



# Product Overview 2011



# Welcome to IKA®

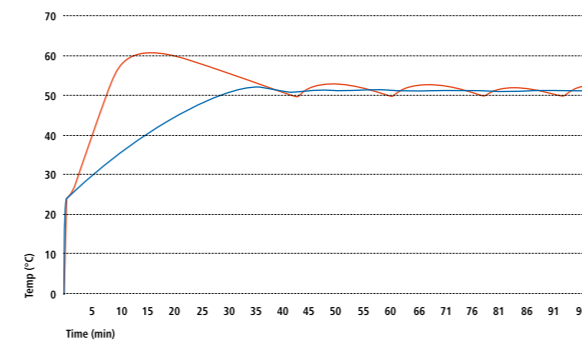


IKA®-Werke GmbH & Co. KG in Staufen, Germany can now look back on a century of history.

The company, which was founded in 1910 as a distributor for pharmacies and hospitals, relocated from bombed-out Cologne to Staufen in 1942. There it quickly became the global market leader for laboratory technology as well as dispersing, stirring, and kneading machines. Today, IKA® employs over 600 people at six different locations on four continents.

IKA® laboratory technology offers a vast spectrum of innovative devices for numerous applications in research and development. For mixing, tempering, distilling or crushing, market leaders in varying fields of application rely on IKA®'s innovative and proven technology.

For more information, please see:  
[www.ika.com](http://www.ika.com)



### Heating rate of water (500 ml)

Two temperature control modes possible:  
- PI mode for accurate temperature control without overshootings  
- Two-point mode for maximum heating rate

### Self-monitoring of all safety-relevant components

Guarantees safety in the event of a malfunction.

### Adjustable safety circuit, conforms to standards

The flashpoint of the medium will not be overshoot. Prevents accidental changes of the safety temperature.

# INTEGRATED SAFETY

IKA® magnetic stirrers adhere to the requirements set forth by the norms **DIN IEC EN 61010-1**, **DIN IEC EN 61010-2-010**, **DIN EN IEC 61010-2-051**  
- tested and certified by UL International (see certification number) - as well as **DIN IEC EN 61326-1**.

The IKA® RCT basic fulfills, in all areas, the required safety regulations for laboratory equipment. Of course, all of our products conform to CE certification.



### Digital display

Enables comparison of the set and actual temperatures as well as the stirring speed. Monitoring of set values is also possible from a distance because of the large easily read display.

### Precise temperature control

The set temperature is reached quickly and held stable.



### Two independent control circuits

The set temperature values are held constant in the event of a malfunction of one control circuit.

# Magnetic stirrers with heating

Please find required accessories on [www.ika.com](http://www.ika.com)



## ETS-D5

Electronic contact thermometer for perfect temperature control in the medium.

- Temperature measuring range from - 50 – 450 °C
- Resolution / setting accuracy: 0,1 K
- Control deviation: ± 0,5 K
- Measuring accuracy: ± 0,2 K (+ sensor tolerance PT 1000)
- Incl. measuring sensor H 62.51
- Connection: DIN 12878 class 2
- Optimized PID regulation and RESET function

Ident. No. 3378000

Price: € 349,-

## Contact thermometer bushing

Bushing according to DIN 12878 for connecting a digital contact thermometer such as an ETS-D5 recommended.

## Ceramic heating plate

Excellent chemical resistance to acids, bases, and solvents.

## Digital display

Precise temperature control thanks to a digital display.



## C-MAG HS 7 IKAMAG®

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

- Fixed safety circuit of 550 °C
- Hot Top indicator to prevent burns



## C-MAG HS 10 IKAMAG®

### Technical data

Stirring quantity (H <sub>2</sub> O)	20 l
Speed display	digital
Speed range	50 – 1.500 rpm
Heating function	
Heat output	600 W
Temperature range	RT – 310 °C
Setting accuracy	± 1 K
Safety circuit	50 – 360 °C
Control accuracy with sensor	PT 1000 ± 1 K / ETS-D5 ± 0,5 K
<b>Heating plate</b>	
Material	aluminium alloy
Dimensions	Ø 135 mm
<b>General data</b>	
Dimensions (W x D x H)	160 x 270 x 85 mm
Weight	2,5 kg
Ident. No.	3810000

Price

## RCT basic safety control IKAMAG®

Stirring quantity (H <sub>2</sub> O)	20 l
Speed display	digital
Speed range	50 – 1.500 rpm
Heating function	
Heat output	600 W
Temperature range	RT – 310 °C
Setting accuracy	± 1 K
Safety circuit	50 – 360 °C
Control accuracy with sensor	PT 1000 ± 1 K / ETS-D5 ± 0,5 K
<b>Heating plate</b>	
Material	aluminium alloy
Dimensions	Ø 135 mm
<b>General data</b>	
Dimensions (W x D x H)	160 x 270 x 85 mm
Weight	2,5 kg
Ident. No.	3810000

€ 699,-

## RET basic safety control IKAMAG®

Stirring quantity (H <sub>2</sub> O)	20 l
Speed display	digital
Speed range	50 – 1.700 rpm
Heating function	
Heat output	600 W
Temperature range	RT – 340 °C
Setting accuracy	± 1 K
Safety circuit	50 – 360 °C
Control accuracy with sensor	PT 1000 ± 1 K / ETS-D5 ± 0,5 K
<b>Heating plate</b>	
Material	stainless steel (AISI 304)
Dimensions	Ø 135 mm
<b>General data</b>	
Dimensions (W x D x H)	160 x 270 x 95 mm
Weight	2,5 kg
Ident. No.	3622000

€ 899,-

## RET control/t safety control IKAMAG®

Stirring quantity (H <sub>2</sub> O)	20 l
Speed display	digital
Speed range	0 – 1.200 rpm
Heating function	
Heat output	600 W
Temperature range	RT – 340 °C
Setting accuracy	0,5 K (< 100°C) 1K (> 100°C)
Safety circuit	50 – 350 °C
Control accuracy with sensor	± 0,2 K
<b>Heating plate</b>	
Material	stainless steel (AISI 304)
Dimensions	Ø 135 mm
<b>General data</b>	
Dimensions (W x D x H)	160 x 280 x 97 mm
Weight	2,8 kg
Ident. No.	3964000

€ 1.039,-

## RH basic 2 IKAMAG®

Stirring quantity (H <sub>2</sub> O)	10 l
Speed display	scale (0 - 6)
Speed range	100 – 2.000 rpm
Heating function	
Heat output	400 W
Temperature range	RT – 320 °C
Setting accuracy	± 10 K
Safety circuit	400 °C (fixed)
Control accuracy with sensor	–
<b>Heating plate</b>	
Material	stainless steel (AISI 304)
Dimensions	Ø 125 mm
<b>General data</b>	
Dimensions (W x D x H)	168 x 220 x 105 mm
Weight	2,4 kg
Ident. No.	3339000

