

SM-300 ShatterBox® Versatile Ring & Puck Mill



- 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 (<math><50 \mu\text{m}</math>)
- Automated locking dish and guided dish positioning
- LCD touchscreen with easy navigation

The SM-300 model 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. Our SM-300 ShatterBox 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.

Typical applications include: XRF, XRD, ICP, AAS, and IR analyses for rocks, minerals, cement, ores, slag, soil, and ceramics.

Features



Variable speed



Durable



Programmable
methods



Automated
safety features

Sample Types Include



Cement



Glass



Ceramics



Grains



Pigments

Specifications

| | |
|------------------------|--|
| Ambient Temperature | 4-35 °C (40-90°F) |
| Humidity | 0-95% |
| Operating Rate | 800 to 1200 rpm (1050 rpm max for tungsten carbide dish) |
| Electrical | 115 VAC, 60 Hz (10-amp fuse) or 230 VAC, 50/60 Hz (5-amp fuse) |
| Motor | 1/2 HP, 1200 rpm (maximum speed) |
| Dimensions (W x H x D) | 67.5 x 138.0 x 66.0 cm (26.6 x 54.3 x 26.0") |
| Weight | 200 kg (440 lb) (without grinding container) |
| Warranty | 3 years |

Ordering Information

| Description | Item Number |
|--|-------------|
| SM-300 ShatterBox, Ring and Puck Mill, 115 VAC, 60 Hz | 41010-83 |
| SM-300 ShatterBox, Ring and Puck Mill, 230 VAC, 50/60 Hz | 41010-84 |

Ordering Information – Accessories

| Description | Item Number |
|--|-------------|
| Hardened Steel Grinding Container with Handles | 41010-85 |
| Tungsten Carbide Grinding Container Handles | 41010-87 |
| Alumina Ceramic Grinding Container Handles | 41010-89 |
| Zirconia Ceramic Grinding Container Handles | 41010-91 |
| Large Hardened Steel Grinding Container with Handles | 41010-92 |

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@antylia.com for details.

