



Precision Material Testing

- Validate material strength, durability, and reliability.
- Perform tensile, compression, bending, shear, and peel testing.
- Support R&D, compliance testing, and quality assurance programs.
- Scale from compact benchtop testing to high-capacity laboratory applications.

A&D's Universal Testing Machines provide reliable, high-accuracy materials testing solutions for research, product development, compliance testing, and quality control. With systems ranging from compact tabletop force testers to advanced high-capacity material testing instruments, A&D delivers the flexibility, precision, and performance needed to validate material strength, durability, and safety. Engineered to deliver premium measurement accuracy comparable to leading high-end systems at a more accessible price point, A&D UTMs provide exceptional value without compromising performance.



Versatile Applications

Test metals, plastics, composites, textiles, foams, ceramics, adhesives, electronics, medical products, and more.



Precision Measurement

High-accuracy sensors, high-speed sampling, and advanced control systems deliver repeatable results for demanding requirements.



Solutions for Every Lab

Choose from tabletop force testers, compact tension/compression systems, and advanced universal testing machines.

UTM Product Family

RTH Series TENSILON

World-class Class 0.5 material testing system with capacities up to 300kN for the most demanding laboratory applications.



RTI Series TENSILON

Cost-effective and highly accurate universal testing machine for routine materials testing and product validation.



STB Series

Compact tabletop tension & compression tester ideal for laboratories requiring flexibility and precision in a smaller footprint.



MCT Series

Space-saving force tester designed for production, packaging, medical device, electronics, and quality-control applications.



Technical Specifications

Product Family	RTH Series	RTI Series	STB Series	MCT Series
System Type	Universal Testing Machine	Universal Testing Machine	Tension Compression Tester	Force Tester
Max Capacity	Up to 300kN	Up to 10kN	Up to 2.5kN	Up to 500N
Accuracy	Class 0.5	Class 1	Grade 1	Up to $\pm 0.2\%$
Speed Range	0.0001-1500 mm/min	0.001-1500 mm/min	0.05-1000 mm/min	10-300 mm/min
Sampling Rate	0.2 msec	0.2 msec	0.2 msec (TACT)	Included data capture
Interface	Color Touchscreen	Color Touchscreen	Optional Touchscreen	Color Touchscreen
Best For	Advanced materials labs	General-purpose materials testing	Compact tension/compression testing	Benchtop production & QA testing