

Universal Testing Machine

This machine simply utilizes a ball screw linear actuator to apply loads and position with a high level of accuracy. The actuator is mounted to a unique system of linear bearings which allow vertical, horizontal, and diagonal motion. This is our most versatile machine and will quickly become an indispensable part of your laboratory.

Features:

- 26 inches of travel. Positioning accuracy - ± 0.010 ".
- 600 lb load capacity. Equipped with a 1000 lb capacity fatigue rated Interface load cell. Loading accuracy - $\pm 2\%$ (5lbs max)
- Actuator rod can move at up to 1000 inches per minute.
- Quiet servo/preloaded ball screw drive with controlled acceleration and deceleration.
- All load, cycle rate, position and speed adjustments can be made from the computer
- Computer control system comes equipped with data acquisition to track deflection and loads/overloads.
- Easy adjustment of lightweight actuator for application in vertical and horizontal axis.
- Ability to drive loads at angles.
- The software serves as a real-time operating system. This translates into reliability! Complete control without computer glitches.



BIFMA Tests this machine can perform:

X5.1-2002 General Purpose Office Chair Tests

- 5, 6 - Back Strength Tests
- 10 - Tilt Mechanism
- 13 - Arm Strength - Vertical
- 14 - Arm Strength - Horizontal
- 15, 16 - Back Durability Tests - Cyclic
- 18 - Leg Strength
- 19 - Footrest Durability
- 22 - Tablet Arm Static Load
- 23 - Tablet Arm Load Ease

X5.3-2007 Vertical Files Tests

- 8 - Extendible Element Cycle Test

X5.4-2005 Lounge Seating Tests

- *All tests similar to X5.1 for a single seating position
- 11 - Arm Durability Horizontal
- 15 - Structural Durability

X5.5-2008 Desk Table Tests, and similar X5.6 and X5.9 Tests

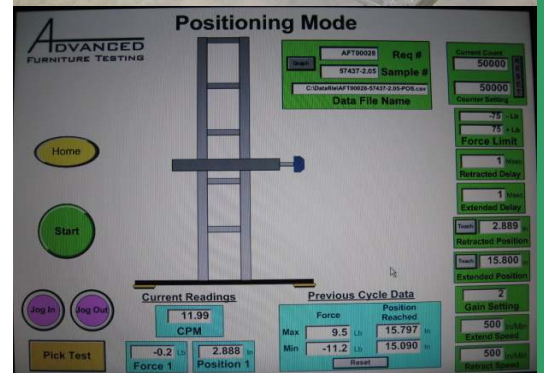
- 8 - Leg Strength Test
- 10.2 - Cycle Test for Extendible Elements Deeper than Wide
- 10.3 - Cycle Test for Extendible Elements Wide than Deep
- 10.4 - Cycle Test for Center/Pencil Drawers
- 16 - Keyboard Support and Input Support Adjustment Tests
- 17.6 - Wear and Fatigue Tests for Hinged, Horizontal Sliding, and Tambour Doors
- 17.7 - Wear and Fatigue Tests for Vertical Receding Doors
- 17.8 - Wear and Fatigue Tests for Horizontal Receding Doors

* Many more capabilities for your proprietary tests.

Power Requirements: 200-250VAC 3 Phase. 200-250VAC 1 Phase with reduced maximum speed. Optional 480VAC 3 Phase.

Pricing

Standard Machine	Call
Auxiliary S-Beam 500 Lb Load Cell Option	Call
Optional 480 VAC 3 Phase Transformer	Call
Load table for attaching test specimens	Call



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