

Cement Compression and Flexural Machine

DESCRIPTION:

The Cement Compression and Flexural Machine 25/250 kN is Fully Automatic and has been designed for testing the compression on the 50x50x50mm cube molds, 40x40mm and the flexural on the 40.1x40x160 mm prism molds according to the related standards.

The machine consists of a very rigid two column frame with a double test chamber, automatic closed-loop controlled hydraulic power pack and an LCD graphic digital control readout unit. The very silent power pack can load a specimen between 1 kN/sec to 20 kN/sec.

On the dual-stage pump, a high delivery low-pressure pump is used for a rapid approach and low delivery high-pressure radial piston pump is used for test execution.

On all power packs, the maximum pressure valve is used to avoid machine overloading.

On both frames, the load is measured by the load cell to get accurate test results. The machine is supplied with safety doors and can test samples up to 250kN.



EN 196-1, 196-3, 459-2, 1015-11, 13454-2,
ASTM C109, C348, C349, C305, BS 3892-1, 455-1,

MAIN FEATURES:

- Can control 2 frames
- Real time display of test graph.
- Multi-language support
- Different unit system selection; kN, Ton and lb
- Test result visualization and memory management interface

The LCD graphics data acquisition and controls system is designed to control the machine and processing of data from load cells.

The digital graphic display allows real-time load vs time graph. At the end of the test cycle, the results can be stored in memory (up to 250 test results) or downloaded to a PC using the software format.

TECHNICAL SPECIFICATIONS:

Product Code	CM 0157	CM 0158
Test Type	Full-Auto compression	Semi-Auto compression
Capacity	250 kN	250 kN
Class 1 Measuring range	25 to 250 kN	25 to 250 kN
The roughness value for texture of loading and auxiliary platens	≤ 3.2 μm	≤ 3.2 μm
Lower Platen dimensions	165 mm	165 mm
Upper Platen dimensions	165 mm	165 mm
Maximum vertical clearance between platens	263 mm	263 mm
Piston diameter	160 mm	160 mm
Maximum piston movement	50 mm	50 mm
Horizontal clearance	300 mm	300 mm
Power	550 W	550 W
Oil capacity	20 L	20 L
Maximum working pressure	125 bar	125 bar
Rapid approach rate	50 mm/min	50 mm/min
Dimensions	760x500x1650 mm	760x500x1650 mm
Weight	395 kg	250 kg