

1 2 Overhead stirrer LLG-uniSTIRRER OH2, digital

Cost-effective laboratory stirrer designed for simple stirring tasks for quantities up to 20 l (H₂O). Automatic speed adjustment in the range between 50 and 2200 min⁻¹ via microprocessor-controlled technology. Safety circuits ensure automatic cut-off in an anti-stall or overload situation. Actual and set speed are constantly monitored ensuring no undesired speed variations, even if the sample viscosity changes.

- Brushless, maintenance-free motor
- Digital speed display
- **Display for speed or torque changeable**
- Infinitely adjustable speed
- **Overload protection**
- Non-slippery mat
- Slim casing
- Quiet operation
- Error code display
- RS232 port

Stand:

Stainless steel stand incl. boss head, dimension (W x D x H): 200 x 310 x 780 mm, non-slippery mat

Stirrer:

4-blade propeller stirrer, stainless steel, shaft length 400 mm, stirrer diameter 50 mm

Scope of supply: Overhead stirrer LLG-uniSTIRRER OH2, stand, non-slippery mat and 4-blade-propeller stirrer

Specifications

Max. stirring quantity (H ₂ O):	20 l
Speed range:	50 ... 2.200 min ⁻¹
Max. viscosity:	10.000 mPas
Motor rating input/output:	60/50 W
Speed display accuracy:	±3 min ⁻¹
Max. torque at stirring shaft:	40 Ncm
Display:	LCD
Chuck range:	0.5 ... 10 mm
Dimensions (W x D x H):	83 x 186 x 220 mm
Power supply:	110 ... 240 V, 50/60 Hz
IP code:	IP 21
Warranty:	3 years

Type	Plug type	PK	Cat. No.
LLG-uniSTIRRER OH2	EU	1	6.263 455
LLG-uniSTIRRER OH2	UK	1	6.263 456

Accessories for Overhead stirrer LLG-uniSTIRRER OH2

Description	PK	Cat. No.
4-blade propeller stirrer, diam. 50, shaft diam. 8, 400 mm	1	6.263 454
2-blade propeller stirrer, diam. 60, shaft diam. 8, 400 mm	1	6.263 457
3-hole paddle stirrer, diam. 67, shaft diam. 8, 400 mm	1	6.263 458
2-blade centrifugal stirrer, diam. 80, shaft diam. 8, 400 mm	1	6.263 459
Spare boss head	1	6.263 453
Replacement power adapter	1	6.263 452



1 Overhead Stirrer Nanostar 7.5 digital



1

This powerful overhead stirrer convinces with perfect basic functionalities. It has a compact, space-saving design and is easy-to-use.

- Operation via a stable rotary knob
- Hardened glass display for maximum visibility and chemical resistance
- Display clearly shows the rotational speed
- Regular software updates can be made rapidly and simply via the USB interface
- Chemical resistant housing
- Microprocessor-controlled speed governor for constant rotational speed, even with changes in viscosity
- 10 years warranty



Specifications

Stirring quantity max. (H ₂ O):	5 l
Max. viscosity:	4000 mPas
Motor rating input/output:	32 W/22 W
Speed range:	0/50 ... 2000 rpm
Max. torque:	7.5 Ncm
Display:	LED
Chuck range:	0.5 ... 8 mm
Dimensions (W x D x H):	53 x 130 x 147 mm
Weight:	0.8 kg
Protection class DIN EN 60529:	IP 54
Power supply:	100 ... 240 V, 50/60 Hz

Type	PK	Cat. No.
Nanostar 7.5 digital	1	6.311 510

Overhead Stirrers MICROSTAR Digital

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These powerful overhead stirrers convince with perfect basic functionalities. They have a compact, space-saving design and are easy-to-use.

