

 **QUAKELOGIC**

QuakeLogic QL- FortisUTM 300

UNIVERSAL TENSILE & COMPRESSION TESTING SYSTEM



✓ General System Configuration:



- Heavy-Duty Universal Tensile & Compression Testing System
- Servo-Controlled Dual-Column Load Frame Configuration
- Computerized Closed-Loop Testing Control System
- Designed for Educational, Laboratory, Structural, and Material Testing Applications
- Continuous-Duty Industrial Testing Platform
- Rigid High-Strength Load Frame Construction
- Laboratory-Compatible Industrial Design

✓ Mechanical Performance:



- | | |
|------------------------------|-------------------------|
| • Maximum Load Capacity: | • 300 kN (67,000+ lbf) |
| • Testing Modes: | • Tensile & Compression |
| • Load Measurement Accuracy: | • $\pm 1\%$ or Better |
- Closed-Loop Servo Motion Control System
 - Automated Testing Capability
 - Precision Crosshead Positioning Control
 - High-Rigidity Dual-Column Structural Frame
 - Heavy-Duty Ball Screw Drive Assemblies
 - Low-Vibration Precision Motion System

✓ Crosshead & Motion Specifications:

✓	• Minimum Crosshead Stroke:	• 6 Inches
	• Testing Speed Range:	• 0–3 in/min Minimum
	• Maximum Adjustable Crosshead Speed:	• Up to 20 in/min Minimum
	• Adjustable Crosshead Speed Control	
	• Servo-Controlled Speed Regulation System	
	• Smooth Variable-Speed Operation	

✓ Test Space & Specimen Capacity:

✓	• Minimum Clearance Between Columns:	• 14 Inches
	• Tensile Specimen Capacity:	• Up to 24 Inches Length
	• Compression Specimen Capacity:	• Up to 22 Inches Length
	Compatible Specimen Types Include:	
	• Flat Tensile Specimens	• Compression Cylinders
	• Round Tensile Specimens	• Structural Material Samples
	• Threaded Tensile Specimens	• Educational Laboratory Test Specimens

✓ Test Space & Specimen Capacity:



Nominal Specimen Compatibility:

- Rectangular Specimens up to 2 in × 1 in
- Round Specimens up to 1-1/8 in Diameter

✓ Materials Testing Capability:



Designed for Testing Applications Including:

- | | |
|------------------|----------------------------------|
| • Steel | • Stainless Steel |
| • Aluminum | • Brass |
| • Cast Iron | • Magnesium Alloys |
| • Plastics | • Composite Materials |
| • Wood Specimens | • Concrete Compression Cylinders |

✓ ASTM / ISO Testing Compatibility:



Compatible Testing Standards Include:

- ASTM E8 / ASTM E8M - Metal Tensile Testing
- ASTM C39 - Concrete Compression Testing
- ASTM E9 - Compression Testing of Metallic Materials
- ASTM / ISO Calibration Verification Support

✓ Grips & Compression Accessories:



- Heavy-Duty Wedge Grip Tensile Fixtures
- 3/4-10 Threaded Specimen Compatibility
- V-Groove Grip Face Configuration
- Flat & Round Specimen Grip Capability
- Compression Testing Platens Included
- Structural Compression Testing Support

✓ Control System & Software:



- Computerized Testing Software Platform
- Real-Time Load & Displacement Monitoring
- Digital Test Data Acquisition System
- Automatic Test Data Recording
- Real-Time Graphical Test Display
- Stress-Strain Curve Generation
- Computer-Based Test Control Interface
- Automated Test Function Capability
- Laboratory Reporting & Export Functions

✓ Electrical Configuration:



- 480V / 60Hz / 3-Phase U.S. Electrical Configuration
- Industrial Electrical Protection Systems
- Laboratory-Compatible Power Integration
- Alternate Electrical Configurations Available Upon Request

✓ Safety Features:



- Integrated Emergency Stop System
- Operator Safety Protection Features
- Industrial Safety Interlock Functions
- Laboratory & Classroom Safety Configuration
- Protected Motion Control Operation

Advanced Universal Material Testing & Structural Analysis Solutions

Corporate Headquarters

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Executive Support Line

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Direct support for universal testing systems, tensile and compression testing applications, laboratory environments, material analysis operations, and industrial testing requirements.

Strategic Inquiries

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For universal testing systems, tensile and compression testing applications, ASTM-compliant laboratory solutions, and technical support inquiries.

Our Commitment to Universal Material Testing Solutions

Precision Tensile & Compression Testing

Delivering accurate, stable, and servo-controlled material testing capability for tensile, compression, structural evaluation, educational laboratory testing, and industrial quality assurance applications.

Advanced Servo-Controlled Testing Capability

Providing closed-loop servo motion control, precision load regulation, automated testing functionality, and accurate stress-strain analysis capability for demanding laboratory and industrial testing operations.

Dedicated Laboratory Support

Ensuring reliable operational support, testing guidance, calibration assistance, software support, spare parts availability, and long-term laboratory technical service.

Scan to Explore Universal Material Testing Solutions



Explore Universal Tensile & Compression Testing Capabilities and Material Analysis Applications

Discover how the QL-FortisUTM 300 delivers precision tensile and compression testing performance, servo-controlled testing capability, and reliable material analysis solutions for laboratory, educational, and industrial testing environments.

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