shaker PSU-10i

NEW!

Grant

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

- Variable shaking speed: 30rpm to 450rpm
- Interchangeable platforms for use with a variety of vessels
- Loads up to 3kg
- Continuous or timed operation with automatic switch-off
- Reliable direct drive system
- Automatic load balancing system
- The four interchangeable accessory platforms enable a wide choice of vessels to be used, including bottles, flasks and beakers, dishes, boxes and petri-dishes.

Type	PK	Cat. No.
PSU-10i	1	9.721 019

Accessories for Orbital shaking platform PSU-10i

Grant

Type	Description	PK	Cat. No.
Bio PP-4	Flat platform	1	9.721 022 2
PUP-12	Universal platform	1	9.721 021 3
P12-100	Platform with clamps for 12 x 100ml flasks / 150ml beakers	1	9.721 023 4
P6-250	Platform with clamps for 6 x 250ml flasks / 400ml beakers	1	9.721 024 5



9.721 022



9.721 021



9.721 023



9.721 024

6 Platform rocker PMR-30, fixed tilt

Grant

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

- side to side rocking motion
- variable speed: 7.5 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	PK	Cat. No.
PMR-30	1	9.721 011



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

1 2 Flask shaker SF1

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

Stuart



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

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

NEW!

Grant

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

- Multi-function: vertical rotation, reciprocation, vibration
- Continuous or timed operation for each phase
- Choice of two models with different speeds and microtube capacities
- Speed: 10rpm 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

Variable speed

PTR-30: 5 to 30rpm

PTR-60: 5 to 60rpm

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



Platform for multi-function-rotators PTR-35

Grant

Type	For	PK	Cat. No.
PRS-5-12	5/12 tubes up to dia. 30/15mm	1	6.241 460 4
PRS-10	10 tubes up to dia. 30mm	1	9.721 038 5
PRSC-10	10 tubes up to dia. 30mm, with clips	1	9.721 039 6
PRSC-22	22 tubes up to dia. 15mm, with clips	1	9.721 040 7



6.241 460



9.721 038



9.721 039



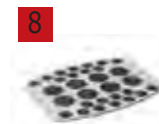
9.721 040

Platform for multi-function-rotators PTR-60

NEW!

Grant

Type	For	PK	Cat. No.
PRS-8-26	8/22 tubes up to dia. 30/15mm	1	9.721 031 8
PRS-14	14 tubes up to dia. 30mm	1	9.721 032 9
PRS-48	48 tubes up to dia. 15mm	1	9.721 048



9.721 031



9.721 032



1 Test Tube Rotator 3025

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. GFL

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 80rpm.
 Supply requirements: 230V 50/60Hz, 80W
 Net/gross weight: 10/12kg

Type	PK	Cat. No.
3025	1	9.837 925



2 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 v-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 Specification

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



3 Overhead Shaker Reax 2

- Quickly clamps in 2 vessels of any size and accepts load capacities up to 1kg
- Speed continuously adjustable from 20rpm to 100rpm
- Universal adapter allows for the use of various vessels of 50mm to 160mm height
- In addition an optional adapter is available for the use of 20 test tubes at a time

Heidolph

Speed: 20 to 100rpm, electronically controlled
 Size (B x T x H): 510 x 235 x 180mm
 Weight: 5.2kg
 Mains supply: 230V/50Hz

Type	PK	Cat. No.
REAX 2	1	9.730 221

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

1 Overhead shakers Reax 20

- Overhead Shaker for 4, 8 or 12 bottles
- Set and continuously adjust the variable speed on the analog control knob from 1rpm to 16rpm, ideal for waste water analysis. DIN38414-4 conformed.
- Other rotation speeds available upon request, for example 0.5rpm to 8rpm or 2rpm to 32rpm
- Easy and fast attachments of bottles
- Other vessels with 160mm to 290mm height and max. 136mm diameter can be used with a tension plate accessory

Heidolph



Type	Width mm	Depth mm	Height mm	PK	Cat. No.
Reax 20 / 4	490	520	465	1	9.839 805
Reax 20 / 8	770	520	465	1	9.839 806
Reax 20 / 12	1050	520	465	1	9.839 807

2 3 Rotator drive unit 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 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 6kg. Requires accessory drums for operation. With BioCote, silver-based, antimicrobial protection.

