

CEMENT COMPRESSION and FLEXURE TESTER (C001)

Category: Cement



Product Code: C001

Category: CEMENT

Sub-Category: STRENGTH

- 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 • EN 196-1 • EN 1015-11 • EN 13892-2 • EN 13454-2 • EN 459-2 • BS 4550 • BS 4551 • EN ISO 13503-2 • EN 13286-41 • EN 933-5 • ASTM D1194 • BS 3892 • EN 12504-1 • EN 13813 • EN 13892-3 • EN 993-5 • EN 12390-4 • ASTM E74

TECHNICAL SPECIFICATIONS

- Frame Type: Rigid 2-Column
- Test Types: Compression and Flexure
- Operation: Fully Automatic
- Control System: TFT Data Acquisition and Control
- 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

EQUIPPED WITH

- Solenoid valve for piston/test type selection
- TFT Data Acquisition and Control System

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	Code
DUCTILITY TESTER with COOLING UNIT [60 Hz]	A440C00XK
DUCTILITY TESTER with COOLING UNIT	A440C00XT
CEMENT COMPRESSION and FLEXURE TESTER - TFT	C001A25XU
HIGH-CAPACITY CEMENT COMPRESSION and FLEXURE TESTER - TFT	C001A60XU

CEMENT COMPRESSION TESTER - 250 kN	C002A25XU
CEMENT COMPRESSION TESTER - 600 kN	C002A60XU
COMPRESSION JIG - 40 mm	C003P001H
COMPRESSION JIG - 50 mm	C003P002H
FLEXURE JIG	C003P003H
COMPRESSION JIG - 70.7 mm	C003P004H
TRANSVERSE DEFORMATION TESTER - 250 N	C004A250U
HIGH-CAPACITY CEMENT COMPRESSION and FLEXURE TESTER (Loadcell Model)	C005A60XU

Keywords: cement compression tester, flexure strength testing, mortar testing equipment, ASTM C109, EN 196-1, cement testing machine, construction materials testing, laboratory equipment, standards-compliant tester, ALFA Testing Equipment