



## MORTAR GRINDER HG 1100 (Touch Screen)

Mortar Grinder HG 1100 is used to grind, homogenize and mix a wide range of samples with dry/wet or cryogenic condition, which can grind hard, soft, brittle and pasty samples. They have extraordinary performance on the processing capacity, as well as easy and safe to operating.

### **Working Principle**

The sample enters the grinding area between the pestle and mortar via hopper and is crushed by pressure and friction. The function of the scraper is to feed the material into the area between the mortar and pestle. This forced feed ensures that the whole sample is continuously subjected to the grinding and is also intensively mixed.

---

### Application

**Sample type:** Hard, soft, brittle and pasty samples.

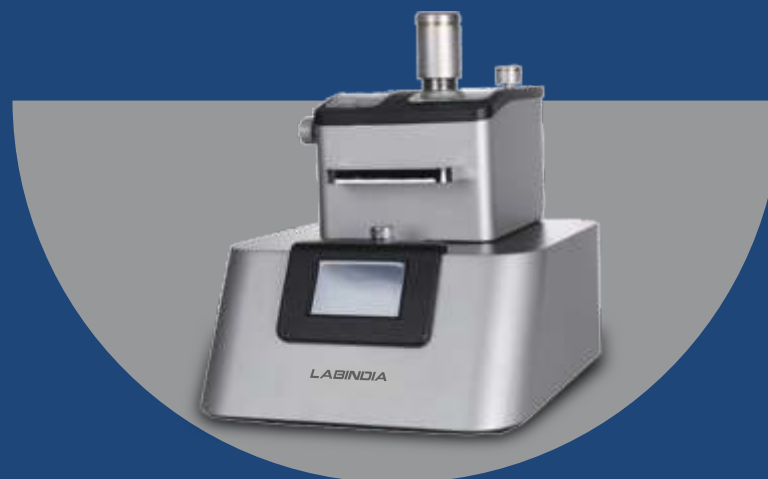
**Typical sample:** Pharmaceutical Material, Chemical products, Soil, Medicinal herbs, Yeast cell, Cocoa, Food, Grain, Oil, Fruit, Salt, Slag, Silicate, Glass, Ceramic and Cement clinker



---

### Features and advantages

- Built-In 5" Touchscreen Display
- Easy to clean & Safe to operate
- **Safe Locking Mechanism through Helix Screw**
- Skills to achieve the best grinding effect
- **Suitable for Dry, Wet & Cryogenic grinding**
- Pre-Treatment for some rough samples
- Adding samples through the filling opening during the operation
- A variety of **Grinding tools** available (**Hardened Steel, Stainless Steel, Tungsten Carbide, Agate, Sintered Aluminum Oxide, Zirconium Oxide**) to meet all application requirements
- A variety of **scraper materials** are available (**polyurethane, PTFE, beech wood**) to meet all application requirements.
- **Freely adjustable Pause/Holding time from 01 to 99 min, ensures mixing of two different tablets or dosage forms during the run**
- **Memory for up to 9 SOP's & Can be programmed up to 99 Cycles**
- **Variable pestle speed selectable from 50 to 130 RPM, which avoids over loading of motor**
- **Motor Capacitor does not get heated during the run. Other grinders gets heated during the run which destroy the API dosage form.**
- Overload protection and auto switch-off during overload



Technical Data	
Feed size	≤15mm, depending on the sample property
Final fineness	≤5μm, depending on the sample property
Speed	50~130rpm, speed is adjustable
Batch quantity	10~200ml
Grinding Chamber Volume	700 ml
Time setting	00:01~99:59 (hr/min)
Setting pestle pressure /position	Vertical by adjusting knob + scale
Setting scraper pressure/position	By adjusting knob
Display	5" Touchscreen Display
Lock device	External helix-screw device
Appearance design	Normal
Rated power	230W
Power supply	220V, 50/60Hz
Instrument size(W*D*H)	400*480*500mm
Package size(W*D*H)	600*600*610mm
Weight	41kg



Order Information	
	Mortar Grinder HG 1100 (Touch Screen), 240V, 50 Hz (Please order mortar and pestle separately)
<b>Grinding Jars</b> 	Mortar, Hardened Steel
	Pestle, Hardened Steel
	Mortar, Stainless Steel
	Pestle, Stainless Steel
	Mortar, Tungsten Carbide
	Pestle, Tungsten Carbide
	Mortar, Agate
	Pestle, Agate
	Mortar, Sintered Aluminum Oxide
	Pestle, Sintered Aluminum Oxide
	Mortar, Zirconium Oxide
	Pestle, Zirconium Oxide
<b>Scraper</b> 	Beech Wood
	PU
	PTFE, for Frozen Grinding

## OTHER PRODUCTS



Planetary Ball Mill  
BM 1100+  
(Single Grinding Station)



Planetary Ball Mill  
BM 1400+  
(4 Grinding Stations)



Knife Mill  
KM 1100



Twister  
TW 1100



Vibratory Disk Mill  
VDM 1100



Jaw Crusher  
JC 1100 & JC 1200



Ultra Centrifugal Mill  
UCM 1100



Rotary Sample Divider  
RSD 1100



3D Mixer  
LM3D



Intelligent Graphite Digester  
GD 1100



Automatic Pellet Press  
PP 40

**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

Kolkata: 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.