CEMENT > STRENGTH

CEMENT COMPRESSION and FLEXURAL TESTING MACHINE

Code : C001



- The Cement Compression and Flexure Tester is designed for precise determination of compressive and flexural strength of cement and mortar specimens, ensuring compliance with international testing standards.
- Equipped with a robust two-column frame and advanced control systems, the tester provides reliable and repeatable results for both cube and prism specimens.
- The integrated TFT Data Acquisition and Control System offers real-time monitoring, automatic load rate control, and user-friendly calibration features, enhancing testing efficiency.
- Automatic test termination upon specimen failure ensures operator safety and prevents equipment damage, aligning with best laboratory practices.
- Versatile in application, the tester accommodates various specimen sizes, including 40 mm and 50 mm cubes, as well as 40 x 40 x 160 mm prisms, catering to diverse testing requirements.

STANDARDS

ASTM C109 • ASTM C348 • ASTM C349 • ASTM D1194 • EN 196-1 • EN 1015-11 • EN 13892-2 • BS 4550 • EN ISO 13503-2

TECHNICAL SPECIFICATIONS

- Frame Type: Rigid 2-Column
- Test Types: Compression and Flexure
- Operation: Full Automatic
- Control System: Digital Touch Screen Controlling Unit
- Load Rate Control: Automatic, based on specimen dimensions
- Test Termination: Automatic upon specimen failure
- Display: Real-time graph with maximum load and stress indicators
- Calibration: User-friendly, password protected
- Power Supply: 220–240 V / 50–60 Hz

AVAILABLE MODELS

- Standard Capacity, with Pressure Transducer:
  - Compression: 250 kN (25 ton)
  - Flexure: 15 kN (1.5 ton)
- High Capacity, with Pressure Transducer:
  - Compression: 600 kN (60 ton)
  - Flexure: 25 kN (2.5 ton)
- High Capacity, with Loadcell:
  - Compression: 600 kN (60 ton)
  - Flexure: 25 kN (2.5 ton)

EQUIPPED WITH

- Solenoid valve for piston/test type selection
- Digital Touch Screen Controlling Unit

SUPPLIED WITH

- Compression test fixtures for 40 mm or 50 mm cube specimens
- Flexure test fixture for 40 x 40 x 160 mm prism specimens

ORDERING INFORMATION

Item Name	Item Code
CEMENT COMPRESSION and FLEXURE TESTER - 15/250 kN	C001A25XU
CEMENT COMPRESSION and FLEXURE TESTER - 25/600 kN	C001A60XU