

CALEVA MIXER TORQUE RHEOMETER



TECHNICAL SPECIFICATIONS

CHARACTERIZE YOUR WET MASS
SPEED UP PRODUCT DEVELOPMENT
FACILITATE QUALITY CONTROL

CHARACTERIZE THE CONSISTENCY OF YOUR WET MASS

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



The Units

Base unit containing two counter rotating mixing blades, rotating at different speeds, creating a torque which is measured on a load cell. The torque generated is related to the consistency of the material being mixed.

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

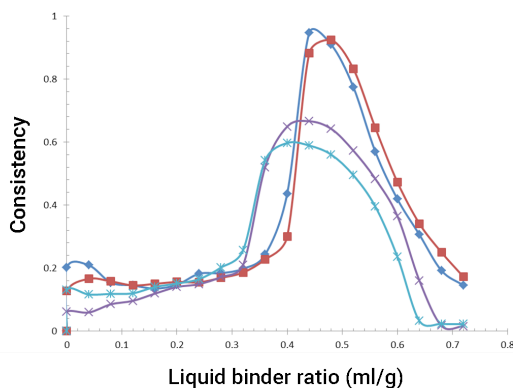
Consistency (C)

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



Other data

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

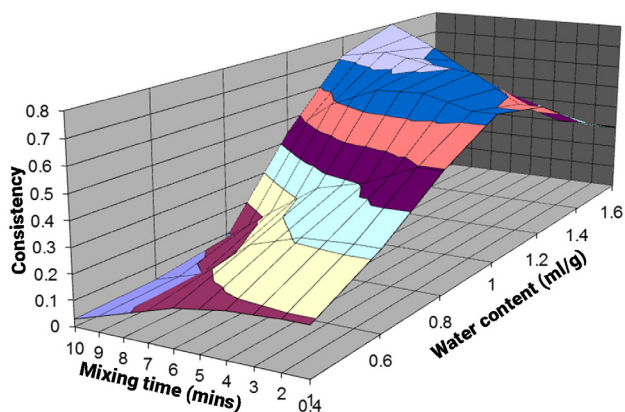
Power requirement

230V, 50Hz, 6.3A or 110V, 50Hz, 10A. 1 ph.

Primary shaft

Rotation speed from 10 rpm to 250 rpm

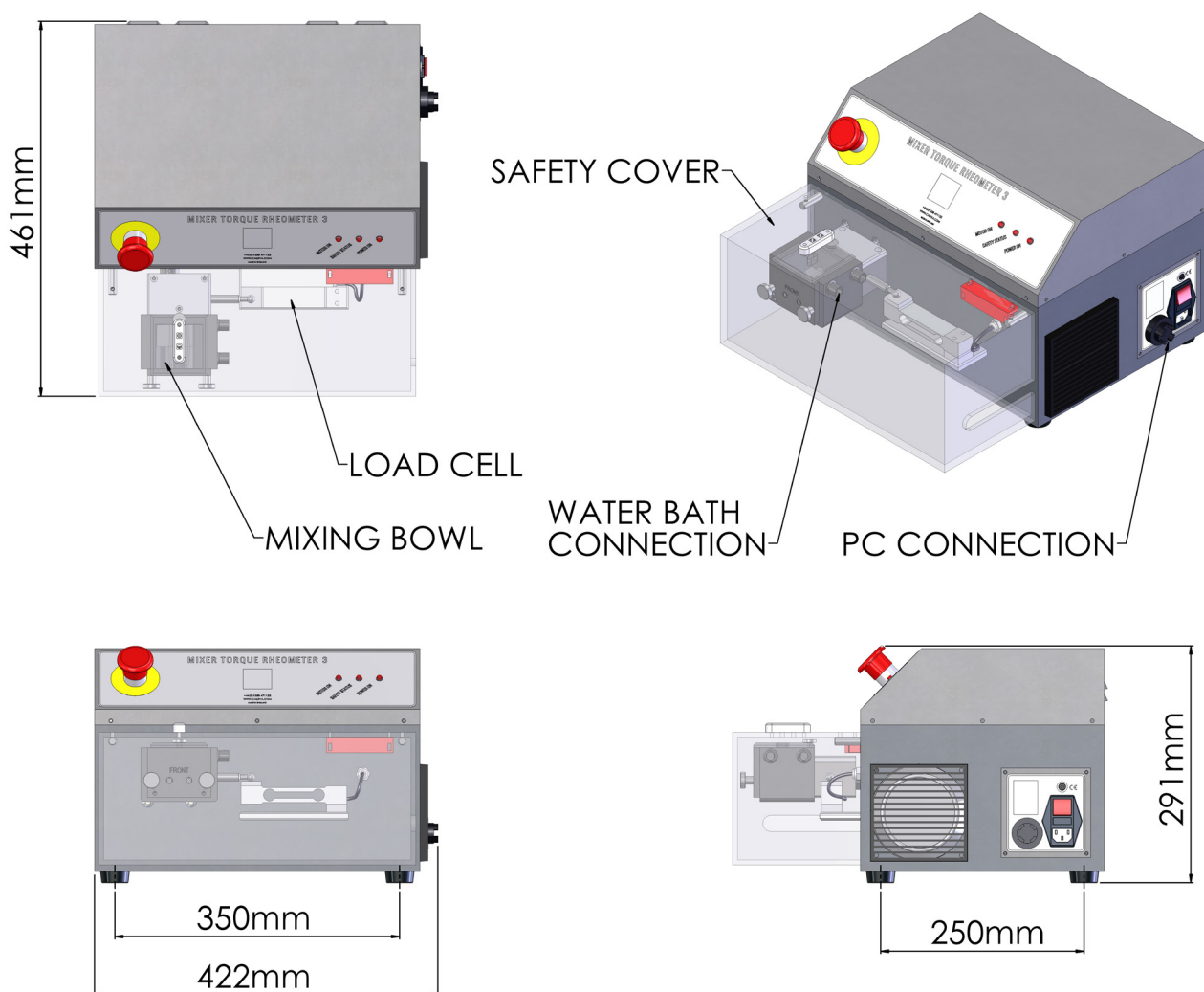
Once a series of experiments have been carried out at various binder ratios a three dimensional plot can be produced (as shown) giving an indication of the torque response of a formulation with respect to both binder ratio and mixing time.



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General arrangement diagram
 Base unit weight approximately 35 kg



TALK TO US

Please call us without obligation

+44 (0) 1258 471122

info@caleva.com



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