- Operation via a stable rotary knob
- Hardened glass display for maximum visibility and chemical resistance
- Display clearly shows the rotational speed
- Regular software updates can be made rapidly and simply via the USB interface
- Chemical resistant housing
- Microprocessor-controlled speed governor for constant rotational speed, even with changes in viscosity
- 10 years warranty



6.274 940

Specifications

	7.5 digital // 15 digital // 30 digital
Stirring quantity max. (H ₂ O):	5 l // 10 l // 20 l
Max. viscosity:	4000 mPas // 8000 mPas // 20000 mPas
Motor rating input/output:	32 W/22 W
Speed range:	0/50 ... 2000 rpm // 0/50 ... 1000 rpm // 0/50 ... 500 rpm
Max. torque:	7.5 Ncm // 15 Ncm // 30 Ncm
Display:	LED
Chuck range:	0.5 ... 8 mm
Dimensions (W x D x H):	60 x 126 x 173 mm
Weight:	1.18 kg // 1.26 kg // 1.26 kg
Protection class DIN EN 60529:	IP 54
Power supply:	100 ... 240 V, 50/60 Hz

Type	PK	Cat. No.
MICROSTAR digital 7.5	1	4.665 208
MICROSTAR digital 15	1	6.313 057
MICROSTAR digital 30	1	6.274 940

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4.665 663

Overhead Stirrers MINISTAR Digital

These powerful overhead stirrers convince with perfect basic functionalities. They have a compact, space-saving design and are easy-to-use.

IKA

- Operation via a stable rotary knob
- Hardened glass display for maximum visibility and chemical resistance
- Display clearly shows the rotational speed
- Regular software updates can be made rapidly and simply via the USB interface
- Chemical resistant housing
- Microprocessor-controlled speed governor for constant rotational speed, even with changes in viscosity
- 10 years warranty

Specifications

Stirring quantity max. (H ₂ O):	20 digital // 40 digital // 80 digital 15 l // 25 l // 50 l
Max. viscosity:	10000 mPas // 30000 mPas // 60000 mPas
Motor rating input/output:	60 W/46 W
Speed range:	0/50 ... 2000 rpm // 0/50 ... 1000 rpm // 0/50 ... 500 rpm
Max. torque:	20 Ncm // 40 Ncm // 80 Ncm
Display:	LED
Chuck range:	0.5 ... 8 mm
Dimensions (W x D x H):	70 x 147 x 193 mm
Weight:	1.56 kg // 1.72 kg // 1.72 kg
Protection class DIN EN 60529:	IP 54
Power supply:	100 ... 240 V, 50/60 Hz

Type	PK	Cat. No.
MINISTAR 20 digital	1	7.983 353
MINISTAR 40 digital	1	4.665 663
MINISTAR 80 digital	1	7.983 354

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2 Overhead stirrer EUROSTAR 20 digital

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

IKA

- Digital speed display
- Infinitely adjustable speed
- Push-through agitator shafts
- Overload protection
- Short-term overload operation

Specifications

Stirring quantity max. (H ₂ O):	15 l
Max. viscosity:	10000 mPas
Motor rating input/output:	70/42 W
Speed range:	0/30 to 2000 rpm
Max. torque at stirring shaft:	20 Ncm
Display:	LED
Chuck range:	0.5 to 10 mm
Dimensions (W x D x H):	86 x 208 x 248 mm
Weight:	4.4 kg
Protection class DIN EN 60529:	IP 42
Power supply:	230 V, 50/60 Hz

Type	Connector	PK	Cat. No.
EUROSTAR 20 digital	EU	1	9.816 691
EUROSTAR 20 digital	UK	1	9.816 692
EUROSTAR 20 digital	CH	1	9.816 693

1 Overhead stirrer EUROSTAR 40 digital

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

IKA

- Digital speed display
- Infinitely adjustable speed
- Push-through agitator shafts
- Overload protection
- Short-term overload operation

Specifications

Stirring quantity max. (H ₂ O):	25l
Max. viscosity:	30000mPas
Motor rating input/output:	118/84W
Speed range:	0/30 to 2000rpm
Max. torque at stirring shaft:	40Ncm
Display:	LED
Chuck range:	0.5 to 10mm
Dimensions (W x D x H):	86 x 208 x 248mm
Weight:	4.4 kg
Protection class DIN EN 60529:	IP 42
Power supply:	230V, 50/60Hz

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

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2 Overhead stirrer EUROSTAR 60 digital

