

SM-300 ShatterBox®

Versatile ring and puck mill for grinding up to 150 grams of brittle material to analytical fineness



Grind your samples with minimal loss in a soundproof enclosure.

- Pulverize up to 150 grams of brittle material to analytical fineness
- Grinding times range from two to five minutes, with resultant particle size to analytical fineness (<50 µm)
- Automated locking dish and guided positioning
- LCD touchscreen with easy navigation

The SM-300 ShatterBox has many advanced features including industrial design, user-friendly touchscreen interface, variable run speed, ergonomic dish loading platform, automated locking clamp, a safety interlocking door, and lockable casters making the large, more industrial mill easy to move from one laboratory to another.

The ShatterBox is a versatile ring and puck mill that can crush and grind many types and sizes of samples with minimal sample loss and increased safety. The SM-300 model features an automated locking dish and guided dish positioning with an automatic elevation of the dish for ease of use and greater flexibility. The versatility of sample containers allows for grinding within smaller dishes without the ring, as well as the ability to increase sample sizes and capacity with our ring and puck system.

FEATURES

- Variable speed
- Durable
- Programmable methods
- Automated safety features

APPLICATIONS INCLUDE

- XRF, CRD, ICP, AAS, and IR analyses

SAMPLE TYPES INCLUDE

- Cement
- Superalloy
- Granite
- Glass
- Sand
- Slag
- Ceramics
- Seeds
- Grains
- Pigments
- Catalyst supports

ShatterBox®



SM-300 ShatterBox
Ring and Puck Mill

Before and Sample Samples – Glass



Specifications

Specification	SM-300
Type of mill	Grinding mill
Display	Digital
Motor	1/2 hp
CE approved	Yes
Voltage	115 VAC, 60 Hz or 230 VAC, 50 Hz
Power cord	3-prong grounded plug for 115 VAC or 2-prong European CEE 7/7 plug for 230 VAC
Dimensions (W x D x H)	67.5 x 66.0 x 138.0 cm (26.6 x 26.0 x 54.3 in.)
Weight	200 kg (400 lb)
Warranty	1 year

Ordering Information

Description	SamplePrep Part Number	Cole-Parmer Item Number
SM-300 ShatterBox® Ring and Puck Mill, 115 VAC, 60 Hz	8550-115	41010-83
SM-300 ShatterBox® Ring and Puck Mill, 230 VAC, 50/60 Hz	8550-230	41010-84

Ordering Information—Accessories

Description	SamplePrep Part Number	Cole-Parmer Item Number
Hardened Steel Grinding Container with Handles	8501-H	41010-85
Tungsten Carbide Grinding Container Handles	8504-H	41010-87
Alumina Ceramic Grinding Container Handles	8505-H	41010-89
Zirconia Ceramic Grinding Container Handles	8506-H	41010-91
Large Hardened Steel Grinding Container with Handles	8521-H	41010-92

We've Got a Fresh New Look!

Our new website is live—and it's built to make your sample prep journey smoother than ever. From product info to quick quote requests and easy demo scheduling, everything you need is just a click away.

Scan the QR code or visit cpsampleprep.com to experience it for yourself.



Need a Demo?

- Virtual sample processing – virtual demonstration of the equipment and sample processing
- Physical sample processing – physical testing of your sample with shared results
- Physical equipment testing – a demo unit can be sent to your facility to test before purchasing

Contact us today at sampleprep@coleparmer.com for details.



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Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.