

# HOMOGENIZERS Hand Held, BenchTop, 160Watt, 0.1-250ml

The Homogenizer is widely used in fields of Biotechnology, Human & veterinary medicine/clinical medicine, Pharmaceutical industry, Cosmetics industry, Food industry, Petrochemistry, Paint & lacquer industry etc. The material is repeatedly cycled through narrow slits in the stator where it is rapidly sheared and disintegrated by high shear mechanical action. Complete homogenization of tissues (muscle, liver, breast tissue, etc.) is usually achieved in a few seconds. Little, if any, heat is produced during the process.



HOG-160-1/2

## HOG-160-1/2, Handheld Homogenizer

Use for mixing, emulsification, shredding, or chopping.

Practical answer for small samples.

D-160 is a rotor/stator type hand held tissue homogenizer which can rapidly homogenize, disperse and emulsify samples in 0.1-250ml. During operation, the suspended material is drawn into the core of the homogenizer by a rotor turning at up to 30,000 rpm.



Model	HOG-160-1/2
<b>Power Supply</b>	110-120V/60Hz , 220-240V / 50-60 Hz
<b>Motor Type</b>	Universal motor, 160 Watt
<b>Speed range (rpm)</b>	8,000 - 30,000
<b>Max. Circum. Speed</b>	6.3-14m/sec
<b>Speed control type</b>	Dial knob 6 stage
<b>Working Volume (ml, H<sub>2</sub>O)</b>	0.1-50ml(Dispersing shaft DS-160/5) 1-250ml(Dispersing shaft DS-160/10)
<b>Max. Viscosity</b>	5000mPas
<b>Material of Dispersing Shaft</b>	SS 316L stainless steel / PTFE
<b>Dimension LxWxH (mm)</b>	46 x 55 x 230
<b>Weight (kg)</b>	0.6
<b>Noise</b>	72 dB(A)
<b>Operating Environment</b>	0-40°C, 85% rel. humidity
<b>Protection class</b>	IP20

### Features:

- Easy to hold & light weight for one hand operation.
- Sample Volume Range: 0.1-50 ml or 1-250ml
- Autoclavable stainless steel shafts. Inert to aggressive solutions.
- All shafts are interchangeable shafts and are easily removed for cleanup.
- High speed motor. Speed control from 8,000 to 30,000rpm.

### Homogenizers of HOG-160-1/2

Model	Package Include	Power supply
<b>HOG-160-1 (Package 1)</b>	HOG-160 drive, H 370 Stand, DS-160/5 shaft, Dispersing shaft 5mm, for solid/liquid media volumes from 0.1-50ml	110-120V, 50/60Hz
		220-240V, 50/60Hz
<b>HOG-160-2 (Package 2)</b>	HOG-160 drive, H370 Stand, DS-160/10 shaft Dispersing shaft 10mm, for solid/liquid media volumes from 1- 250ml	110-120V, 50/60Hz
		220-240V, 50/60Hz

Model	Description of Dispersing Shaft	Applications / Industry Examples	Treatable Volume (ml)	Max. Circum. Speed (m/sec)	Dia. of the Rotor (mm)	Min/Max Emersion Depth (mm)	Ultimate Fineness (µm)	
							Suspension	Emulsion
<b>DS-160/5</b>	5mm for Solid/liquid media	Biotechnology, Pharmaceutical industry 0.1ml - 50ml	0.1-50	6.3	5	7/50	10-50	1-10
<b>DS-160/10</b>	10mm for Solid/liquid media	Biotechnology, Pharmaceutical industry 1ml - 250ml	1-250	14	10	10/120	10-50	1-10

\* All kind of sterilization possible