

# Dual Arm Durability Test Machine

This machine can be used to perform both loading and positioning with both actuators together, or with each actuator independently. Each actuator comes equipped with a servo driven ball screw, which drives a load applicator. A load cell at the end of each load applicator closes the loading control loop and also monitors for overload conditions during position cycle tests. Each actuator is mounted to pillow block bearings inside of the actuator frame to allow for angular rotation as required by the BIFMA Arm Durability test. The actuators may also be locked in place to facilitate other types of tests. The "actuator frame rotation" option allows the actuators to function in the horizontal plane and at angles as well. This opens up many possibilities for both BIFMA and your own proprietary testing standards.

## Features:

- 12 inches of stroke to accommodate many different situations. Positioning accuracy -  $\pm 0.020"$ .
- 500 lb load capacity per actuator. Each actuator comes equipped with a 1000 lb capacity Interface fatigue rated load cell. Loading accuracy -  $\pm 2%$  (5lbs max)
- BIFMA Arm Durability at up to 30 cycles per minute.
- 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.
- Optional actuator frame adjustment makes it easy to accommodate many different chair heights.
- The software serves as a real-time operating system. This translates into reliability! Complete control without computer glitches.
- This machine is capable of either "following" your product as it deflects, or shutting down the test due to excess deflection.
- The servo controls, computer, and operator interface are extremely energy efficient. This machine will use far less energy than a fully pneumatic or continuous induction motor machine.



Standard Machine	Call
Optional main mechanism vertical adjustment actuator.	Call
Optional 480 VAC 3 Phase Transformer	Call
Optional actuator frame rotation. (shown)	Call
Optional upper frame horizontal adjustment. (shown)	Call

## BIFMA Tests this machine can perform:

### X5.1-2002 General Purpose Office Chair Tests

- 11 - Seating Durability Test (front corner load ease)
- 13 - Arm Strength Vertical Test
- 18 - Leg Strength Front and Side Test
- 19 - Footrest Durability Test
- 20 - Arm Durability Test
- 22 - Tablet Arm Static Load Test
- 23 - Tablet Arm Load Ease Test

### X5.4-2005 Lounge Seating Tests

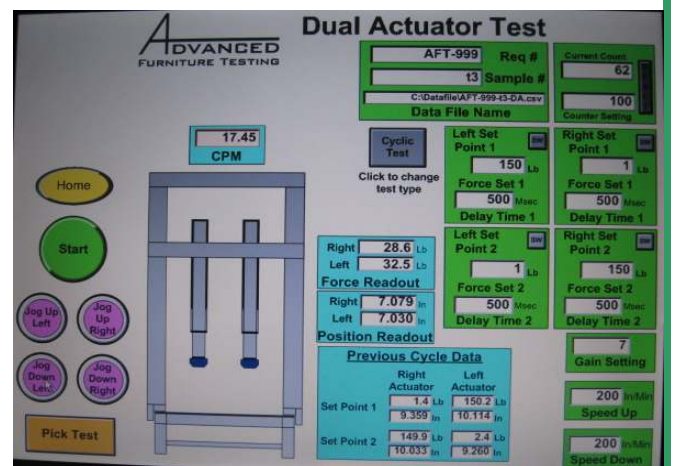
\*All tests similar to X5.1 for a single seating position

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

- 16 - Keyboard Support and Input Support Adjustment Tests

\* 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.



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