

Мельницы, миксеры лабораторные CARL ROTH

Технические характеристики

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Mills, mixers



Analysis mill A 10 basic

IKA.

For shredding hard, brittle, but also soft and fibrous materials. Integrated cooling water connections (for hoses with an inner Ø 8 mm). Replaceable stainless steel beater. Operation only possible with closed lid.

- Digital timer (can be set to between 1 s and 5 mins) that shows the comminuting time
- Interval function (if the timer function has been activated, the equipment runs for 15 s and then stops for 1 s, repeating this pattern until the set time has elapsed)
- Max. processing grain size:
6 mm for impact grinding
10 mm for cutting grinding
- Max. switch-on duration.: 5 min ON / 10 min OFF

Technical specifications:

Art. No.	EEA9.1
Type	A 10 basic
Usable volume	50 ml
Motor power input	300 W
Motor power output	240 W
Max. duty time	Short-term operation (KB 5/10): 5 min ON / 10 min OFF
Maximum speed	25,000 rpm
Max. circumferential speed	70 m/s
Grinding chamber can be cooled by	Water: yes Dry ice: yes Liquid nitrogen: no
W x D x H, total	130 x 145 x 250 mm
Weight	2.9 kg
Mains connection	220–240 V, 50/60 Hz

Delivery incl. stainless steel beater type A 10.1 (stainless steel 1.4034) suitable for most brittle materials up to a Mohs hardness of 5 and A 10.4 grinding chamber reducer (stainless steel 1.4301) for small sample material volumes.

Type	Art. No.	Pack Qty.	
A 10 basic	EEA9.1	1 unit(s)	



Accessories for A 10 basic analysis mill

IKA.

(2) Carbide beater type A 10.3

Made of tungsten carbide for relatively hard materials up to Mohs hardness 9.

Designation	Art. No.	Pack Qty.	
Carbide beater type A 10.3	EEC0.1	1 unit(s)	

(3) Star-shaped cutter type A 10.2

For fibrous materials such as paper and plant material, as well as plastics, including. material with low specific weight.

Designation	Art. No.	Pack Qty.	
Star-shaped cutter type A 10.2	EEC1.1	1 unit(s)	

Mills, mixers



Analysis mill A11 basic

IKA.

Batch mill with two grinding processes:

- **Impact milling of hard, brittle grinding material with a stainless steel beater up to max. Mohs' hardness scale 6** (beater is included in delivery)
- **Blade milling of soft, fibrous grinding material with a cutting knife** (not included in delivery)

Moist and sticky process materials can be ground by adding water. The standard grinding beaker (Art. No. T537.1) is suitable for embrittling grinding material with liquid nitrogen directly in the grinding chamber.

Technical specifications:

Art. No.	T534.1
Type	A11 basic
Usable volume	80 ml
Motor power input	300 W
Motor power output	160 W
On-load speed	19,500 rpm
Max. duty time	Short time operation (KB 1/10): 1 min ON / 10 min OFF
Idle speed	28000 rpm
Max. circumferential speed	53 m/s
W x D x H, total	85 x 85 x 240 mm
IP rating	43
Weight	1.5 kg
Mains connection	230 V, 50/60 Hz

Delivery incl. standard grinding beaker made of ETFE, fibre-glass reinforced with stainless steel inlet (AISI 316L), effective volume 80 ml and stainless steel beater.

Type	Art. No.	Pack Qty.	
A11 basic	T534.1	1 unit(s)	

Accessories for A11 basic analysis mill

IKA.

Cutting blade

Made of stainless steel AISI 440B.

Designation	Art. No.	Pack Qty.	
Cutting blade	T539.1	1 unit(s)	

Beater for grinding material up to 9 Mohs

Made of stainless steel AISI 440B.

Designation	Art. No.	Pack Qty.	
Beater for grinding material up to 9 Mohs	T536.1	1 unit(s)	

Funnel

Prevents splashing when filling liquid nitrogen into standard 80 ml grinding beaker.

Designation	Art. No.	Pack Qty.	
Funnel	Y974.1	1 unit(s)	

250 ml grinding beaker

Made of PC with stainless steel inlet. Effective volume 250 ml. Not suitable for N₂ cooling, only to be used with double beater (Art. No. Y975.1).

