

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



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

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

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

IKA®+

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

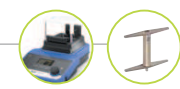
A 11 basic

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

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	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

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

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

MF 10 basic accessories

	Ident. No.
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