Stuart



Type	PK	Cat. No.
STR4	1	9.950 375



4 5 Drum STR4/1 for rotator drive unit 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.

Stuart



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



Accessory plates for STR4/1

To fit drum 9.950 376. Fitted with clips to accept tubes vertically. Supplied in pairs.

Stuart

No. of tubes	Dia. 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

6 7 Drum, flask, STR4/2 for rotator drive unit 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.

Stuart



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



4. Stirring, Shaking, Mixing

Shakers and mixers/Multidimensional shakers



1 2 Drum figure-of-8 STR4/3 for rotator drive unit 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.

Stuart



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



3 4 Bottle holder STR4/4 for rotator drive unit STR4

Perspex four segment cradle with velcro straps for STR4. Holds 2 to 4 bottles each up to 1000ml capacity.

Stuart

With BioCote, silver-based, antimicrobial protection.



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



6 Rack cradle STR4/5 for rotator drive unit STR4

Holds four acrylic racks for end over end mixing of Eppendorf tubes by STR4. The racks fit under the cradle plates and are held by clips ensuring that the tube lids are pressed firmly against the plate and thus remain sealed. Supplied with four racks, each with a capacity of 60 Eppendorf tubes.

Stuart

With BioCote, silver-based, antimicrobial protection.

9.950 386



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



8 Roller mixers

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:

Amplitude:	16mm
Maximum load:	5kg
Roller size (l x d):	340 x 30mm
Power supply:	230 V, 50Hz, 50W

9.728 811



Description	Dimensions (W x D x H) mm	Rotation speed rpm	Weight kg	PK	Cat. No.
6 rollers, analogue	565 x 240 x 110	33	5.1	1	9.728 810
6 rollers, digital	565 x 240 x 110	5 to 60	5.1	1	9.728 811
9 rollers, analogue	565 x 360 x 110	33	6.9	1	9.728 812
9 rollers, digital	565 x 360 x 110	5 to 60	6.9	1	9.728 813

Stacking system for roller mixers

Stuart

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

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

3 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.

Stuart

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

SB2:
Fixed speed of 20rpm.

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

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 1
SB3	1	9.645 323 2



9.645 322



9.645 323



4 Tube holders for rotators SB2/SB3

Stuart

Type	For	No. of vessels	PK	Cat. No.
SB3/1	Micro tubes, 10 to 11.5mm dia.	40	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



4

1


1 Orbit™ P2 Digital Shaker for 2 microplates

Labnet

These vortexers accept all standard microplates. Retaining springs on the contoured steel platform hold samples in place. The Orbit P2 holds two microplates

- large digital display with single knob control
- suitable for cold room or incubator use
- electrical: 230V, 50Hz

Shaker comes with platform for 2 microplates.

Specifications

Speed range	100 to 1200rpm
Timer	0 to 99 minutes or continuous
Motion	Circular
Orbit size	3mm
Maximum capacity	2 microplates
Maximum load	0.3kg
Ambient operating range	+4° to 65°C
Base dimensions(WxDxH)	16.8 x 27.9 x 15.3cm
Weight	4.3kg
Electrical supply:	230V, 50 Hz

Description	PK	Cat. No.
Orbit™ P2 Digital Shaker	1	9.595 328

2


2 Microtitre shaker MTS 2/4 digital

IKA

Dedicated shaker for two or four microtitre plates. Orbital movement.

- Electronic speed regulation
- Digital timer
- Acoustic signal at end of timed period
- With attachment but without plates

Specifications

Motor rating input/output:	35/13.2W
Orbit:	3mm
Capacity:	two or four microtitre plates
Speed range:	0 to 1100rpm
Speed range:	Analogue scale
Timer:	1 to 99 min/ continuous
Dimensions (WxDxH):	185 x 320 x 105mm
Weight:	2.7kg
Housing IP rating to DIN EN 60529:	IP 21
Supply requirements:	230V 50/60Hz
Tested to DIN EN IEC 61010-1.	

