

Мешалки верхнеприводные CARL ROTH

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Agitators



Laboratory stirrers

Velp.

Technical specifications:

Art. No.	ACP3.1	ACP4.1
Type	ES	DLS
Max. stirring capacity (H ₂ O)	15 l	25 l
Max. viscosity	1,000 mPas	25,000 mPas
Max. torque	15 Ncm	40 Ncm
Motor power input	45 W	180 W
Motor power output	30 W	120 W
Speed range	50 to 1300 rpm	50 to 2000 rpm
Speed display	Scale	LCD
Ø Extension arm	13 mm	
Extension arm length	150 mm	
W x D x H	80 x 160 x 200 mm	80 x 215 x 196 mm
Weight	1.3 kg	2.5 kg
Mains connection	80–260 V, 50/60 Hz	

Delivery without stirring tool, stand and boss head, please order separately – see stirrer accessories.

(1) ES model

- For simple stirring applications
- Clamping range of chuck 1 to 10 mm
- Push-through stirring tool

Pic.	Type	Art. No.	Pack Qty.
(1)	ES	ACP3.1	1 unit(s)

(2) DLS model

- Electronic control for constant speed even after change in medium viscosity
- Digital display of nominal and actual speed
- Integrated timer function (adjustable to 999 min, 59 sec)
- Clamping range of chuck 1 to 10 mm
- Push-through stirring tool

Pic.	Type	Art. No.	Pack Qty.
(2)	DLS	ACP4.1	1 unit(s)



Laboratory stirrers RSO series

Phönix Instrument.

Technical specifications:

Art. No.	TA74.1	TA75.1	TA76.1
Type	RSO-20A analogue	RSO-20D digital	RSO-40A analogue
Max. stirring capacity (H ₂ O)	20 l		40 l
Max. viscosity	10,000 mPas		50,000 mPas
Max. torque	30 Ncm		60 Ncm
Motor power input	70 W		130 W
Motor power output	50 W		100 W
Speed range	50 to 2200 rpm		
Speed deviation during load change		±3 rpm	
Speed display	LED	LCD	LED
Torque display	No	Yes	No
Ø Extension arm	16 mm		
Extension arm length	200 mm		
Port		RS 232	
W x D x H	83 x 186 x 220 mm		
Weight	2.5 kg		3.5 kg
Mains connection	100–240 V, 50/60 Hz		

Delivery without stirring tool, stand and boss head (please order separately).

(1) Analogue stirrer

For stirring capacities up to 20/40 l. With digital LED speed display. Extremely quiet running. Speed continuously adjustable up to 2200 rpm. Stirring tools can be inserted. Clamping range of chuck 0.5 to 10 mm.

Type	Art. No.	Pack Qty.
RSO-20A analogue	TA74.1	1 unit(s)
RSO-40A analogue	TA76.1	1 unit(s)

(2) Digital/electronic stirrer

For stirring capacities up to 20 l as well as constant speed at changing medium viscosity. With LCD speed display. Display of nominal and actual speed or trend torque display. RS 232 port. Soft starting. Stirring tools can be inserted. Clamping range of chuck 0.5 to 10 mm.

Type	Art. No.	Pack Qty.
RSO-20D digital	TA75.1	1 unit(s)

Agitators



Accessories stand set for laboratory stirrers

Phönix Instrument.

With locknut to additionally secure the stand rod and prevent accidental removal. Clamping range of clamp for stand and extension arm: 4 to 24 mm. Max. weight load 5 kg. Dimensions: W 200 mm x D 310 mm x H 800 mm.

Delivery incl. stand plate, stand rod, clamp and immersion limiters to prevent accidental piercing to the vessel base.

Designation	Art. No.	Pack Qty.	
Stand set	TA77.1	1 unit(s)	



Electronic laboratory stirrers NANOSTAR 7.5 digital

IKA.

Space-saving, compact stirrer with processor-controlled speed.

