

## KNIFE MILLS

**KM 1100**



< 50mm  
▼  
< 320µm

**KM 1300**



< 130mm  
▼  
< 300µm

## KM 1100

The knife Mill KM1100 is used to process the soft, medium-hard, brittle and fibrous sample. It is special for high water, oil or fat content sample.

### SAMPLE TYPE

Soft, Elastic, Fibrous, Water-Bearing, Oily, Fatty, Dry sample

### APPLICATION EXAMPLE

Agriculture: Grain, Feed etc...

Biology: Mouse Tissue, Plant leaves, Seeds, Seedling and Germ

Medicine: Chinese medicine, Pills, etc

Food: Dried Melon, Vegetables, Frozen food, Candy, preserved fruit, meat

### WORKING PRINCIPLE

The KM1100 has two-blade knives at the center of the bottom of a grinding cup. A certain height gap is kept between the blades. Driven by a motor of 1,100W, the knives start rotating. Reliable crushing and homogeneous phase effects are generated via the cutting of the sharp steel knife edges. The blunt side can be selected for coarse grinding of bulk samples or the tough side for fine grinding of samples. The motor speed is electronically controlled and can be preset. The constant speed guarantees efficient and high-quality grinding homogenization. You just need 10 to 30 seconds to process samples that are usually hard to crush and get homogenized samples for analysis.

### FEATURES AND ADVANTAGES

- Autoclavable container for choice
- Grinding container in various material
- Simple operation and quick start
- Strong motor power 1.1KW, speed adjustable
- Coarse grinding and fine grinding can be realized in one step
- Three modes optional: interval mode, reverse mode and press-and-play mode
- Overload protection and safety lock design



## KM 1300

The knife Mill KM 1300 is specially designed which is especially suitable for grinding and homogenizing large amount of samples to the analysis level in a short time.

### SAMPLE TYPE

Soft, Elastic, Fibrous, Water-Bearing, Oily, Fatty, Dry sample

### APPLICATION EXAMPLE

Agriculture: Grain, Feed etc...

Biology: Mouse Tissue, Plant leaves, Seeds, Seedling and Germ

Medicine: Chinese medicine, Pills, etc

Food: Dried Melon, Vegetables, Frozen food, Candy, preserved fruit, meat

(\*Especially suitable for large amount sample, such as chicken bones, fresh fish, seafood, hazels, etc.,)

### WORKING PRINCIPLE

The KM1300 has four blade knives at the center of the bottom of a grinding cup. A certain height gap is kept between the blades. Driven by a motor of 1.5KW, the knives start rotating. Reliable crushing and homogeneous phase effects are generated via the cutting of the sharp steel knife edges. The blunt side can be selected for coarse grinding of bulk samples or the tough side for the grinding of the samples.

### FEATURES AND ADVANTAGES










- 10 SOPs can be stored
- It allows to dry grinding and wet grinding
- 5 inch LED touch screen display, easy to operate
- With interval mode, regular mode and reverse mode
- Powerful brushless motor, the speed can be adjusted at the range of 500- 4000 rpm
- Designed with double-deck 4 pieces of straight blades to ensure higher grinding efficiency.
- The mill designed with electromagnetic lock. It's safe and reliable. The cover can not be opened during grinding process.



## Technical Data

| Parameters             | KM 1100   | KM 1300   |
|------------------------|---|---|
|                        |                          |                             |
| Display                | LCD Digital Display<br> | 5" Colour Touch Screen<br> |
| Feed Size              | <50mm   | <130 mm   |
| Final fineness         | <320µm  | <300 µm   |
| Motor speed            | 2000~15000 rpm  | 500~4000 rpm  |
| Time setting           | 01-9:59 (min/s)   | 00-99:59 (min/s)  |
| Batch quantity         | 50-700ml  | 1-4.5 L   |
| Interval mode          | yes   | Yes   |
| Knives                 | stainless steel, titanium alloy   | Stainless steel, Titanium coating   |
| Number of blades       | 2   | 4   |
| Rated power            | 1.1KW   | 1.5KW   |
| Power supply           | 220V,50Hz/60Hz  | 220V, 50Hz  |
| Instrument size(W*D*H) | 260*343*454mm   | 303*575*485mm   |
| Package size(W*D*H)    | 466*516*630mm   | 705*475*600mm   |