€ 274,-

## C-MAG HS 4 IKAMAG®

Stirring quantity (H <sub>2</sub> O)	5 l
Speed display	scale (0 - 6)
Speed range	100 – 1.500 rpm
Heating function	
Heat output	250 W
Temperature range	50 – 500 °C
Setting accuracy	± 10 K
Safety circuit	550 °C (fixed)
Control accuracy with sensor	–
<b>Heating plate</b>	
Material	glass ceramic
Dimensions	100 x 100 mm
<b>General data</b>	
Dimensions (W x D x H)	150 x 260 x 105 mm
Weight	3 kg
Ident. No.	3581000

€ 455,-

Stirring quantity (H <sub>2</sub> O)	10 l
Speed display	scale (0 - 6)
Speed range	100 – 1.500 rpm
Heating function	
Heat output	1.000 W
Temperature range	50 – 500 °C
Setting accuracy	± 10 K
Safety circuit	550 °C (fixed)
Control accuracy with sensor	ETS-D5 ± 0,5 K
<b>Heating plate</b>	
Material	glass ceramic
Dimensions	180 x 180 mm
<b>General data</b>	
Dimensions (W x D x H)	220 x 330 x 105 mm
Weight	5 kg
Ident. No.	3581200

€ 369,-

Stirring quantity (H <sub>2</sub> O)	15 l
Speed display	scale (0 - 6)
Speed range	100 – 1.500 rpm
Heating function	
Heat output	1.500 W
Temperature range	50 – 500 °C
Setting accuracy	± 10 K
Safety circuit	550 °C (fixed)
Control accuracy with sensor	ETS-D5 ± 0,5 K
<b>Heating plate</b>	
Material	glass ceramic
Dimensions	260 x 260 mm
<b>General data</b>	
Dimensions (W x D x H)	300 x 415 x 105 mm
Weight	6 kg
Ident. No.	3581400

€ 616,-

# Magnetic stirrers with and without heating

Please find required accessories on [www.ika.com](http://www.ika.com)

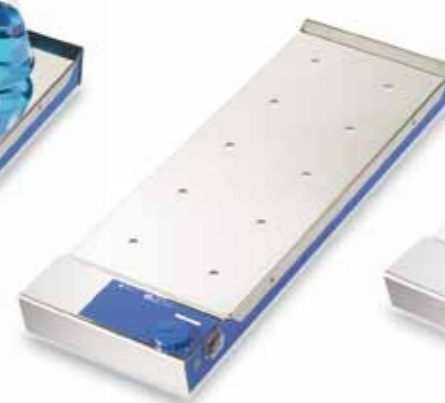


## Simultaneously operating stirrers

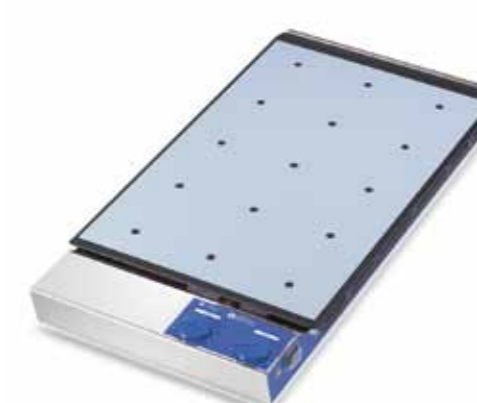
Absolute consistency of sample conditions for the individual samples.

## Silicone heating foil

For steady temperatures throughout the entire set-up plate.



RT 10 power IKAMAG®



### Technical data

Stirring positions	5
Max. stirring quantity per stirrer (H <sub>2</sub> O)	0,4 l
Speed display	scale (1 – 10)
Speed range	0 – 1.100 rpm
Deviation for individual stirring positions	5%

### Heating function

Heat output	–
Temperature range (surface)	–
Max. temperature medium	–
Temperature consistency in the medium	–

### Set-up plate

Material	stainless steel (AISI 304)
Dimensions	120 x 450 mm

### General data

Dimensions (W x D x H)	122 x 552 x 65 mm
Weight	2,3 kg
Ident. No.	2930200

### Price

RO 5 power IKAMAG®

Stirring positions	5
Max. stirring quantity per stirrer (H <sub>2</sub> O)	0,4 l
Speed display	scale (1 – 10)
Speed range	0 – 1.100 rpm
Deviation for individual stirring positions	5%
Heat output	–
Temperature range (surface)	–
Max. temperature medium	–
Temperature consistency in the medium	–
Material	stainless steel (AISI 304)
Dimensions	120 x 450 mm
Dimensions (W x D x H)	122 x 552 x 65 mm
Weight	2,3 kg
Ident. No.	2930200

€ 1.024,-

RO 10 power IKAMAG®

Stirring positions	10
Max. stirring quantity per stirrer (H <sub>2</sub> O)	0,4 l
Speed display	scale (1 – 10)
Speed range	0 – 1.100 rpm
Deviation for individual stirring positions	5%
Heat output	–
Temperature range (surface)	–
Max. temperature medium	–
Temperature consistency in the medium	–
Material	stainless steel (AISI 304)
Dimensions	180 x 450 mm
Dimensions (W x D x H)	182 x 552 x 65 mm
Weight	3,2 kg
Ident. No.	2930400

€ 1.472,-

RO 15 power IKAMAG®

Stirring positions	15
Max. stirring quantity per stirrer (H <sub>2</sub> O)	0,4 l
Speed display	scale (1 – 10)
Speed range	0 – 1.100 rpm
Deviation for individual stirring positions	5%
Heat output	–
Temperature range (surface)	–
Max. temperature medium	–
Temperature consistency in the medium	–
Material	stainless steel (AISI 304)
Dimensions	270 x 450 mm
Dimensions (W x D x H)	272 x 552 x 65 mm
Weight	4,7 kg
Ident. No.	2930600

€ 1.812,-

RT 5 power IKAMAG®

Stirring positions	5
Max. stirring quantity per stirrer (H <sub>2</sub> O)	0,4 l
Speed display	scale (1 – 10)
Speed range	0 – 1.100 rpm
Deviation for individual stirring positions	5%
Heat output	175 W
Temperature range (surface)	RT – 120 °C
Max. temperature medium	70 °C
Temperature consistency in the medium	± 2 K
Material	silicone
Dimensions	120 x 450 mm
Dimensions (W x D x H)	138 x 552 x 65 mm
Weight	3 kg
Ident. No.	2930300

€ 1.570,-

RT 10 power IKAMAG®

Stirring positions	10
Max. stirring quantity per stirrer (H <sub>2</sub> O)	0,4 l
Speed display	scale (1 – 10)
Speed range	0 – 1.100 rpm
Deviation for individual stirring positions	5%
Heat output	375 W
Temperature range (surface)	RT – 120 °C
Max. temperature medium	70 °C
Temperature consistency in the medium	± 2 K
Material	silicone
Dimensions	180 x 450 mm
Dimensions (W x D x H)	198 x 552 x 65 mm
Weight	4,2 kg
Ident. No.	2930500

€ 2.100,-

RT 15 power IKAMAG®

Stirring positions	15
Max. stirring quantity per stirrer (H <sub>2</sub> O)	0,4 l
Speed display	scale (1 – 10)
Speed range	0 – 1.100 rpm
Deviation for individual stirring positions	5%
Heat output	580 W
Temperature range (surface)	RT – 120 °C
Max. temperature medium	70 °C
Temperature consistency in the medium	± 2 K
Material	silicone
Dimensions	270 x 450 mm
Dimensions (W x D x H)	288 x 552 x 65 mm
Weight	6 kg
Ident. No.	2930700

€ 2.627,-

# Magnetic stirrers without heating

See more designs of the lab disc, big squid and color squid on [www.ika.com](http://www.ika.com)



**Glass plate**  
Excellent chemical resistance to acids, bases, and solvents.

**High-power motor**  
Electronically controlled motor for a high capacity and high speed range.

**Digital display**  
Enables precise setting of speed.

**Ultra-flat**

The modern magnet coil technology enables a height of only 12 mm.

