

IKA laboratory mills are ideal for grinding, pulverizing or chopping samples for routine analyses, either in batch or continuous operation. Grinding results are achieved up to 1 µm particle size or 0.25 mm defined ultimate fineness. Due to a broad spectrum of easily interchangeable beaters and cutters, IKA mills are highly effective for a variety of applications and can also be scaled up for larger volumes.

MULTIDRIVE BASIC AND CONTROL

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

Regardless of whether samples are hard, soft, fibrous, wet or dry – the MultiDrive blender 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 an autoclavable tube. There is a USB interface available for easy actuation and documentation respectively.

MultiDrive control*

Ident. No. 0025007988



* Vessels don't belong to the scope of delivery.

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 W 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.

ADDITIONAL CONTROL FEATURES:

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.

MultiDrive basic*

Ident. No. 0025007800

* Vessels don't belong to the scope of delivery.



MultiDrive basic M 20 Successor Package

Ident. No. 0010005902

› MultiDrive basic base unit
+ MI 250, 250 ml milling
chamber



TECHNICAL DATA	MULTIDRIVE CONTROL	MULTIDRIVE BASIC
Operating principle	Cutting / Impact / Blending / Dispersing	Cutting / Impact / Blending
Speed range	3000 – 20 000 rpm	3000 – 20 000 rpm
Useable volume max.	2000 ml	2000 ml
Feed hardness max.	9 Mohs*	9 Mohs*
Temperature measurement	Yes	–
Weighing function	Yes	–
Milling chamber can be cooled with water / dry ice	Yes / Yes	Yes / Yes
Dimensions (W x H x D)	300 x 450 x 250 mm	300 x 450 x 250 mm
Protection class according to DIN EN 60529	IP 31	IP 31

* with MI 250.3 or MI 400.3 beater, tungsten carbide

A 10 basic

Ident. No. 0025001027

**A 11 basic**

Ident. No. 0002900000

**M 20**

Ident. No. 0001603600

For dry grinding of
hard and brittle sub-
stances

**MF 10 basic**

Ident. No. 0002836000

Two different grinding
heads can be attached to
the drive, **see Page 75**

**TECHNICAL DATA**

	A 10 BASIC	A 11 BASIC	M 20	MF 10 BASIC
Process type	Batch	Batch	Batch	Inline
Operating principle	Cutting / Impact	Cutting / Impact	Cutting / Impact	Cutting / Impact
Speed max.	25 000 rpm	28 000 rpm	20 000 rpm	3000 – 6500 rpm
Useable volume max.	50 ml	80 ml	250 ml	–
Feed hardness	5 Mohs	6 Mohs	5 Mohs	6 Mohs (MF 10.2)
Milling chamber, can be cooled with water / dry ice / liquid nitrogen	Yes / Yes / No	No / Yes / Yes	Yes / Yes / No	No / Yes / No
Dimensions (W × H × D)	130 × 250 × 145 mm	85 × 240 × 85 mm	170 × 350 × 170 mm	320 × 380 × 300 mm
Protection class according to DIN EN 60529	IP 41	IP 43	IP 21	IP 22

Tube Mill 100 control

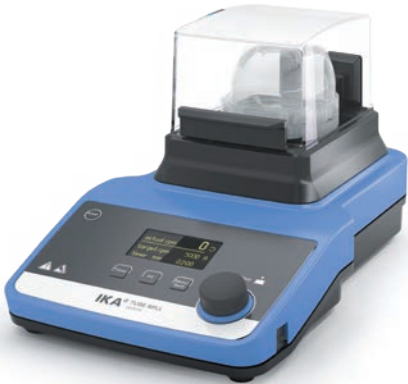
Ident. No. 0020014733

Designed for grinding chambers with max. 100 ml



Tube Mill control

Ident. No. 0004180000



TECHNICAL DATA	TUBE MILL CONTROL	TUBE MILL 100 CONTROL
Process type	Batch	Batch
Operating principle	Cutting / Impact	Cutting / Impact
Speed max.	25 000 rpm	25 000 rpm
Circumferential speed max.	65 m/s	65 m/s
Useable volume max.	40 ml	100 ml
Feed hardness max.	5 Mohs	5 Mohs
Milling chamber, can be cooled with water / dry ice / liquid nitrogen	No / Yes / No	No / Yes / No
Dimensions (W x H x D)	180 x 170 x 300 mm	180 x 212 x 300 mm
Protection class according to DIN EN 60529	IP 30	IP 30



