

# CALEVA MULTI-LAB

ONE MACHINE, THREE PROCESSES



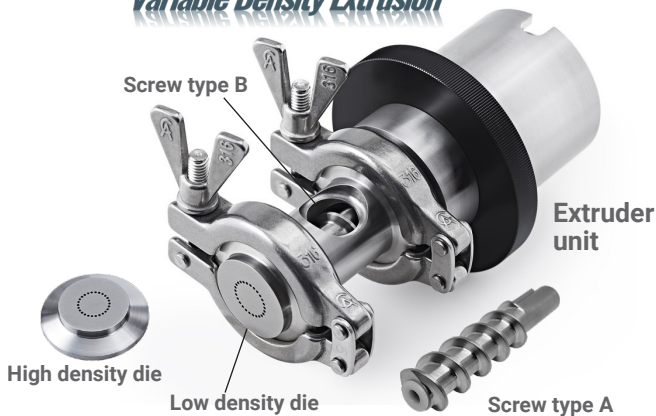
BATCHES FROM 10 TO 100 G\*  
FOR TEACHING AND RESEARCH

\*Formulation Dependent



Caleva CML base unit with several granulator options

## Variable Density Extrusion<sup>(TM)</sup>



### The units

- Base unit
- Mixer/Granulator system
  - Variable density extruder system
  - Spheronizer system

### General

The base unit and at least one attachment must be chosen. Generally all three attachments are purchased at the same time.

- Product contact** 316 stainless steel  
FDA food approved plastics
- Batch size** A wet batch of about 50 g is normal
- Timer** Automatic timer included
- Power requirement** 230V, 50Hz, 6.3A or 110V, 50Hz, 10A. 1 ph.  
Configuration selected at time of order

### The base unit

- Size** Approximately 480w x 375h x 375d mm
- Weight** 34.2 kg (220V) or 36.4 kg (110V)
- Cabinet** Brushed type 304 Stainless Steel

### The granulator attachment

- Standard bowl** Inter-meshing counter rotating blades for the highest possible shear
- Half bowl** A smaller "half-bowl" is available for use with scarce or expensive product
- High viscosity bowl** Non inter-meshing "z" blade option for mixing materials of higher viscosity
- Water jacket** Bowls with or without water jacket are available
- Blade rotation speed** Blade A: 15 to 235 rpm  
Blade B: 30 to 470 rpm

### Extruder Attachment

- Standard die plates** One 1 mm diameter standard density and one 1 mm high density dies are included as standard
- Diameter options** From 0.5 to 3.0 mm holes are available
- Variable density dies** Additional high density and low density dies are available.  
Discuss your requirement with us.
- Screws** Two different interchangeable screw designs that offer you the opportunity to work with a wider range of experimental materials.
- Screw speed** 15 to 235 rpm
- Product output** Extrusion pressure can be modified using additional dies

### Spheronizer attachment

- Processing capacity** 10 to 100 g wet weight  
(formulation dependent)
- Speed range** 300 to 4,600 rpm
- Disc** Different disc patterns are available. Ask for details

Discuss your project with us so that we can advise you on the most appropriate configuration for you and plan for what you are trying to achieve.

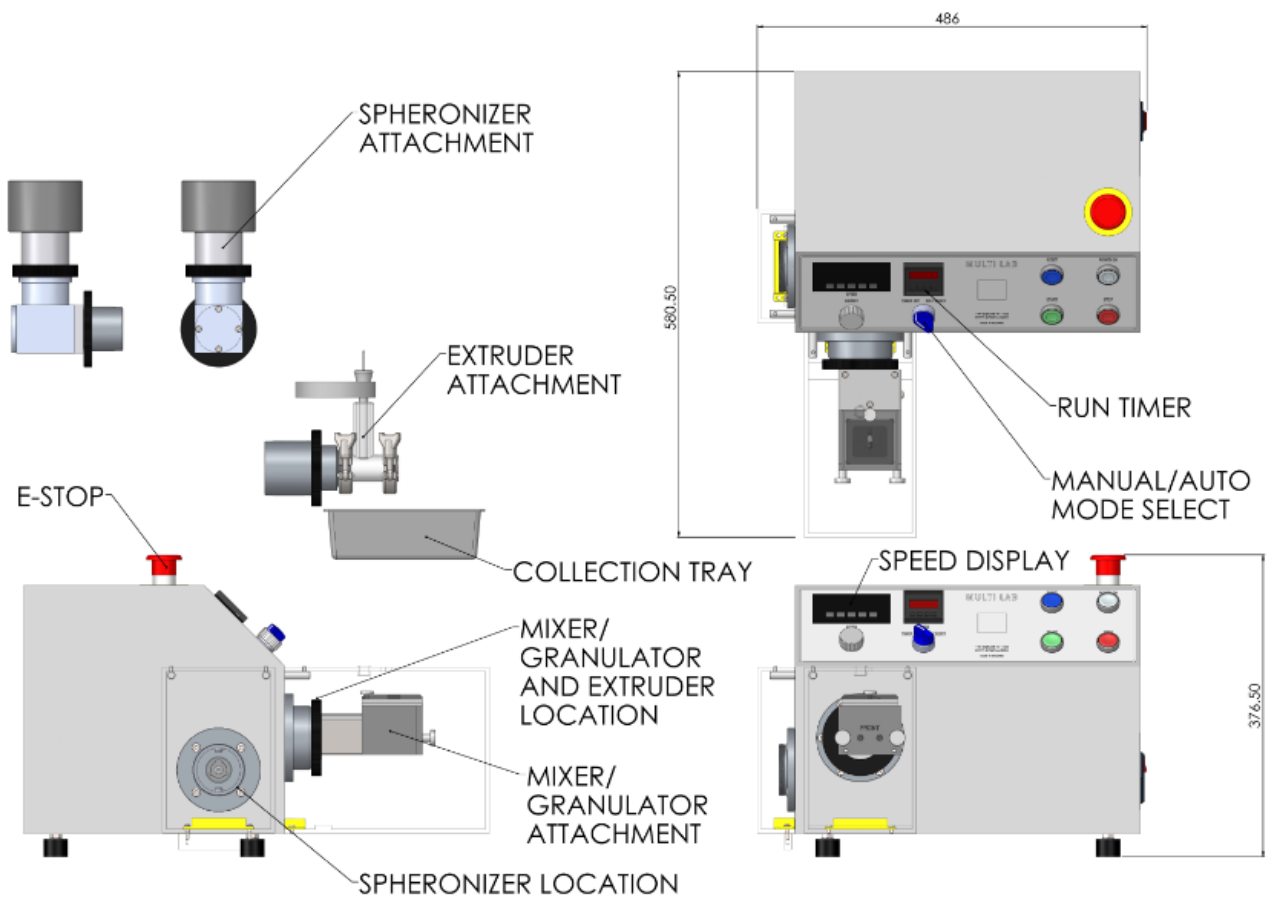
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General arrangement diagram  
 Base unit weight approximately 35kg



**TALK TO US**

Please call us without obligation

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