



Measurement Control Corporation
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Shear Rheometer

A unique dynamic high shear bench-top tester

Equipment: Speed-controlled 0.4 liter capacity Couette cell with uniformly spaced shear pins

Shear parameters: Shear Intensity (1 – 245 reciprocal seconds)
Total shear magnitude (up to 15,000 total shear units)

Output: small samples prepared for multiple compositions for a grid of shear intensity and duration values

- A brain child of Professor Fernando Muzzio, this “controlled shear” apparatus was developed by MCC in close cooperation with Rutgers University
- It is fully instrumented for measurements of torque, speed, normal pressure and temperature
- Designed to analyze the role of shear on the lubrication process and on the resulting mechanical properties of drug products
 - Study the effect of shear on lubrication
 - Study the effect of shear on tapped density
 - Study the effect of shear on flow
 - Analyze dilation and flow properties for pure materials and mixtures
 - Study granulation lubrication
 - Study agglomerate breakup

