



ADR-Auto 250 Compression Machine

ASTM C-109; BS-3892; AS-2350; EN-196.

- **250 kN (56,000 lbf.) maximum capacity.**
- **Calibration accuracy to ASTM E-4 and BS-1610 Grade 1.0.**
- **Automatic loading cycle.**
- **Optional 25 kN (5,600 lbf.) low capacity frame.**
- **Tests a wide variety of specimen sizes.**
- **Tests mortar, lime, cement and Fly Ash.**

The new ADR-Auto 250 machine provides consistent automatic testing of a wide range of specimens. The machine uses a standard ELE 250 kN (56,000 lbf.) load frame and ADR-Auto power pack which incorporates a number of features from the ELE AutoTest Control System.

The machine is supplied with a standard platen mounted on the load frame, which is designed to accept a range of jig assemblies and distance pieces that must be ordered separately to suit the sample dimensions being tested. The test capability of the machine can be extended by the use of an optional 25 kN (5,600 lbf.) load frame for low strength compression or flexural testing.

The automatic loading cycle is controlled by a closed-loop microprocessor hydraulic system. This is incorporated with the display in the extended power pack attached to the load frame. A serial output port is built into the system, enabling test data to be stored in memory (up to 500 test results) for subsequent downloading to PC or suitable printer.

Specifications

Capacity.	250 kN (56,000 lbf.).
Vertical Clearance.	230 mm (9") maximum.
Horizontal Clearance.	225 mm (8.8") maximum.
Platens.	150 mm (6") diam.
Ram Travel.	15 mm (0.6") maximum.
Measurement Units.	kN, lbf. or kgf. (selectable).
Accuracy.	Better than $\pm 1\%$ over calibrated range.
Display.	Backlit LCD 105 x 31 mm (4.1 x 1.2").
Maximum Load.	Held until reset.
Output.	Serial RS232C.
Rated Power.	1,600 W.
Overall Dimensions.	520 x 850 x 1,255 mm (20.5 x 33.5 x 49.5").
Weight.	Net 1,875 lbs. (850 kg).

Ordering Information

Note: Compression Frame Jig Assembly and Cube Platens not included; order separately.

- EI39-6150/02.** ADR-Auto 250 Compression Machine. 110-120VAC, 60 Hz, 1 ϕ .
- EI39-6150/06.** ADR-Auto 250 Compression Machine. 220-240VAC, 60 Hz, 1 ϕ .
- EI39-6150/01.** ADR-Auto 250 Compression Machine. 220-240VAC, 50 Hz, 1 ϕ .
- EI39-6155/02.** ADR-Auto 250/25 Compression Machine. 110-120VAC, 60 Hz, 1 ϕ . Supplied with additional 25 kN (5,600 lbf.) capacity frame for low strength compression or flexural testing.
- EI39-6155/06.** ADR-Auto 250/25 Compression Machine. 220-240VAC, 60 Hz, 1 ϕ . Supplied with additional 25 kN (5,600 lbf.) capacity frame for low strength compression or flexural testing.
- EI39-6155/01.** ADR-Auto 250/25 Compression Machine. 220-240VAC, 50 Hz, 1 ϕ . Supplied with additional 25 kN (5,600 lbf.) capacity frame for low strength compression or flexural testing.

Accessories

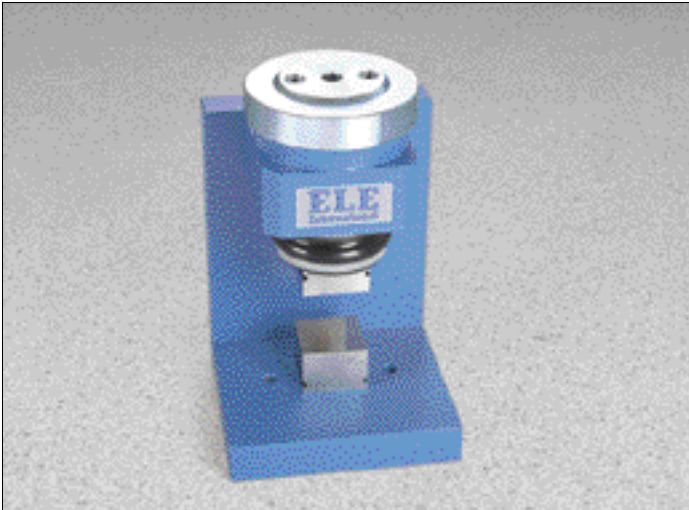
- EI39-5600.** Compression Frame Jig Assembly.
- EI39-5600/10.** 40 mm Cube Platen Set. EN-196.
- EI39-5600/11.** 2" Cube Platen Set. ASTM C-109.
- EI39-5600/12.** 50 mm Cube Platen Set. ASTM C-109.
- EI39-6160.** Flexural Jig Assembly. For testing 40 x 40 x 160 mm prisms.

