TECHNICAL DATA SHEET

ALab™ D-160 Handheld Homogenizer

Handheld homogenizer · 8000–32000 rpm · 10 speed levels · 0.1–250 mL



ALab™ D-160 Handheld Homogenizer

The ALab™ D-160 Handheld Homogenizer; image shown for reference.

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Revision Date **10/23/2026**

SECTION I

Product Overview

The ALab™ D-160 Handheld Homogenizer is a portable, lightweight homogenizer (0.54 kg) with variable speed from 8000 to 32000 rpm in 10 stages. With the DS-160/5, DS-160/7 or DS-160/10 dispersing shaft it processes 0.1–50, 1–150 or 1–250 mL.

It is designed to homogenize, emulsify, suspend and disrupt biological samples such as animal tissue, bacteria, yeast and plant samples in liquids. The dispersing shafts are fully autoclavable and interchangeable for easy dismantling and cleaning.

SECTION II

Core Advantages

- **Handheld** — 0.54 kg, ergonomic
- **Shafts** — DS-160/5, /7, /10
- **Change** — interchangeable shafts
- **Speed** — 8000–32000 rpm, 10 stages
- **Cleaning** — autoclavable shafts
- **Motor** — AC carbon brush, 160 W

SECTION III

Specifications

Technical data — D-160

Specifications	
Brand	ALab™ by ACS Material
Model	D-160
ACS Cat. No.	Parent ALD1600F; ALD16000
Product type	Handheld homogenizer
Speed range	8000–32000 rpm
Speed levels	10
Max. linear velocity	6.3, 10 or 14 m/s (DS-160/5, DS-160/7, DS-160/10)
Working volume (H_2O)	0.1–50 mL (DS-160/5); 1–150 mL (DS-160/7); 1–250 mL (DS-160/10)
Max. viscosity	5000 mPa·s
Material of dispersing shaft	SS 316L stainless steel, PTFE
Noise level	72 dB(A)
Protection class	IP20
Voltage, frequency	110–120 V, 60 Hz or 220–240 V, 50–60 Hz
Power	160 W
Motor type	AC carbon brush motor
Dimensions (W × D × H)	45 × 55 × 190 mm
Weight	0.54 kg
Permissible ambient temperature and humidity	0–40°C, 85% RH

Dispersing shafts (select by working volume)

Cat. No.	Shaft	Volume	Max. circum. speed
18900543	DS-160/5	0.1–50 mL	6.3 m/s
18900815	DS-160/7	1–150 mL	10 m/s
18900544	DS-160/10	1–250 mL	14 m/s

Material of dispersing shaft: see Specifications.

Dispersing-shaft selection

— Dispersing shafts DS-160/5 (18900543), DS-160/7 (18900815) and DS-160/10 (18900544): select the shaft for the working volume; contact ACS Material to confirm the shaft configuration for your order.

SECTION IV

Applications

Homogenizing, emulsifying, suspending and disrupting biological samples such as animal tissue, bacteria, yeast and plant samples in liquids, from 0.1 mL to 250 mL depending on the shaft.

Choose the shaft by working volume. Specifications are per the tables above.

Revision Date: 10/23/2026

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