Designation	Art. No.	Pack Qty.	
250 ml grinding beaker	T535.1	1 unit(s)	

Double beater

Made of titanium. Max. Mohs hardness 3, only to be used for 250 ml grinding beaker (Art. No. T535.1).

Designation	Art. No.	Pack Qty.	
Double beater	Y975.1	1 unit(s)	



Batch mill/mixer MultiDrive basic

IKA.

For hard, soft or fibrous samples. A variety of vessels are available for a wide range of grinding tasks. Suitable for pre-grinding through to fine grinding. With intermittent operation for pre-grinding hard samples or for thorough mixing.

Technical specifications:

Art. No.	KHT0.1
Type	MultiDrive basic
Motor power input	1,000 W
Motor power output	800 W
Max. duty time	Short time operation (KB 5/10): 5 min ON / 10 min OFF
Minimum speed	3,000 rpm
Maximum speed	20,000 rpm
Speed accuracy	± 5 %
W x D x H, total	300 x 250 x 450 mm
Weight	10 kg
Mains connection	220–240 V, 50/60 Hz

Delivery without grinding and mixing vessels, please order separately.

Type	Art. No.	Pack Qty.	
MultiDrive basic	KHT0.1	1 unit(s)	



Mills, mixers



Accessories for MultiDrive basic batch mill/mixer

IKA.

(1) MultiDrive BL 2000

Effective volume 2000 ml. Vessel with mixing tool for wet grinding of samples such as meat, sausage, soya beans, silage, vegetables, etc. All parts can be cleaned in a dishwasher. Mixing tool can be disassembled. Max. mixture hardness 5 Mohs. Max. mixture particle size 20 mm. Beater/blade material: Stainless steel 1.4304.

Dimensions: W 180 x D 200 x H 280 mm.

Delivery incl. stainless steel standard mixing tool.

Designation	Art. No.	Pack Qty.	
MultiDrive BL 2000	KHT1.1	1 unit(s)	

(2) MultiDrive MI 250

Effective volume 250 ml. Vessel with beater for dry grinding of samples such as wood, animal feed, frozen products, plastic, etc. Grinding chamber must be cleaned by hand. Detachable beater. Max. mixture hardness 5 Mohs. Max. mixture particle size 7 mm. Beater, blade and grinding chamber made of stainless steel. Grinding chamber can be cooled with water, suitable for hoses with Ø 6.25 x 1.5 mm.

Dimensions: W 180 x D 200 x H 280 mm.

Delivery incl. stainless steel standard beater.

Designation	Art. No.	Pack Qty.	
MultiDrive MI 250	KHT2.1	1 unit(s)	

(3) MultiDrive MI 400

Effective volume 400 ml. Vessel with beater for dry grinding of samples such as wood, animal feed, frozen products, plastic, etc. Grinding chamber must be cleaned by hand. Detachable beater. Max. mixture hardness 5 Mohs. Max. mixture particle size 7 mm. Beater, blade and grinding chamber made of stainless steel. Grinding chamber can be cooled with water, suitable for hoses with Ø 6.25 x 1.5 mm.

Dimensions: W 180 x D 200 x H 280 mm.

Delivery incl. stainless steel standard beater.

Designation	Art. No.	Pack Qty.	
MultiDrive MI 400	KHT3.1	1 unit(s)	

(4) Star-shaped blade

For fibrous materials such as paper and plant material.

Designation	Art. No.	Pack Qty.	
MI 250.2 star-shaped blade for MultiDrive MI 250	KHT4.1	1 unit(s)	
MI 400.2 star-shaped blade for MultiDrive MI 400	KHT5.1	1 unit(s)	

(5) Carbide beater

Made of carbide for harder materials up to Mohs hardness 9.

Designation	Art. No.	Pack Qty.	
MI 250.3 carbide beater for MultiDrive MI 250	KHT6.1	1 unit(s)	
MI 400.3 carbide beater for MultiDrive MI 400	KHT7.1	1 unit(s)	



Universal blenders

Severin.

Features:

- Power approx. 260 Watt
- Polystyrene container 650 ml
- Maximum speed approx. 3900 rpm
- Pulse switch
- Stainless steel blade
- Rubber anti-slip protection

Type	Art. No.	Pack Qty.	
Universal blenders	Y384.1	1 unit(s)	



Stand mixer

Severin.

