spex®
sampleprep

Mixer/Mill®

- High-energy ball mill that pulverizes hard or brittle samples to analytical fineness
- Equipped with forced-air cooling and safety interlock system for operator protection
- Steel housing protects the clamp mechanism and rugged construction ensures a long life of heavy use
- Shock-mounted motor enables benchtop operation



spexsampleprep.com

Phone: +1.732.549.7144
spexsales@antylia.com

4773S

Connect with us

Spex SamplePrep is an Antylia Scientific company. Find out more at antylia.com.

antylia SCIENTIFIC

Mixer/Mill®

High-Energy Ball Mills

The Mixer/Mill is a high-energy ball mill available with a single clamp, or dual clamps for double capacity, that grinds from 0.2 to 10 grams (per clamp) of dry, brittle samples, reducing them to analytical fineness. Samples in grinding vials are shaken with griding media in a complex motion that combines back-and-forth swings with short lateral movements in a figure-8 pattern. This motion produces strong G-forces that can pulverize the toughest rocks, slags and ceramics.

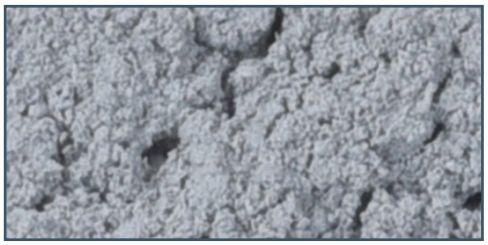
Typical applications: mechanical alloying, nanomilling, slurry grinding, blending powders, mixing emulsions, and mechanochemistry.

Typical samples: rocks, minerals, sand, cement, slag, ceramics, catalyst supports, glass, pharmaceuticals, plant tissue, animal tissues, cannabis, seeds, paints, and inks.

Before & After Samples

Stone





LCD screen with manual start/stop buttons

Capable of pulverizing the toughest samples

Clamp swings in a back-and-forth lateral “figure-8” movement

Vibration detection switch shuts down the mill in the event of mechanical failure

Specifications

8000D Dual-Clamp Mixer/Mill

Net Weight	93 lb (42 kg)
Dimensions	25 in (64 cm) x 21 in (54 cm) x 14 in (36 cm)
Voltage	115 V/60 Hz or 230 V/50Hz
Power Cord	3-prong grounded plug, 115V 60Hz or 2-prong European plug, 230V50Hz
CE Approved	Yes
Motor	1/3 hp, 1725 RPM at 60 Hz, 1425 RPM at 50 Hz
Clamp Movement	2 5/16 in (5.9 cm) back-and-forth, 1 in (2.5 cm) side-to-side
Clamp Speed	1060 cycles/minute (115 V) or 875 cycles/minute (230 V)

8000M Single-Clamp Mixer/Mill

Net Weight	77 lb (35 kg)
Dimensions	21 in (53 cm) x 22 in (56 cm) x 14 (36 cm)
Voltage	115 V/60 Hz or 230 V/50 Hz
Power Cord	3-prong grounded plug, 115 V/60 Hz or 2-prong European plug, 230 V/50 Hz
CE Approved	Yes
Motor	1/3 hp, 1725 RPM at 60 Hz, 1425 RPM at 50 Hz
Clamp Movement	2 5/16 in (5.9 cm) back-and-forth, 1 in (2.5 cm) side-to-side
Clamp Speed	1060 cycles/minute (115 V) or 875 cycles/minute (230 V) Alternate pulley supplied with 230 V model for 1060 cpm operation

Ordering Information

EQUIPMENT	
Product Name	**Part Number**
8000D Mixer/Mill, Dual-Clamp, 115 V	8000D-115
8000D Mixer/Mill, Dual-Clamp, 230 V	8000D-230
8000M Mixer/Mill, Single-Clamp, 115 V	8000M-115
8000M Mixer/Mill, Single-Clamp, 230 V	8000M-230





8000D Mixer/Mill®
Dual-Clamp High-Energy Ball Mill





8000M Mixer/Mill®
Single-Clamp High-Energy Ball Mill