

## Product Information

### TNJ-051 chair seat drop impact durability testing machine

Use : This test applies to all types of chairs.

Purpose of Test: to evaluate the ability of a chair to withstand heavy impact forces on the seat. dynamic and cyclic durability seat test.

Standard :

1. Drop test - Dynamic(ANSI/BIFMA X5.1-2017, clause 7)
2. Seating durability tests -Cyclic only (ANSI/BIFMA X5.1-2017 , Clause 10.3)
3. Drop test - Dynamic - for unit with seat surfaces (ANSI / BIFMA X5.9 -2012 , Clause 7.2 )
4. Durability test for units with seating surfaces - cyclic impact (ANSI / BIFMA X5.9 -2012. Clause 7.3)



#### Technical specifications

**a)Frame size:** 2m(W) x 1.5m (D) x 2m(H)

**b)Pneumatic cylinder/electromagnetic system**

-To hold. Release and lift the impact bag (3 different bags)

-Height: Adjustable height up to 1500mm from the test floor

-Attached to the impact bag and allow the impact bag to fall freely on the seat at height up to 200mm

(adjustable)

**c)Impact bag:**

-Construction

-Contain shot

-3 bags – with different mass: 57kg (125lb), 102kg(225lb) &136 kg(300lb)

-Diameter 406mm(16")

**d)2 operation mode:**

-Electronic predetermined counter (EPC) – 6 digit counter allow the bag to be released lifted for the

specific cycles (seating durability test-100,000 cycles)

-Timer – to lift the bag once it is rested on the seat for 1 minute (drop test)

e)The specified size is to accommodate testing for multiple seating, table and storage as well

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