**Change of rotating direction**

For a better mixing of the medium, the rotating direction can be automatically changed every 30 seconds.



**big squid IKAMAG®**

1,5 l
3 / 2 W
digital
0 – 2.500 rpm
-
30 x 8 mm
glass
Ø 160 mm
180 x 195 x 40 mm
0,7 kg
IP 54
3672000
€ 211,-

**color squid IKAMAG®**

1 l
3 / 2 W
digital
0 – 2.500 rpm
-
30 x 8 mm
glass
Ø 115 mm
145 x 160 x 45 mm
0,54 kg
IP 54
3671000
€ 194,-

**lab disc IKAMAG® white**

0,8 l
5 / 3 W
-
15 – 1.500 rpm
every 30 seconds
30 x 8 mm
polyester
Ø 100 mm
117 x 180 x 12 mm
0,3 kg
IP 65
3907500
€ 195,-

**Mini MR standard IKAMAG®**

1 l
3 / 2 W
-
0 – 2.500 rpm
-
30 x 8 mm
polyester
115 x 115 mm
114 x 127 x 37 mm
0,25 kg
IP 42
3674000
€ 256,-

**topolino IKAMAG®**

0,25 l
1 / 0,8 W
-
300 – 1.800 rpm
-
30 x 8 mm
PP
Ø 80 mm
95 x 115 x 37 mm
0,32 kg
IP 21
3368000
€ 74,-

**Technical data**

Stirring quantity (H <sub>2</sub> O)	0,8 l
Motor rating input / output	5 / 3 W
Speed display	-
Speed range	15 – 1.500 rpm
Reversion of rotation direction (switchable)	every 30 seconds
Max. magnetic bar (L x Ø) mm	30 x 8 mm
<b>Set-up plate</b>	
Material	polyester
Dimensions	Ø 100 mm
<b>General data</b>	
Dimensions (W x D x H)	117 x 180 x 12 mm
Weight	0,3 kg
Protection class acc. to DIN EN 60529	IP 65
Ident. No.	3907500

**Price**

€ 195,-

€ 256,-

€ 74,-

€ 211,-

€ 194,-

# Magnetic stirrers without heating

Please find required accessories on [www.ika.com](http://www.ika.com)

**Non-locking motor**  
Enables efficient stirring of up to 150 l.

**Timer**  
Stirring function stops automatically when the set time is up.

**Ceramic plate**  
Excellent chemical resistance to acids, bases, and solvents.

**Elevated control panel**  
For protection against leaking liquids.



## Maxi MR 1 digital IKAMAG®

Powerful magnetic stirrer without heating in a flat, sturdy stainless steel casing for stirring quantities of up to 150 liters.

- Infinitely variable speed
- Digital LED speed display



## C-MAG MS 4 IKAMAG®

5 l  
15 / 1,5 W  
scale  
30 x 8 mm

glass ceramic  
100 x 100 mm

150 x 260 x 105 mm  
3 kg  
IP 21  
3582200

€ 378,-

## C-MAG MS 7 IKAMAG®

10 l  
15 / 1,5 W  
scale  
80 x 10 mm

glass ceramic  
180 x 180 mm

220 x 330 x 105 mm  
5 kg  
IP 21  
3582400

€ 495,-

## C-MAG MS 10 IKAMAG®

The glass ceramic set-up plate offers excellent chemical resistance.

- Powerful motor
- Elevated control panel for protection against leaking liquids

15 l  
15 / 1,5 W  
scale  
80 x 10 mm

glass ceramic  
260 x 260 mm

300 x 415 x 105 mm  
6 kg  
IP 21  
3582600

€ 574,-

### Technical data

Stirring quantity (H <sub>2</sub> O)	5 l	50 l	150 l	5 l	10 l	15 l
Motor rating input / output	14 / 4 W	70 / 19 W	80 / 35 W	15 / 1,5 W	15 / 1,5 W	15 / 1,5 W
Speed range	0 - 1.100 rpm	0 - 1.000 rpm	0 - 600 rpm	scale	scale	scale
Max. magnetic bar (L x Ø)	50 x 8 mm	80 x 10 mm	155 x 27 mm	30 x 8 mm	80 x 10 mm	80 x 10 mm
<b>Set-up plate</b>						
Material	stainless steel (AISI 304)	stainless steel (AISI 304)	stainless steel (AISI 304)	glass ceramic	glass ceramic	glass ceramic
Dimensions	140 x 120 mm	350 x 350 mm	500 x 500 mm	100 x 100 mm	180 x 180 mm	260 x 260 mm
<b>General data</b>						
Dimensions (W x D x H)	140 x 200 x 75 mm	360 x 430 x 110 mm	505 x 585 x 110 mm	150 x 260 x 105 mm	220 x 330 x 105 mm	300 x 415 x 105 mm
Weight	1,4 kg	9 kg	16 kg	3 kg	5 kg	6 kg
Protection class acc. to DIN EN 60529	IP 21	IP 21	IP 21	IP 21	IP 21	IP 21
Ident. No.	2812000	2621900	2621800	3582200	3582400	3582600

Price

## KMO 2 basic IKAMAG®

5 l  
14 / 4 W  
0 - 1.100 rpm  
50 x 8 mm

stainless steel (AISI 304)  
140 x 120 mm

140 x 200 x 75 mm  
1,4 kg  
IP 21  
2812000

€ 550,-

## Midi MR 1 digital IKAMAG®

50 l  
70 / 19 W  
0 - 1.000 rpm  
80 x 10 mm

stainless steel (AISI 304)  
350 x 350 mm

360 x 430 x 110 mm  
9 kg  
IP 21  
2621900

€ 2.083,-

150 l  
80 / 35 W  
0 - 600 rpm  
155 x 27 mm

stainless steel (AISI 304)  
500 x 500 mm

505 x 585 x 110 mm  
16 kg  
IP 21  
2621800

€ 2.876,-

# Electronic overhead stirrers

Please find required accessories on [www.ika.com](http://www.ika.com)

## Push-through agitator shaft

Enables the customization of the stirring tool's length to fit the vessel.

## Digital display

Precise monitoring of set and actual speeds. Errors and deviations are displayed.

## Slim casing

Enables mounting on a variety of apparatus, for example: a preparative set-up with a three-necked flask.



Integrated torque trend display for viscosity control.