Type	PK	Cat. No.
MTS 2/4 digital	1	9.838 195

3


3 Microplate shaker PMS-1000

Grant

Reliable, regulated shaking for two or four microplates. Simple screw attachments allow quick and easy fitting of any standard depth 96 or 384 well plates, holding the plate securely in place.

- variable speed: 150rpm to 1000rpm
- orbit: 2mm
- continuous or timed operation
- integral timer: 1 min to 24 hours
- standard option for two microplates
- optional platform MPP-4 for four microplates
- ambient 5°C to 40°C

Type	Description	PK	Cat. No.
PMS-1000	Microplate shaker	1	9.721 025
MPP-4	Platform for 4 micro plates	1	9.721 026

1 Incubator Shaker KS4000i control

IKA

Innovative incubator shaker design allowing unattended operation in a temperature-controlled environment.

- large LED display for speed and time settings
- controls with antimicrobial coating for reduction of bacteria
- integrated PID temperature control (two Pt1000 temperature sensors can be used)
- socket in the work area for connection of an additional temperature sensor e.g. PT1000.60 (included in delivery)
- electronic temperature and speed control
- electronic timer switch: 0 to 999h (set by the minute or by the hour)
- optional built-in cooler for connection to an external cooling unit e.g. KV600
- unit switches off automatically if disturbed
- unit stops automatically when hood is lifted
- collecting tray for spillages with draining tube at rear of unit
- all functions can be controlled and documented using labworldsoft® software
- attachments not included - Please order accessories as required

Specifications

Shaking movement:	orbital
Orbit:	20mm
Max. shaker weight (with attachment):	20kg
Motor rating input/output:	82/24W
Power consumption:	1120W (at 230V)
Operating time:	continuous
Speed range:	10 to 500rpm
Timer switch (select minutes/hours):	0 to 999 h/continuous
Heater power:	1000W
Temperature range:	RT +5°C to 80°C
Temperature stability (200 ml H ₂ O at target T = 37°C, RT 25°C):	0.1K
Recirculating cooler:	additional cooling function for KS 4000 ic
Dimensions (WxDxH):	580 x 750 x 525mm
Space required (W x D):	600 x 600mm
Weight:	55kg
Permissible ambient temperature:	15 to 32°C
Protection class acc. to DIN EN 60529:	IP30
Interface:	RS232
Supply requirements:	230V 50/60Hz
Tested to DIN EN IEC 61010-1.	

Type	PK	Cat. No.
KS 4000 i control	1	9.837 890
KS 4000 i control UK	1	4.008 075
KS 4000 ic control*	1	9.837 891
KS 4000 ic control* UK	1	4.008 077

*with built-in cooler





9.837 894



9.837 893



9.837 892



Accessories for Incubator Shaker KS4000i control

NEW!

IKA

AS 4000.1 Universal attachment

For various types of vessels. Infinitely variable clamping rolls allow universal adaptation to various vessels.

Dimensions (WxDxH): 470mm x 447mm x 135mm

Base plate: 360mm x 410mm

Weight: 3200g

Included with delivery: 1 x AS 1.400 Basic holder, 6 x AS 1.401 Clamping roll, 12 x AS 1.402 Fastening screw

AS 4000.2 Fixing clip attachment

For shaking flasks, Erlenmeyer flasks and bottles with a round crosssection (without fixing clips).

Dimensions (W x D x H): 470mm x 444mm x 25 mm

Base plate: 430mm x 430mm

Weight: 2650g

Number of fixing clips (volume): 50 x AS 2.1(25ml), 48 x AS 2.2 (50ml), 25 x AS 2.3 (100ml), 16 x AS 2.4 (250ml), 12 x AS 2.5 (500ml), 7 x AS 2.6 (1000 ml)

AS 4000.3 Dish attachment

For smooth shaking operations in the low viscosity range, e.g. for cell cultures, nutrient media in Petri dishes, culture bottles and vessels with a low centre of gravity. With integrated slip-resistant foil (PP).

