



Ergonomic, "slim-line" handle design

- + Quickly homogenizes samples (in under 30 seconds)
- + For volumes 100µl to 250ml
- + Supplied with two generator probes (5mm and 7mm)

Benchmark's handheld homogenizer, the D1000, is designed to rapidly homogenize, emulsify, suspend and disrupt biological samples. Ideal for use with microtubes, the homogenizer works well with samples from 0.1ml to 250ml (depending upon the generator probe used).

The D1000 is a rotor stator homogenizer which works by drawing the sample, in liquid, into the generator probe with the variable speed rotor, and then forcing it out through the slots in the stator. This achieves mechanical shearing of the sample. As the sample is repeatedly drawn up and forced through the stator, additional shearing takes place.

A powerful, 130W motor drives the rotor at speeds from 8,500 to 30,000 rpm. Speed is continuously adjustable to meet sample processing needs. A separate on/off switch allows the homogenizer to be left at the appropriate setting.

Generator probes are available in four sizes. The 5mm and 7mm diameter have a 50mm length for use with samples in microtubes. The 10mm x 115mm probe is ideal for use with 15 and 50ml tubes and 14mm x 130mm probe, for 50ml tubes and vessels up to 250ml. The unit is supplied with one each of the 5mm and 7mm generator probes. All the generator probes are made of stainless steel and can be sterilized by autoclaving.



Ordering Information:

Item No.	Description:
D1000	D1000 Hand-Held Homogenizer includes one 5mm (flat-bottom) generator probe and one 7mm (saw tooth) generator probe
<i>Optional generator probes:</i>	
D1000-M10	10mm x 115mm saw tooth, for 15 and 50ml tubes
D1000-M14	14mm x 130mm saw tooth, for 50ml - 250ml vessels
D1000-M5	5 x 50mm for microtubes, 5pk.
D1000-M7	7 x 50mm for microtubes, 5pk.
D1000-ST	Stand for D1000 Homogenizer

*115V with US plug. For 230V (EU plug), please add (-E).

Technical Data:

Speed Range:	8,500 to 30,000rpm
Capacity:	0.1 to 250ml
Noise Level:	<70db
Dimensions: (W x D x H): (without probe)	1.8 x 2.3 x 9 in. 4.5 x 5.8 x 22.5 cm
Weight:	1.35 lbs (0.6kg)
Electrical:	115 or 230V, 50-60Hz, 130W
Warranty:	2 Years



- + Extremely powerful mixing action for lysis, grinding or homogenization
- + Eliminates the cross contamination associated with hand-held homogenizers
- + Faster & more effective than tissue grinders
- + Process multiple tubes simultaneously

The BeadBugs™ are high energy benchtop homogenizers that set the performance standard for personal sized cell disruption and lysis instruments. Simultaneous homogenization of up to 6 samples takes place (often within 45 seconds) inside the disposable 2ml screw cap microtubes. The optimized mixing motion causes rapid cell disruption through constant high velocity impacts from the hardened microbeads chosen specifically for your sample type.

Developed for samples too tough to be homogenized in a common lab vortexer, the BeadBugs provide a convenient and economical alternative to larger and more expensive homogenizers on the market today. With compact footprints (as small as 7 x 8", in the 3 position model), the Beadbugs are the ideal homogenizing instruments for low to medium throughput laboratories.



BeadBug 3, accepts 3 x 2.0ml



BeadBug 6, accepts 6 x 2.0ml



Video Demonstration



Benchmark offers a wide range of homogenization beads (including glass, zirconium, stainless steel, etc.)

Ordering Information:

Item No.	Description:
D1030*	BeadBug™ 3, Three Position Microtube Homogenizer
D1036*	BeadBug™ 6, Six Position Microtube Homogenizer
D1036-A5	Optional tube holder 2 x 5ml screw cap tubes (for D1036 only)
Prefilled Tube Kits:	Include 2.0ml non-skirted screw cap tubes with caps, sealing rings and beads as specified below:
D1031-01	Standard glass beads, Ø 0.1mm, 50pk.
D1031-05	Standard glass beads, Ø 0.5mm, 50pk.
D1031-10	Standard glass beads, Ø 1.0mm, 50pk.
D1032-01	Triple-Pure™, high impact zirconium beads, Ø 0.1mm, 50pk.
D1032-05	Triple-Pure™, high impact zirconium beads, Ø 0.5mm, 50pk.
D1032-10	Triple-Pure™, high impact zirconium beads, Ø 1.0mm, 50pk.
D1032-15	Triple-Pure™, high impact zirconium beads, Ø 1.5mm, 50pk.
D1032-30	Triple-Pure™, high impact zirconium beads, Ø 3.0mm, 50pk.
D1032-60	One ceria zirconium oxide satellite, Ø 6.0mm, 50pk.
D1032-SK	Starter Kit, 10 ea. of Ø 0.1, 0.5, 1.0, 1.5 & 3.0 Triple-Pure™ zirconium
D1033-28	Stainless steel beads, Ø 2.8mm, 50pk.
D1033-30G	Garnet shards with 1 zirconium bead Ø 6.0mm, 50pk.
D1034-MX	Mixed format, 0.1mm silica, 1.4mm zirconium, 4mm silica, 50pk.
D1031-T20	Empty tubes (2.0ml) pack of 1000
D1031-RFS	Reinforced empty tubes (2.0ml) pack of 600

*115V with US plug. For 230V (EU plug), please add (-E).

Additional bead types are also available (in both bulk and prefilled kits). Please contact Benchmark for a complete listing.

Technical Data:

Speed Range:	2,800 to 4,000rpm (D1030) 2,500 to 4,350rpm (D1036)
Max. Capacity:	3 x 2.0ml non-skirted (D1030) 6 x 2.0ml (skirted or non) or 2 x 5ml (D1036)
Timer:	3 sec. to 3 min. (D1030) 1 sec to 90 sec. with up to 10 cycles (D1036)
Operating Temp. Range:	+4° C to +45° C (ambient temp.)
Dimensions: (W x D x H)	6.9 x 8.3 x 5.3 in. / 17 x 21 x 13.5 cm (D1030) 8.6 x 14 x 8 in. / 22 x 35.5 x 20.5 cm (D1036)
Weight:	5 lbs (2.2kg) / 20 lbs (9kg)
Electrical:	115 or 230V, 50-60Hz, 50W (D1030) 100 to 240V, 50-60Hz, 145W (D1036)
Warranty:	2 Years