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1 Overhead mixer LLG-uniROTATOR 2

NEW

Analogue overhead mixer with vertical rotary motion for gentle but effective mixing. Ideal for biological samples. Suitable for cutting and mixing processes of powdered and liquid samples in tubes up to 50 ml. With easily interchangeable clamps that allow a quick cleaning of the mixer.

- Compact design
- Housing easy to clean
- Non-slip, adjustable screw feet

Scope of delivery: Overhead mixer incl. 12 clamps each for 2 ml, 15 ml and 50 ml tubes

Specifications

Type of movement:	overhead
Variable speed:	0 - 80 rpm
Rotation angle:	360°
Permissible shaking weight (incl. attachment):	2 kg
Motor rating input:	20 W
Dimensions (W x D x H):	530 x 150 x 190 mm
Power supply:	100-240 V, 50/60 Hz
Protection class:	IP 21
Warranty:	3 years

Type	PK	Cat. No.
LLG-uniROTATOR 2 with EU-plug	1	6.263 660
LLG-uniROTATOR 2 with UK-plug	1	6.263 661
Clamp for 2 ml centrifuge tube	12	6.263 662
Clamp for 15 ml centrifuge tube	12	6.263 663
Clamp for 50 ml centrifuge tube	12	6.263 664

2


2 Vertical mini rotator PTR-25

Grant

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

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

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

3


3 Vertical mini rotator RotoFlex™ Plus

NEW
Argos Technologies

This simple benchtop rotator is ideal for a number of laboratory applications including DNA purification, hybridization or sample mixing. It is digitally controlled and can also be set in an oscillating mode to increase mixing efficiency. This tube rotator accepts tubes from 0.5 to 50 ml. The rotisseries to hold each of the tubes are included in the set.

Features:

- 360° revolution, adjustable angle from 0 to 90°
- Speed: 10 to 40 rpm, adjustable
- For tubes of 0.5 to 50 ml, interchangeable tube racks
- Can be used in a cold room or incubator (4 °C to 60 °C)

Type	PK	Cat. No.
Vertical mini rotator RotoFlex™ Plus	1	6.281 561

Multi-function rotator PTR-35/PTR-60

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

Grant

- Multi-function: vertical rotation, reciprocation, vibration
- Continuous or timed operation for each phase
- Choice of two models with different microtube capacities
- Speed: 1 rpm to 100 rpm
- 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



9.721 028

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

Overhead shaker Trayster basic/digital

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

IKA

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

Trayster digital only:

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



9.837 871

Attachments are not included. Please order separately.

Specifications

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

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

3 Rotating Shaker 3040

The specialist shaker with uniform rotating motion. Various applications, e.g. for mixing and processing of soil samples. 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 110 mm max. dia. and 270 mm max. height, stacked in 4 levels, each level with 3 holding frames. Drive motion is achieved by an overload protected DC motor. With stainless steel clamping frame for safe securing of the sample vessels. For ambient temperatures from 10 to 40 °C. Maintenance-free, CE marked.

GFL

Specifications

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



Type	PK	Cat. No.
3040	1	9.837 931



1 Overhead shakers STR4

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

With BioCote, silver-based, antimicrobial protection.
Drum and accessories sold separately.

Type	PK	Cat. No.
STR4	1	9.950 375



2 Drum STR4/1 for overhead shakers STR4

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

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

* Tubes not included

Accessory plates for STR4/1

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

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



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

Drum with two platforms for STR4. Accepts two 500 ml conical flasks or reagent bottles. The support columns can be detached to give two platforms 10.5 cm x 17.5 cm each for separating funnels, jars or test tube racks. Stuart

With BioCote, silver-based, antimicrobial protection.
Drive cat. no. 9.950 375 separately.

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



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

The drum has a platform which can be adjusted within the drum from horizontal to 45°. In this way the sample container can be rolled and turned end over end at the same time. Suitable for extractions, paint mixing, powders and granular samples. The sample container is held by an adjustable velcro strap. Stuart

With BioCote, silver-based, antimicrobial protection.
Drive cat. no. 9.950 375 separately.

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



5 Bottle holder STR4/4 for overhead shakers STR4

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

With BioCote, silver-based, antimicrobial protection.
Drive Art. no 9.950 375 separately.

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

For our range of environmental analysis please see chapter 12.

1 Disc rotator LLG-uniLOOPMIX 2 NEW

Analogue Disc rotator for gentle and effective sample mixing. Suitable for all biological samples. With easily interchangeable clamps that allow a **quick cleaning** of the rotator.
For a maximum of 48 x 1.5 ml, 16 x 5 or 15 ml, 8 x 50 ml tubes. Also for parallel use of different sizes, can be equipped individually.

