



Bed And Mattress Comprehensive Performance Tester GT-LA09

Product Introduction

Application:

This machine is the newest design bed and mattress comprehensive performance tester according to EN 1725 standard.

In general, the machine is configured with the following test functions:

Vertical impact test: allow impactor to fall freely from a height of 180mm onto the test unit.

Durability test : test simulating the repeated application of loads .The durability test is a procedure mainly intended to evaluate the change of the properties of the test unit caused by repeated loading.

Bed edge durability test: apply a force of 1000N for 5000 cycles by means of edge loading pad at the bed edge test point, then measure the height loss .

Vertical static load test: apply a vertical forces of 1400N for 10s downwards using the loading pad on the bed base.

Bed edge vertical static load test: using two loading pads apply two forces of 1200N for 1min on the centre line of the bed frame side member. (LA09B configures this feature)

Feature

- The whole machine frame made of high quality aluminum, beautiful.
- This machine uses PLC to touch the screen control.
- Motor is Japan's Panasonic servo motor, the power sensor is the United States Celtron.
- The machine is equipped with an alarm device, indicating safe operation

Key Specifications

Key Specifications		GT-LA09A	GT-LA09B
Controller		PLC Touching Screen Control	
Motor		Panasonic	
Number of loading cylinders		Single	Double
Load sensors		5000N, American Celtron	
Durability test	Test load	1000N	
	Loading pad diameter	Ø200mm	
	spherical radius	R300mm	
	Edge radius	R12mm	
	Test cycle	1000cycles/per point	
	Load maintain time	3±1s	
	Impactor surface diameter	Ø200mm	
Vertical impact test	Impactor surface spherical radius	R300mm	
	Impactor surface edge radius	R12mm	
	Impactor total mass	25±0.1kg	
	Impactor spring rate	6.9±1N/mm	
	Impact height	180mm	
Bed edge durability test	Test load	1000N	
	Test cycles	5000cycles	
	Maintain time	3±1s	
Vertical static load test	Test load	1400N	
	Loading pad diameter	Ø200mm	
	spherical radius	R300mm	
	Edge radius	R12mm	
	Test cycle	10cycles/per point	
	Load maintain time	10±1s	
Bed edge Vertical static load test (LA09B configures this feature)	Small Loading pad diameter	Ø100mm	
	Edge radius	R12mm	
	Test load	1200N	
	Load maintain time	1min	
Power supply		1 φ , AC 220V 50/60Hz	
Dimension (LxWxH)		2.6*2.4*1.8m	
Weight (Kg)		≈900Kg	
Standard Accessories			
Loading pad		1set	
Impactor		1set	
Edge loading pad		1set	
Small loading pad (LA09B equips with)		2set	