Dimensions (W x D x H): 470mm x 440mm x 25mm

Base plate: 430mm x 430mm

Weight: 800g

Type	Description	PK	Cat. No.
AS 4000.1	Universal attachment	1	9.837 894 1
AS 1.400	Basic holder*	1	9.837 895
AS 1.401	Clamping roll*	1	9.837 896
AS 1.402	Fastening screw*	1	9.837 897
AS 4000.2	Fixing clip attachment	1	9.837 893 2
AS 4000.3	Dish attachment	1	9.837 892 3
STICKMAX	Adhesive mat	1	6.236 293

*Spare parts for universal attachment.

4 Incubator 1000, suitable for Heidolph Platform Shakers

Heidolph

This truly unique incubator gives you all in one: Shaking, mixing and heating with visual reaction control at all times. These platform shakers are compatible with the incubator system: Duomax 1030, Polymax 1040, Titramax 1000, Unimax 1010 und Promax 1020.

- Heating module allows for gentle temperature adjustments up to 65°C
- Electrical heater allows for quick and even temperature distribution throughout the entire enclosure
- Unlimited visual reaction control at all times: The transparent and non-fogging PETG construction offers it all
- Three options available: A flat hood for small vessels and microtiter plates, a high hood for all common medium sized vessels and even a high hood XL for larger Erlenmeyer flasks up to 2000ml
- Immediate access: The incubator hood opens instantly and interlocks in any position
- Use ONE incubator for numerous shakers, interchangeability is ensured and takes less than 2 mins. You can incubate and mix simultaneously or independently

Heating module

- Heating capacity of 300W allows for quick temperature adjustments
- Digital temperature settings up to 65°C and separate display for actual temperature
- To protect your sample from thermal damages this unit features a safety circuit to prevent overheating
- Electrical heater comes with low, noise blower and provides accuracy of $\pm 2^\circ\text{C}$ up to 50°C and $\pm 4^\circ\text{C}$ over 50°C

Type	Width mm	Depth mm	Height mm	PK	Cat. No.
Incubator 1000, heating module	170	375	97	1	9.839 875
Incubation hood, low, for dishes, tubes etc.	546	394	163	1	9.839 876
Incubation hood, high, for beakers, flasks and funnels	546	394	267	1	9.839 877
Incubation hood XL	546	394	428	1	9.839 878



Similar products please see page 803.

1 MaxQ 2000 & 3000 Open Air Platform Shakers



Thermo Scientific



- Triple eccentric drive handles heavy loads, provides uniform agitation and continuous 24-hour operation, even at high speeds.
- Units operate in temperature ranges of 0°C to 40°C and humidity conditions from 20% to 80%, non-condensing enables them to be used in incubators, warm rooms, environmental chambers and refrigerators.
- Variable speed control from 15rpm to 500rpm.
- Minimise errors by viewing speed and operating time simultaneously on two individual LED displays.
- Shaker shutdown and visual/audible alarms signal if unit operates $\pm 10\%$ of set speed, preventing shaker from moving.
- User-adjustable speed calibration can be performed using a digital handheld tachometer, where verification is required and protocols can be standardised.
- Available as CO₂ Resistant Digital Operating System (only for MaxQ 2000)
- Five year warranty on parts, one year labor and LIFETIME on drive mechanism.

Specification

Speed range: 15 to 500 ± 1 rpm digital
40 to 400 ± 1 rpm analog

Operating time: Continuous and timed operation from 0.1 hour to 999 hours or 0.1 minute to 999 minutes.

Electrical supply: 240V, 50/60 Hz

Type	Description	Load max.	Amplitude	Dimensions (W x D x H)	PK	Cat. No.
		kg	mm	mm		
MaxQ 2000	Benchtop orbital shaker, analog	15.9	19.0	343 x 442 x 163	1	4.011 045
MaxQ 2000	Benchtop orbital shaker, digital	15.9	19.0	343 x 442 x 163	1	4.011 057
MaxQ 2000	Benchtop orbital shaker, digital, CO ₂ resistant	15.9	19.0	343 x 442 x 163	1	4.011 058
MaxQ 3000	Benchtop orbital shaker, analog	22.7	25.4	747 x 655 x 246	1	4.011 048
MaxQ 3000	Benchtop orbital shaker, digital	22.7	25.4	747 x 655 x 246	1	4.011 059

