DG SERIES - 25/250kN



Dual Mode Semi-Automatic **Compression Testers**

he Model TO-309E-DG-ET Semi-Automatic Compression Tester has a maximum testing capacity of 250kN. It is a dual range testing machine with the availability of a 25kN low capacity load frame as standard that extends the test capability of the machine for low strength compression or flexural testing.

The DG Series features highly robust frames for exceptional stability when testing cylinders or cubes and are made up of three core pieces: the heavy duty load frame, hydraulic pump, and control and display systems.

The large lower bearing block includes a bellows to prevent leaks caused by dust and debris getting into the loading piston. The other advantage of the large bearing block is that it allows for a 10in horizontal entrance opening and plenty of ready access for loading and removing specimens. Additionally, an optional chute enables quick removal of completed specimens and rapid cleaning of the test area.

This series also includes a rapid change platen system to quickly and easily change accessories, quickly switching between cube and beam specimen testing.

The digital display has a straightforward design using a touchscreen LCD display to let operators select the test parameters simply and efficiently. A pace bar graph on the display allows operators to finely tune the loading during the test and, as a further convenience, the display stores up to 200 tests.

Features and benefits

- Dual range maximum 250kN capacity frame with 25kN low capacity fame.
- Meets or exceeds BS EN ISO 7500-1; ASTM E4 specifications.
- Tests cement, mortar, concrete, lime and
- Tests a wide variety of specimen sizes.
- Automatic pace rate control.
- Automatic stress determination and display.
- Interlocked safety doors with mesh window as standard.
- Overload and over-travel safety protection.
- Self-aligning platen with fast accessory change capability.
- Menu-driven interface.
- Automatic data logging.
- Peak load capture and recording.







MODEL TO-309E-DG-ET SPECIFICATIONS		
Capacity	56,000lbf/250kN/25,000kgf	5600lbf/25kN/2500kgf
Maximum horizontal clearance	10in/260mm	9in/230mm
Maximum vertical clearance	15in/390mm	9in/230mm
Platen size	5.5in/140mm	5.5in/140mm
Display resolution	0.01 (kN or lbf)	0.01 (kN or lbf)
Specimen size	40mm, 50mm and 70.6mm cubes	40mm cubes & 40 x 40 x 160mm prisms

Notes:

- 1. Appropriate brick platens can be supplied as an option.
- 2. A set of spacers to suit stated specimen sizes are supplied with the machine.
- 3. These models conform to all relevant European CE Health and Safety Directives EN 50081-1, 580081-1, 73/23/EEC, EN 61010-1.
- 4. Specifications are subject to change without notice.

OPTIONS AND ACCESSORIES

- TO-320-5500 Platen set for 6 x 12in concrete cylinders
- TO-320-5502 Platen set for 4 x 8in concrete cylinders
- TO-320-5504 Platen set for 3 x 6in concrete cylinders
- TO-320-5510 Platen set for 2in cubes
- TO-320-5512 Platen set for 6in cubes
- TO-320-5518 Platen set for blocks up to 12in
- TO-320-5519 Cylindrical specimen caps two caps per set
- **TO-320-5520** Rubber insert for 6in cap with 6o shore A hardness (bag of 10)
- TO-320-5521 Compression frame jig assembly (without platens)
- TO-320-5521/01 50mm square platen set for TO-320-5521
- TO-320-5521/02 2in square platen for TO-320-5521
- TO-320-5521/03 40mm square platens
- TO-320-5522 Flex jig/attachment
- TO-320-5524 Cylindrical specimen cap, 4in diameter
 two per set
- TO-320-5525 Rubber insert for 4in cap with 6o shore A hardness (bag of 1o)

- TO-320-5528 Tensile split strength test attachment
- TO-320-5529 RS232, nine-pin cable
- TO-320-5532 Rectangular platen set for prisms, 475 x 250mm
- **TO-320-5534** Platen set, 165mm dia, with concentric rings in upper platen
- TO-31727-1 Strain measurement attachment
- TO-33101-BS Flexural test frame, 100kN, no pump, using CTM two-way valve
- TO-33101-ASTM Flexural test frame, 100kN, no pump, using CTM two-way valve
- TO-314-LU-SPL 1000kN loading frame for testing hollow prisms-3 stack max.
- TO-320-LU-SPL Prism/block test frame 3000kN, no pump, uses CTM valve
- TO-343 Mold in cast iron for 100mm cube
- TO-344 Mold in cast iron for 150mm cube
- TO-344-20 Mold in cast iron for 200mm cube
- TO-414 Mold in steel for 70.6mm cube
- TO-417 Mold in cast iron for 50mm cube
- TO-417-CI Three-gang mold in cast iron for 50mm cube
- TO-417-3-NB Three-gang mold in Navy Brass for 50mm cubes-per ASTM

SUPPLIED AS STANDARD

- RS232, nine-pin cable
- Five spacers (142, 142, 45, 30 and 20mm)
- Lower platen (150mm diameter)
- Spherical seat with upper platen

ORDERING INFORMATION

- TO-309E-DG-01-ET Semi-automatic compression tester, dual mode, 25/250kN capacity, configured for 110VAC, 60Hz
- TO-309E-DG-02-ET Semi-automatic compression tester, dual mode, 25/250kN capacity, configured for 220VAC, 60Hz
- TO-309E-DG-03-ET Semi-automatic compression tester, dual mode, 25/250kN capacity, configured for 220VAC, 50Hz