Note: The following Distance Pieces are required for testing without the compression jig.

- EI39-6205.** Distance Piece. 60 mm (2.36") height, for testing 40 mm samples.
- EI39-6210.** Distance Piece. 50 mm (1.94") height, for testing 2" or 50 mm samples.
- EI39-6215.** Distance Piece. 30 mm (1.18") height, for testing 70.7 mm samples.

Replacement Parts

- EI39-6220.** Distance Piece. 100 mm (4").



Compression Frame Jig Assembly ASTM C-109; EN 196-1.

This jig assembly is designed for the compression testing of 40 x 40 x 160 mm mortar prisms after breaking in flexure, and for the testing of 50 mm and 2 in. square mortar cubes using the appropriate platens.

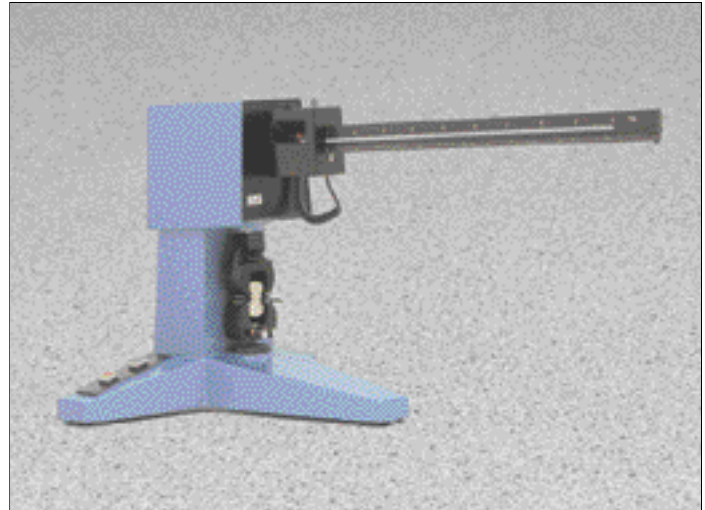
Ordering Information

Note: Compression Jig Assembly shown with platens; not included, order separately.

EI39-5600. Compression Jig Assembly.

Accessories

- EI39-5600/10.** 40 mm Cube Platen Set. Complies with EN-196.
- EI39-5600/11.** 2" Cube Platen Set. Complies with ASTM C-109.
- EI39-5600/12.** 50 mm Cube Platen Set. Complies with ASTM C-109.



10 kN (2,240 lbf.) Flexural/Tensile Testing Machine EN-196-1.

This single lever machine is designed for flexural tests on 40 x 40 x 160 mm mortar prisms and tensile tests on mortar briquettes. The rate of applied loading for flexural testing is to EN-196-1. Load is applied by a weight travelling along the beam at a constant rate, driven by a motor/gearbox. Readings are made by means of a cursor visible through a window in the moving weight. Failure of a specimen triggers a switch mechanism and brings the weight to a halt immediately.

To prevent overloading, a sensor is incorporated in the weight and automatically stops the machine at its maximum capacity of 10 kN (2240 lbf). Supplied without flexural or tensile jaws.

Ordering Information

Note: Shown with Tensile Jaws; not included, order separately.

- EI39-7100/02.** 110-120vAC, 60 Hz, 1Ø.
- EI39-7100/06.** 220-240vAC, 60 Hz, 1Ø.
- EI39-7100/01.** 220-240vAC, 50 Hz, 1Ø.

Accessories

- EI39-7100/10.** Flexural jaws. To accept 40 x 40 x 160 mm mortar prisms.
- EI39-7100/15.** Tensile jaws. For tensile loading of mortar briquettes.



Flexural Jig Assembly

The Flexural Jig Assembly is designed for the flexural testing of 40 x 40 x 160 mm mortar prisms. The frame is supplied with a special ball seating assembly that is attached to the upper roller bearers.

Ordering Information

EI39-6160. Flexural Jig Assembly.