IKA

designed for scientists

EN

MIXING AND GRINDING | IKA MultiDrive basic and control

MultiDrive basic

Ident. No. 0025002638

High performance

Excellent crushing performance is guaranteed by a combination of variable rotational speeds, ranging from 3000 rpm to 20 000 rpm, and a 1000 Watt output.

Interval operation

The option of interval programming is simple to activate at the press of a button. Interval operation is an asset during the coarse crushing of hard samples or for extra thorough blending.

Integrated cooling

A cooling system is integrated in the milling cup, which allows indirect heat dissipation. Thus, coolant and sample remain separate.

Industries

Coarse and fine crushing plays a role in a diverse range of industries. The all-rounder MultiDrive therefore is ideally oriented for various crushing tasks in the following fields of application:

FOOD, e.g. meat, wheat, seeds, chocolate
BIOMASS, e.g. wood pellets, silage, algae
PHARMACY / MEDICINE, e.g. tablets, bones, skin
BIOLOGY, e.g. genetically modified organisms, leaves, tissue

Vessels are not included in the scope of delivery

MultiDrive control

Ident. No. 0025002643

TFT-display

A clear TFT-display guarantees user-friendly operation.

Temperature measurement

MultiDrive control offers temperature measurement and vessel recognition using RFID. A temperature limit can be set for temperature-sensitive materials, or for specific planned reactions to protect against overheating.

Weighing function

The weighing function is also integrated into the user-friendly workflow of the IKA MultiDrive control. Weighing is performed before crushing using the same mixing cup, so that no transfer of contents is required.

Technical data MultiDrive basic and control

TECHNICAL DATA	MultiDrive basic	MultiDrive control
Operating principle	Cutting / impact	Cutting / impact
Feed hardness max.	5 Mohs (9 Mohs with hard metal knife)	5 Mohs (9 Mohs with hard metal knife)
Feed grain size max.	BL: 50 mm MI: 7 mm	BL: 50 mm MI: 7 mm MT/BT: 10 mm
Useable volume max.	BL: 2000 ml MI: 250 ml / 400 ml	BL/DI: 2000 ml MI: 250 ml/ 400 ml MT: 150 ml BT: 250 ml
Material of grinding vessels	BL: PCTG MI: Stainless steel	BL / DI / MT / BT: PCTG MI: Stainless steel
Material beater / cutter	BL / MI: Stainless steel MI: Hard metal	BL / DI / MT / BT: Stainless steel MI: Hard metal
Speed	Min. 3000 rpm Max. 20 000 rpm	Min. 3000 rpm Max. 20 000 rpm
Setting of operation time	0 – 5 min	0 – 5 min
Timer / Counter	Yes	Yes
Intermittent operation	Yes	Yes
Programmable	No	Yes
Cooling water connection by milling chamber	Yes	Yes
Milling with dry ice by milling chamber	Yes	Yes
Temperature measurement	No	Yes*
Vessel recognition	No	Yes*
Weighing function	No	Yes

BL: Blender vessel
MI: Milling chamber
DI: Dispering vessel
MT: Milling Tube
BT: Blender Tube

GENERAL DATA		
Voltage	220 – 240 V	220 – 240 V
Frequenz	50 / 60	50 / 60
Motor	brushless	brushless
Motor rating input	1000 W	1000 W
Motor rating output	800 W	800 W
Display	LCD	TFT
USB interface	Yes	Yes
Bluetooth	No	Yes
Weight	10 kg	10 kg
Dimensions (W × H × D)	300 × 450 × 250 mm	300 × 450 × 250 mm
Permissible ambient temperature	5 – 40 °C	5 – 40 °C
Protection class according to DIN EN 60529	IP 31	IP 31

*Only for vessels with "T"

Scope of delivery may differ from illustrations

MultiDrive basic and control

/// The all-rounder in coarse and fine crushing

Regardless of whether samples are hard, soft or fibrous – the IKA MultiDrive crusher can perform a wide range of crushing tasks involving coarse and fine crushing, thanks to the variety of vessels available. With the MultiDrive basic it is possible to mix or grind; MultiDrive control is also fitted with a dispersion vessel and a disposable tube. There is a USB interface available for easy actuation and documentation respectively.

For each grinding task the right vessel

MULTIDRIVE BASIC

MultiDrive BL 2000
Ident. No. 0025003961

MultiDrive MI 250
Ident. No. 0025003967

MultiDrive MI 400
Ident. No. 0025003965

MultiDrive BL 2000
Vessel with cutter

MULTIDRIVE CONTROL

MultiDrive BL 2000 T*
Ident. No. 0025003962

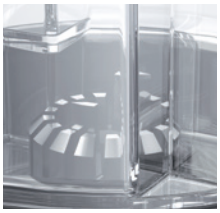
MultiDrive MI 250 T*
Ident. No. 0025003968

MultiDrive MI 400 T*
Ident. No. 0025003966

MultiDrive DI 2000 T*
Ident. No. 0025003960

MultiDrive MT 150
Ident. No. 0025007130

MultiDrive BT 250
Ident. No. 0025007131



MultiDrive DI 2000 T
Vessel with dispersing element

*Vessels include temperature sensor. Measurements can only be evaluated and displayed with MultiDrive control

Additional products

If required, the following IKA devices are available for your lab to enhance crushing with your IKA MultiDrive:

Tube Mill control
Batch-Mill
Ident. No. 0004180000

RC 2 GREEN basic
Recirculating chiller
Ident. No. 0025004186

Accessories MultiDrive basic and control

MI 250.1

Beater, stainless steel
For hard, brittle materials up to Mohs hardness 5
Ident. No. 0025003993

MI 250.2

Star-shaped cutter, stainless steel
For fibrous materials such as paper and plant
Ident. No. 0025003951

MI 250.3

Beater, hard metal
For harder materials up to Mohs hardness 9
Ident. No. 0025003953

Find more accessories on www.ika.com

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IKA-Werke GmbH & Co. KG
Janke & Kunkel-Straße 10, 79219 Staufen, Germany
Tel: +49 7633 831-0, eMail: sales@ika.de

www.ika.com

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