

MACHINES FOR FLEXURE AND COMPRESSION STRENGTH TESTS

Standards *EN 196-1, ASTM C 109*

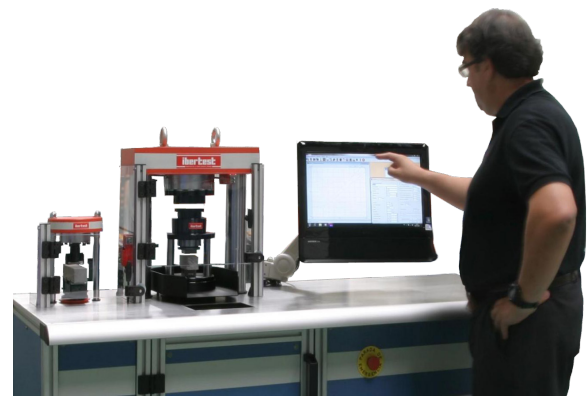
AUTOTEST MD2 W MACHINES

Automatic, computerized, servohydraulic machine for testing flexural and compressive strength of cement specimens, with two independent testing frameworks, external microprocessed MD2 electronics and computerized management of tests.

- › Class 1, according to EN-ISO 7500-1.
- › Flexural testing frame with max. force capacity of 10, 15 or 20 kN (depending on version).
- › High rigidity compression testing frame with max. force capacity of 200, 300 or 400 kN (depending on version). Base plate and upper crosshead made of steel. Columns made of chrome plated steel.
- › Independent load cell in each test frame, for high precision and repeatability force measurement.
- › Single scale (autoscale) from 2% to 100% of the capacity of each load cell.
- › Automatic control of test procedure using last generation electronic microprocessor (133 MHz) module MD2.
- › Frequency of closed-loop control: up to 1 kHz (1000 times per second).
- › Resolution: $\pm 180,000$ real points in each channel.
- › Sampling rate: up to 1 kHz per channel. Are channels are synchronous.
- › Test programming and data collection with the IBERTEST WinTest32 exclusive software.



AUTOTEST machine for compression and flexural testing



Using WinTest32 software with touch-screen PC computer

VERSION CIB MD2 W

When applying ASTM method for strength test, most laboratories perform only compression tests on cubic specimens, thus they have no need to perform bending tests.

For those users who only need a compression testing machine, IBERTEST offers a simplified AUTOTEST machine, in which the flexural workframe has been removed.

In this case, AUTOTEST machines are renamed and become into a CIB machine.

PLEASE ASK FOR SPECIFIC BROCHURE



When only compression is needed CIB version is the wiser choice

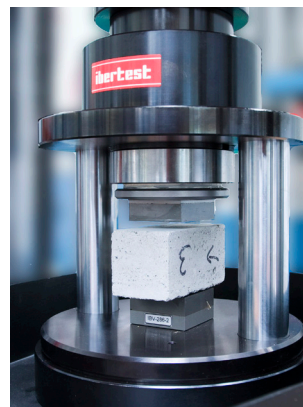
ACCESSORIES FOR FLEXURE AND COMPRESSION STRENGTH TESTS

Standards *EN 196-1, ASTM C 109*

STANDARD COMPRESION DEVICE

Ref. 111-100557

- › Designed to be positioned between the plates of a compression testing machine with suitable sensitivity and force capacity.
- › Body entirely made of steel, with 2 columns. Slidding assembly with spring-retrieval system for automatic return to its initial position, with no effect on the strength results.
- › Guidance system to ensure parallelism and linear approximation between the jig plates under load, without spinning.
- › The upper plate of the jig is mounted under a spherical seating ball.



111-100557

Optional accessories for compression devices

- › Centring device, with manual drive for quick and right positioning of the specimen on the plate.
- › Certificate of verified surface flatness and roughness (texture) of the tungsten carbide plates and accomplishing with all the requirements of standard EN 196-1, issued by the IBERTEST metrological laboratory with verified instruments, and traceable to international standards.

FLEXURAL DEVICE

Ref. 111-100559

With loading roller and supporting rollers for breaking the specimens in flexure of 40 x 40 x 160 mm.



111-100559

| Specifications | Compression jig | Flexural device |
|--------------------------|--|---|
| Clearance between plates | 45 mm | 45 mm |
| Loading elements | Square compression platens made in tungsten carbide. 40 mm wide x 40 mm long Surface: 600 mm ² Platens thickness: 11 mm | Steel rollers for support and loading. Space between supporting rollers: 100 mm Length of rollers: 49 mm Diameter of rollers: 10 mm All rollers rotate freely around its axis. One supporting roller and the load roller are capable to tilt |
| Stroke | 15 mm | 15 mm |
| Load plate diameter | Ø 100 mm | Ø 100 mm |
| Base plate diameter | Ø 170 mm | Ø 170 mm |
| Total height | 220 mm | 220 mm |
| Net weight | 11,5 kg | 11,4 kg |