BL 2000



MI 250



TC 1

Product	Description	Ident. No.
ACCESSORIES BASIC AND CONTROL		
BL 2000	Blender vessel, 2000 ml	0025003961
BL 2000 T	Blender vessel, 2000 ml, Temperature measurement	0025003962
MI 250	Milling chamber, 250 ml	0025003967
MI 400	Milling chamber, 400 ml	0025003965
MI 250 T	Milling chamber, 250 ml, Temperature measurement	0025003968
MI 400 T	Milling chamber, 400 ml, Temperature measurement	0025003966
DI 2000 T	Dispersing vessel, 2000 ml, Temperature measurement	0025003960
BL 2000.1	Standard blend knife, stainless steel	0020023169
MI 250.1	Standard beater, stainless steel	0020023166
MI 250.2	Star-shaped cutter, stainless steel	0020023167
MI 250.3	Beater, tungsten carbide	0020023168
MI 400.1	Standard beater, stainless steel	0020023170
MI 400.2	Star-shaped cutter, stainless steel	0020023171
MI 400.3	Beater, tungsten carbide	0020023172
TC 1	Protective housing for MT 150 and BT 250	0020023489
MT 150.5*	Milling tube, autoclavable, 150 ml, 5 pcs. (incl. TS 1)	0020023173
BT 250.5*	Blending tube, autoclavable, 250 ml, 5 pcs. (incl. TS 1)	0020023174
TS 1	Spare seal with reactivation code, 5 pcs.	0020023490

* TC 1 protective housing is mandatory to operate the tube

ACCESSORIES TUBE MILL CONTROL

MT 40.10	Disposable grinding chamber, 40 ml, 10 pcs.	0004425000
MT 40.100	Disposable grinding chamber, 40 ml, 100 pcs.	0020001173
MTC 40/100.100	Cover for disposable grinding chamber, 100 pcs.	0020001182
MT 40.10 steril	Disposable grinding chamber, sterile, 40 ml, 10 pcs.	0020001984
MT 40 P.10	Disposable grinding chamber, bended beater, 40 ml, 10 pcs.	0020017838
MT 40 P.100	Disposable grinding chamber, bended beater, 40 ml, 100 pcs.	0020011531
MT 100.10	Disposable grinding chamber, 100 ml, 10 pcs.	0020008386
MT 100.10 steril	Disposable grinding chamber, sterile, 100 ml, 10 pcs.	0020012571
MT 100.50	Disposable grinding chamber, 100 ml, 50 pcs.	0020006984
MMT 40.1	Multi-use milling tube, 40 ml	0020003165
MMT 100.1	Multi-use milling tube, 100 ml	0020016315
MTT 40.10	Disposable grinding chamber, titanium beater, 40 ml, 10 pcs.	0020015380
MTT 100.10	Disposable grinding chamber, titanium beater, 100 ml, 10 pcs.	0020019576
A-MMT.100	Abrasion set for MMT 40.1 MMT 100.1, 100 sealing, 5 beaters, 5 couplings	0020003378



MMT 40



MTT 40



MMT 100



Product	Description	Ident. No.
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ACCESSORIES A 10 BASIC

A 10.1	Stainless steel cutter	0025001680
A 10.2	Star-shaped cutter	0025001162
A 10.3	Hard metal cutter	0025001161
A 10.4	Grinding chamber reduction	0025001664

ACCESSORIES A 11 BASIC

A 11.1	Spare beater, stainless steel	0002904600
A 11.2	Cutting blade, stainless steel	0002905200
A 11.3	Beater, stainless steel, coated with chromium carbide	0002983000
A 11.4	Grinding chamber, polycarbonate, 250 ml	0002904100
A 11.5	Spare grinding chamber, Tefcel, 80 ml	0002983100
A 11.6	Double beater, titanium	0003302900
A 11.7	Funnel, PTFE	0003048700

ACCESSORIES M 20

M 21	Spare cutter, stn. steel	0000328200
M 22	Hard metal cutter, tungsten carbide	0000521800
M 23	Star-shaped cutter, stn. steel	0001443400
M 20.1	Grinding chamber, 250 ml	0008006200

ACCESSORIES MF 10 BASIC

MF 10.1	Cutting-grinding head	0002870900
MF 10.2	Impact-grinding head	0002871000

SIEVES

MF 0.25	Sieve, Ø 0.25 mm	0002938900
MF 0.5	Sieve, Ø 0.5 mm	0002939000
MF 1.0	Sieve, Ø 1 mm	0002939200
MF 2.0	Sieve, Ø 2 mm	0002939400
MF 3.0	Sieve, Ø 3 mm	0002939500
MF 4.0	Sieve, Ø 4 mm	0002939600