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

IKA

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

Specifications

Stirring quantity max. (H ₂ O):	40l
Max. viscosity:	50000mPas
Motor rating input/output:	176/126 W
Speed range:	0/30 to 2000rpm
Max. torque at stirring shaft:	60Ncm
Display:	LED
Chuck range:	0.5 to 10mm
Dimensions (W x D x H):	86 x 208 x 248mm
Protection class DIN EN 60529:	IP 42
Power supply:	230V, 50/60Hz

Type	Plug type	PK	Cat. No.
EUROSTAR 60 digital	EU	1	9.816 700
EUROSTAR 60 digital S 2	UK	1	9.816 701
EUROSTAR 60 digital S 3	CH	1	9.816 702

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Accessories for the IKA overhead stirrers please see page 490

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1 Overhead stirrer EUROSTAR 100 digital

NEW

IKA

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

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

Specifications

Stirring quantity max. (H ₂ O):	100 l
Max. viscosity:	70000 mPas
Motor rating input/output:	186/136 W
Speed range:	0/30 ... 1300 rpm
Max. torque at stirring shaft:	100 Ncm
Display:	LED
Chuck range:	0.5 ... 10 mm
Protection class DIN EN 60529:	IP 42
Power supply:	230 V, 50/60 Hz

Type	Dimensions (W x D x H) mm	Plug type	PK	Cat. No.
EUROSTAR 100 digital	86 x 208 x 248	EU	1	9.816 706
EUROSTAR 100 digital S 2	86 x 208 x 248	UK	1	9.816 707
EUROSTAR 100 digital S 3	86 x 208 x 248	CH	1	9.816 708

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2 Overhead stirrer OHS 200 Digital

Velp Scientifica

Powerful, robust overhead stirrers with display and electronic speed control. With integrated timer and overload, overtemperature and overcurrent protection.

- For high viscosities up to 100000 mPas or large volumes up to 100 l
- With 2 speed gears
- Stable torque over the entire speed range with automatic compensation
- Torque indication in the display
- LED display
- Timer
- Key lock
- Brushless, quiet motor
- Rotor change without tools
- USB interface for installing software updates

Specifications

Number of speed gears:	2
Speed range:	6 ... 400 min ⁻¹ /30 ... 2000 min ⁻¹
Power rating:	190 W
Chuck range:	Ø 1 ... 13 mm
Display:	Digital
Dimensions (W x D x H):	90 x 235 x 315 mm
Weight:	4.6 kg
IP code:	IP 54
Power supply:	230 V, 50/60 Hz
Warranty:	3 years

Type	Stirring capacity l	max. Viscosity mPa.	Torque Ncm	PK	Cat. No.
OHS 200 Digital	100	100000	200	1	4.666 656

Overhead stirrer EUROSTAR 400 digital/400 control

NEW

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Powerful laboratory stirrer for highly viscous applications and intensive mixing for quantities up to 150 l (H₂O). It automatically adjusts the speed through microprocessor controlled technology. Safety circuits installed ensures automatic cut-off in an anti-stall or overload conditions. Continuous comparison of shaft speed to desired speed is maintained and variations are adjusted automatically. This guarantees a constant speed even with changes in viscosities of the sample.

EUROSTAR 400 digital:

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

EUROSTAR 400 control additionally:

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

Scope of supply EUROSTAR 400 control: Overhead stirrer, temperature sensor H 67.60, WiCo holder WH 11

IKA



6.291 143

Specifications

Stirring quantity max. (H₂O):

Max. viscosity:

Motor rating input/output:

Speed range:

Max. torque at stirring shaft:

Display:

Chuck range:

Dimensions (W x D x H):

Protection class DIN EN 60529:

Power supply:

EUROSTAR 400 control only:

Temperature sensor:

Temperature measuring range:

400 digital // 400 control

150 l

100000 mPas

220/176 W

0/6 ... 2000 rpm

400 Ncm

LED // TFT

3 ... 16 mm

114 x 245 x 325 mm // 114 x 268 x 345 mm

IP 42 // IP 40

230 V, 50/60 Hz

PT1000

-10 ... +350 °C

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6.310 512

Type	Plug type	PK	Cat. No.
EUROSTAR 400 digital	EU	1	6.291 143
EUROSTAR 400 control	EU	1	6.310 512





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Overhead stirrers OHS Advance

Powerful, robust overhead stirrers with digital display, electronic speed control and integrated PT100 temperature probe. With vibration sensor, timer and overload, overtemperature and overcurrent protection. **The connection via WLAN to the VELP Ermes Cloud Platform is used for uploading, managing, monitoring and exchanging results and parameters.** Access to the devices is possible via PC, Smartphone and Tablet.

