Product name:	Product code:
Digital Foam Indentation Force Deflection Tester	CMI-IND-0501

Description

Computer-controlled indentation tester that presses a circular indenter into flexible foam to measure the force needed at 25, 40 and 65 percent deflection. Used in mattress, cushion and automotive seat foam quality control per ASTM D3574 and ISO 2439.

Technical specification

Standard Accessories

- 200 mm indenter foot
- Perforated bed platen
- Calibration weights

The tester drives a 200 mm diameter indenter foot into a foam block at constant speed while a load cell records force against deflection. Support factor and hardness are computed automatically for batch comparison. It is a core instrument in furniture and bedding foam laboratories.

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Features

- Motor driven crosshead with constant 50 mm/min speed
- Interchangeable 323 cm2 circular indenter foot
- Load cell with digital force display and PC software
- Automatic calculation of IFD at 25, 40 and 65 percent and support factor
- Adjustable limit switches protect load cell

Technical Specifications

Test standards	ASTM D3574 Test B1, ISO 2439, IS 7888
Load capacity	1000 N (optional 2000 N)
Load accuracy	+/-1 percent of reading
Indenter	200 mm dia flat circular foot, 323 cm2
Test speed	50 +/-5 mm/min, 500 mm/min for pre-flex
Max specimen size	450 x 450 x 100 mm
Display	Digital LCD with PC software
Power supply	230 V AC, 50 Hz, single phase