

Seating Durability Test Machine

This machine represents a culmination of many years of development in improving the repeatability of the Seating Durability test. A servo powered belt drive moves the gripper assembly up and down to acquire, lift and drop the bag lifting assembly with a high level of accuracy. The key to this machine is the load cell attached to the lifting shaft. This load cell actually "weighs the bag" each time it lifts the assembly. When the full weight of the bag is reached, the servo mechanism drives the entire assembly to the correct drop height and releases the bag. Only the bag impacts the chair as the lifting rod, ring, and load cell are decelerated by a gas spring.

Features:

- 15 vertical inches of travel to accommodate many different drop heights. Positioning accuracy - ± 0.020 ".
- 400 lb load capacity. Equipped with a 750 lb capacity S-beam load cell. Loading accuracy - $\pm 2\%$ (5lbs max)
- BIFMA Seating Durability at up to 25 cycles per minute.
- Quiet servo/planetary gear drive with controlled acceleration and deceleration. Movement is via belt drive, which is virtually maintenance free and silent.
- 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 adjustment of bag lifting mechanism makes it easy to accommodate many different chair/table 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.

BIFMA Tests this machine can perform:

X5.1-2002 General Purpose Office Chair Tests

- 11 - Seating Durability Test
- 23 - Tablet Arm Load Ease Test

X5.4-2005 Lounge Seating Tests

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

- 6 - Back Durability Vertical
- 12 - Arm Durability Vertical

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

- 6 - Top Load Ease Cycle Test
- 16 - Keyboard Support and Input Support Adjustment Tests

* Many more capabilities for your proprietary tests.

Power Requirements: 200-250VAC 3 Phase and 80 PSI unlubricated compressed air (.5 CFM). 200-250VAC 1 Phase with reduced maximum speed. Optional 480VAC 3 Phase.



Pricing

Standard Machine (includes main unit adjustment)	CALL
Optional 480 VAC 3 Phase Transformer	CALL
Optional portable base with machine glides and counterweight. (shown)	CALL



12764 Greenly St.
Suite 20
Holland, MI 49424
PH: (616) 928-0791
FAX: (616) 928-0792
www.furnituretest.com