- Variable speed 0 - 80 rpm
- Compact design
- Housing easy to clean
- Non-slip, adjustable screw feet

Scope of delivery: Disc rotator incl. 12 clamps each for 2 ml, 15 ml and 50 ml tubes

Specifications

Type of movement:	rotating
Variable speed:	0 - 80 rpm
Rotation angle of disc:	360°
Permissible shaking weight (incl. attachment):	2 kg
rel. Moisture:	up to max 80 %
Working temp.:	+5 to +40 °C
Motor rating input/output:	20 W
Dimensions (W x D x H):	220 x 300 x 310 mm
Power supply:	100-240 V, 50/60 Hz
Protection class:	IP 21
Warranty:	3 years

Type	PK	Cat. No.
LLG-uniLOOPMIX 2 with EU-plug	1	6.263 665
LLG-uniLOOPMIX 2 with UK-plug	1	6.263 666
Clamp for 2 ml centrifuge tube	12	6.263 662
Clamp for 15 ml centrifuge tube	12	6.263 663
Clamp for 50 ml centrifuge tube	12	6.263 664



Rotators SB2/SB3 Stuart

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

- SB2:** Fixed speed of 20 rpm.
- SB3:** Variable speed of 2 rpm to 40 rpm. Additional digital timer of 1 to 999 minutes. Digital speed control.

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

Specifications:

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

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



9.645 323

3 Tube holders for rotators SB2/SB3 Stuart

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

Additional accessories on request.



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6.263 652

Roller Mixers LLG-uniROLLER 6 and 10, digital

NEW

Digital tube rollers **with 6 or 10 rolls** for the efficient mixing of biological samples, viscous substances and liquid-solid suspensions. The LLG-uniROLLER 6 and 10 are equipped with very easily detachable rollers enabling the user to adjust the space to hold tubes and bottles of different diameter and to quickly clean and decontaminate the unit in case of sample spillage.

- **Detachable rollers for very easy cleaning** in case of sample spills
- Speed ranging from 10 to 80 rpm
- Timer from 1 min to 99 min and continuous mode
- **Pulse mode feature for increased mixing efficiency**
- Microprocessor controller for accurate speed under variable load
- Brushless DC motor for quiet operation and maintenance free long life
- **Digital display**
- Save up to 9 user defined programs
- **Can be used in incubators up to 40 °C and humidity up to 80 %**
- Stackable design
- Tilting and rolling movement for ideal mixing

Specifications

Type of movement:	rocking and rolling
Amplitude:	24 mm
Load max.:	2 kg
Ambient temperature:	up to + 40 °C
Max. humidity:	up to 80 %
Roller size (l x Ø):	330 x 30 mm
Power supply:	100-240 V, 50/60 HZ
Protection class:	IP 21
Warranty:	3 years

Type	Dimensions (W x D x H) mm	Rollers	PK	Cat. No.
LLG-uniROLLER 6, with EU plug	502 x 301 x 92.5	6	1	6.263 650
LLG-uniROLLER 6, with UK plug	502 x 301 x 92.5	6	1	6.263 651
LLG-uniROLLER 10, with EU plug	502 x 448 x 92.5	10	1	6.263 652
LLG-uniROLLER 10, with UK plug	502 x 448 x 92.5	10	1	6.263 653

2


9.728 811

Tube Roller Mixer, SRT6, SRT6D, SRT9, SRT9D

These roller mixers provide a gentle, but highly efficient, rocking and rolling action. Stuart
 There are four models available, two analogue models with either 6 or 9 rollers, with a fixed speed of 33 rpm. Or two more advanced digital models with either 6 or 9 rollers, with digitally controlled speed between 5 and 60 rpm and programmable timer.

The roller mixers feature easy to remove side panels. The side panels provide the user with complete peace of mind that samples will remain on the roller during continuous use. The rollers conveniently detach to accommodate larger vessels and therefore allow the user to mix a wide variety of differently sized tubes and bottles. 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.

- Rocking and rolling action for complete mixing
- Choice of analogue fixed speed or digital variable speed model
- 6 or 9 roller design with footprint
- Designed for continuous quiet operation
- Removable side panels to keep tubes on the roller
- With BioCote antimicrobial protection

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

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

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

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

Roller 6 digital/10 digital only:

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

Specifications

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



9.729 970



9.729 973

Type	Dimensions (W x D x H) mm	Rotation speed rpm	Rollers	Load max. kg	PK	Cat. No.
Roller 6 basic	240 x 545 x 115	30 (fixed)	6	2.0	1	9.729 970 1
Roller 6 digital	240 x 545 x 115	5 - 80	6	2.0	1	9.729 971
Roller 10 basic	380 x 545 x 115	30 (fixed)	10	2.0	1	9.729 972
Roller 10 digital	380 x 545 x 115	5 - 80	10	2.0	1	9.729 973 2

