



QL-Fortis Pro 1000

Electro-Hydraulic Universal Testing Machine engineered for compression and tensile testing of construction materials in full conformance with **ASTM and AASHTO standards**. The QL-Fortis Pro 1000 delivers 1,000 kN of controlled force with laboratory-grade precision, making it the definitive platform for structural material qualification in civil and geotechnical testing environments.

Concrete Cylinders

4 in × 8 in and 6 in × 12 in
standard specimen
geometries

Grout Cubes

2 in × 2 in specimens for
masonry grout qualification

Reinforcing Steel

Rebar sizes #3 through #10
in tensile configuration



Specifications

The QL-Fortis Pro 1000 is rated to a **maximum load capacity of 224,800 lbf (1,000 kN)** and maintains a load accuracy of **±0.5% of indicated load** across its operating range. Its measurement window spans from 2% to 100% of full scale, ensuring precise readings from low-load initial cycles through full design-strength failure. Displacement control is programmable from 0.002 to 3.9 in/min (0.05–100 mm/min), supporting both quasi-static and rate-sensitive testing protocols.

Parameter	Specification
Maximum Load Capacity	224,800 lbf (1000 kN)
Load Accuracy	±0.5% of indicated load
Load Measurement Range	2 – 100% of full scale
Maximum Tensile Test Space	27.6 in (700 mm)
Maximum Compression Test Space	23.6 in (600 mm)
Compression Platen Diameter	6.3 in (160 mm)
Displacement Control Range	0.002 – 3.9 in/min (0.05 – 100 mm/min)

1,000kN

Peak Load

Maximum rated force capacity

±0.5%

Load Accuracy

Of indicated load, full range

27.6in

Tensile Space

Maximum jaw opening for tensile specimens

100mm/min

Max Displacement Rate

Upper bound of displacement control

System & Installation Parameters

The QL-Fortis Pro 1000 is designed for professional laboratory installation with a well-defined spatial and electrical footprint. The main machine frame measures **40.6 × 33.5 × 92.5 in (1030 × 850 × 2350 mm)** with an approximate system weight of **7,050 lb (3,200 kg)**, Suitable for installation on standard reinforced laboratory floor. No special foundation required.

The dedicated control cabinet measures 41.7 × 26 × 33.9 in (1060 × 660 × 860 mm) and is positioned independently for operator convenience.

Installation Highlights

- All system components can be transported through a standard **42 in × 82 in doorway access**
- Full on-site assembly capability — no special crane access required during installation
- Single-phase power supply simplifies electrical planning in existing lab facilities

Power & Utility Requirements

Parameter	Specification
Power Supply	208–240 VAC
Phase	Single Phase
Frequency	60 Hz
System Weight	7,050 lb (3,200 kg)
Doorway Clearance	42 in × 82 in

Connect with QuakeLogic

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Corporate Headquarters

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