

# Mills



Dust-proof sealed housing, high level of user safety



USB interface to control and document all the parameters



Adjustable safety speed and time



Quiet operation



Tube Mill control

**World's first**



reddot design award winner 2013



Cross-contamination free  
No cleaning required  
Precise milling results  
Large application range

Technical data	
Motor rating input / output	100 / 80 W
Speed range	5000 – 25,000 rpm
Useful volume	40 ml
Duty cycle (ON / OFF)	5 s – 3 min (timer)
Circumferential speed	65 m/s
Max. feed hardness	5 Mohs
Max. feed grain size	10 mm
Grinding chamber material	Transparent plastic (PP)
Dimensions (W x D x H)	180 x 300 x 170 mm
Weight	2.7 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative moisture	80%
Protection class acc. to DIN EN 60529	IP 30

Tube Mill control	
Ident. No.	0004180000*

\* Two single grinding chambers are included in the delivery

### MT 40 Disposable grinding chamber (10 pieces/pack)

Ident. No. 0004425000

### MT 40 Disposable grinding chamber (100 pieces/pack)

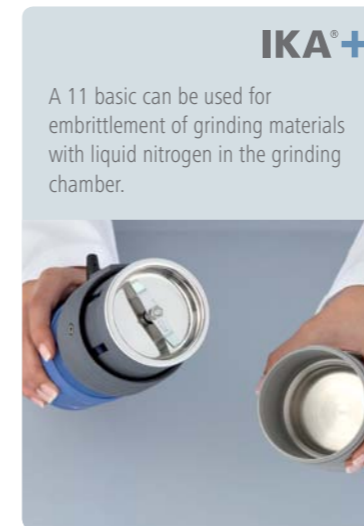
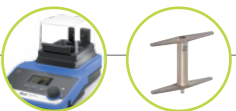
Ident. No. 0020001173

### MTC 40 (100 pieces/pack)

Cover for MT 40

Ident. No. 0020001182

# Mills | Accessories



A 11 basic can be used for embrittlement of grinding materials with liquid nitrogen in the grinding chamber.



Technical data	
Motor rating input / output	160 / 100 W
Speed range	28,000 rpm (fixed)
Useful volume	80 ml (optional 250 ml)
Duty cycle (ON / OFF)	1 / 10 min
Circumferential speed	53 m/s
Max. feed hardness	9 Mohs
Max. feed grain size	10 mm
Grinding chamber material	stainless steel (AISI 316L)
Dimensions (W x D x H)	85 x 85 x 240 mm
Weight	1.5 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative moisture	80%
Protection class acc. to DIN EN 60529	IP 43

A 11 basic	
Ident. No.	0002900000

A 11 basic accessories	
	Ident. No.
A 11.1	0002904600
Spare beater, stainless steel	
A 11.2	0002905200
Cutting blade, stainless steel	
A 11.3	0002983000
Beater, stainless steel, coated with chromium carbide	
A 11.4	0002904100
Grinding chamber, polycarbonate, 250 ml	
A 11.5	0002983100
Spare grinding chamber, Tefcel, 80 ml	
A 11.6	0003302900
Double beater, titanium	
AS 11.7	0003048700
Funnel, jacket PTFE, sieve stainless steel	



# Universal mill | Microfine grinder

MF 10 basic



Powerful drive



Easy to clean working surface made of stainless steel



Easily interchangeable heads



### Technical data

Motor rating input/output	620 / 260 W
Speed range	20,000 rpm (fixed)
Speed display	no
Useful volume	250 ml
Duty cycle (ON / OFF)	7 / 10 min
Overload protection	yes
Circumferential speed	72 m/s
Max. feed hardness	9 Mohs
Max. feed grain size	7 mm
Grinding chamber material	stainless steel (AISI 316L)
Dimensions (W x D x H)	170 x 170 x 350 mm
Weight	6.6 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative moisture	80%
Protection class acc. to DIN EN 60529	IP 21

### M 20 Universal mill

Motor rating input/output	620 / 260 W
Speed range	20,000 rpm (fixed)
Speed display	no
Useful volume	250 ml
Duty cycle (ON / OFF)	7 / 10 min
Overload protection	yes
Circumferential speed	72 m/s
Max. feed hardness	9 Mohs
Max. feed grain size	7 mm
Grinding chamber material	stainless steel (AISI 316L)
Dimensions (W x D x H)	170 x 170 x 350 mm
Weight	6.6 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative moisture	80%
Protection class acc. to DIN EN 60529	IP 21
Ident. No.	0001603600

### MF 10 basic

Motor rating input/output	1000 / 500 W
Speed range	3000 – 6500 rpm
Speed display	no
Useful volume	max. 5 kg/h
Duty cycle (ON / OFF)	120 / 30 min
Overload protection	yes
Circumferential speed	22.5 m/s
Max. feed hardness	3 Mohs
Max. feed grain size	15 mm
Grinding chamber material	stainless steel (AISI 304)
Dimensions (W x D x H)	320 x 300 x 560 mm
Weight	11.9 kg (incl. MF 10 basic)
Permissible ambient temperature	5 – 40 °C
Permissible relative moisture	80%
Protection class acc. to DIN EN 60529	IP 22
Ident. No.	0002836000

### Technical data

Circumferential speed	22.5 m/s / 31.4 m/s
Max. granularity of task	max. 15 mm / max. 10 mm
Dimensions including MF 10 basic	320 x 300 x 560 mm 320 x 300 x 450 mm
Weight including MF 10 basic	11.9 kg / 12.4 kg
Materials in contact with medium	stainless steel

### MF 10.1 Cutting-grinding head MF 10.2 Impact-grinding head

Circumferential speed	22.5 m/s / 31.4 m/s
Max. granularity of task	max. 15 mm / max. 10 mm
Dimensions including MF 10 basic	320 x 300 x 560 mm 320 x 300 x 450 mm
Weight including MF 10 basic	11.9 kg / 12.4 kg
Materials in contact with medium	stainless steel
MF 10.1 Cutting-grinding head	Ident. No. 0002870900
MF 10.2 Impact-grinding head	Ident. No. 0002871000

# Mills | Accessories



### M 20 accessories

	Ident. No.
M 21	0000328200
Spare cutter, stainless steel	
M 22	0000521800
Hard metal cutter, tungsten carbide	
M 23	0001443400
Star-shaped cutter, stainless steel	
M 20.1	0008006200
Grinding chamber, 250 ml	

### MF 10 basic accessories

	Ident. No.
MF 0.25	0002938900
Sieve, Ø 0.25 mm	
MF 0.5	0002939000
Sieve, Ø 0.5 mm	
MF 1.0	0002939200
Sieve, Ø 1 mm	
MF 2.0	0002939400
Sieve, Ø 2 mm	
MF 3.0	0002939500
Sieve, Ø 3 mm	
MF 4.0	0002939600
Sieve, Ø 4 mm	