## EUROSTAR digital

Laboratory stirrer that can be used up to the medium viscosity range. A microprocessor control system guarantees a constant speed.

### Technical data

Stirring quantity (H <sub>2</sub> O)	10 l
Max. viscosity	10.000 mPas
Motor rating input / output	75 / 55 W
Max. torque at chuck	40 Ncm
Speed range	40 – 1.200 rpm
Speed display	scale (1 – 10)
Chuck range	0,5 – 10 mm
Diameter / length of extension arm	13 / 160 mm
<b>General data</b>	
Dimensions	80 x 190 x 222 mm
Weight	2,8 kg
Interface	–
Torque measurement	–
Ident. No.	2572100

### Price

### RW 16 basic

Stirring quantity (H <sub>2</sub> O)	20 l
Max. viscosity	10.000 mPas
Motor rating input / output	75 / 55 W
Max. torque at chuck	30 Ncm
Speed range	50 – 2.000 rpm
Speed display	digital
Chuck range	0,5 – 10 mm
Diameter / length of extension arm	13 / 160 mm
<b>General data</b>	
Dimensions	80 x 190 x 222 mm
Weight	2,8 kg
Interface	–
Torque measurement	–
Ident. No.	2482000

€ 687,-

€ 1.333,-

### EUROSTAR power basic

Stirring quantity (H <sub>2</sub> O)	40 l
Max. viscosity	50.000 mPas
Motor rating input / output	130 / 110 W
Max. torque at chuck	60 Ncm
Speed range	50 – 2.000 rpm
Speed display	scale
Chuck range	0,5 – 10 mm
Diameter / length of extension arm	16 / 200 mm
<b>General data</b>	
Dimensions	80 x 190 x 253 mm
Weight	3,8 kg
Interface	analog
Torque measurement	–
Ident. No.	2572200

€ 1.712,-

### EUROSTAR power control-visc

Stirring quantity (H <sub>2</sub> O)	40 l
Max. viscosity	50.000 mPas
Motor rating input / output	130 / 110 W
Max. torque at chuck	60 Ncm
Speed range	50 – 2.000 rpm
Speed display	digital
Chuck range	0,5 – 10 mm
Diameter / length of extension arm	16 / 200 mm
<b>General data</b>	
Dimensions	80 x 190 x 253 mm
Weight	3,8 kg
Interface	RS 232 / analog
Torque measurement	trend
Ident. No.	2600000

€ 1.807,-

### EUROSTAR power control-visc P1

Stirring quantity (H <sub>2</sub> O)	60 l
Max. viscosity	70.000 mPas
Motor rating input / output	153 / 134 W
Max. torque at chuck	100 Ncm
Speed range	50 – 1.200 rpm
Speed display	digital
Chuck range	0,5 – 10 mm
Diameter / length of extension arm	16 / 200 mm
<b>General data</b>	
Dimensions	80 x 190 x 253 mm
Weight	4 kg
Interface	RS 232 / analog
Torque measurement	trend
Ident. No.	3330000

€ 2.005,-

### EUROSTAR power control-visc P4

Stirring quantity (H <sub>2</sub> O)	40 l
Max. viscosity	100.000 mPas
Motor rating input / output	130 / 110 W
Max. torque at chuck	200 Ncm
Speed range	14 – 530 rpm
Speed display	digital
Chuck range	0,5 – 10 mm
Diameter / length of extension arm	16 / 200 mm
<b>General data</b>	
Dimensions	80 x 190 x 330 mm
Weight	4,9 kg
Interface	RS 232 / analog
Torque measurement	trend
Ident. No.	2850000

€ 3.525,-

### EUROSTAR power control-visc P7

Stirring quantity (H <sub>2</sub> O)	40 l
Max. viscosity	150.000 mPas
Motor rating input / output	130 / 110 W
Max. torque at chuck	380 Ncm
Speed range	8 – 290 rpm
Speed display	digital
Chuck range	0,5 – 10 mm
Diameter / length of extension arm	16 / 200 mm
<b>General data</b>	
Dimensions	80 x 190 x 330 mm
Weight	4,9 kg
Interface	RS 232 / analog
Torque measurement	trend
Ident. No.	2850700

€ 3.583,-

### EUROSTAR power control-visc 6000

Stirring quantity (H <sub>2</sub> O)	20 l
Max. viscosity	10.000 mPas
Motor rating input / output	130 / 110 W
Max. torque at chuck	15 Ncm
Speed range	150 – 6.000 rpm
Speed display	digital
Chuck range	fix
Diameter / length of extension arm	16 / 220 mm
<b>General data</b>	
Dimensions	80 x 190 x 317 mm
Weight	4,8 kg
Interface	RS 232 / analog
Torque measurement	trend
Ident. No.	3460000

€ 2.062,-

# Mechanical overhead stirrers

Please find required accessories on [www.ika.com](http://www.ika.com)



**RW 20 digital**



**RW 28 basic**

Dual-speed range makes it suitable for highly-viscous media and intense mixing. Push-through stirring tools. Special motor overheating protection by means of a self-locking temperature limiter.



**RW 47 D**

For batches of up to 200 liters (H<sub>2</sub>O). Powerful IKA® stirrer for laboratories, pilot plants, and small-scale production. Two speed ranges for highly-viscous media and intensive mixing. Stand not included in delivery.

## Technical data

Stirring quantity (H <sub>2</sub> O)	20 l
Max. viscosity	10.000 mPas
Motor rating input / output	70 / 35 W
Output at stirring shaft	26 W
Max. torque at chuck (per 100 rpm)	150 Ncm
Speed range I (per 50 Hz)	60 – 500 rpm
Speed range II (per 50 Hz)	240 – 2.000 rpm
Speed display	digital
Chuck range	0,5 – 10 mm
Diameter / length of extension arm	13 mm / 160 mm
<b>General data</b>	
Dimensions (W x D x H)	88 x 212 x 294 mm
Weight	3,1 kg
Ident. No.	3593000

**Price** € 959,-

80 l
50.000 mPas
220 / 90 W
90 W
900 Ncm
60 – 400 rpm
240 – 1.400 rpm
scale
1 – 10 mm
16 mm / 145 mm
123 x 252 x 364 mm
7,4 kg
2760000

**Price** € 1.630,-

200 l
100.000 mPas
513 / 370 W
300 W
3.000 Ncm
57 – 275 rpm
275 – 1.300 rpm
scale
3 – 16 mm
–
145 x 340 x 445 mm
15 kg
1602000

**Price** € 3.030,-

## Technical data

Shaking movement	orbital
Orbital diameter	4,5 mm
Max. shaking weight (with attachment)	0,1 kg
Motor rating input / output	1,2 / 0,8 W
Permissible ON time	100 %
Speed range	2.800 rpm (fixed)
Speed display	–
Timer Swich	–
<b>General data</b>	
Dimensions (W x D x H)	Ø 100 x 70 mm
Weight	0,55 kg
Permissible ambient temperature	5 – 40 °C
Interface	–
Ident. No.	3365000

**Price**

# Orbital shakers

Please find required accessories on [www.ika.com](http://www.ika.com)



## Variety of accessories

Different applications easily handled with three interchangeable attachments and seven inserts.

