

High Throughput Homogenizer



- Ability to process small quantities
- Eliminates cross contamination
- Rapid sample processing

The Talboys High Throughput Homogenizer is specifically designed for high throughput sample processing in a microplate, vial set format or any 4 x 5 x 2.5" matrix to produce effective homogenization of tissue samples. Homogenizer produces a reciprocal motion that is optimized for grinding difficult samples. Easy-to-load tray securely locks microplate or sample holder in place. The high speed linear motion of the homogenizer allows for rapid sample processing; in most cases two minutes or less. Analog controls.

Homogenized samples can be subsequently handled manually or in an automated system. The High Throughput Homogenizer is suitable for the isolation of protein, DNA, RNA, viruses, and other biological components released during homogenization.

Animal tissue, seeds, tubers, leaf punches, soil and sediment samples, insects, and microbial cultures can all be effectively homogenized in a 96-well or vial set format. The unit is also useful for pulverizing dry samples for chemical analysis and solubility studies.

Operating Conditions:

Units can be run in conditions from 5 to 40°C (41 to 104°F), 20% to 85% relative humidity, non-condensing.

Ordering information:

Unit includes a 92" (234cm), 3-wire cord and plug (230 volt units are supplied with Euro type plug). **5 year limited warranty on parts and labor.**

Grinding Accessories

Grinding Vial Sets combine the benefits of the microplate format and the size of vials to provide a tool for higher throughput sample grinding. Vials are available in either polycarbonate or polyethylene materials. The polyethylene vial set is offered in a 24 vial, 4mL size. The polycarbonate vial set is offered in two sizes; 24 vial, 4mL size and 5 vial, 15mL size. The 4mL vial size is conveniently packaged as a set or in bulk.

Grinding balls are used with deep well plates and vial sets to bead beat plant tissues, seeds, and animal tissues. These grinding balls are made of 440C stainless steel which allows them to be retrieved with a magnet while making them resistant to tarnishing. Grinding balls are treated to remove residual oils and contaminants prior to packaging.

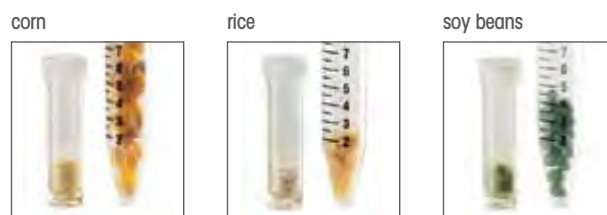
Recommended Applications:

- 3/8" Good for homogenizing seeds and larger samples of animal tissue in 4mL vials.
- 7/16" Suitable for larger grinding jobs, such as pooled seeds, in 15 mL vials.
- 5/32" Use with deep well plates for leaf punches or animal tissue of 50mg or less.

When homogenization is complete, grinding balls can be removed with optional 24-Pin Magnet.



930145



Specifications

Speed Range	0 to 1600rpm
Timer	1 to 10 minutes
Maximum Capacity	1 deep well plate, 4 stacked standard well plates, or 1 vial set; 300 gram maximum
Reciprocal Stroke	1.2" (3.1cm)
Dimensions, Overall (L x W x H)	17.5 x 15 x 14.2" (44.5 x 38.1 x 36.1cm)
Ship Weight	75lbs (34.1kg)

Description	Electrical (50/60 Hz)	Part Number
High Throughput Homogenizer	120V 6.3 amps 450 watts	930145
High Throughput Homogenizer	230V 3.1 amps 450 watts	930146