



## Caleva Mini-Granulator / Mixer

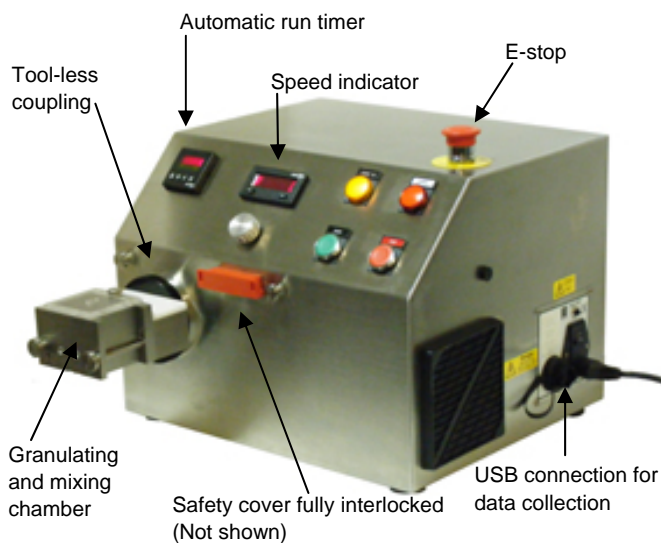
**An efficient laboratory bench top granulator / mixer / blender for very small batch sizes.**

The efficient mixing of small batches is often required within processes found in many industries. The Caleva Mini-Mixer is suitable bench-top equipment for many material types.

The Caleva Mini-Mixer is a highly effective solution for many industries (including pharmaceutical - GLP compatible, US FDA food approved plastic or 316ss product contact parts) where work with small batches is required.

### Small Laboratory Mixer:

- Unique Caleva design. Twin blades contra-rotating at different speeds to give a highly efficient mixing system.
- Batch size (material and material type dependent) from 10 to 50 grams.



### Main uses

**Typical applications already tested include:**

- Powder granulation with small quantities of liquid.
- Additional liquid addition to existing wet granulations
- Mixing liquid with dry powder to form wet granulations, paste or slurries
- Blending small batches of powder
- Mixing batches of slurry or cream to an already existing slurry or cream

### Key Points

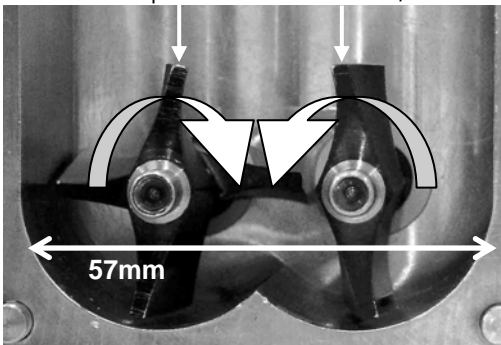
- Highly efficient mixing and blending of small quantities
- Works effectively with ...
  - ⇒ Powders
  - ⇒ Granulations
  - ⇒ Creams
  - ⇒ Slurries
- Rapid in action
- Dastator™ compatible to record
  - ⇒ Real time RPM
  - ⇒ Total number of revolutions
  - ⇒ Real time power consumption
  - ⇒ Total power consumption
  - ⇒ Product temperature
- Automatic timer and variable speed to allow standardization of mixing
- Cost effective

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[www.caleva.com](http://www.caleva.com)

# Caleva Mini-Mixer

## Blade Mechanism

Primary "split" blade. Standard speed  
Secondary blade. Double speed.



Contra rotating blades at different speeds.

## Granulation



Granulation of small batches such as this 30g sample are easily completed.

## Watch videos of the efficient mixing action.....

Granulation, Powder mixing, Liquid mixing, Paste blending: - Follow the links on the following page...

[http://www.caleva.com/mini\\_laboratory\\_high-shear\\_mixer\\_granulator.htm](http://www.caleva.com/mini_laboratory_high-shear_mixer_granulator.htm)

## About Us...

Caleva Process Solutions is a British company who design, manufacture and supply (world-wide) equipment for formulation and process R&D, product processing and production in the pharmaceutical and allied industries.

Talk to us (#44 1258 47 11 22) and discover if we can help you.



## Configuration and Control

### Standard Unit

Size: 44x53x35 cm  
Weight: Approx 35 kg  
Cabinet: 304 ss  
Contact parts: US-FDA approved plastic or 316 ss

- Primary "split" blade mixing speed control and display
- Secondary mixing blade at 2x the speed of the primary blade
- Operator variable mixing speed
- 250 W motor
- Feeder inlet for addition of material to the mix during processing
- On/Off switch
- Automatic run timer with reverse blade run option
- Digital speed indicator
- Safety interlocks
- E-Stop

### Datastor Unit

As above but with the following addition:-

- Additional option to plug into your computer (via usb) and record and show in real time:-
  - ⇒Product temperature in the mixing bowl (infra-red remote sensor)
  - ⇒Primary blade rpm and total revolutions
  - ⇒Power usage (real time and total power used are recorded)
- Data can be stored and printed as a one page summary for permanent hard copy record keeping.
- Data is also stored electronically in the attached computer.

## Operational Requirements

A single phase electricity supply is the only requirement for the standard machine. The Caleva Mini-Mixer can be made to suit your local

requirements. If you have any questions or special requirements please contact us for advice without any obligation.

## Output and Productivity

The achievable throughput is dependent on the properties of the material being mixed, the time required in the mixer and

the optimum batch size. A mixing time of a few minutes is generally sufficient

## Available Options

Few options are required for this equipment according to the needs of your products. Among the options available are:-

- Water jacket for heating or cooling

the mixing bowl to allow your process to run at a controlled temperature

- A half size bowl and blade kit for even smaller samples

Discuss with us if you have specific needs



The Caleva Mini Granulator / Mixer attached to a laptop PC running the Datastor (TM) software to record operational parameters automatically.

**Discuss your program and requirement with us. We are happy to advise you without any obligation. Email: [info@caleva.co.uk](mailto:info@caleva.co.uk)**

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