2 MaxQ 4000, Orbital Shaker with a Spacious Chamber



Thermo Scientific



- Spacious chamber holds six 2L flasks.
 - View speed, time and temperature simultaneously.
 - Choose from three temperature ranges.
 - Clear lid allows sample viewing without disturbing chamber atmosphere.
 - Choice of analog or digital operating systems.
 - Triple eccentric drive handles heavy loads, provides uniform agitation and continuous 24-hour operation, even at high speeds.
 - View speed, operating time and temperature simultaneously on three individual LED displays.
 - User-adjustable speed calibration
 - Unbalanced load sensor
 - Soft start feature
 - Over-temperature safety feature with independent thermostat provides additional backup by controlling heat if main temperature controller fails.
 - Five year warranty on parts, one year labor and LIFETIME on mechanism.
- Also available with analog operating system.

Specifications

Speed range, rpm: 15 to 500, ± 1 rpm digital
40 to 400, ± 1 rpm analog

Temperature accuracy: $\pm 0.1^\circ\text{C}$ accuracy at 37°

Operating time: 0.1 hour to 999 hours or 0.1 minute to 999 minutes

Dimensions (L x W x H): 813 x 572 x 559 mm

Supply requirements: 240V, 50/60 Hz

Description	Temp. range	Load max.	Amplitude	PK	Cat. No.
	°C	kg	mm		
Bench-Top-Shaker incubated, analog	RT+10° C - 60° C	22.7	19.0	1	4.011 049
High Temperature Bench-Top-Shaker incubated, analog	RT+10° C - 80° C	22.7	19.0	1	4.011 050
Refrigerated Bench-Top-Shaker incubated, analog	RT- 15° C - 60° C	22.7	19.0	1	4.011 051
Bench-Top-Shaker incubated, digital	RT+10° C - 60° C	22.7	19.0	1	4.011 060
High Temperature Bench-Top-Shaker incubated, digital	RT+10° C - 80° C	22.7	19.0	1	4.011 061
Refrigerated Bench-Top-Shaker incubated, digital	RT- 15° C - 60° C	22.7	19.0	1	4.011 062



1 MaxQ 4450 Compact Benchtop Incubated Shakers, orbital



Thermo Scientific

- Holds up to 4 x 1L flasks.
 - Requires minimal bench space.
 - Choose between two temperature ranges, 5°C above ambient to 80°C or 5°C below ambient to 80°C.
 - Clear lid lets you view samples without disturbing internal temperature
 - Triple eccentric drive handles heavy loads, provides uniform agitation and continuous 24-hour operation, even at high speeds.
 - Monitor and control chamber temperature range with $\pm 0.1^\circ\text{C}$ accuracy and $\pm 0.5^\circ\text{C}$ uniformity at 37°C.
 - View speed, operating time and temperature simultaneously on three individual LED displays.
 - Visual/audible alarms alert you to temperature deviations. Heat turns off if temperature deviates $\pm 1^\circ\text{C}$ of set point.
 - Soft start feature eliminates sudden starts and stops, splashing of vessel contents or wetting of flask closure.
 - Retains parameters during power failure and restarts unit automatically after power is restored.
 - Over-temperature safety feature with independent thermostat provides additional backup by controlling heat if main temperature controller fails.
 - Safety interlock stops platform motion when lid is opened.
 - 5 year warranty and 10 year on drive mechanism.
- Also available with analog operating system.

