

# Industrial Series DX Compression-Only Models

Industrial Series DX Compression-Only Models are designed for high-capacity compression, bend/flex, and shear testing. Featuring a single footprint, these frames are available in capacities of 300 and 600 kN (67,500 and 135,000 lbf). Understanding the critical importance of operator safety, the Instron® DX Models are constructed of high-quality materials, components, and craftsmanship.

### Features and Benefits

- Single compression-only test space design is ideal for compression testing on metals, concrete, and soil specimens
- · Special fixtures available for stabilometer and moisture exudation testing
- · Load frame, hydraulic power supply, and controller combined in a single package saves valuable lab floor space while providing a protective environment for hydraulic and electrical components
- Easy-to-adjust upper crosshead assembly facilitates changing fixtures and specimens
- · Convenient working height and ergonomic controls increase operator productivity and comfort
- · Productivity panel with multiple function keys and displays allows the operator to perform common testing functions and view key test information without returning to the computer
- Powerful, yet user-friendly, materials testing software provides repeatable and reproducible results for simple to sophisticated testing requirements
- Variable pressure power supply provides pressure on demand. reducing heat generation, increasing oil life, and eliminating the need for water cooling
- · Available capacities:
  - 300 kN (67,500 lbf)
  - 600 kN (135,000 lbf)

## Testing Applications

- Asphalt
- · Concrete/Refractory Products Cubes, Cylinders, Bricks
- Metals
- Soil
- Wood
- Components

# Standards Compliance

DX Compression-only Models conform to many international standards, including (but not limited to):

- ASTM A370, C39, C99, C109, C880, D2844, E4, E9, E83, and E290
- CTM (California Test Method) 301, 304, 308, 360, 366, 371, and 373
- ISO 7438
- JIS Z2248



### Accessories

- Bend/Flex and Shear Fixtures
- Compression Platens Plane and Self-Aligning
- Extensometers. Deflectometers
- Safety Enclosures
- Compression Table Extension for Supporting Fixtures (Stabilometer, etc)

Products for Materials Testing

Specifications

600DX

Common	Specifications
COMMON	specifications

Data Acquisition Rate by Software:	
Up to 1 kHz synchronous on load and strain	
Load Measurement Accuracy:	
+ 0.5% of reading down to 1/500 of load	

 $\pm$  0.5% of reading down to 1/500 of load cell capacity.

Strain Measurement Accuracy:

Meets or surpasses the following standards: ASTM E83, ISO 9513, and EN 10002-4

#### Position Measurement Accuracy Standard Encoder:

 $6.35 \ \mu m \ (0.00025 \ in)$  resolution and position accuracy:  $\pm 1\%$  or 0.254 mm (0.01 in) displacement (whichever is greater)

#### High Resolution Encoder:

 $1.27 \ \mu m \ (0.00005 \ in) \ resolution \ and position \ accuracy: \pm 0.5\% \ or \ 0.13 \ mm \ (0.005 \ in) \ displacement \ (whichever \ is \ greater)$ 

### Hydraulic Power Supply Voltage Options:

115V±10%, 1 Ph, 60 Hz, 30 Amp 230V±10%, 1 Ph, 60 Hz, 15 Amp 220V±10%, 1 Ph, 50 Hz, 15 Amp

#### Spare Parts Kits:

W-1338-A 300DX Basic W-1338-B 300DX Recommended W-1338-C 300DX Comprehensive W-1337-A 600DX Basic W-1337-B 600DX Recommended W-1337-C 600DX Comprehensive

\*Minimum Compression Includes Stroke, Measured between Crosshead and Table



300DX



Stabilometer Testing with optional table extension



Concrete Cylinder Testing



Moisture Exudation Testing



4-Point Flexure Testing on Marble



3-Point Flexure Testing on Refractory Brick



Concrete Cube Testing

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