- Digital speed display
- Continuously adjustable speed via rotary knob
- Constant torque over the entire speed range
- Push-through stirrer shafts
- Clamping range of chuck 0.5 to 8.2 mm

Technical specifications:

Art. No.	1EH4.1
Type	NANOSTAR 7.5 digital
Max. stirring capacity (H ₂ O)	5 l
Max. viscosity	4,000 mPas
Max. torque	7.5 Ncm
Motor power input	32 W
Motor power output	22 W
Speed range	50 to 2000 rpm
Speed display	LED
Ø Extension arm	13 mm
Extension arm length	160 mm
W x D x H	53 x 130 x 147 mm
Weight	0,8 kg
Mains connection	100–240 V, 50/60 Hz

Delivery incl. R 300 stirrer shaft protection. Without stirring tool, stand and boss head please order separately - (see stirrer accessories).

Type	Art. No.	Pack Qty.	
NANOSTAR 7.5 digital	1EH4.1	1 unit(s)	



Electronic laboratory stirrers Hei-TORQUE Core

Heidolph.

Suitable for low- to medium-viscosity media. Digital target/actual speed display. Timer function (1 sec to 99 h, 59 min and 59 sec). "Max button" for short-term operation at maximum speed. "Quick-Chuck" with clamping range from 0.5 to 10.5 mm.

Technical specifications:

Art. No.	KAY6.1
Type	Hei-TORQUE Core
Max. stirring capacity (H ₂ O)	25 l
Max. viscosity	10,000 mPas
Max. torque	40 Ncm
Motor power input	105 W
Motor power output	75 W
Speed range	20 to 2000 rpm
Speed display	TFT display, monochrome, 2"
Ø Extension arm	13 mm
Extension arm length	160 mm
W x D x H	70 x 195 x 281.5 mm
Weight	2,3 g
Mains connection	100–240 V, 50/60 Hz

Delivery without stirring tool, stand and boss head please order separately – (see stirrer accessories).

Type	Art. No.	Pack Qty.	
Hei-TORQUE Core	KAY6.1	1 unit(s)	



Agitators



Electronic laboratory stirrers EUROSTAR 20 series

IKA.

Constant speed through microprocessor control. An electronic safety circuit ensures that the device is switched off in the event of a fault or overload. Continuous matching of target and actual speed, to automatically correct any discrepancies. For constant speed, even after changes in medium viscosity.

- Digital speed display
- Continuously adjustable speed
- Push-through stirrer shafts
- Clamping range of chuck: 0.5 to 10 mm (EUROSTAR 20 digital only)
- EUROSTAR 20 high speed digital: Drive shaft with tapered seat for supplied R 6000 precision stirrer (L 280 mm, max. immersion depth 220 mm). Special precision stirrer is separately available.

Technical specifications:

Art. No.	XT16.1	XT17.1
Type	EUROSTAR 20 digital	EUROSTAR 20 high speed digital
Max. stirring capacity (H ₂ O)	15 l	20 l
Max. viscosity	10,000 mPas	
Max. torque	20 Ncm	
Motor power input	56 W	171 W
Motor power output	44 W	133 W
Speed range	30 to 2000 rpm	150 to 6000 rpm
Speed display	LED	
Ø Extension arm	16 mm	
Extension arm length	220 mm	
W x D x H	86 x 208 x 248 mm	86 x 208 x 325 mm
Weight	4.4 kg	5.3 kg
Mains connection	230 V, 50/60 Hz	

Delivery without please order stirring tool, stand and boss head separately (see stirrer accessories).

Pic.	Type	Art. No.	Pack Qty.
(1)	EUROSTAR 20 digital	XT16.1	1 unit(s)
(2)	EUROSTAR 20 high speed digital	XT17.1	1 unit(s)

Accessories special precision stirrer for laboratory stirrers EUROSTAR 20 high speed digital

IKA.

Only suitable for use with precision stirrer shaft R 6000 of the EUROSTAR 20 high speed digital. Max. speed 6,000 rpm.

