



Caleva Mini-Granulator / Mixer

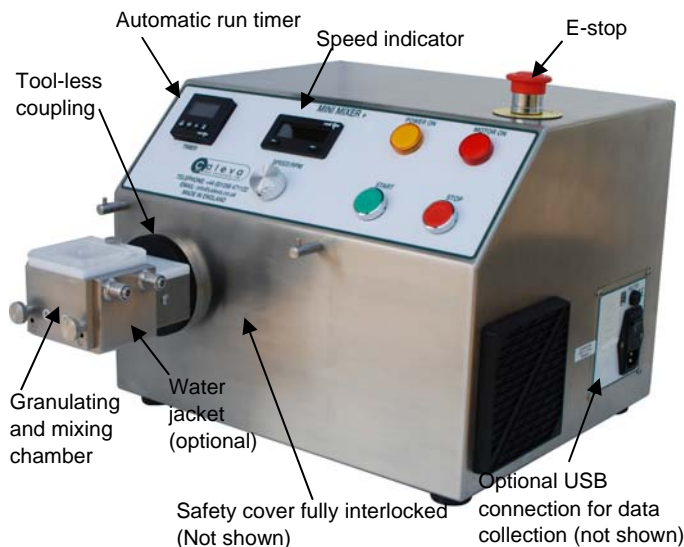
An efficient laboratory bench top granulator / mixer / blender for very small batch sizes.

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.



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

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

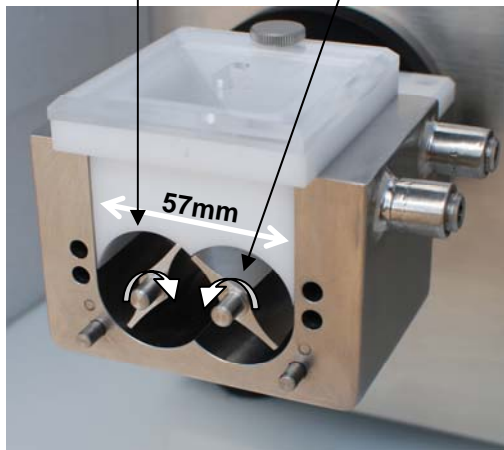
Visit us on the web at
www.caleva.com

Caleva Mini-Mixer

Blade Mechanism

Contra rotating blades at different speeds.

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



Can be used with or without supplied insert to optionally further reduce batch sizes for some products. Suitability is dependant on product characteristics

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

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 specific

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 smaller samples sizes

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



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