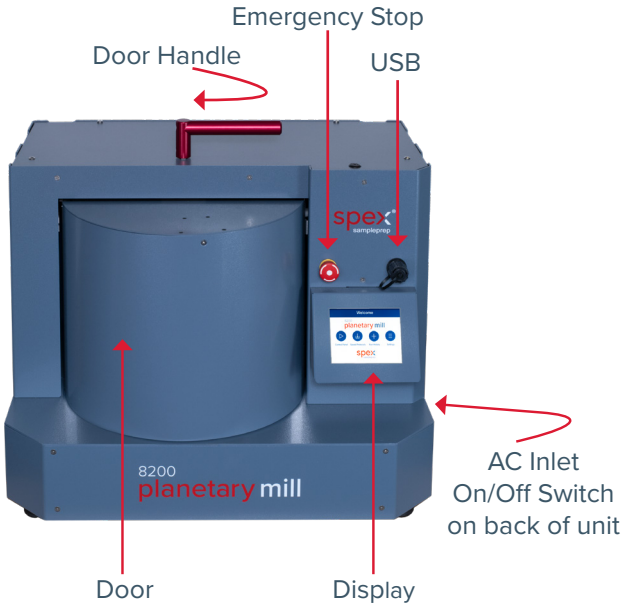
Planetary Mill Quick-Start Guide

How To Operate 8200 Planetary Mill



Set up the Planetary Mill in a well-ventilated, unconfined space. The unit should be operated on a flat, hard, stable benchtop due to the weight and vigorous motion and vibration generated during operation.

1. Connect the power cord to the AC inlet located on the back of the unit. Power ON the 8200 Planetary Mill. “Please Wait” appears on the screen during start up as the software loads. Afterwards, the screen will switch to the Home screen.

2. Place the sample in the grinding jar FIRST, then the grinding balls and apply the cover (firmly seated). Do not overload the grinding jar. Recommended sample amounts for 500 mL jar (100 g to 225 g) and for 250 mL jar (50 g to 100 g). Additional information on grinding and mixing is in Section 9.1 of the Operating Manual.

3. The clamp base has two different size pins, designed to specifically fit into the two holes on the bottom of the jar. To place a jar in the clamp, loosen the locking tab on the threaded shaft and unscrew the locking knob with a few turns (counter-clockwise). Rotate the moveable arm clockwise (downwards) unclasping it from the Y-cross bar, lift the locking knob assembly upwards. When placing the jar in the clamp, make sure the pins are fitted in the proper holes. Once the jar is seated in the clamp base it should not be able to twist.

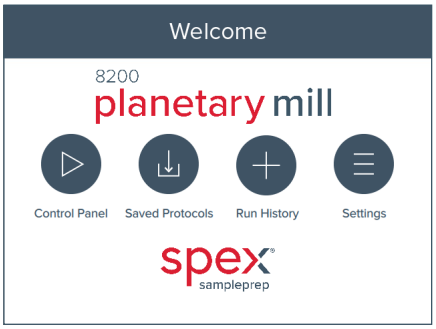
4. To lock the jar in the clamp, rotate the moveable arm counter-clockwise (upwards) and push down the locking knob to fit (clasp) the Y-cross bar inside the arm opening. Turn the locking knob clockwise to secure the jar. Tighten the locking tab by turning clockwise.

5. The counterweight is set at the manufacturing facility to balance the stainless steel 500 mL jar with eight 30 mm stainless steel balls. Turning the knob clockwise increases the counterweight. Furthermore, turning the knob counter-clockwise decreases the counterweight. ***Note:*** *If the counterweight is not properly balanced, the unit may vibrate or shake vigorously.*

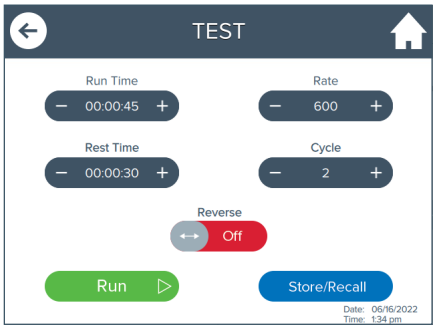
6. After the sample jar is loaded and secured into the clamp mechanism, and counterweight properly adjusted, close the door. Grasp the handle and rotate clockwise to slide the door to the closed position. (See Sections 6 and 7 of the Operating Manual for detailed instructions).

Touch Screen Display

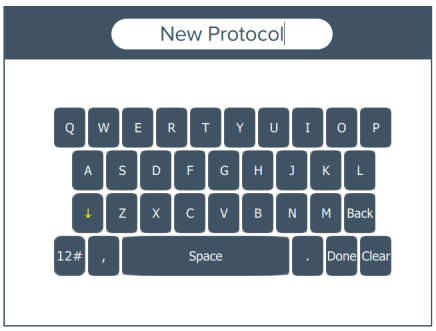
1. From the Home screen, the Control Panel, Saved Protocols, Run History, and Settings can be accessed by the user. Programmable operating commands available through a series of touch screen displays.
2. Import/export saved protocols, run history, diagnostic data or upgrade the system software via USB.
3. On the Control panel, run time parameters can be set as well as stored or recalled.
4. A pop-up keyboard is activated when editing, adding or saving a protocol.
5. From the Settings screen, the System Settings and Firmware (to update) are accessed.



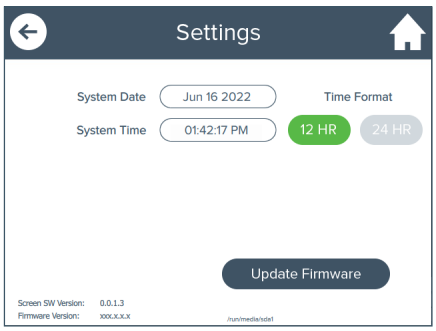
Home Screen



Control Panel



Editing a Protocol



Settings Screen

Important: The clamp locking knob is the most critical component of the Planetary Mill as it must be carefully adjusted to hold the jar firmly in place. The rotation motion of the clamp is extremely vigorous. The jar must be held securely in the clamp during operation to prevent damage and leakage.

To assure proper performance, an important factor is overall cleanliness. Any spilled powders or liquids should be wiped up immediately. This should minimize the buildup of any powders or residue inside the working mechanisms of the mill.

We're here to help!

For questions about accessories or grinding protocols, contact us at +1.732.623.0465, sampleprep@antylia.com, or visit spexsampleprep.com.

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