Designation	Art. No.	Pack Qty.
Dissolver stirrer, Ø Stirrers 42 mm	AHK7.1	1 unit(s)
Propeller stirrers, Ø Stirrers 55 mm	AHK5.1	1 unit(s)
Propeller stirrers, Ø Stirrers 45 mm	AHK6.1	1 unit(s)

Accessories Quick-action chuck for laboratory stirrers EUROSTAR 20 digital and 40/60/100/200

IKA.

Stirring tool can be replaced without chuck key.
Not suitable for EUROSTAR 20 high speed digital.

Designation	Art. No.	Pack Qty.
Quick-action chuck for EUROSTAR series	XT18.1	1 unit(s)



Electronic laboratory stirrers MICROSTAR series

IKA.

Constant speed over the entire speed range.

- Digital speed display
- Continuously adjustable speed
- Push-through stirrer shafts
- Clamping range of chuck 0.5 to 8,2 mm

Technical specifications:

Art. No.	KAK5.1	KAK6.1	KAK7.1
Type	MICROSTAR 7.5 digital	MICROSTAR 15 digital	MICROSTAR 30 digital
Max. stirring capacity (H ₂ O)	5 l	10 l	20 l
Max. viscosity	4,000 mPas	8,000 mPas	20,000 mPas
Max. torque	7.5 Ncm	15 Ncm	30 Ncm
Motor power input	32 W		
Motor power output	22 W		
Speed range	50 to 2000 rpm	50 to 1000 rpm	50 to 500 rpm
Speed display	LED		
Ø Extension arm	13 mm		
Extension arm length	160 mm		
W x D x H	60 x 173 x 126 mm		
Weight	1,18 kg	1,26 kg	
Mains connection	100–240 V, 50/60 Hz		

Delivery without stirring tool, stand and boss head please order separately - (see stirrer accessories).

Type	Art. No.	Pack Qty.
MICROSTAR 7.5 digital	KAK5.1	1 unit(s)
MICROSTAR 15 digital	KAK6.1	1 unit(s)
MICROSTAR 30 digital	KAK7.1	1 unit(s)

Agitators



Electronic laboratory stirrers MINISTAR series

IKA.

Constant speed over the entire speed range.

- Digital speed display
- Continuously adjustable speed
- Push-through stirrer shafts
- Clamping range of chuck 0.5 to 8,2 mm

Technical specifications:

Art. No.	KAK8.1	KAK9.1	KAL0.1
Type	MINISTAR 20 digital	MINISTAR 40 digital	MINISTAR 80 digital
Max. stirring capacity (H ₂ O)	15 l	25 l	50 l
Max. viscosity	10,000 mPas	30,000 mPas	60,000 mPas
Max. torque	20 Ncm	40 Ncm	80 Ncm
Motor power input	60 W		
Motor power output	46 W		
Speed range	50 to 2000 rpm	50 to 1000 rpm	50 to 500 rpm
Speed display	LED		
Ø Extension arm	13 mm		
Extension arm length	160 mm		
W x D x H	70 x 193 x 148 mm		
Weight	1,56 kg	1,72 kg	
Mains connection	100–240 V, 50/60 Hz		

Delivery without stirring tool, stand and boss head please order separately - (see stirrer accessories).

Type	Art. No.	Pack Qty.	
MINISTAR 20 digital	KAK8.1	1 unit(s)	
MINISTAR 40 digital	KAK9.1	1 unit(s)	
MINISTAR 80 digital	KAL0.1	1 unit(s)	



Electronic laboratory stirrers RW 20 digital

IKA.

For stirring capacities up to 20 l. Robust, slimline stirrer with digital display. Two speed ranges for universal use, 60 to 2000 rpm. Clamping range of chuck 0.5 to 10 mm. Push-through stirring tool.

