Mortar Grinder - Automatic Laboratory Mortar Mill - 50-130 rpm - Final Fineness Below 5 µm

Model **MSGM-M200SWISS** | Brand **Master Science**





The Master Science Automatic Mortar Grinder grinds, homogenizes and mixes samples using a motor-driven mortar and pestle, reproducing manual grinding with consistent results. It handles hard, soft, brittle and pasty materials under dry, wet or cryogenic conditions.

KEY HIGHLIGHTS

- Fine, reproducible grinding
- Dry, wet or cryogenic
- Easy cleaning
- Safe operation

AT A GLANCE

50 to 130 rpm
SPEED

Request a Quotation
Contact us for pricing, configuration options and delivery details.

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Overview

Feed material up to 10 mm is reduced to a final fineness below 5 µm, depending on the sample, in batches of 10 to 200 ml. Typical samples include soils, chemicals, medicinal herbs, yeast cells, cocoa, grain, salt, slag, silicates, glass, ceramics and cement clinker, making the Master Science Automatic Mortar Grinder a versatile preparation tool.

Hand grinding is tiring and gives variable results. The Master Science Automatic Mortar Grinder helps with:

Key Benefits

Fine, reproducible grinding
Automated mortar and pestle action gives consistent particle size.

Dry, wet or cryogenic
Handles many sample types and conditions.

Easy cleaning
Mortar and pestle change without tools.

Safe operation
Magnetic lid switch: grinding starts only with the lid closed.

For particle size analysis after grinding, see our electromagnetic sieve shaker.

Technical Specifications

GENERAL	
Brand	Master Science
Model Number	MSGM-M200SWISS
SKU	MSGM-M200SWISS
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Final Fineness	< 5 µm (depending on sample)
Speed	50 to 130 rpm
Time Setting	00:01 to 99:59 (h:min)
Batch Quantity	10 to 200 ml
Display	5-inch LED control panel

DIMENSIONS & WEIGHT	
Feed Size	< 10 mm
Dimensions	400 × 480 × 500 mm
Net Weight	41 kg

POWER	
Rated Power	200 W
Power Supply	220 V, 50/60 Hz

PROBLEMS THE MASTER SCIENCE AUTOMATIC MORTAR GRINDER SOLVES	
Operator fatigue	Motorised grinding replaces manual work.
Inconsistent fineness	Set speed and time give repeatable results.
Cross-contamination	Mortar sets are easy to remove and clean.
Accidental contact	The lid interlock prevents running with the lid open.

Applications

The Master Science Automatic Mortar Grinder is used for

Soil and geological sample preparation
Pharmaceutical tablets and medicinal herbs Food, grain, cocoa and spices Chemicals, salts and slag
Glass, ceramics and cement clinker

Grinding

- Motor-driven mortar and pestle
- 50 to 130 rpm
- Sample can be added through a filling opening during operation
- Scrapers available in polyurethane, PTFE or beech wood

Operation and Safety

- 5-inch LED control panel
- Magnetic lid interlock
- LED lighting when the observation window is opened
- Hard alloy housing and lid

Maintenance

- Tool-free exchange of mortar and pestle
- Easy-to-clean design

Standard Accessories Included

- Mortar grinder main unit

Optional Accessories

- Mortar and pestle sets (e.g. stainless steel, agate)
- Scrapers in polyurethane, PTFE or beech wood