

# CALEVA MULTI-LAB

ONE MACHINE, THREE PROCESSES



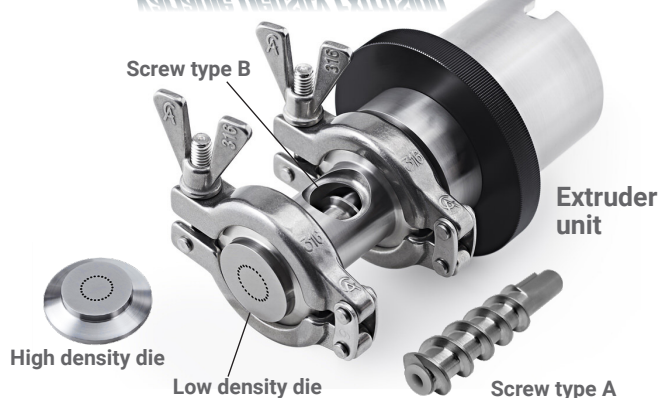
BATCHES FROM 10 TO 50 G\*  
FOR TEACHING AND RESEARCH

\*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 50 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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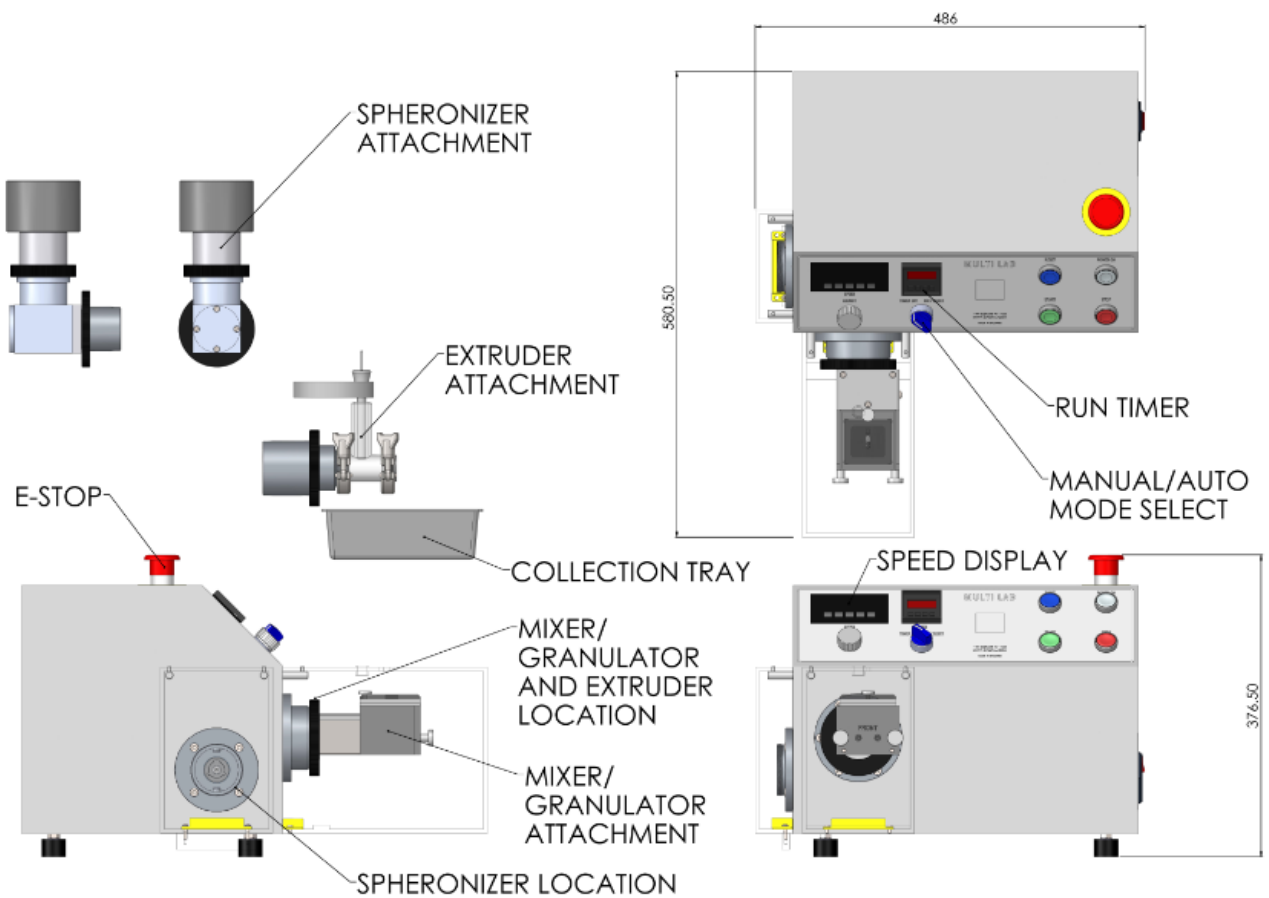
## CALEVA MULTI-LAB FOR TEACHING AND RESEARCH. ONE MACHINE, THREE PROCESSES

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### CALEVA MULTI-LAB

General arrangement diagram

Base unit weight approximately 35kg



## TALK TO US

Please call us without obligation

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