

## Product Information

### TNJ-001 Best Furniture Universal Testing Machine

Use :This machine based on BIFMA X5.1, BIFMA X5.4 & BIFMA X5.9:

- Chair – vertical backrest, tablet, foot rest, arm durability for multi seating, structural durability
- Cabinet- leg/glide assembly strength test

Standard :

**1. BIFMA X5.1 , BIFMA X5.9**

- Chair -Vertical backrest , tablet , foot , rest, arm , durability for multi-seating, structural durability , dan tilting durability .
- Cabinet - leg/glide assembly strength test

**2. BS EN 1728 , BSEN 1725 , BS 1730**

- Chairs , Desk ,Bed .



#### Technical specifications

This machine use for apply load on vertical and horizontal on chair and cabinet with variety size. It is need to fulfill minimum needed as follow:

**a)Frame**

-6 vertical post – 4 fixed, 2 adjustable position along the frame length (3m) to hold horizontal cylinder

-5 horizontal cross bar – 4 fixed, 1 adjustable position along the frame length (3m) and height (2m) to

hold vertical cylinder,

-Adjustable position & height

**b) Size: 2m x 3m x 2m(H)**

**c) Type of cylinder:** double-acting cylinder

**d) Maximum force:** 2000 Newton

**e) One(1) unit horizontal Cylinder:**

-To apply a horizontal force for tilting and legs/glide tests

-Attached to the pulley system (adjustable & removable )

-Adjustable height (500-1800mm) & horizontal position (along the frame length, 3m)

-Stroke length :500mm

**f) 1 unit vertical cylinder:**

-To apply a vertical force for back rest, tablet and arm rest tests

-Adjustable position along the cross bar (2m)

-Stroke length: 500mm

**g) Voltage :** single phase AC 220V, 50/60Hz

**h) Compress air :** 6 kg /cm<sup>2</sup>

**i) Control panel**

-ON/OFF button

- Load display

-Cycle display- 6 digit

-Force holding time: one(1) minute (strength test)

**Test items:**

(BIFMA) APPLICABLE TEST	CLAUSE
Seating durability tests -Front corner load ease only	ANSI/BIFMA X5.1-2017, clause 10.4
Tilt mechanism test -Cyclic	ANSI/BIFMA X5.1-2017, clause 9
Leg strength test-Front and side application	ANSI/BIFMA X5.1-2017, clause 17
Tablet arm chair static load test	ANSI/BIFMA X5.1-2017, clause 22
Table arm chair load ease test	ANSI/BIFMA X5.1-2017, clause 23
Leg/glide assembly strength test	ANSI/BIFMA X5.9-2012, clause 5
Top load ease cycle test	ANSI/BIFMA X5.9-2012, clause 7.1
Top load ease cycle test	ANSI/BIFMA X5.5-2014, clause 6
Leg strength test	ANSI/BIFMA X5.5-2014, clause 8
Tilting table top -Cycle test	ANSI/BIFMA X5.5-2014, clause 20

Satu (1) unit mesin hendaklah direkabentuk mengikut keperluan ujian berikut:

(BS EN)	
Vertical static load test & durability test	BS EN 1730:2012, clause 6.3&6.5
Static test & durability test	BS EN 1725:1998, clause 7.3,7.5,7.6&7.7

Leg sideways & leg forward	BS EN 1728:2012, clause 6.15&6.16
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