

Product Information

TNJ-017 Chair Seat and Back Strength and Durability Tester

Use : Office Chair Seat Back durability tester is used for testing the strength and durability of office chair. Made of Aluminum material frame, **PLC control**, easy operation; high precision force sensor for the load application.

Standard :

BS EN 1728:2012 6.4 Seat static load and back static load test;

BS EN 1728:2012 6.17 Combined seat and back durability test;

BS EN 581-2 B.2.1.1 and B.2.1.2

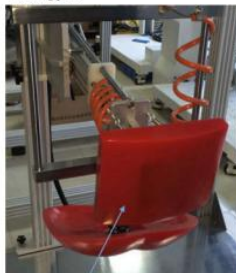


One seat



Multiple seats

Loading pads:



Backrest loading pad



Seat loading pad



Specifications:

The machine used for testing one(1) unit length chair or three(3) units chair one(1) seater in sentence time.

Load apply was permanent for chair seat following load for chair dock with cycle used to be and needed

fulfill minimum of:-

a) **Frame size** : 2m(D) x 3m(W) x 1.5 (H), shall have removable stops (12 mm thickness) to restrain chair legs

b) **Pneumatic cylinder** with load cell capacity 1000N (horizontal) & 2000N(vertical)

c) **Three(3) horizontal cylinder & Three(3) vertical cylinder** – to test multiple seat chair or Three(3) single chair simultaneously

d) **Mechanism** – a specified vertical load is applied first to the seat and the load is maintained when horizontal load is applied. The force shall be maintained for 10 ± 2 s or 2 ± 1 s (adjustable). This constitutes one cycle.

e) **Adjustable horizontal load orientation** (90° to the chair backrest)

f) **Adjustable height** (500-1000m) and horizontal distance between 2 set cylinders

g) **Loading pad** – attached to the cylinder and can pivot freely

- Three(3) units seat loading pad – attached to the vertical cylinder (refer attachment)

- Three(3) units back loading pad – attached to the horizontal cylinder (refer attachment)

h) **Cylinder operation selector**

- To operate all cylinder set (vertical & horizontal) to test 1 seat & back only

- To operate individual cylinder set (vertical & horizontal) to test one(1) seat & back only

- To operate vertical or horizontal cylinder only

i) **Electronic predetermined counter (EPC)** – six(6) digit counter to stroke the cylinder up to 200,000 cycles

j) **Compressed air**:- $\pm 6 \text{kg/m}^2$

k) **Single phase AC220V**

l) **Speed**: adjustable (10-20 cycle/minute)

Apparatus structure: This tester uses aluminum alloy frame, iron and aluminum plates for the structure manufacturing. Motor part has a air cylinder operation with electronic components for operation.

Spare Parts:1. Distribution box with aluminum alloy frame x 1

2. Portable magnetic sucker x 4

3. Loading pad x 2