

## Knife Mill GRINDOMIX GM 200

### General Information

The knife mill GRINDOMIX GM 200 is the ideal instrument for grinding and homogenizing foods and feeds. It allows to process sample volumes up to 0.7 liters quickly and reproducibly.

With two sharp, robust blades and a powerful 1000 W motor, it is ideal for homogenizing substances with a high water, oil or fat content as well as for grinding dry, soft and medium-hard products. A wide selection of lids and containers allows for adaptation of the mill to individual application requirements. The GRINDOMIX GM 200 meets and exceeds all special laboratory and analytical requirements and is a professional device superior to any commercial household mixer.



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### Application Examples

candy, cereal bars, cereals, cheese, coated tablets, cocoa nibs, dietary supplements, dried and fresh fruit, feed pellets, fish, frozen products, ham, lettuce, meat, nuts, oil seeds, pharmaceutical materials, plant materials, sausages, soap, spices, vegetables, ...

### Product Advantages

- **LOS** efficient size reduction of up to 700 ml feed quantity due to a powerful 1000 W motor
- pre- and fine-grinding in one mill: cutting action in regular mode, grinding by impact in reverse mode, pre-grinding in interval mode
- **LOS** perfect adaptation to application requirements by variable speed from 2.000 to 10.000 min<sup>-1</sup> with an increment of 500 min<sup>-1</sup>
- **LOS** Boost function with speed of 14.000 min<sup>-1</sup>
- **LOS** 8 SOPs and 4 sequences can be stored
- **LOS** touch display with access to MyRETSCH web portal with product and application related information
- **LOS** optional gravity lids or volume reduction lids for automatic reduction of the grinding chamber volume
- grinding jar in plastic, stainless steel and glass available
- **LOS** all parts which come into contact with the sample material are autoclavable



### Features

Applications	size reduction, homogenization and mixing
Field of application	agriculture, biology, food, medicine / pharmaceuticals
Feed material	soft, medium-hard, elastic, containing water / fat / oil, dry, fibrous
Size reduction principle	cutting
Material feed size*	40 mm
Final fineness*	< 300 µm
Batch size / feed quantity*	with standard lid 700 ml with reduction lid 150-300 ml with gravity lid 300 - 600 ml
Grinding chamber volume	with standard lid 1000 ml with reduction lid 300 ml/500 ml with gravity lid 400 - 800 ml
Speed setting	digital, 2,000 - 10,000 min <sup>-1</sup> (14,000 min <sup>-1</sup> BOOST)
Material of grinding tools	blade: stainless steel / titanium fixation of blade: PVDF container: autoclavable plastic / plastic PP /

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	stainless steel / glass
Setting of grinding time	digital, 1 s - 3 min
Interval operation	yes
Storable SOPs	8 programmes / 4 sequences
Drive	series-characteristic motor
Drive power	~ 1000 W
Electrical supply data	different voltages
Power connection	1-phase
Protection code	grinding chamber and keypad IP 42
Power consumption	~ 1000 W
W x H x D closed	350 x 275 x 392 mm (opened: 350 x 410 x 553)
Net weight	~ 10 kg
Standards	CE

**Please note:**

\*depending on feed material and instrument configuration/settings

### Videolink

<http://www.retsch.com/gm200>

### Function Principle

Two sharp, robust blades rotate in the center of the grinding container. Depending on the rotational direction, size reduction is effected with the blunt side (preliminary size reduction) or the sharp side (fine grinding). The knife is indirectly driven by a powerful motor of 1000 W. A pre-selectable speed which is maintained electronically ensures optimum adaptation to individual application requirements as well as reproducible grinding results.

### Order Data

#### Knife Mill GRINDOMIX GM 200

**complete with 1 litre grinding container of autoclavable plastic, standard lid and knife of stainless steel**

20.254.0001	GM 200, 220-240 V, 50/60 Hz
20.254.0002	GM 200, 100-120 V, 50/60 Hz

#### Accessories GM 200

##### Grinding containers, 1 litre

03.045.0057	Grinding container, autoclavable plastic (transparent and scratch-resistant)
03.045.0047	Grinding container, PP
03.045.0046	Grinding container, glass

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03.045.0050	Grinding container, stainless steel
<b>Lids for grinding containers of autoclavable plastic or PP</b>	
03.107.0562	Standard lid, PP
22.107.0022	Standard lid, PP, 100 pieces
03.107.0606	Reduction lid, PP, for chamber reduction to 0.25 litres
03.107.0310	Reduction lid, PP, for chamber reduction to 0.5 litres
02.107.0327	Gravity lid, PP
02.107.0323	Gravity lid, PP, with overflow channels
<b>Lids for grinding containers of glass or stainless steel</b>	
03.107.0562	Standard lid, PP
22.107.0022	Standard lid, PP, 100 pieces
02.107.0328	Gravity lid, PP
02.107.0308	Gravity lid, PP, with overflow channels
<b>Knives</b>	
02.446.0047	Knife of stainless steel
02.446.0057	Knife of stainless steel with serrated blades
02.446.0048	Knife of pure titanium for grinding without heavy-metal contamination

### Additional items GM 200

05.723.0001	Scraper
99.200.0031	IQ/OQ Documentation for GM 200