

326 Electromechanical Compression Test Machine

Overview

326 Family Electromechanical Compression Test Machine is an affordable solution to high capacity compression, flexural bend and shear testing applications. With computerized control, this test machine is a cleaner and quieter solution than servohydraulic options on the market today.

This test machine is configured to eliminate unnecessary features and provides the most affordable and easy to use option for many customers. The design makes it easy to change fixtures and specimens with a convenient tabletop working surface.

Applications

Higher force testing applications for metals, sand compaction (fracking), concrete, cubes, bricks, cylinders, asphalt, wood, components, soil specimens and much more.

Standards

- ISO 13503-2 Proppant Crush Test for Hydraulic Fracturing
- ASTM C39 Compression Test of Concrete
- ASTM C99 Modulus of Rupture of Stone
- ASTM C133 Cold Crushing Strength and Modulus of Rupture of Refractories
- ASTM C109 Compression of Concrete and Mortars
- ASTM C880 Flexural Bend test of Stone
- California Test Methods (CTM Series)
- ASTM A370 Flexural Bend of Metals
- ASTM E290 & E190 Guided Bend Test of Metals
- ASTM E9 Compression test of Metals
- ISO 7438 Bend Testing of Metals
- JIS Z2248 Bend Testing of Metals

Closed Loop Controller

- Newton features a logical workflow design that is easy-to-use and improves reporting on material strength and properties.
- The Servocontroller communicates with Newton Software and displays repeatable test results and graphs in real-time
- Automatically calculates a wide variety of material properties and automatically generates a customizable test report.
- The system monitors load readings accurately to better than 0.5%. Exceeds ASTM E4.
- The machine features closed loop control of load, displacement, and strain (extensometers and deflectometers are optional). Data Acquisition Rate up to 5 kHz synchronous on load and strain.

Accessories

- Flexural bend fixtures
- Shear fixtures
- Compression platens – fixed & self-aligning
- Extensometers and deflectometers
- Safety Enclosures



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Specifications

Machine Model	326-300	326-500	326-XXX
Load Capacity	300 kN (67,500 lbf)	500 kN (112,400 lbf)	300 or 500 kN (67,500 or 112,400 lbf)
Maximum Speed	40 mm/min (1.6 ipm)	40 mm/min (1.6 ipm)	Per requirements
Minimum Speed	0.05 mm/min (0.002 ipm)	0.05 mm/min (0.002 ipm)	Per requirements
Max Compression Height	300 mm (12 in)	300 mm (12 in)	Per requirements
Total Actuator Travel	100 mm (4 in)	100 mm (4 in)	Per requirements
Compression Platen Diameter	150 mm (6 in)	150 mm (6 in)	Per requirements
Dual Column Clearance	300 mm (12 in)	300 mm (12 in)	Per requirements