Technical specifications:

Art. No.	EY86.1
Type	RW 20 digital
Max. stirring capacity (H ₂ O)	20 l
Max. viscosity	10,000 mPas
Max. torque	150 Ncm
Motor power input	70 W
Motor power output	35 W
Speed range	60 to 500 rpm
Speed range II	240 to 2000 rpm
Speed display	digital
Ø Extension arm	13 mm
Extension arm length	160 mm
W x D x H	88 x 212 x 294 mm
Weight	3.1 kg
Mains connection	230 V, 50 Hz

Delivery without please order stirring tool, stand and boss head separately – see stirrer accessories.

Type	Art. No.	Pack Qty.	
RW 20 digital	EY86.1	1 unit(s)	



Agitators



Electronic laboratory stirrers Hei-TORQUE Value series

Heidolph.

For constant speed, even after changes in medium viscosity. Glass display with touch elements. Safety-oriented start/stop function (slide for start/stop). Protection class IP 54.

- Digital display of nominal/actual speed
- Continuously adjustable speed
- Push-through stirrer shafts
- Display of torque trend to detect changes in viscosity (using symbols)
- Clamping range of chuck 2.5 to 12.5 mm
- Quick-Chuck

Technical specifications:

Art. No.	CLT1.1	CLT2.1	CLT3.1
Type	Value 100	Value 200	Value 400
Max. stirring capacity (H ₂ O)	50 l		100 l
Max. viscosity	60,000 mPas	100,000 mPas	250,000 mPas
Max. torque	100 Ncm	200 Ncm	400 Ncm
Motor power input	90 W	120 W	150 W
Motor power output	50 W	80 W	90 W
Speed range	10 to 2000 rpm		100 to 400 rpm
Speed range II			20 to 2000 rpm
Speed display	digital monochrome 2.4"		
Ø Extension arm	13 mm		
Extension arm length	160 mm		
W x D x H	86 x 257 x 241 mm		93 x 257 x 241 mm
Weight	4.1 kg	5.0 kg	5.2 kg
Mains connection	230 V, 50/60 Hz		

Delivery without stirring tool, stand and boss head, please order separately.

Type	Art. No.	Pack Qty.	
Value 100	CLT1.1	1 unit(s)	
Value 200	CLT2.1	1 unit(s)	
Value 400	CLT3.1	1 unit(s)	



Electronic laboratory stirrers Hei-TORQUE Precision series

Heidolph.

For constant speed, even after changes in medium viscosity. Glass display with touch elements. Safety-oriented start/stop function (slide for start/stop). Protection class IP 54.

- Digital display for
 - Countdown function (adjustable from 1 min to 24 h)
 - Storage of 7 favourites (combination of countdown and speed)
 - Ramp function with up to 7 steps
 - Graphical display of process sequence
 - Time
- Continuously adjustable speed
- Plain text torque display with value (resolution 0.1 N cm)
- Push-through stirrer shafts
- USB interface
- Quick-Chuck with clamping range from 2.5 to 12.5 mm

Technical specifications:

Art. No.	CPK0.1	CPK1.1	CPK2.1
Type	Precision 100	Precision 200	Precision 400
Max. stirring capacity (H ₂ O)	50 l		100 l
Max. viscosity	60,000 mPas	100,000 mPas	250,000 mPas
Max. torque	100 Ncm	200 Ncm	400 Ncm
Motor power input	90 W	120 W	150 W
Motor power output	50 W	80 W	90 W
Speed range	10 to 2000 rpm		100 to 400 rpm
Speed range II			20 to 2000 rpm
Speed display	digital colour 3.2"		
Ø Extension arm	13 mm		
Extension arm length	160 mm		
Weight	4.1 kg	5.0 kg	5.2 kg
Mains connection	230 V, 50 Hz		

Delivery without stirring tool, stand and boss head, please order separately.

Precision models with change of direction

Anticlockwise stirring is also possible.

Type	Art. No.	Pack Qty.	
Precision 100	CPK0.1	1 unit(s)	
Precision 200	CPK1.1	1 unit(s)	

Precision 400 models

Type	Art. No.	Pack Qty.	
Precision 400	CPK2.1	1 unit(s)	

Agitators



Electronic laboratory stirrers EUROSTAR digital series

IKA.