Specifications

Speed range, rpm:	15 to 500 ± 1 rpm digital 40 to 400 ± 1 rpm analog
Temperature range:	$\pm 0.1^\circ\text{C}$ accuracy at 37°
Operating time:	0.1 hour to 999 hours or 0.1 minute to 999 minutes
Dimensions (L x W x H):	691mm x 358mm x 401mm
Supply requirements:	240V, 50/60 Hz

Description	Temp. range	Load max.	Amplitude	PK	Cat. No.
	$^\circ\text{C}$	kg	mm		
Benchtop Incubated Shaker, mini analog	RT +5°C - 80°C	15.9	19.0	1	4.011 052
Benchtop Incubated Shaker with Cooling Coil, mini analog	RT +5°C - 80°C	15.9	19.0	1	4.011 053
Benchtop Incubated Shaker, digital	RT +5°C - 80°C	15.9	19.0	1	4.011 063
Benchtop Incubated Shaker with Cooling Coil, digital	RT +5°C - 80°C	15.9	19.0	1	4.011 064



1 MaxQ 5000 Incubated and Refrigerated Floor Shakers, orbital



- Combines Incubated/Refrigerated Temperatures with an Orbital Shaker for Large Capacity Applications
 - Spacious chamber holds four 6L flasks
 - Wide temperature range, 10°C above ambient to 60°C on incubated models and 15°C below ambient to 60°C on refrigerated models
 - Easy-access drain system with quick disconnect fitting permits easy clean up of spills
 - Drip pan under platform contains spills
 - Foot pedal opens lid for hands free operation
 - Retractable foot casters allow easy positioning in the lab
 - Observe flask contents without opening the door through a large viewing window
 - Access ports for probes, thermocouples or sensors provided through side of cabinet wall
 - Triple eccentric drive handles heavy loads, provides uniform agitation and continuous 24-hour operation, even at high speeds.
 - View speed, operating time and temperature simultaneously on three individual LED displays.
 - Unbalanced load sensor stops platform motion when excess vibration is detected and visual/audio alarms signal until condition is corrected.
 - Soft start feature eliminates sudden starts and stops, splashing of vessel contents or wetting of flask closure.
 - Retains parameters during power failure and restarts unit automatically after power is restored.
 - Over-temperature safety feature with independent thermostat provides additional backup by controlling heat if main temperature controller fails.
 - 5 year warranty and 10 year on drive mechanism.
- Also available with analog operating system.

Thermo Scientific



Specifications

Speed range, rpm:	15 to 500 ±1rpm digital / 40 to 400 ±1rpm analog
Temperature accuracy:	±0.1°C accuracy at 37°
Operating time:	0.1 hour to 999 hours or 0.1 minute to 999 minutes
Dimensions (L x W x H):	813mm x 1041mm x 1041mm
Supply requirements:	240V, 50/60 Hz

Description	Load max. kg	Amplitude mm	Temp. range °C	PK	Cat. No.
Incubated Floor Shaker, analog	34.0	25.4	RT +10°C - 60°C	1	4.011 054
Incubated and Refrigerated Floor Shaker, analog	34.0	25.4	RT -15°C - 60°C	1	4.011 055
Incubated Floor Shaker, digital	34.0	25.4	RT +10°C - 60°C	1	4.011 065
Incubated and Refrigerated Floor Shaker, digital	34.0	25.4	RT -15°C - 60°C	1	4.011 066

We can supply this
manufacturer's
whole
product range !





1 MaxQ 6000 Incubated and Refrigerated Stackable Shakers, orbital

Thermo Scientific

- Available in incubated or refrigerated models.
- Units can be stacked two high on the floor with the stacking kit accessory.
- Two adjustable-height shelves provide added storage.
- Large viewing window and internal light offer sample visibility.
- View temperature, speed and time simultaneously on three individual displays.
- Door can be hinged from the right or left by the user for convenient placement in lab.
- Triple eccentric drive handles heavy loads, provides uniform agitation and continuous 24-hour operation, even at high speeds.
- Visual/audible alarms alert you to temperature deviations. Heat turns off if temperature deviates $\pm 1^\circ\text{C}$ of set point.
- Shaker shut down and visual/audible alarms signal if unit operates $\pm 10\%$ of set speed, preventing shaker from moving.
- Unbalanced load sensor stops platform motion when excess vibration is detected visual/audio alarms signal until condition is corrected.
- Soft start feature eliminates sudden starts and stops, splashing of vessel contents or wetting of flask closure.
- Retains parameters during power failure and restarts unit automatically after power is restored.
- Over-temperature safety feature with independent thermostat provides additional backup by controlling heat if main temperature controller fails.
- Safety interlock stops shaking motion when the door is open.
- 5 year warranty and 10 year on drive mechanism.