## Wide speed range

Enables intensive mixing, even for small vessels.



**VORTEX Genius 3**

Vortex shaker suitable for short-time operation (touch function), activated by pressing the shaker attachment. Can also be used for continuous operation.

**lab dancer**

orbital
4,5 mm
0,1 kg
1,2 / 0,8 W
100 %
2.800 rpm (fixed)
–
–
Ø 100 x 70 mm
0,55 kg
5 – 40 °C
–
3365000

**Price** € 195,-

**MS 3 basic**

orbital
4,5 mm
0,5 kg
10 / 8 W
100 %
0 – 3.000 rpm
scale
–
148 x 205 x 63 mm
2,9 kg
5 – 40 °C
–
3617000

**Price** € 392,-

**MS 3 digital**

orbital
4,5 mm
0,5 kg
10 / 8 W
100 %
0 – 3.000 rpm
scale
1 s – 999 min
148 x 205 x 63 mm
2,9 kg
5 – 40 °C
–
3319000

**Price** € 537,-

orbital
4 mm
0,4 kg
58 / 10 W
100 %
500 – 2.500 rpm
scale
–
127 x 149 x 136 mm
4,5 kg
5 – 40 °C
–
3340000

**Price** € 291,-

# Orbital shakers

Attachments are not included in delivery.  
Please find required accessories on [www.ika.com](http://www.ika.com)



**STICKMAX**  
New universal adhesive mat for the fixing clip attachments of the KS 130, KS/HS 260, KS/HS 501 and KS 4000 shakers.

- Ideal for frequently changing vessel types and sizes
- Self-adhesive
- Devices can be easily removed by side tilting movement
- Suitable for disinfection
- Peel-away strength required: 5 N/cm<sup>2</sup>
- Dimensions (L x W): 200 x 200 mm

Ident. No. 3920000  
Price: € 35,50



## Technical data

Shaking movement	orbital
Orbital diameter	4 mm
Max. shaking weight (with attachment)	2 kg
Motor rating input / output	35 / 13,2 W
Permissible ON time	100%
Speed range	0 – 2.200 rpm
Speed display	scale
Timer Swich	–
<b>General data</b>	
Dimensions (W x D x H)	157 x 247 x 130 mm
Weight	6,1 kg
Permissible ambient temperature	5 – 40 °C
Interface	–
Ident. No.	2819000

Price

### VXR basic Vibrax®

orbital
4 mm
2 kg
35 / 13,2 W
100%
0 – 2.200 rpm
scale
–
157 x 247 x 130 mm
6,1 kg
5 – 40 °C
–
2819000

€ 1.025,-

### MTS 2/4 digital

orbital
3 mm
2 or 4 microtiter plates
35 / 13,2 W
100%
0 – 1.100 rpm
scale
∞ / 1 – 99 min
185 x 320 x 105 mm
2,7 kg
5 – 40 °C
–
3208000

€ 1.095,-

### KS 130 basic

orbital
4 mm
2 kg
45 / 10 W
100%
80 – 800 rpm
LED line
∞ / 5 – 50 min
270 x 316 x 98 mm
8,8 kg
5 – 50 °C
–
2980000

€ 1.047,-

### KS 130 control

orbital
4 mm
2 kg
45 / 10 W
100%
80 – 800 rpm
digital
∞ / 0 – 9 h 59 min
270 x 316 x 98 mm
9,8 kg
5 – 50 °C
RS 232 / analog
2980100

€ 1.615,-

### KS 260 basic

orbital
10 mm
7,5 kg
45 / 10 W
100%
20 – 500 rpm
LED line
∞ / 5 – 50 min
360 x 420 x 98 mm
8,5 kg
5 – 50 °C
–
2980200

€ 1.713,-

### KS 260 control

Additionally with a digital display for monitoring the speed and the timer.

orbital
10 mm
7,5 kg
45 / 10 W
100%
10 – 500 rpm
digital
∞ / 9 h 59 min
360 x 420 x 98 mm
8,8 kg
5 – 50 °C
RS 232 / analog
2980300

€ 2.234,-

### KS 501 digital

Flat laboratory shaker with a large set-up plate.

orbital
30 mm
15 kg
70 / 19 W
100%
0 – 300 rpm
digital
∞ / 1 – 56 min
505 x 585 x 120 mm
26 kg
5 – 50 °C
–
2526400

€ 3.350,-

### KS 4000 i control

Incubator shaker with an innovative design for unsupervised operation, in a temperature-controlled environment. Comes with an external PT 1000 sensor which enables temperature control in the medium.

- Temperature range: RT + 5 °C to 80 °C
- Heat output: 1.000 W
- Temperature stability: 0,1 K

orbital
20 mm
20 kg
82 / 24 W
100%
10 – 500 rpm
digital
∞ / 1 s - 999 h
580 x 750 x 525 mm
50 kg
15 – 32 °C
RS 232
3510000

€ 4.530,-

### KS 4000 ic control with built-in cooling coil

This version of the incubator shaker with a built-in cooling spiral enables the connection to an external cooling unit for working below room temperature.

- Operating temperature range with a max. flow temperature: RT -10 °C to 80 °C
- Cooling connection for hose: ø10 mm

orbital
20 mm
20 kg
82 / 24 W
100%
10 – 500 rpm
digital
∞ / 1 s - 999 h
580 x 750 x 525 mm
55 kg
15 – 32 °C
RS 232
3510100

€ 5.453,-

5 Year warranty\*

#### Temperature sensor connection

Enables the connection of a temperature sensor for controlling the medium's temperature.

#### Tempering

Highly precise temperature control all throughout the incubation cover.

#### A variety of accessories

Can be used with a variety of vessel sizes and types.

#### Digital display

Numerous functions such as speed, temperature, and timer can therefore be monitored and controlled.

#### Interface

RS 232 interface to control the incubator shaker and for documentation of all parameters.



\* 2 + 3 years after registering at [www.ika.com/register](http://www.ika.com/register), glassware and wearing parts excluded

# Horizontal shakers

Attachments are not included in delivery.  
Please find required accessories on [www.ika.com](http://www.ika.com)

## A variety of accessories

Can be used with a variety of vessel sizes and types.

## Digital display

Numerous functions such as speed and timer can be monitored and controlled.



### HS 260 control

Compact, flat laboratory shaker with an ideal swivel motion, for a maximum shaking weight of up to 7.5 kg.

### Interface

RS 232 interface to control the shaker and for documenting all parameters.



# Dispersers

Please find required accessories on [www.ika.com](http://www.ika.com)

### Three phase motor

High-performance dispersing instrument designed for typical pilot plant station volumes from 2 to 50 l (H<sub>2</sub>O).



