

Analytical and Multipurpose Mills, IKA®

A 11 basic IKA® analytical mill

Batch mill for 2 different grinding procedures:

Impact grinding of hard, brittle or non-elastic grinding materials with high-grade stainless steel beater. This beater can be used for a Mohs hardness up to 6 (incl. with delivery).

Cutting grinding for pulverized soft, fibrous materials with a cutting blade (not incl. with delivery).

Moist and gluey materials can be pulverized by adding water.

Grinding chamber made of Tefcel (ETFE, glass fiber-reinforced) with stainless steel inlet (1.4571), useful volume 80 ml (incl. with delivery). Optionally, a 250 ml grinding chamber is available.

Technical data:

Motor rating input/output:	300/160 W
Idle speed:	28000 min ⁻¹ (fixed)
Circumferential speed under load:	53 m/s
Useful vol. grinding chamber A 11.5:	80 ml
Useful vol. grinding chamber A 11.4:	250 ml
Duty cycle min:	5 min ON/10 min OFF
Dimensions (W × D × H):	85 × 85 × 240 mm
Weight kg:	1,5
Permissible ambient temperature:	5 to 40°C
Permissible humidity:	80%
Protection class acc. to DIN EN 60259:	IP 43

Article	Order No.
① A 11 basic	53 36 29000

Accessories for A 11 basic

Article	Order No.
② Spare beater A 11.1 For pulverizing substances with a Mohs hardness up to 6 (included with delivery)	53 36 29046
③ Cutting blade A 11.2 For pulverizing soft, fibrous grinding materials (not included with delivery)	53 36 29052
④ Beater A 11.3 For pulverizing hard substances with a Mohs hardness up to 9, coated with chromium carbide (not included with delivery)	53 36 29830
⑤ Grinding container A 11.4 Made of polycarbonate with a stainless steel insert (1.4571), capacity 250 ml (not included with delivery)	53 36 29041
⑥ Spare grinding container A 11.5 Made of Makrolon with high grade steel (1.4571), effective volume 80 ml (included with delivery)	53 36 29831
⑦ Double beater A 11.6 Up to Mohs hardness 3, can be used only for grinding container A 11.4. Titanium, surface hardened (not included with delivery of the A 11 basic)	53 36 33029
⑧ Filling funnel A 11.7 Prevents splashing when filling liquid nitrogen into the grinding container A 11.5. Jacket made of PTFE. Screen made of stainless steel (AISI 316L). Not included with delivery of the A 11 basic.	53 36 30487

M 20 multipurpose mill

With exchangeable grinding chamber made of stainless steel. Works with little dust and loss. Grinding chamber can be cooled. Stainless steel cutter.

Grinding chamber M 20.1

A second grinding chamber ensures effective processing. The grinding chambers can be placed on the drive alternatively. One chamber is cleaned and filled while the other is being processed. Cutters not included.

Technical data:

External (W × D × H):	170 × 170 × 350 mm
Weight:	6,6 kg
Useful volume:	250 ml
Power supply:	230 V~, 50 to 60 Hz
Motor rating input/output:	440/225 W
Speed:	20000 min ⁻¹ (fixed)

Article	Order No.
⑨ M 20	53 36 14100
⑩ Multi-purpose mill M 20.1	53 36 80062

Accessories for M 20

Article	Order No.
⑪ Spare beater M 21 made of stainless steel (1.4122)	53 36 14112
⑫ Spare beater M 22 made of tungsten carbide (91 WC 9 Co)	53 36 14113
⑬ Star knife M 23 made of stainless steel (1.4301)	53 36 14114