Velp Scientifica

- Direct measurement of temperature in the medium via PT100 sensor
- Stable torque over the entire speed range with automatic compensation
- Torque indicated in display
- 3.5" TFT display
- Timer
- Key lock
- Brushless, quiet motor
- Easy rotor change without tools
- Various methods programmable
- USB interface for installing software updates and process documentation

Specifications	OHS 60 Advance // OHS 100 Advance
Number of speed gears:	1
Speed range:	30 ... 2000 min ⁻¹ // 30 ... 1300 min ⁻¹
Motor rating:	190 W
Chuck range:	Ø 1 ... 13 mm
Display:	Digital
Temperature measuring range:	-10 ... 350 °C
Temperature measuring accuracy:	0.1 °C
Dimensions (W x D x H):	90 x 235 x 285 mm
Weight:	4.1 kg
IP code:	IP 54
Power supply:	230 V, 50/60 Hz
Warranty:	3 years

Type	Stirring capacity	max. Viscosity	Torque	PK	Cat. No.
	l	mPa.	Ncm		
OHS 60 Advance	40	50000	60	1	4.666 655
OHS 100 Advance	100	70000	100	1	4.666 654

1



4.666 655

Overhead stirrer OHS 200 Advance

Powerful, robust overhead stirrers with digital display, electronic speed control and integrated PT100 temperature probe. With vibration sensor, timer and overload, overtemperature and overcurrent protection. **The connection via WLAN to the VELP Ermes Cloud Platform is used for uploading, managing, monitoring and exchanging results and parameters.** Access to the devices is possible via PC, Smartphone and Tablet.

Velp Scientifica

- With 2 speed gears
- For high viscosities up to 100000 mPas or large volumes
- Direct measurement of temperature in the medium via PT100 sensor
- Stable torque over the entire speed range with automatic compensation
- Torque indicated in display
- 3.5" TFT display
- Timer
- Key lock
- Brushless, quiet motor
- Easy rotor change without tools
- Various methods programmable
- USB interface for installing software updates and process documentation

Specifications	OHS 200 Advance
Number of speed gears:	2
Speed range:	6 ... 400 min ⁻¹ /30 ... 2000 min ⁻¹
Power rating:	190 W
Chuck range:	Ø 1 ... 13 mm
Display:	Digital
Temperature measuring range:	-10 ... 350 °C
Temperature measuring accuracy:	0.1 °C
Dimensions (W x D x H):	90 x 235 x 315 mm
Weight:	4.6 kg
IP code:	IP 54
Power supply:	230 V, 50/60 Hz
Warranty:	3 years

Type	Stirring capacity	max. Viscosity	Torque	PK	Cat. No.
	l	mPa.	Ncm		
OHS 200 Advance	100	100000	200	1	4.666 653

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1 Overhead stirrer RW 20 digital

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

IKA

Specifications

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

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

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



2 Overhead stirrer RW 28 digital

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

IKA

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

Specifications

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

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

1 Stand with Laboratory balance IKA [scale] for overhead stirrers NEW

The stand with integrated scale and data interface is ideally suited for the direct and controlled addition of sample material while stirring. The quantities of samples to be added are weighed immediately and continuously documented during the stirring process.

IKA

- Clear LCD display
- Stable die cast zinc housing
- Overload protection
- USB interface
- Bluetooth connection

Specifications

Weighing range:	5 ... 6000 g
Readability:	1 g
Accuracy:	±6 g
Load capacity weighing function:	max. 10 kg
Dimensions - Weighing plate:	200 x 200 mm
Dimensions (W x D x H):	213 x 391 x 570 mm
Weight:	5.2 kg
Power supply:	100 ... 240 V, 50/60 Hz
IP code:	IP 21

Type	PK	Cat. No.
IKA [scale]	1	4.672 719

2 Overhead stirrer STARVISC 200-2.5 control NEW

High precision torque-measuring stirrer with direct display of the measured values for a wide range of applications. Especially suitable for product development, because precise measuring is taking place during the manufacturing process and the viscosity can be calculated via the user friendly display. Samples no longer have to be taken separately.

