

TECHNICAL SPECIFICATION

CALEVA MULTI LAB SCIENTIFIC (MLS)



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Gain deeper insights into process parameters and accelerate your formulation development with the all-in-one bench-top mixer, extruder and spheronizer from Caleva. With tool-less technology and automatic data capture, you can complete multiple experiments in a day and achieve reliable repeatability across multiple iterations.



- ✓ Automatic Data Capture
- ✓ Recipe Management
- ✓ USB Microscope Imaging
- ✓ Ambient & Process Temperature Measurement
- ✓ Motor Load % Reporting
- ✓ Speed Reporting

Standard Product Configuration (Software – MLS1.01):

- 230v 50/60Hz – Part Number: MLS-230

- 110v 50/60Hz – Part Number: MLS-110

Electrical Supply: 1ph 230V or 110V

Connectivity: 2 x USB3, 2 x USB2

Base Machine Mass: 34kg

Base Machine Dimensions: 505 (W) x 600 (D) x 420 (H) mm

Machine Cabinet: Polyurethane and 304 Stainless Steel

Product Contact: 316 Stainless Steel and FDA food approved plastics



Certificate Number: 1503



Mixer Attachment



Processing capacity: 15 to 40g / 30 to 80ml (formulation and bowl dependent).

Blade rotation speed: Primary Blade 10 to 250 RPM

Mixer Bowl: Intermeshing counter rotating blades for high shear applications. Other bowl options include half bowl for scarce materials, sigma bowl for higher viscosity materials and water jacketed options.

Extruder Attachment



Processing capacity: 10 to 80g (formulation dependent).

Screw speed: 90 to 150 RPM

Die plate: One Ø1mm x 1mm supplied as standard.

Other die options available: Ø0.5mm to Ø3.0mm holes including lobed profiles and a range of die thicknesses.

Spheronizer Attachment



Processing capacity: 10 to 80g (formulation dependent).

Disc Speed: 500 to 4500 RPM

Spheronization Disc: One 3x3mm crosshatch serration disc supplied as standard. Other disc patterns are available.