CHARACTERIZE THE CONSISTENCY OF YOUR WET MASS

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

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.
CALEVA MIXER TORQUE RHEOMETER

General arrangement diagram
Base unit weight approximately 35 kg

TALK TO US
Please call us without obligation

+44 (0) 1258 471122
info@caleva.com