

## Knife Mill GRINDOMIX GM 200

### General Information

The new 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 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.

### Application Examples

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

### Product Advantages

- efficient size reduction of up to 700 ml feed quantity due to a powerful 900 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
- all parts which come into contact with the sample material are autoclavable
- perfect adaptation to application requirements by variable speed from 2.000 to 10.000 min<sup>-1</sup> with an increment of 100 min<sup>-1</sup>
- optional gravitation lid for automatic reduction of the grinding chamber volume
- 3 SOPs can be stored
- grinding jar in plastic, stainless steel and glass available

### 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 300 ml with gravity lid    |



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|                            |   |
|----------------------------|---|
| Grinding chamber volume    | 300 - 600 ml<br>with standard lid 1000 ml with<br>reduction lid 500 ml with gravity lid<br>400 - 800 ml                                   |
| Speed at 50 Hz (60 Hz)     | digital, 2.000 - 10.000 min <sup>-1</sup>   |
| Material of grinding tools | blade: stainless steel / titanium<br>fixation of blade: PVDF container:<br>autoclavable plastic / plastic PP /<br>stainless steel / glass |
| Setting of grinding time   | digital, 1 s - 3 min  |
| Interval operation         | yes   |
| Storable SOPs              | 3   |
| Drive                      | series-characteristic motor   |
| Drive power                | ~ 900 W   |
| Electrical supply data     | different voltages  |
| Power connection           | 1-phase   |
| Protection code            | grinding chamber and keypad IP 42   |
| Power consumption          | ~ 900 W   |
| W x H x D closed           | 350 x 275 x 392 mm (opened: 350<br>x 410 x 553)   |
| Net weight                 | ~ 10 kg   |
| Standards                  | CE  |

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### Videolink

### 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 900 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**

|             |                             |
|-------------|-----------------------------|
| 20.253.0001 | GM 200, 220-240 V, 50/60 Hz |
| 20.253.0002 | 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  |
| 03.045.0050 | Grinding container, stainless steel  |

##### Lids for grinding containers of autoclavable plastic or PP

|             |  |
|-------------|--|
| 03.107.0505 | Standard lid, PP                                       |
| 22.107.0022 | Standard lid, PP, 100 pieces                           |
| 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                |

##### Lids for grinding containers of glass or stainless steel

|             |   |
|-------------|---|
| 03.107.0505 | 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 |

##### Knives

|             |   |
|-------------|---|
| 02.446.0047 | Knife of stainless steel  |
| 02.446.0048 | Knife of pure titanium for grinding without heavy-metal contamination |

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### Additional items

05.723.0001

Scraper

99.200.0010

IQ/OQ Documentation for GM 200