## ORDERING INFORMATION FOR KM 1100

|   |  |
|---|--|
|    | <p><b>KM 1100, 220/240 V, 50 Hz,</b><br/>Incl. 1L grinding container of autoclavable plastic, standard lid and knife of stainless steel</p>  |
|   | <p><b>ACCESSORIES OF KM1100</b></p>  |
|    | <p>Grinding Container 1 Ltr. ; autoclavable plastic(transparent and scratch-resistant)<br/>Grinding Container 1 Ltr. ; Stainless Steel<br/>Grinding Container 1 Ltr. ; PP<br/>Grinding Container 1 Ltr. ; PP,10pcs<br/>Grinding Container 1 Ltr. ; Glass</p> |
|   | <p><b>LIDS FOR GRINDING CONTAINERS OF AUTOCLAVABLE PLASTIC OR PP</b></p>   |
|    | Standard lid, PP (for containers with above four kinds of materials)   |
|    | Gravity lid, PP  |
|    | Gravity lid, PP with overflow channels   |
|    | Reduction lid ,PC, for chamber reduction to 300ml<br>Reduction lid ,PC, for chamber reduction to 500ml   |
|   | <p><b>LIDS FOR GRINDING CONTAINERS OF STAINLESS STEEL</b></p>  |
|    | Gravity lid, PP  |
|   | Gravity lid, PP with over flow channels  |
|   | <p><b>KNIVES</b></p>   |
|  | <p>Knife of Stainless Steel<br/>Knife of titanium alloy for grinding without heavy-metal contamination<br/>Knife of stainless steel with serrated blades for grinding meat</p>   |
|   | <p><b>ADDITIONAL ITEM</b></p>  |
|   | Scraper  |

## ORDERING INFORMATION FOR KM 1300

|   |   |
|---|---|
|  | <p><b>Knife Mill KM 1300, 220/240 V, 50 Hz.</b><br/>(Incl. 5L grinding container of autoclavable plastic, standard lid and knife of stainless steel)</p>                          |
|   | <p><b>ACCESSORIES OF KM1300</b></p>   |
|  | <p><b>Grinding Containers, 5L</b><br/>Autoclavable Plastic, transparent and scratch-resistant, incl. knife holder</p>   |
|   | <p><b>Grinding Containers, 5L</b><br/>Stainless Steel, incl. knife holder</p>   |
|   | <p><b>LIDS FOR GRINDING CONTAINERS OF AUTOCLAVABLE PLASTIC OR PP</b></p>  |
|  | Standard Lid, Scratch-resistant PP  |
|  | Standard Lid, Scratch-resistant PP, suitable for dry ice  |
|  | Gravity lid, PP   |
|  | Gravity lid, PP with overflow channels  |
|   | <p><b>KNIVES</b></p>  |
|  | <p>Knife of Stainless Steel<br/>Knife of titanium coating for grinding without heavy -metal contamination<br/>Knife of stainless steel with serrated blades for grinding meat</p> |
|   | <p><b>ADDITIONAL ITEM</b></p>   |
|   | Scraper   |

## OTHER PRODUCTS

Planetary Ball Mill MM 1100+  
(1 Grinding Station)



Planetary Ball Mill MM 1400+  
(4 Grinding Stations)



Ultra Centrifugal Mill - UCM 1100



Automatic Pellet Press PP40



Jaw Crusher JC 1100



Jaw Crusher JC1200



Rotary Sample Divider



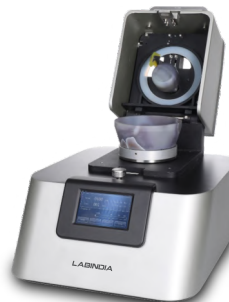
Mixer Mill  
MM1100 (Micro)



Cryo Grinding Mill  
CM1100



Mortar Grinder  
HG1100 (Touchscreen)



**LABINDIA**  
ANALYTICAL  
WHERE COMMITMENT IS CULTURE

[www.labindia-analytical.com](http://www.labindia-analytical.com) / For Enquiries: [sales.mfd@labindia.com](mailto:sales.mfd@labindia.com)

**Labindia Analytical Instruments Pvt. Ltd.**

**HEAD OFFICE:**

**Thane:** 201, Nand Chambers, LBS Marg, Near Vandana Cinema, Thane (W) - 400 602. **Tel.:** +91-22-6908 6000 / 6908 6110 **E-mail:** [sales.mfd@labindia.com](mailto:sales.mfd@labindia.com)

**REGIONAL OFFICES:**

**Delhi:** Tel.: +91-11-4330 6001 / 10

**Chennai:** Tel.: +91-44-2434 7008 / 2432 0352

**Kolkatta:** Tel.: +91-33-2466 3362

**BRANCH OFFICES:**

**Bangalore:** Tel.: +91 80 4565 6200

**Lucknow:** Tel.: +91-522-2346 535 / 2346 496

**Hyderabad:** Tel.: 040 4444 3530

**Vadodara:** Tel.: +91-265-2986 005 / 2986 006

**Pune:** Tel.: +91-(20)-2545 3386

**Chandigarh:** Tel.: +91-172-4090 001-07 / 4090 009

**FACTORY:** Plot No. EL-72, Electronic Zone, TTC Industrial Area, Thane Belapur Road, Navi Mumbai - 400 705. **Tel.:** +91-22-6107 6666

**E-mail:** [lipfactory@vsnl.net](mailto:lipfactory@vsnl.net)

**APPLICATION & TRAINING CENTRE:** R-909, TTC Industrial Area, Thane Belapur Road, Rabale, Navi Mumbai - 400 701. **Tel.:** +91-22-6107 6555



Striving to become the best individuals, we endeavour to foster the best team. Performing sensibly, we try to achieve the best efficiency. Working innovatively, we seek to make the best products. Listening patiently, we excel to offer the best service. So, no matter what you needs are, come to us, GET THE BEST

LABINDIA reserve the right to change specification without notice as part of its continuous programme of product development.