Specifications

Speed range:	15rpm to 300rpm ± 1 rpm (stacked) 15rpm to 500rpm ± 1 rpm (unstacked)
Temperature	
Floor Shaker:	10°C above ambient to 80°C
Refrigerated Floor Shaker:	15°C below ambient to 80°C
Timer:	0.1 hr. up to 999 hr. or 0.1 to 999 min.
Power supply	
Floor Shaker:	240V 50/60Hz, 4.5A, 1100W
Refrigerated Floor Shaker:	240V 50/60Hz, 7A, 1500W
Dimensions (L x W x H):	838 x 699 x 1029 mm

Description	Load max.	Amplitude	PK	Cat. No.
	kg	mm		
Stackable Incubated Floor Shaker, digital	15.9	19.0	1	4.011 067
Stackable Incubated and Refrigerated Floor Shaker	15.9	19.0	1	4.011 068



2 Universal Platform for MaxQ Shaker

Thermo Scientific

Description	Dimensions cm	PK	Cat. No.
Universal Platforms for MaxQ 2000/4450	28 x 33	1	4.009 327
Universal Platforms for MaxQ 2000	46 x 61	1	4.009 329
Universal Platforms for MaxQ2000/4000 and 6000	46 x 46	1	4.009 330
Universal Platforms for MaxQ 3000	76 x 46	1	4.009 331
Universal Platforms for MaxQ 3000/5000	76 x 46	1	4.010 227
Universal Platforms for MaxQ 3000	91 x 61	1	4.010 228



1 Clamps for MaxQ Shaker (except MaxQ 8000)

NEW!

Thermo Scientific

Description	PK	Cat. No.
Clamps for Microplate/Deep-well plate	1	4.009 340
Clamps for Erlenmeyer Flask 10ml	1	4.010 229
Clamps for Erlenmeyer Flask 25ml	1	4.009 332
Clamps for Erlenmeyer Flask 50ml	1	4.010 230
Clamps for Erlenmeyer Flask 125ml	1	4.009 333
Clamps for Erlenmeyer Flask 250ml	1	4.010 231
Clamps for Erlenmeyer Flask 300ml	1	4.009 334
Clamps for Erlenmeyer Flask 500ml	1	4.010 232
Clamps for Erlenmeyer Flask 1000ml	1	4.010 233
Clamps for Erlenmeyer Flask 2000ml	1	4.009 335
Clamps for Erlenmeyer Flask 4000ml	1	4.009 336
Clamps for Erlenmeyer Flask 6000ml	1	4.009 337
Clamps for Low Form Culture Flask 2500ml	1	4.009 338
Clamps for Fernbach Flask 2800ml	1	4.009 339



2 Racks for MaxQ Shaker

NEW!

Thermo Scientific

Racks for	Size	Description	Colour	PK	Cat. No.
	mm				
Test Tube Racks - Full Size	10-13	6x12	red	1	4.010 234
Test Tube Racks - Full Size	14-16	6x12	orange	1	4.009 342
Test Tube Racks - Full Size	17-20	4x10	white	1	4.009 344
Test Tube Racks - Full Size	21-25	4x10	blue	1	4.009 346
Test Tube Racks - Full Size	26-30	3x8	green	1	4.009 348
Microcentrifuge, 1.5ml - Full Size		8x12	blue	1	4.009 350
Test Tube Racks - Half Size	10-13	6x6	red	1	4.009 341
Test Tube Racks - Half Size	14-16	6x6	red	1	4.009 343
Test Tube Racks - Half Size	17-20	4x5	white	1	4.009 345
Test Tube Racks - Half Size	21-25	4x5	blue	1	4.009 347
Test Tube Racks - Half Size	26-30	3x3	green	1	4.009 349
Microcentrifuge, 1.5ml - Half Size		4x6	white	1	4.009 351

3 Adhesive Flask Mat for MaxQ Shakers

NEW!