### Technical data

Shaking movement	reciprocating
Orbital diameter	20 mm
Max. shaking weight (with attachment)	7,5 kg
Motor rating input / output	45 / 10 W
Permissible ON time	100%
Speed range	20 – 300 rpm
Speed display	LED line
Timer	∞ / 5 – 50 min
<b>General data</b>	
Dimensions (W x D x H)	360 x 420 x 100 mm
Weight	8,5 kg
Permissible ambient temperature	5 – 50 °C
Interface	–
Ident. No.	3066600

### Price

### HS 260 basic

Shaking movement	reciprocating
Orbital diameter	20 mm
Max. shaking weight (with attachment)	7,5 kg
Motor rating input / output	45 / 10 W
Permissible ON time	100%
Speed range	10 – 300 rpm
Speed display	digital
Timer	∞ / 9 h 59 min
<b>General data</b>	
Dimensions (W x D x H)	360 x 420 x 100 mm
Weight	8,8 kg
Permissible ambient temperature	5 – 50 °C
Interface	RS 232 / analog
Ident. No.	3066700

### Price

### HS 501 digital

Shaking movement	reciprocating
Orbital diameter	30 mm
Max. shaking weight (with attachment)	15 kg
Motor rating input / output	70 / 19 W
Permissible ON time	100%
Speed range	0 – 300 rpm
Speed display	digital
Timer	∞ / 1 – 56 min
<b>General data</b>	
Dimensions (W x D x H)	505 x 585 x 120 mm
Weight	26 kg
Permissible ambient temperature	5 – 50 °C
Interface	–
Ident. No.	2527000

### Price

### Technical data

Motor rating input / output	125 / 75 W
Volume range (H <sub>2</sub> O)	0,5 – 100 ml
Speed adjustment	stepless
Speed range	8.000 – 30.000 rpm
Speed display	scale
Noise motor	65 dB (A)
Overload protection	yes
<b>General data</b>	
Dimensions (W x D x H)	46 x 57 x 201 mm
Weight	0,4 kg
Perm. ambient temperature	5 – 40 °C
Permissible relative humidity	80%
Protect. class DIN EN 60529	IP 30
Ident. No.	3420000

### Price

### T 10 basic ULTRA-TURRAX®

Motor rating input / output	500 / 300 W
Volume range (H <sub>2</sub> O)	1 – 1.500 ml
Speed adjustment	stepless
Speed range	3.500 – 24.000 rpm
Speed display	scale
Noise motor	73 dB (A)
Overload protection	yes
<b>General data</b>	
Dimensions (W x D x H)	65 x 80 x 240 mm
Weight	1,6 kg
Perm. ambient temperature	5 – 40 °C
Permissible relative humidity	80%
Protect. class DIN EN 60529	IP 20
Ident. No.	3561000

### Price

### T 18 basic ULTRA-TURRAX®

Motor rating input / output	500 / 300 W
Volume range (H <sub>2</sub> O)	1 – 2.000 ml
Speed adjustment	stepless
Speed range	3.400 – 24.000 rpm
Speed display	digital
Noise motor	73 dB (A)
Overload protection	yes
<b>General data</b>	
Dimensions (W x D x H)	65 x 80 x 240 mm
Weight	1,6 kg
Perm. ambient temperature	5 – 40 °C
Permissible relative humidity	80%
Protect. class DIN EN 60529	IP 20
Ident. No.	3565000

### Price

### T 25 digital ULTRA-TURRAX®

Motor rating input / output	1.100 / 700 W
Volume range (H <sub>2</sub> O)	0,25 – 30 l
Speed adjustment	stepless
Speed range	500 – 10.000 rpm
Speed display	scale
Noise motor	72 dB (A)
Overload protection	yes
<b>General data</b>	
Dimensions (W x D x H)	125 x 120 x 367 mm
Weight	6 kg
Perm. ambient temperature	5 – 40 °C
Permissible relative humidity	80%
Protect. class DIN EN 60529	IP 20
Ident. No.	3783500

### Price

### T 50 basic ULTRA-TURRAX®

Motor rating input / output	1.800 / 1.500 W
Volume range (H <sub>2</sub> O)	2 – 50 l
Speed adjustment	–
Speed range	fixed 7.200 rpm
Speed display	–
Noise motor	75 dB (A)
Overload protection	yes
<b>General data</b>	
Dimensions (W x D x H)	190 x 580 x 380 mm
Weight	28 kg
Perm. ambient temperature	5 – 40 °C
Permissible relative humidity	80%
Protect. class DIN EN 60529	IP 54
Ident. No.	1602800

### Price

### T 65 D ULTRA-TURRAX®

Motor rating input / output	1.800 / 1.500 W
Volume range (H <sub>2</sub> O)	2 – 50 l
Speed adjustment	–
Speed range	fixed 7.200 rpm
Speed display	–
Noise motor	75 dB (A)
Overload protection	yes
<b>General data</b>	
Dimensions (W x D x H)	190 x 580 x 380 mm
Weight	28 kg
Perm. ambient temperature	5 – 40 °C
Permissible relative humidity	80%
Protect. class DIN EN 60529	IP 54
Ident. No.	1602800

### Price

# Dispersers

Please find required accessories on [www.ika.com](http://www.ika.com)

**Patented tube system**  
Disposable tubes for stirring, dispersing, and grinding.

**Digital timer switch**  
Experiment time can be set from 1 second to 29 minutes.

**OLED display**  
Clear and multilingual display.

**ULTRA-TURRAX® Workstation**  
You are optimally equipped and ready to go with the UTDD case.



## UTDD ULTRA-TURRAX® Tube Drive

One-of-a-kind and universal disposable dispersing system with hermetically sealable disposable sample tubes. For safe processing of infectious, toxic sample materials and strong-smelling substances.

- Dispersing, stirring, and grinding with a single drive unit
- No possibility of cross-contamination
- High level of user safety
- Suitable for individual use and use in series
- Anti-locking function
- Chemical-resistant plastic
- Simple and safe disposal

## UTDD control ULTRA-TURRAX® Tube Drive control

**NEW**

The new control version offers the following additional advantages:

- USB interface for experiment control and documentation
- Collecting tray for protection against leaking liquids
- Simple and precise menu navigation thanks to the OLED display
- Programmable sample conditions (library)

**Turbo key**  
For short-term, intensive stirring, dispersing, and grinding.

**Reverse operation**  
Adjustable reverse rotating direction.

### Technical data

Motor rating input / output	20 / 17 W
Speed range / turbo speed	300 – 6.000 rpm
Display	LED (timer)
Speed display	scale (0 - 9)
Timer	1 – 59 s (300 – 6.000 rpm) 1 – 29 min (300 – 4.000 rpm)

Reversal of rotating direction interval	-
---	---

### General Data

Dimensions (W x D x H)	100 x 160 x 40 mm
Weight	0,75 kg
Protection class acc. to DIN EN 60529	IP 20
Ident. No. Single Unit	3646000

**Price Single Unit**

**€ 546,-**

Motor rating input / output	20 / 17 W
Speed range / turbo speed	400 - 6.000 rpm / 8.000 rpm
Display	OLED
Speed display	digital
Timer	10 s - 30 min (infinitely adjustable)

Reversal of rotating direction interval	10 - 60 s
---	-----------

Dimensions (W x D x H)	122 x 178 x 48 mm
Weight	1,0 kg
Protection class acc. to DIN EN 60529	IP 20
Ident. No. Single Unit	4135300

