Tiltable Ball & Rod Mill

LT-M0609 | Wet and dry sample grinding

Manual tilting mechanism • Ball or rod charge • Variable speed



9 L

AISI 304 STAINLESS STEEL TUBE

0-100 rpm

ADJUSTABLE TUBE SPEED

<8 mm feed • 500-1500 ml sample • <40 µm fineness under suitable conditions

Photographs and Components

Grinding area, tilting handwheel, control panel and drive motor

The LT-M0609 grinds mineral and ore samples in a 9 L stainless steel tube. A manual handwheel and worm-gear reducer move the tube between the horizontal grinding and vertical loading/unloading positions.

GRINDING TUBE

The 9 L AISI 304 tube has axially opening covers at both ends.

DRIVE MOTOR

A 1.5 kW motor rotates the tube through a gearbox and V-belt.

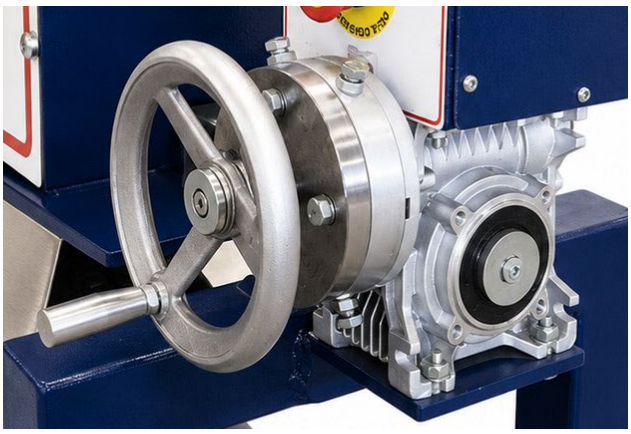


CONTROL PANEL

Electronic control adjusts tube speed continuously from 0 to 100 rpm.

TILTING HANDWHEEL

The manual handwheel changes tube position through a worm-gear reducer.



Tilting handwheel and worm-gear reducer



Front cover and access area

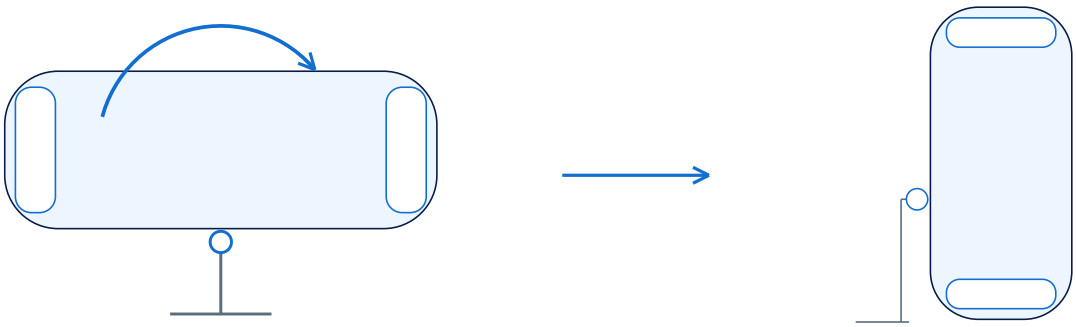
LT-M0609

Tilting and Grinding Principle

Horizontal grinding • Vertical loading and unloading • Two media options

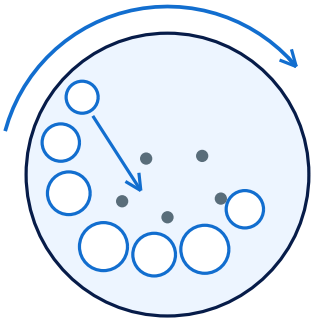
Horizontal Grinding

Vertical Loading / Unloading



The handwheel and worm-gear reducer change the tube angle. Axially opening covers at both ends provide access to the sample and grinding media.

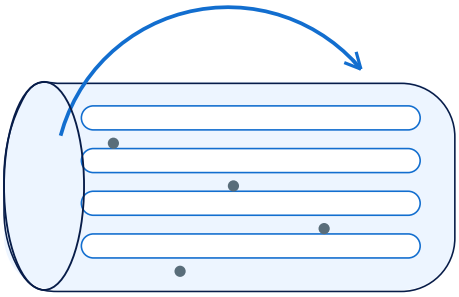
Ball Grinding



Heat-treated chromium-alloy balls

Balls apply impact and friction to the sample inside the rotating tube.

Rod Grinding



AISI 304 stainless steel rods

Rods grind the sample along their extended contact surfaces.

Dry Grinding

The sample and media operate without added liquid.

Wet Grinding

Grinding uses a liquid appropriate to the test method.

LT-M0609

Technical Data and Sample Workflow

LT-M0609 • Tube, speed control, drive system and electrical supply

Technical Specification	Value
Product Code	LT-M0609
Operating Method	Wet / dry grinding
Internal Tube Volume	9 L
Internal Tube Dimensions	Approx. Ø178 × 362 mm
Tube Material	AISI 304 stainless steel
Feed Size	<8 mm
Sample Quantity	500-1500 ml
Final Fineness	<40 µm*
Tube Rotation Speed	0-100 rpm / continuously variable
Tilting Positions	Horizontal grinding / vertical loading and unloading
Tube Covers	Axially opening at both ends
Motor Power	1.5 kW
Motor Speed	1400 rpm
Power Transmission	Gearbox and V-belt
Power Supply	220 V, 50-60 Hz

* Final fineness depends on sample properties, time, speed and grinding-media charge.

Included Grinding Media

One charge of heat-treated chromium-alloy balls and one charge of AISI 304 stainless steel rods.

Sample Preparation Workflow

01 Prepare Sample
Reduce the feed size to below 8 mm.

02 Select and Load
Select balls or rods; load the vertical tube.

03 Position Horizontally
Close covers; set speed and time.

04 Collect Sample
After grinding stops, unload vertically.

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