IKA

- Viscosity calculation
- Stepless adjustable speed
- With detachable remote control - Wireless Controller (WiCo)
- Powerful stirrer for highly viscous substances

Specifications

Stirring quantity max. (H ₂ O):	100 l
Max. viscosity:	100000 mPas
Motor rating input/output:	130 W/84 W
Speed range:	0/6 ... 2000 rpm
Speed range I (at 50Hz):	6 ... 400 rpm
Speed range II (at 50Hz):	30 ... 2000 rpm
Max. torque at stirring shaft:	200 Ncm
Display:	TFT
Chuck range:	0.6 ... 10 cm
Dimensions (W x D x H):	91 x 231 x 395 mm
IP code acc. to DIN EN 60529:	IP 40
Power supply:	230/100, 115/100 V, 50/60 Hz

Type	PK	Cat. No.
STARVISC 200-2.5 control	1	4.672 715



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1 Overhead stirrers Hei-TORQUE Value

Ideal for all standard stirring tasks. They are designed to mix and disperse media that require non-reproducible results in high-viscosity applications.

Heidolph

- Indication of torque tendencies to monitor viscosity changes
- Digital 2.4" display for ease of operation
- Constant speed even under changing loads
- Safe start and stop of operation via slide touch panel
- Minimum noise level at maximum power (<50 dB)

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2 Overhead stirrers Hei-TORQUE Value 100

Heidolph

Specifications

Max. stirring quantity (H ₂ O):	50 l
Speed range:	10 ... 2000 rpm
Max. viscosity:	60000 mPas
Motor rating input/output:	90/50 W
Max. torque at stirring shaft:	100 Ncm
Display:	digital
Chuck range:	8 ... 10.5 mm
Dimensions (W x D x H):	86 x 247 x 350 mm
Weight:	4.4 kg
Power supply:	230 V, 50/60 Hz
Protection class:	IP 54

Type	Plug type	PK	Cat. No.
Hei-TORQUE Value 100	EU	1	7.981 688
Hei-TORQUE Value 100	UK	1	6.283 476

3



3 Overhead Stirrers Hei-TORQUE Core

Heidolph

- Compact, electronic overhead stirrer for easy operation.
- Can be integrated in closed systems such as fume hoods, reactors or production systems
 - Suitable for low to medium viscosity media
 - Quick-action chuck for stirring tools up to 10 mm diameter
 - "Max" button for short-term operation at maximum speed
 - Timer function
 - Digital rotation speed display
 - Automatic switch-off with overheating protection

Specifications

Stirring quantity max. (H ₂ O):	25 l
Speed range:	20... 2000 rpm
Max. viscosity:	10000 mPas
Motor rating input/output:	105/75 W
Max. torque at stirring shaft:	40 Ncm
Display:	digital
Chuck range:	8 ... 10.5 mm
Dimensions (W x D x H):	70 x 195 x 281.5 mm
Weight:	2.3 kg
Power supply:	230 V, 50/60 Hz
Protection class:	IP 42

Type	PK	Cat. No.
Hei-TORQUE Core	1	4.662 304

Accessories for Overhead Stirrers Hei-TORQUE

Heidolph

Type	For	PK	Cat. No.
Stand clamp for holder rod 13 to 32mm	Hei-TORQUE	1	9.816 562
Stand S 2, 425 x 420 x 700mm, 5.8kg	Hei-TORQUE	1	9.816 564
Stirrer shaft guard, PMMA, height-adjustable	Hei-TORQUE Core	1	9.816 566
Stirrer shaft guard, PMMA, height-adjustable	Hei-TORQUE	1	6.284 078
Flexible shaft including chuck, 8mm	Hei-TORQUE	1	7.047 043
Base Stand S2 XXL	Hei-TORQUE	1	6.228 500
Stirrer shaft gland NS 29/32 - PTFE	Hei-TORQUE	1	7.076 415
Telescopic stand	Hei-TORQUE	1	7.621 811



3 Flexible clutch

Required for stirring tasks using glass stirring rods. The flexible coupling compensates for any structural variances.