**€ 574,-**

### Included with delivery

ULTRA-TURRAX Tube Drive	1
ULTRA-TURRAX Tube Drive control	-
ST-20 Tube with stirring device	2
DT-20 Tube with rotor-stator element	2
BMT-20 G / S Tube for grinding with glass (G) or stainless steel balls (S)	2
Removal hook for removal of rotor-stator element	1
Power supply	1
Ident. No. Workstation	3645000

**Price**

	UTTD Workstation	UTTD control Workstation
ULTRA-TURRAX Tube Drive	1	-
ULTRA-TURRAX Tube Drive control	-	1
ST-20 Tube with stirring device	2	2
DT-20 Tube with rotor-stator element	2	1
BMT-20 G / S Tube for grinding with glass (G) or stainless steel balls (S)	2	1
Removal hook for removal of rotor-stator element	1	1
Power supply	1	1
Ident. No. Workstation	3645000	3827500
<b>Price</b>	<b>€ 591,-</b>	<b>€ 637,-</b>



	ST-20	DT-20	BMT-20 S	BMT-20 G
Description	Tube with stirring device	Tube with rotor stator element	Tube for grinding with stainless steel balls (S)	Tube for grinding with glass balls (G)
Ident. No.	3703000	3703100	3703200	3703300
<b>Price (25 pcs)</b>	<b>€ 123,-</b>	<b>€ 123,-</b>	<b>€ 123,-</b>	<b>€ 123,-</b>
Description	ST-50 Tube with stirring device	DT-50 Tube with rotor stator element	BMT-50 S Tube for grinding with stainless steel balls (S)	BMT-50 G Tube for grinding with glass balls (G)
Ident. No.	3699500	3699600	3699700	3699800
<b>Price (10 pcs)</b>	<b>€ 54,50</b>	<b>€ 54,50</b>	<b>€ 54,50</b>	<b>€ 54,50</b>

### Note:

All tubes are also available with a pierceable membrane and gamma-sterilized. For additional information see: [www.ika.com](http://www.ika.com).



# Hotplates

Please find required accessories on [www.ika.com](http://www.ika.com)

# Heating baths & Thermostats

Please find required accessories on [www.ika.com](http://www.ika.com)

**Ceramic heating plate**  
Excellent chemical resistance to acids, bases, and solvents.

**Digital display**  
Precise monitoring of the temperature by means of a digital display.

**Contact thermometer bushing**  
Bushing according to DIN 12878 for connecting a digital contact thermometer. ETS-D5 is recommended.

**Carrying handles**  
Laterally arranged carrying handles and drip edge allow safe handling of the heating bath and offer protection from burns.

**Digital display**  
Enables precise temperature control.



### C-MAG HP 7 IKATHERM®

New glass ceramic heating plate, which offers excellent chemical resistance.

- Fixed safety circuit of 550 °C
- Hot Top indicator warning to prevent burns



### C-MAG HP 10 IKATHERM®

#### Technical data

Heat output	250 W
Heating plate temperature range	50 - 500 °C
Safety circuit fixed	550 °C
Setting accuracy	± 10 K
Control accuracy with sensor	–
Temperature display	digital

### C-MAG HP 4 IKATHERM®

Heat output	250 W
Heating plate temperature range	50 - 500 °C
Safety circuit fixed	550 °C
Setting accuracy	± 10 K
Control accuracy with sensor	–
Temperature display	digital

Heat output	1.000 W
Heating plate temperature range	50 - 500 °C
Safety circuit fixed	550 °C
Setting accuracy	± 10 K
Control accuracy with sensor	ETS-D5 ± 0,5 K
Temperature display	digital

Heat output	1.500 W
Heating plate temperature range	50 - 500 °C
Safety circuit fixed	550 °C
Setting accuracy	± 10 K
Control accuracy with sensor	ETS-D5 ± 0,5 K
Temperature display	digital

#### Heating plate

Material	glass ceramic
Dimensions	100 x 100 mm

Material	glass ceramic
Dimensions	180 x 180 mm

Material	glass ceramic
Dimensions	260 x 260 mm

#### General data

Dimensions (W x D x H)	150 x 260 x 105 mm
Weight	3 kg
Permissible ambient temperature	5 – 40 °C
Ident. No.	3581600

Dimensions (W x D x H)	220 x 330 x 105 mm
Weight	5 kg
Permissible ambient temperature	5 – 40 °C
Ident. No.	3581800

Dimensions (W x D x H)	300 x 415 x 105 mm
Weight	6 kg
Permissible ambient temperature	5 – 40 °C
Ident. No.	3582000

#### Price

€ 381,-

€ 433,-

€ 513,-

#### Technical data

Heat output	1.500 W
Temperature range	25 – 100 °C
Setting tolerance	–
Deviation (3 l H <sub>2</sub> O, 90 °C)	–
Safety class	yes (acc. to DIN 12876)
Temperature display	scale

### EH 4 basic Immersion thermostat

Heat output	1.500 W
Temperature range	25 – 100 °C
Setting tolerance	–
Deviation (3 l H <sub>2</sub> O, 90 °C)	–
Safety class	yes (acc. to DIN 12876)
Temperature display	scale

#### Stirring function

Stirring function	–
Speed range	–

#### General data

Useful volume	–
Weight	2,3 kg
Permissible ambient temperature	5 – 40 °C
Ident. No.	3164000

#### Price

€ 888,-

### HBR 4 digital Heating bath

Heat output	1.000 W
Temperature range	RT – 200 °C
Setting tolerance	± 1 K
Deviation (3 l H <sub>2</sub> O, 90 °C)	± 1 K
Safety class	2 (acc. to DIN 12877)
Temperature display	digital

Stirring function	yes
Speed range	100 – 800 rpm

Useful volume	4 l
Weight	4,4 kg
Permissible ambient temperature	5 – 40 °C
Ident. No.	2602300

€ 2.470,-



### HB 10 digital Heating bath

Digital heating bath with easy operation and numerous safety functions. Three adjustable operating modes enable optimal user-specific setting of the bath.

Heat output	1.350 W
Temperature range	RT – 180 °C
Setting tolerance	± 1 K
Deviation (3 l H <sub>2</sub> O, 90 °C)	± 1 K
Safety class	2 (acc. to DIN 12877)
Temperature display	digital

Stirring function	–
Speed range	–

Useful volume	3 l
Weight	3,0 kg
Permissible ambient temperature	5 – 40 °C
Ident. No.	3642000

€ 1.262,-

# Rotary evaporators

Please find required accessories on [www.ika.com](http://www.ika.com)

**Condenser**  
Optimized cooling coil configuration for high recovery rates.

**Motorized lift**  
Lifting and lowering of the glassware at the touch of a button.

**Free choice of angle**  
The drive's angle can be adjusted so that the evaporating flask can be optimally placed into the heating bath.