Thermo Scientific

Our Adhesive Flask Mat is an alternative to flask clamps for securing odd shaped objects such as bottles, volumetric flasks and test tube racks to a shaker platform.

Simply place the 23cm x 23cm Adhesive Flask Mat on an anodised aluminum or stainless steel shaker platform and secure the vessel to it. It will hold Erlenmeyer flasks as large as 4L that contain 2L of media at speeds up to 250rpm. The mat is not suitable for use in water baths.

- Easy-to-view samples. The white background makes it easy to determine when to harvest your samples
- Simple to clean. Can be restored to like new condition by wiping with alcohol
- Long lasting. Months of use without losing adhesive properties



Description	PK	Cat. No.
Flask Mat 23cm x 23cm	1	4.009 506



1 MaxQ 8000 Incubated and Refrigerated Stackable Shakers

NEW!

Thermo Scientific

Can be Stacked Two to Three High on the Floor for Space Savings

- Choose from two temperature ranges to fulfill a number of molecular biology applications.
- HEPA filter ensures air inside the chamber remains clean and reduces cross contamination improving culturing conditions.
- Slide out platform provides convenient 100% sample access.
- Crevice-free Type 304 stainless steel chamber with coved corners and built-in drain keeps spills within the work area and promotes easy cleaning.
- Chamber is tall enough to accommodate 2L Erlenmeyer flasks.
- Top platform height is under 61.0 in. (154.9 cm) when units are stacked three high, ensuring ease-of-use and convenient accessibility.
- Easy to clean platforms are constructed of 5/16 in., heavy duty brushed anodized aluminum, which does not chip or rust.
- Large viewing window and internal xenon light allow sample visibility minimizing the need to open the chamber door.
- Electronic components and HEPA filter are easily accessed from the front of the unit, eliminating the need to move the shaker during regular maintenance or service.
- 5 year warranty and 10 year on drive mechanism.

For a complete system order:

1. Shaker, 2. Platform, 3. Clamps

Specifications

Speed range:	speed ranges from 25rpm to 400rpm \pm 1rpm
Temperature range:	\pm 0.15°C
Operating time:	5 min. to 199 hours and 59 min.
Dimensions (L x W x H):	605mm x 846mm x 300mm
Supply requirements:	240V, 50/60 Hz

Type	Temp. range	Load max.	Amplitude	PK	Cat. No.
	°C	kg	mm		
MaxQ 8000 Incubated shaker	10°C above ambient to 60°C	16.1	25.4	1	4.011 070
MaxQ 8000 Refrigerated shaker	5°C or 20°C below ambient to 60°C	16.1	25.4	1	4.011 071

Universal Platform for MaxQ 8000

NEW!

Thermo Scientific

Description	PK	Cat. No.
Universal Platform without clamps, 75cm x 46cm	1	4.009 494



2 Accessories for MaxQ 8000 Stackable Orbital Shaker

NEW!

Thermo Scientific

Clamps Starter Kit for Thermo Scientific MaxQ 8000 Stackable Orbital Shakers:

Content:

- 2 brackets for 25ml Erlenmeyer flask
- 2 brackets for 50ml Erlenmeyer flask
- 2 clamps for 125ml Erlenmeyer flask
- 2 clips for 250/300ml Erlenmeyer flask
- 4 clamps for 500ml Erlenmeyer flask
- 2 brackets for 1L Erlenmeyer flask
- 2 brackets for 2L Erlenmeyer flask
- 1 spare parts pouch (screws)

Other accessories on request.

Description	PK	Cat. No.
Clamps Starter Kit	1	4.009 441



IKA[®]-WERKE STAUFEN

EQUIPMENT FOR:

LABORATORY

ANALYTIC

& PROCESS



Designed
to work perfectly

www.ika.com

IKA[®]

Sampling	477
Samplers, Solids 477 + Samplers, Liquids 481	
Grinding	487
Jaw breaker 487 + Mills 487 + Mortars 508	
Sieving	510
Sieve shakers 510 + Test sieves 514 + Sample divider 520	
Mixing, Homogenisation	522
Dispersers 522 + Ultrasonic homogenizers 532 + Homogenisers 541	