Clamping range: 6 to 10mm
Torque max. 10 Ncm

Type	PK	Cat. No.
FK 1	1	9.197 060



Globe Stirrer Couplings, POM

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

BOLA

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

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



7.632 676

5 Keyless chuck for overhead stirrers

Only for use with EUROSTAR 20/40/60/100/200/RW 20, excluding EUROSTAR 20 high speed digital and control.

Clamping range: 0.5 to 10 mm.

NEW

IKA



Type	PK	Cat. No.
R 60	1	6.258 335

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9.779 201

Magnetic stirrer bearing with ground joint

Stirrer head with a permanent magnetic coupling for mixing applications under vacuum. No straight-through shaft, no shaft sealing rings required as the torque is provided contactless by magnetic force.

Buddeberg

Rotational speed: 2500rpm
 Material: 1.4435 (AISI 316L)
 Seal: Viton
 Bearings: Ball bearing steel

Type	Joint size	Capacity	Temp. range		For fluid viscosity	Torque	PK	Cat. No.
			NS	ml				
BUK K20 S1	29/32	500	240		500	20	1	9.779 201
BUK K40 S1	29/32	1000	240		1500	40	1	9.779 202
BUK K60 S1	29/32	3000	240		6000	60	1	9.779 203
BUK K90 S1	29/32	5000	240		10000	90	1	9.779 204

2


2 Connection couplings

Fixed-diameter connection between motor and stirring shaft. Suitable for use in potentially explosive atmospheres (ATEX). Material no. 1.4404

Buddeberg

Type	For	PK	Cat. No.
VK 14 x 10	BSR 64 with stand	1	6.287 716
VK 14 x 14	BSR 64 with stand	1	6.287 718
VK 7 x 8	BUK/MRK	1	9.779 342

3


9.224 292

4


9.224 293

Bossheads for overhead stirrers

IKA

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

6


9.224 762

5


9.224 761

Strap clamps for overhead stirrers

IKA

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

*with R 270 bosshead

8


9.816 735

7


9.224 026

Stands for overhead stirrers

IKA

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

Further stands available on request.

4. Stirring, Shaking, Mixing Overhead stirrers/Stirrer Heads-Stirrers

3 PLR compressed air laboratory stirrers up to 30 L for use in potentially explosive atmospheres, without/with tachometer

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

Buddeberg

General specifications:

- operating pressure max. 6 bar
- air consumption 260 L/min. at 6 bar
- power output 200W at 6 bar
- clockwise rotation
- ATEX certification

Basic models include:

- all-stainless steel housing
- continuously adjustable speed control valve
- support arm diam. 14 mm
- snap connection for NW 5
- output shaft L x diam. 26 x 10 mm



Type	Capacity max.	Off-load speed	Torque	For fluid viscosity	Rating	ATEX certification	PK	Cat. No.
	litres	rpm.	Nm	mPa.	W			
PLR 10	3	15000	0.3	1000	200	Ex II 2G Ex h IIC T4 Gb	1	9.778 950
PLR 11	30	1900	3.5	50000	200	Ex II 2G Ex h IIC T5 Gb	1	9.778 951
PLR 12	30	870	5.3	70000	200	Ex II 2G Ex h IIC T5 Gb	1	9.778 952
PLR 28	30	580	10.4	100000	200	Ex II 2G Ex h IIC T5 Gb	1	9.778 954
PLR 13	30	80	19.8	150000	200	Ex II 2G Ex h IIC T5 Gb	1	9.778 953
PLR 10T*	3	15000	0.3	1000	200	Ex II 2G Ex h IIC T4 Gb	1	9.778 960
PLR 11T*	30	1800	3.5	50000	200	Ex II 2G Ex h IIC T5 Gb	1	9.778 961
PLR 12T*	30	950	5.3	70000	200	Ex II 2G Ex h IIC T5 Gb	1	9.778 962
PLR 28T*	30	550	10.4	100000	200	Ex II 2G Ex h IIC T5 Gb	1	9.778 964
PLR 13T*	30	80	19.8	150000	200	Ex II 2G Ex h IIC T5 Gb	1	9.778 963

* analogue tachometer
The viscosity data are intended as a guideline.