Constant speed through microprocessor control. An electronic safety circuit ensures that the device is switched off in the event of a fault or overload. Continuous matching of target and actual speed, to automatically correct any discrepancies. For constant speed, even after changes in medium viscosity.

- Digital speed display
- Continuously adjustable speed
- Push-through stirrer shafts
- Clamping range of chuck 0.5 to 10 mm

Technical specifications:

Art. No.	XT19.1	XT20.1	XT21.1	XT22.1
Type	EUROSTAR 40 digital	EUROSTAR 60 digital	EUROSTAR 100 digital	EUROSTAR 200 digital
Max. stirring capacity (H ₂ O)	25 l	40 l	100 l	
Max. viscosity	30,000 mPas	50,000 mPas	70,000 mPas	100,000 mPas
Max. torque	40 Ncm	60 Ncm	100 Ncm	200 Ncm
Motor power input	112 W	168 W	174 W	121 W
Motor power output	87 W	132 W	142 W	99 W
Speed range	30 to 2000 rpm		30 to 1400 rpm	6 to 400 rpm
Speed range II				30 to 2000 rpm
Speed display	LED			
Ø Extension arm	16 mm			
Extension arm length	220 mm			
W x D x H	86 x 208 x 248 mm			91 x 209 x 274 mm
Weight	4.4 kg			4.6 kg
Mains connection	230 V, 50/60 Hz			

Delivery without stirring tool, stand and boss head, please order separately – see stirrer accessories.

Type	Art. No.	Pack Qty.	
EUROSTAR 40 digital	XT19.1	1 unit(s)	
EUROSTAR 60 digital	XT20.1	1 unit(s)	
EUROSTAR 100 digital	XT21.1	1 unit(s)	
EUROSTAR 200 digital	XT22.1	1 unit(s)	

Accessories Quick-action chuck for laboratory stirrers EUROSTAR 20 digital and 40/60/100/200

IKA.

Stirring tool can be replaced without chuck key.
Not suitable for EUROSTAR 20 high speed digital.

Designation	Art. No.	Pack Qty.	
Quick-action chuck for EUROSTAR series	XT18.1	1 unit(s)	



Electronic laboratory stirrers MICROSTAR control series

IKA.

For stirring and mixing low viscosity liquids. Compact design with high-end features.

- Vibration detection with automatic stop in the event of stirring tool imbalance
- Torque measurement or temperature measurement with indication on the display - when the temperature sensor is plugged in, the torque or temperature display can be selected during operation
- Integrated temperature measurement using a measuring probe (-10 °C to 350 °C, accuracy of ±1.35 °C)
- With timer function up to a max. of 6000 min
- Microprocessor control for constant speed, even with changes in viscosity
- Push-through stirrer shafts
- USB interface and Bluetooth functionality
- Clamping range of chuck 0.5 to 8.2 mm

Technical specifications:

Art. No.	1EH1.1	1EH2.1	1EH3.1
Type	MICROSTAR 7.5 control	MICROSTAR 15 control	MICROSTAR 30 control
Max. stirring capacity (H ₂ O)	5 l	10 l	20 l
Max. viscosity	4,000 mPas	8,000 mPas	20,000 mPas
Max. torque	7.5 Ncm	15 Ncm	30 Ncm
Motor power input	32 W		
Motor power output	22 W		
Speed range	30 to 2000 rpm	30 to 1000 rpm	50 to 500 rpm
Speed display	LCD		
Ø Extension arm	13 mm		
Extension arm length	160 mm		
W x D x H	60 x 136 x 173 mm		
Weight	1,7 kg	1,26 kg	
Mains connection	100–240 V, 50/60 Hz		

Delivery incl. Pt 1000 H 67.60 temperature measuring sensor and R 300 stirrer shaft protection. Stirring tool, stand and boss head please order separately - (see stirrer accessories).

