

# Model D1000 Handheld Homogenizer



Ergonomic, "Slim-line"  
handle design

- + Homogenize most samples in under 30 sec.
- + For volumes from 100µl to 250ml
- + Supplied with both 5mm and 7mm generator probes

## Technical Data:

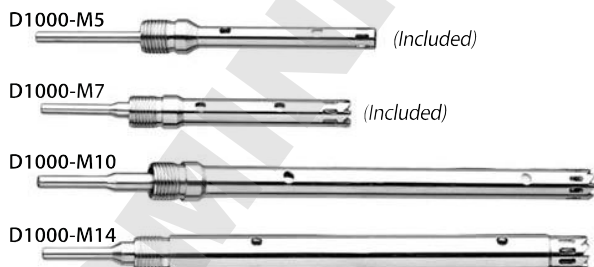
Speed Range:	8,500 to 30,000 rpm
Capacity:	0.1 to 250ml
Noise Level:	< 70 db
Operating Temp. Range:	+4°C to +65°C
Dimensions: (without generator)	1.8 x 2.3 x 9 in. 4.5 x 5.8 x 22.5 cm
Weight:	0.6 kg / 1.35 lb
Electrical:	115V, 60Hz, or 230V, 50Hz
Warranty:	2 years

Benchmark's new 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, and 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. Most samples are completely homogenized in 30 seconds or less. A powerful, 130W motor drives the rotor at speeds from 8,500 to 30,000 rpm. Speed is adjustable in six steps 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 is ideal for use with 15 and 50ml tubes and 14mm x 130 mm, 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.

## Available Generator Heads



## Ordering Information:

**D1000\*** D1000 Handheld Homogenizer, 115V  
Includes: one 5mm (flat bottom) generator probe & one 7mm (saw tooth) generator probe

### Optional Generator Probes:

D1000-M10 10mm x 115mm saw tooth, for 15 & 50ml tubes  
D1000-M14 14 x 130mm saw tooth, for 50 to 250ml vessels  
D1000-M5 5 x 50mm flat bottom, for microtubes, 5pk.  
D1000-M7 7 x 50mm, saw tooth, for microtubes, 5pk.

D1000-ST Stand for D1000

\* For 230V (EU plug), please add (-E).

**Benchmark**  
Scientific



**Benchmark Scientific Inc.**  
PO Box 709 Edison, NJ 08818  
Phone: 908-769-5555  
Fax: 908-222-1864  
Web: [www.BenchmarkScientific.com](http://www.BenchmarkScientific.com)  
Email: [Info@BenchmarkScientific.com](mailto:Info@BenchmarkScientific.com)