4 Compressed air industrial stirrers BSR 64 with floor stand

BSR series stirrers perform routine mixing tasks up to 200 l.

Buddeberg

General specifications:

- operating pressure max. 6 bar
- air consumption 800 l/min. at 6 bar
- power output 640 W at 6 bar
- clockwise rotation
- ATEX rating to Ex II 2G Ex h IIC T5 Gb

Basic models include:

- all-stainless steel housing
- continuously adjustable speed control valve
- spherical clamping device with support arm diam. 16 mm, length 200 mm
- floor stand with rod (height 1000 mm, width 600 mm) and bosshead
- plug-in connector DN 7.8
- silencer
- output shaft L 32 mm x diam. 14 mm



Type	Capacity max.	Off-load speed	For fluid viscosity	Rating	PK	Cat. No.
	litres	rpm.	mPa.	W		
BSR 64/160-A-V	200	1600	20000	640	1	9.779 163
BSR 64/65-A-V	200	650	50000	640	1	9.779 164
BSR 64/30-A-V	200	300	100000	640	1	9.779 165

Stands

Floor stand BS

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

Buddeberg

Wall bracket WS

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

Type	Description	Length mm	PK	Cat. No.
BS 1	Floor stand	1000	1	9.224 000
BS 2	Floor stand	1500	1	6.206 348
BS 3	Floor stand	1000	1	6.314 306
WS	Wall bracket	1000	1	6.225 791





9.198 010



9.779 013



9.779 065

Compressed air powered stirrers, PLR, accessories

Buddeberg

Connection couplings VK:

Fixed-diameter connection for motor/magnetic coupling drive shaft and stirring rod. Suitable for use in potentially explosive atmospheres. Material No. 1.4404.

Flexible glass stirring shaft couplings PK:

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

Flexible glass stirring shaft couplings K:

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

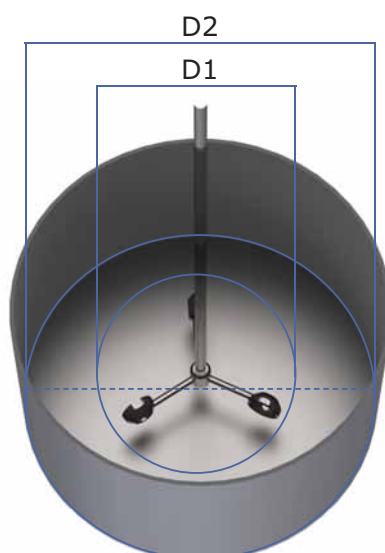
Double-Cardan-Coupling DCK I:

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

Type	Description	PK	Cat. No.
VK 10x8	Connection couplings 10 x 8 mm	1	6.286 426
VK 10x10	Connection couplings 10 x 10 mm	1	6.285 834
PK 10	Flex coupling receiver i. d. 10mm	1	9.779 013
PK 10/13	Flex coupling receiver i. d. 10/13mm	1	9.779 014
K 10	Flex coupling receiver i. d. 10mm	1	9.198 010
K 10/13	Flex coupling receiver i. d. 10/13mm	1	9.197 400
DCK I	Stainless steel, L = 110mm	1	9.779 065



How to select the correct stirring rotor size



Propeller stirrer

 $D1 = D2 \times \text{min. } 0.1 \text{ to max. } 0.5$


Diagonal blade stirrer

 $D1 = D2 \times \text{min. } 0.25 \text{ to max. } 0.5$


Anchor stirrer

 $D1 = D2 \times \text{min. } 0.9 \text{ to max. } 0.98$


Dissolver stirrer

 $D1 = D2 \times \text{min. } 0.2 \text{ to max. } 0.5$


BuddeMix

 $D1 = D2 \times \text{min. } 0.3 \text{ to max. } 0.75$


Buddeberg Laboratory Technology GmbH develops and manufactures explosion-protected compressed air laboratory stirrers and industrial stirrers as well as magnetic stirrer couplings and drives for the chemical, pharmaceutical, coating and food industry.

Furthermore, we offer **individual solutions** tailored to suit your special requirements. Please feel free to contact us.

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