Type	Art. No.	Pack Qty.	
MICROSTAR 7.5 control	1EH1.1	1 unit(s)	
MICROSTAR 15 control	1EH2.1	1 unit(s)	
MICROSTAR 30 control	1EH3.1	1 unit(s)	



Agitators



Electronic laboratory stirrers MINISTAR control series

IKA.

For stirring and mixing low to medium viscosity liquids. Compact design with high-end features.

- Vibration detection with automatic stop in the event of stirring tool imbalance
- Torque measurement with indication on the display
- Temperature measurement with indication on the display when the temperature sensor is plugged in (-10 °C to 350 °C, accuracy of ± 1.35 °C)
- With timer function up to a max. of 6000 min
- Microprocessor control for constant speed, even with changes in viscosity
- Push-through stirrer shafts
- USB interface and Bluetooth functionality
- Clamping range of chuck 0.5 to 8.2 mm

Technical specifications:

Art. No.	1EH5.1	1EH6.1	1EH7.1
Type	MINISTAR 20 control	MINISTAR 40 control	MINISTAR 80 control
Max. stirring capacity (H ₂ O)	15 l	25 l	50 l
Max. viscosity	10,000 mPas	30,000 mPas	60,000 mPas
Max. torque	20 Ncm	40 Ncm	80 Ncm
Motor power input	60 W		
Motor power output	46 W		
Speed range	50 to 2000 rpm	30 to 1000 rpm	30 to 500 rpm
Speed display	LCD		
Ø Extension arm	13 mm		
Extension arm length	160 mm		
W x D x H	70 x 154 x 193 mm		
Weight	1,56 kg	1,72 kg	
Mains connection	100–240 V, 50/60 Hz		

Delivery incl. Pt 1000 H 67.60 temperature measuring sensor and R 300 stirrer shaft protection. Stirring tool, stand and boss head please order separately - (see stirrer accessories).

Type	Art. No.	Pack Qty.	
MINISTAR 20 control	1EH5.1	1 unit(s)	
MINISTAR 40 control	1EH6.1	1 unit(s)	
MINISTAR 80 control	1EH7.1	1 unit(s)	



Electronic laboratory stirrers EUROSTAR 60/100 control

IKA.

With detachable remote control and digital TFT display. Constant speed through microprocessor control. **Integrated torque trend display** measures the viscosity changes in the sample. Electronic safety circuit to switch off the device in the event of a fault or overload. Continuous matching of target and actual speed, to automatically correct any discrepancies. For constant speed, even after changes in medium viscosity.

- Programmable functions, e.g. Start/Stop function (adjustable to 9 h, 59 min, 59 sec)
- **Integrated temperature measurement (a temperature gauge is required to display the temperature. Please order separately)**
- Interval mode (adjustable to 59 min, 59 sec)
- Timer (adjustable to 99 h, 59 min, 59 sec)
- Infinitely adjustable speeds
- Push-through stirrer shafts
- With RS 232 and USB interface
- Clamping range of chuck 0.5 to 10 mm

Technical specifications:

Art. No.	XT44.1	XT45.1
Type	EUROSTAR 60 control	EUROSTAR 100 control
Max. stirring capacity (H ₂ O)	40 l	100 l
Max. viscosity	50,000 mPas	70,000 mPas
Max. torque	60 Ncm	100 Ncm
Motor power input	168 W	174 W
Motor power output	131 W	142 W
Speed range	30 to 2000 rpm	30 to 1300 rpm
Speed display	TFT	
Opposite direction of rotation	No	Yes
Ø Extension arm	16 mm	
Extension arm length	220 mm	
W x D x H	86 x 230 x 267 mm	
Mains connection	230 V, 50/60 Hz	

Delivery incl. please order stirring tool, stand and boss head separately – see stirrer accessories.

Type	Art. No.	Pack Qty.	
EUROSTAR 60 control	XT44.1	1 unit(s)	
EUROSTAR 100 control	XT45.1	1 unit(s)	

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