For simple mixing and emulsifying tasks.

Features:

- Removable mixing attachment 1,5 l made of glass with removable drip tray
- Capacity approx. 550 W
- Two speed settings with additional pulse mode option
- Lid with opening for refilling
- Removable stainless steel blade
- Dimensions: W 210 mm x D 180 mm x H 402 mm
- Cord wind

Type	Art. No.	Pack Qty.	
Stand mixer	X477.1	1 unit(s)	

Mills, mixers



Universal mixers RBB pro

For blending, mixing and emulsifying.

Features:

- 3 settable speeds (4000/8000/14000 rpm)
- **Power consumption 550 W**
- Stainless steel motor housing, chrome plated
- Safety control: motor only runs lid is attached
- With soft start feature (prevents liquids from splashing up after switching on)
- With overload/overheating protection
- With pulse function, for stirring briefly
- Blending beaker is impact resistant and dishwasher safe, capacity 2 l
- Dimensions total: H 493 mm, Ø 190 mm
- Dimensions of mixer attachments: H 265 x W 182 mm
- Mains connection: 230 V, 50 Hz

Type	Art. No.	Pack Qty.	
Universal mixer with polycarbonate cup	PT04.1	1 unit(s)	
Universal mixer with stainless steel bowl	PT05.1	1 unit(s)	



Laboratory universal mixer with sound-proofing hood RMBL

For blending, mixing and emulsifying.

Features:

- 6 speed settings
- Version with protective hood for noise reduction and increased safety in the laboratory
- 12 storable cycles for automatic processing (max. cycle duration 30 min, time is determined by current mixing operation)
- Pulse function
- Stainless steel motor base
- Thermal circuit breaker

Technical specifications:

Art. No.	CYX5.1
Type	RMBL
Speed settings	1300/3500/6000/8700/12000/16000 rpm
Motor power input	900 W
W x D x H, total	225 x 265 x 495 mm
Weight	10 kg
Mains connection	230 V, 50 Hz

Delivery incl. sound-proofing hood.

Without mixing attachment, please order required mixing attachment separately.

Type	Art. No.	Pack Qty.	
RMBL	CYX5.1	1 unit(s)	



Mixer attachments for universal mixers RMBL

With stainless steel cutting attachment, laboratory type

For ultra fine processing and low quantities.

Type	Art. No.	Pack Qty.	
Glass attachment 125 ml	CYX6.1	1 unit(s)	
Glass attachment 250 ml	CYX7.1	1 unit(s)	
Glass attachment 500 ml	CYX8.1	1 unit(s)	
Glass attachment 1,000 ml	CYX9.1	1 unit(s)	

With stainless steel cutting attachment, High-Power type

4 blades shaped for optimal stirring, intensive and quick processing, as well as crushing ice cubes.

Type	Art. No.	Pack Qty.	
Polycarbonate cover 2,000 ml	CYY0.1	1 unit(s)	
Stainless steel attachment 2,000 ml	CYY1.1	1 unit(s)	



Universal mixers GK 900 W

For thorough blending, mixing and emulsifying.

Features:

- Infinitely adjustable from 1000 to 17 000 rpm
- **Power consumption 900 W**
- Die cast zinc motor housing, chrome-plated
- With soft start feature (prevents liquids from splashing up after switching on)
- Safety control: motor only runs lid is attached
- With overload and overheating protection
- Motor block dimensions: height 226 mm, Ø 190 mm
- Power supply: 230 V, 50/60 Hz

Selection of four different mixing beakers:

- 4 l polycarbonate attachment. Dimensions: W 300 x H 280 mm
- 2 l polycarbonate attachment. Dimensions: W 240 x H 280 mm
- 4 l stainless steel attachment. Dimensions: W 290 x H 300 mm
- 2 l stainless steel attachment. Dimensions: W 230 x H 280 mm

Type	Art. No.	Pack Qty.	
Universal mixer with polycarbonate beaker 2 l	CYX3.1	1 unit(s)	
Universal mixer with polycarbonate beaker 4 l	X534.1	1 unit(s)	
Universal mixer with stainless steel beaker 2 l	X535.1	1 unit(s)	
Universal mixer with stainless steel beaker 4 l	CYX4.1	1 unit(s)	

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