Product name:	Product code:
Powder Shear Cell Tester for Hopper Design	CMI-IND-0328



Description

Annular or translational shear cell measuring flow function, cohesion and wall friction of bulk powders. Used to design silos, hoppers and feeders in chemical and food plants.

Technical specification

Wall materials	SS 304, mild steel plates
Power	230 V AC, 50 Hz
Standards	ASTM D6128, ASTM D6773

Standard Accessories

- Shear lid
- Wall friction coupons
- Levelling tool

The powder is consolidated under a normal load and then sheared to failure at a preset speed. The yield loci obtained give flow function coefficient and the minimum hopper outlet size for reliable flow.

Features

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- Annular shear cell with porous frictional lid
- Normal load 0.2 to 20 kPa
- Automatic consolidation sequence
- Wall friction lid options
- Flow function plot in software

Technical Specifications

Cell volume	approx. 230 ml
Normal stress	0.2 to 20 kPa
Torque capacity	10 N-m
Shear rate	0.01 to 5 mm/min
Torque accuracy	+/-0.5% FS