

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 or fibrous – the IKA 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 a disposable tube. There is a USB interface available for easy actuation and documentation respectively.

Available  
Q1 2019

### 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.

### 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 control

EUR 2.999,00  
Ident. No. 0025002643



### MultiDrive basic

EUR 2.499,00  
Ident. No. 0025002638



TECHNICAL DATA	MULTIDRIVE CONTROL	MULTIDRIVE BASIC
Operating principle	Cutting / Impact	Cutting / Impact
Speed range	3000 – 20 000 rpm	3000 – 20 000 rpm
Useable volume max.	2000 ml	2000 ml
Feed hardness max.	5 Mohs	5 Mohs
Temperature measurement	Yes	–
Weighing function	Yes	–
Milling chamber can be cooled with water / dry ice	Yes / Yes	Yes / Yes
Dimensions (W × H × D)	300 × 450 × 250 mm	300 × 450 × 250 mm
Protection class according to DIN EN 60529	IP 31	IP 31

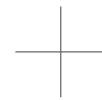
**A 10 basic**

EUR 1.749,00  
Ident. No. 0004020700



**A 11 basic**

EUR 2.099,00  
Ident. No. 0002900000



**M 20**

EUR 5.549,00  
Ident. No. 0001603600

For dry grinding of hard and brittle substances



**MF 10 basic**

EUR 3.399,00  
Ident. No. 0002836000

Two different grinding heads can be attached to the drive, see Page 67

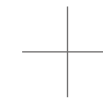


TECHNICAL DATA	A 10 BASIC	A 11 BASIC	M 20	MF 10 BASIC
Process type	Batch	Batch	Batch	Inline
Operating principle	Cutting / Impact	Cutting / Impact	Cutting / Impact	Cutting / Impact
Speed max.	25 000 rpm	28 000 rpm	20 000 rpm	3000 – 6500 rpm
Useable volume max.	50 ml	80 ml	250 ml	–
Feed hardness max.	5 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 x H x D)	130 x 250 x 145 mm	85 x 240 x 85 mm	170 x 350 x 170 mm	320 x 380 x 300 mm
Protection class according to DIN EN 60529	IP 41	IP 43	IP 21	IP 22

**Tube mill 100 control**

EUR 1.999,00  
Ident. No. 0020007144

Designed for grinding chambers with max. 100 ml



**Tube Mill control**

EUR 1.799,00  
Ident. No. 0004180000



reddot design award winner 2013

German Design Award NOMINEE 2015



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



IKA MultiDrive BL 2000



IKA MultiDrive MI 250

Product	Description	Ident. No.	Price
<b>ACCESSORIES MULTIDRIVE</b>			
MultiDrive BL 2000	Blender vessel, 2000 ml	0025003961	EUR 499,00
MultiDrive BL 2000 T	Blender vessel, 2000 ml, Temperature measurement	0025003962	EUR 599,00
MultiDrive MI 250	Milling chamber, 250 ml	0025003967	EUR 599,00
MultiDrive MI 400	Milling chamber, 400 ml	0025003965	EUR 699,00
MultiDrive MI 250 T	Milling chamber, 250 ml, Temperature measurement	0025003968	EUR 699,00
MultiDrive MI 400 T	Milling chamber, 400 ml, Temperature measurement	0025003966	EUR 799,00
MultiDrive DI 2000 T	Dispersing vessel, 2000 ml, Temperature measurement	0025003960	EUR 899,00

**ACCESSORIES TUBE MILL CONTROL**

MT 40.10	Disposable grinding chamber, 40 ml, 10 pcs.	0004425000	EUR 69,00
MT 40.100	Disposable grinding chamber, 40 ml, 100 pcs.	0020001173	EUR 589,00
MTC 40.100	Cover for disposable grinding chamber, 100 pcs.	0020001182	EUR 49,00
MT 40.10 steril	Disposable grinding chamber, sterile, 40 ml, 10 pcs.	0020001984	EUR 119,00
MT 40 P.10	Disposable grinding chamber, bended beater, 40 ml, 10 pcs.	0020017838	EUR 79,00
MT 40 P.100	Disposable grinding chamber, bended beater, 40 ml, 100 pcs.	0020011531	EUR 679,00
MT 100.10	Disposable grinding chamber, 100 ml, 10 pcs.	0020008386	EUR 79,00
MT 100.10 steril	Disposable grinding chamber, sterile, 100 ml, 10 pcs.	0020012571	EUR 139,00
MT 100.50	Disposable grinding chamber, 100 ml, 50 pcs.	0020006984	EUR 349,00
MMT 40.1	Multi-use milling tube, 40 ml	0020003165	EUR 209,00
MMT 100.1	Multi-use milling tube, 100 ml	0020016315	EUR 229,00
MTT 40.10	Disposable grinding chamber, titanium beater, 40 ml, 10 pcs.	0020015380	EUR 119,00
MTT 100.10	Disposable grinding chamber, titanium beater, 100 ml, 10 pcs.	0020019576	EUR 139,00
A-MMT 40.100	Abrasion set for MMT 40.1   MMT 100.1, 100 sealing, 5 beaters, 5 couplings	0020003378	EUR 139,00



MT 40



MMT 40



MTT 40



MMT 100

Product	Description	Ident. No.	Price
<b>ACCESSORIES A 10 BASIC</b>			
A 10.1	Stainless steel cutter	0025001680	EUR 41,00
A 10.2	Star-shaped cutter	0025001162	EUR 127,00
A 10.3	Hard metal cutter	0025001161	EUR 235,00
A 10.4	Grinding chamber reduction	0025001664	EUR 93,00
<b>ACCESSORIES A 11 BASIC</b>			
A 11.1	Spare beater, stainless steel	0002904600	EUR 90,00
A 11.2	Cutting blade, stainless steel	0002905200	EUR 153,00
A 11.3	Beater, stainless steel	0002983000	EUR 195,00
A 11.4	Grinding chamber, polycarbonate, 250 ml	0002904100	EUR 533,00
A 11.5	Spare grinding chamber, Tefcel, 80 ml	0002983100	EUR 389,00
A 11.6	Double beater, titanium	0003302900	EUR 420,00
A 11.7	Funnel, PTFE	0003048700	EUR 213,00

**ACCESSORIES M 20**

M 21	Spare cutter, stn. steel	0000328200	EUR 74,00
M 22	Hard metal cutter, tungsten carbide	0000521800	EUR 313,00
M 23	Star-shaped cutter, stn. steel	0001443400	EUR 146,00
M 20.1	Grinding chamber, 250 ml	0008006200	EUR 3.206,00

**ACCESSORIES MF 10 BASIC**

MF 10.1	Cutting-grinding head	0002870900	EUR 3.151,00
MF 10.2	Impact-grinding head	0002871000	EUR 2.893,00

**SIEVES**

MF 0.25	Sieve, Ø 0,25 mm	0002938900	EUR 339,00
MF 0.5	Sieve, Ø 0,5 mm	0002939000	EUR 241,00
MF 1.0	Sieve, Ø 1 mm	0002939200	EUR 241,00
MF 2.0	Sieve, Ø 2 mm	0002939400	EUR 241,00
MF 3.0	Sieve, Ø 3 mm	0002939500	EUR 263,00
MF 4.0	Sieve, Ø 4 mm	0002939600	EUR 308,00



A 10.3



A 11.2



A 11.6



M 23



MF 10.1



MF 1.0



MF 4.0