



Product Description

A precision Universal Testing Machine designed for accurate mechanical testing of dental and small material specimens. The system provides controlled loading, high-resolution measurement, and advanced data analysis for research and quality evaluation applications.

Technical Specifications

- **Load Capacity:** 1 kN to 10 kN
- **Test Speed Range:** 0.1 to 5 mm/min (typical)
- **Measurement Accuracy:** $\pm 0.5\%$ or better of indicated value
- **Force Measurement:** High-resolution load cell with stable and repeatable output
- **Displacement Measurement:** High-resolution encoder for precise crosshead travel monitoring

Fixtures & Accessories

- Dental-specific testing fixtures including:
 - Shear bond strength jig
 - 3-point bending fixture
 - Chisel-type loading fixture
 - Other compatible dental and material test accessories

Control & Software

- Computer-controlled operation
- High-speed data acquisition system
- Integrated software for real-time display of force, displacement, and stress-strain curves
- Data analysis, storage, and report generation capabilities

Applications

- Dental materials testing (bond strength, flexural strength, compressive testing)
- Research laboratories and academic institutions
- Quality control and material characterization

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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