Product name:	Product code:
Universal Tensile Tester for Molded Plastic Dumbbell Specimens	CMI-IND-0210

Description

Computerized tensile and flexural testing machine for injection molded dumbbell bars. Gives tensile strength, modulus and elongation of engineering plastics for molders and polymer QC laboratories in automotive and appliance supply chains.

Technical specification

Power	230 V AC, 50 Hz, 1 phase

Standard Accessories

- Wedge grips
- Three-point bend fixture
- Calibration certificate sample set
- Software CD

A two-column load frame drives the crosshead at a set speed while a load cell records force. A clip-on extensometer measures strain on the gauge length of Type I dumbbells. The same machine runs three-point flexural tests using a bending fixture.

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Features

- Load cell capacities 5 kN to 50 kN
- Speed range 0.5 to 500 mm/min
- Servo motor drive with ball screw
- Pneumatic or wedge grips for dumbbells
- PC software with stress-strain curves

Technical Specifications

Test Standards	ASTM D638, ASTM D790, ISO 527, ISO 178
Capacity	10 kN (optional 5 to 50 kN)
Load Accuracy	+/- 0.5 % of reading from 2 % to 100 %
Crosshead Speed	0.5 to 500 mm/min
Test Space	Approx 750 mm vertical
Extensometer	50 mm gauge, clip-on
Data Output	USB to PC