**Solvent-resistant and abrasion-proof seal**  
Reduces spare part costs.

**Drive rotates clockwise and counter-clockwise**  
Enables better mixing and more efficient drying of samples.

**Lift raised automatically in the event of a power outage**  
Prevents sample "bumping".

**Endpoint positioning**  
Prevents glass from breaking when evaporation flask is lowered into the heating bath.

**Digital display**  
Precise monitoring of all parameters with digital displays.

**NEW** Included in delivery  
RV 10.4002 Magnetic valve, used to connect your vacuum system to the RV 10 control.  
**Save now 335,- EUR!**



RV 10 control



## RV 10 digital

The RV10 digital is a combination of performance, reliability and versatility. Digital temperature is precisely controlled. The perfectly coordinated data transfer between heating bath and drive unit, as well as the option of remote operation from a PC, ensure results that can be reproduced any time.

## RV 10 control

The RV 10 control is a rotary evaporator system that can be operated fully automatically. The integrated software allows for numerous adjustments to be saved as well as user-specific configurations to be stored.

Packages with glassware

Cooler type

Cooling surface

**Drive**

Motor type

Speed range

Clockwise and counter-clockwise interval operation

Smooth start

Head angle adjustable

Stroke displacement

Setting of lower end stop

Vacuum controller

**Heating bath**

Temperature range

Heating power

Controller

Setting accuracy

Control deviation

**Required accessories for an existing vacuum**

In-house vacuum (industrial vacuum source for many users)

Laboratory vacuum pump (multiple connections)

Diaphragm vacuum pump (one single connection)

**General data**

Dimensions without glassware (W x D x H)

RV 10 diagonal (W x D x H)

RV 10 vertical (W x D x H)

Weight of evaporator incl.

heating bath without glass parts

**Ident. No.**

RV 10 Package with vertical glassware

RV 10 Package with vertical glassware, coated

RV 10 FLEX Package without glassware

**Price**

RV 10 Package with vertical glassware

RV 10 Package with vertical glassware, coated

RV 10 FLEX Package without glassware

RV 10 digital V

RV 10 digital V-C

V = vertical

V-C = vertical coated

D = diagonal

D-C = diagonal, coated

1.200 cm<sup>2</sup>

brushless DC drive motor

20 to 280 rpm

yes

yes

0 to 45°

140 mm, motorized

60 mm, contact-free

no (accessory)

HB 10 digital

RT to 180 °C

1.300 W

micro controller

1 K

± 1 K

-

-

-

530 x 410 x 570 mm

890 x 410 x 670 mm

680 x 410 x 990 mm

21,5 kg

8022500

8023100

8031500

€ 2.643,-

€ 2.863,-

€ 1.981,-

RV 10 control V

RV 10 control V-C

V = vertical

V-C = vertical coated

D = diagonal

D-C = diagonal, coated

1.200 cm<sup>2</sup>

brushless DC drive motor

20 to 280 rpm

yes

yes

0 to 45°

140 mm, motorized

60 mm, contact-free

integrated

HB 10 control

RT to 180 °C

1.300 W

micro controller

1 K

± 1 K

RV 10.4001 Magnetic valve (3902600)

RV 10.4002 Magnetic valve (3880300)

RV 10.4002 Magnetic valve (3880300)

530 x 410 x 570 mm

890 x 410 x 670 mm

680 x 410 x 990 mm

21,5 kg

8022700

8023300

8031600

€ 3.525,-

€ 3.745,-

€ 2.863,-

5 Year warranty\*



2009

\* 2 + 3 years after registering at [www.ika.com/register](http://www.ika.com/register), glassware and wearing parts excluded

# Mills

Please find required accessories on [www.ika.com](http://www.ika.com)



## Analytical mill

Batch mill for impact and cutting grinding by means of interchangeable cutting and grinding tools. Various grinding chamber sizes enable the crushing of small volumes all the way up to 250 ml.



### A 11 basic

#### Technical data

Motor rating input / output	160 / 100 W
Speed range fixes	fixed 28.000 rpm
Useful volume	80 ml
Power-on time (ON / OFF)	1 min / 10 min
Overload protection	yes
Circumferential speed	53 m/s
Max. granularity of task	10 mm
Material grinding chamber	stainless steel (AISI 316L)
<b>General data</b>	
Dimensions (W x D x H)	85 x 85 x 240 mm
Weight	1,5 kg
Permissible ambient temperature	5 – 40 °C
Ident. No.	2900000

#### Price

€ 1.484,-

## Analytical mill

For low-loss, dry grinding of hard and brittle substances of up to 50 ml.



### A 10 basic

180 / 80 W	
20.000 rpm (fixed)	
50 ml	
5 min / 10 min	
yes	
57 m/s	
6 mm	
stainless steel (AISI 1.4301)	
<b>General data</b>	
120 x 225 x 105 mm	
2,2 kg	
5 – 40 °C	
1603500	

€ 1.593,-



### M 20

Batch mill suitable for low-loss, dry grinding of hard and brittle substances of up to 250 ml.

260 / 620	
20.000 rpm (fixed)	
250 ml	
7 min / 10 min	
yes	
72 m/s	
7 mm	
stainless steel (AISI 316L)	
<b>General data</b>	
170 x 170 x 350 mm	
6,6 kg	
5 – 40 °C	
1603600	

€ 4.213,-



## Microfine grinder drive

Continuously working micro-fine grinder with a powerful drive and two changeable heads (not included).

### MF 10 basic Microfine grinder drive + MF 10.1 Cutting-grinding head

Cutting-grinding head for crushing brittle, hard materials.

1.000 / 500 W	
3.000 – 6.500 rpm	
max. 5 kg / h	
120 min / 30 min	
yes	
22,5 m/s	
15 mm	
stainless steel (AISI 304)	
<b>General data</b>	
320 x 300 x 560 mm	
9,7 kg + 2,2 kg	
5 – 40 °C	
2836000 + 2870900	

MF 10 basic € 3.136,-  
MF 10.1 € 2.344,-

### MF 10 basic Microfine grinder drive + MF 10.2 Impact grinding head

Impact grinding head for crushing fibrous substances.

1.000 / 500 W	
3.000 – 6.500 rpm	
max. 5 kg / h	
120 min / 30 min	
yes	
31,4 m/s	
10 mm	
stainless steel (AISI 304)	
<b>General data</b>	
320 x 300 x 450 mm	
9,7 kg + 2,7 kg	
5 – 40 °C	
2836000 + 2871000	

MF 10 basic € 3.136,-  
MF 10.2 € 2.153,-

We look forward to helping you find the perfect device for your application. Our Application Technology Lab consists of application specialists with longtime experience in sample processing.

Give us a call. Our **toll-free hotline number:**  
**00 8000 4522777 (00 8000 IKAAPPS)\***

or send us an e-mail to:  
**applicationsupport@ika.de**

We will process your inquiry within 48 hours of receiving it.

You may also send us your sample. We will test it for you with a device suitable for your application - free of charge and within 48 hours!

More information can be found at:  
**www.ika.com**

There you will also find additional detailed information regarding prices and accessories as well as an application database.

\* Monday - Thursday from 8:30 am - 4:30 pm and Friday from 8:30 am - 3:30 pm



201101\_Product\_Overview\_EN\_EUR

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All prices are subject to value added tax. Prices valid until  
31<sup>st</sup> of December 2011. Subject to technical changes.