# **CALEVA MIXER TORQUE** RHEOMETER

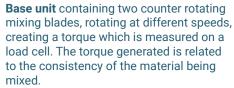


## CHARACTERIZE YOUR WET MASS SPEED UP PRODUCT DEVELOPMENT **FACILITATE QUALITY CONTROL**

#### CHARACTERIZE THE CONSISTENCY OF YOUR WET MASS

The Units

The Caleva Mixer Torque Rheometer with automatic binder addition pump and laptop with necessary software



Automatic binder unit so that trials can proceed without operator intervention Laptop PC included with required software





#### Operational and data collection

#### Multiple addition (MA)

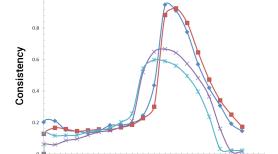
Multiple addition is used to determine an estimate for the optimum binder ratio for a formulation

#### Variable mix time (VMT)

Used to assess the cumulative effect of mix time and mix intensity on a sample Consistency (C)

Direct measurement of small samples generally taken from a larger batch Standard torque range from 0 to 5 Nm Data generated can be retrieved as "csv" files for import to your PC/spreadsheet/ database

An example of data collection from multiple addition trials with the same formulation processed under different temperature conditions



Liquid binder ratio (ml/q)

#### Other data

Approximately 35 kg Weight **Cabinet** 

670 mm d x 400 mm w x 400 mm h. Brushed 304 stainless steel

Space required Space for a laptop computer is also required.

**Product contact** Brushed 316L stainless steel and

approved plastics

**Batch Size** Generally 15 to 40 g (product and trial type

dependant).

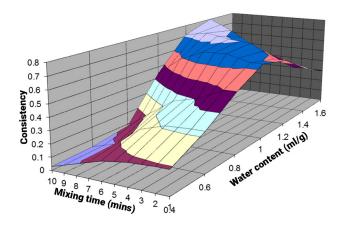
A reduced half size bowl is available for

use with smaller samples

**Power requirement Primary shaft** 

230V, 50Hz, 6.3A or 110V, 50Hz, 10A. 1 ph. Rotation speed from 10 rpm to 250 rpm

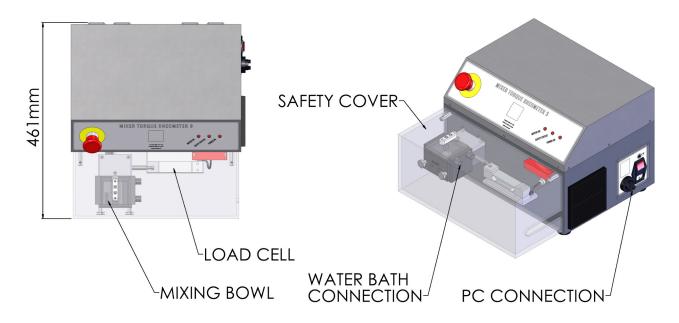
Once a series of experiments have been carried out at various binder ratios a three dimensional plot can be produced (as shown) giving an indication of the torque response of a formulation with respect to both binder ratio and mixing time.



#### **CALEVA**

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General arrangement diagram
Base unit weight approximately 35 kg







## TALK TO US

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