



PRODUCT NO.: 8314



VIBRATING TABLE, PROFILL 100 & PROFILLER 1100/3600 (110-120V)

DESCRIPTION: Vibrators offer faster filling of powders that "bridge" or are granular, fluid or "flour" like. It also reduces weight variation for fine powders. CE certificate provided.

FEATURES:

- Recommended vibration time: 30-60 sec
- Reduces filling time and weight variation for fine powders
- Eliminates issues (loss of powder, capsules falling out of place, etc.) with tamper pin contact when filling sticky powders
- Breaks up powder bridges and eliminates air pockets

ADDITIONAL INFORMATION:

A. Recommended Time & Tips

A vibration time of 30-60 seconds is recommended for most powders. Longer vibration times do not result in higher fill weights for most powders other than fluid-like powders. While vibrating, it is recommended to spread the powder across the capsule bodies to reduce fill weight variation. Remember to spread powder to all four edges of the filling surface.

For many powders (including fluid-like, fine and fluffy powders) you can achieve a higher fill weight with a combination of vibration, spreading and tamping. Vibrate and spread the powder for 30-60 seconds. Use a Tamper to press powder gently into the capsule bodies without forcing powder out of the capsule bodies. Repeat vibration and spreading followed by tamping. After the final tamping, spread any remaining powder across the capsule bodies. For maximum fill weights, you can do up to 4 vibration/spreading and tamping cycles. In general, it is not recommended to exceed more than 2-3 cycles as the fill weight (of the tested powders) does not increase by more than 1-2% after 3 cycles.

Due to wide variations in properties between powders, their grades and suppliers, your results will vary.

B. Benefits

Filling Time: For almost all powders, a vibrator used alone or in addition to tamping will reduce filling time. The filling time can be reduced by 60 seconds or more.

Average Fill Weight: To achieve maximum fill weight we recommend a combination of vibration and tamping.

Fill Weight Variation: For powders that are fluid-like, bridge or are granular, a vibrator will reduce fill weight variation from capsule to capsule compared to tapping or tamping alone.

C. Powder Types & Examples

Vibration and spreading alone or in combination with tamping is recommended for powders that are:

- **Sticky:** Powder that sticks to Tamper pins can pull up capsule bodies after tamping, or can stick to Tamper pins and fall off onto Filler surface. Use of a powder Vibrator eliminates Tamper pin contact with powder during filling.
- **Fluid-like (including fine or flour-like):** Fluid-like, fine and fluffy powders are pushed out of the capsule bodies as the Tamper pins enter. If you have to tamp more than 2-3 times because powder is flowing out, a vibrator is very useful. A vibrator reduces the filling time by a few minutes or more. For more information on vibration and tamping see section A above - "Recommended Time & Tips."
- **Bridge across the capsule bodies:** Some powders form a bridge at the top of the capsule body, leaving air pockets inside the capsule. The capsule appears full but it is not. A Vibrator breaks up powder bridges and eliminates the air pockets resulting in a reduced filling time and more even fill weights.
- **Granules or pellets:** Tamping can damage granules or pellets. A powder Vibrator allows you to fill granules and pellets without damaging them.