

KASON PCF1200 Packaging Clamp Force Tester

KASONTTEST®



Note: The picture is for reference only

Summary:

ASTM D6055 Package Horizontal Compression Tester ISTA Packing Clamp Handling Testing simulates the process the schnabel car discharge the package, during this process, the clamping force of the both boards will affect the package and cargo. And this test is to evaluate the resistance property of the package toward this clamping force.

It is suitable for the packing of kitchen ware, furniture, household appliances, toys and other finished products, especially for the clamping strength test of the packing pieces required by SEARS in the United States.

Standard:

ISTA 6 SERIES: Member Performance Tests.

ASTM D-642

ASTM D6055

Major Part

1. Column: Utilize a 4-column structure with high-strength materials to prevent deformation and ensure stability during testing.
2. Clamp Fixation Splint: Constructed from high-strength I-beam steel, with 3 pieces on each side to maintain balanced strength.
3. Triangle Bracket: Used to secure the crossbeams on the clamp fixation splints.
4. Computer Control Box: Equipped with user-friendly system control software for easy operation.
5. Right Clamping Plate: Made from high-strength aluminum to ensure the plates remain parallel and maintain uniform strength.
6. Ball Screw: Features a positive and negative screw structure to ensure synchronous operation on both sides, eliminating gaps and ensuring displacement accuracy during testing.
7. Up and Down Crossbeam: Made from #45 steel plate with a linear slide rail to prevent gaps and deformation during sliding.
8. Force Sensor: Includes 6 force sensors to ensure power deviation during testing is within 1%, and force accuracy across 5 test points.
9. Baseplate: Welded from #45 steel for high strength and resistance to deformation.

Main technical parameters:

Max. Force	1200kg (customized)
Unit	Kgf/N/Lbf
Motor	Servo Motor
Clamping pressure force	According to the transport diagram on the test sample, the operator can add 400~3000Lb (adjustable) pressure force on the corresponding surface
Clamping board size	1200*1200mm
Clamping board adjustable height	0~1000mm
Lifting speed	10-305mm/min
Clamping board expansion width	200~2000mm
Baseboard dimension	1200*1200mm
Accuracy	within $\pm 5\%$
Clamping board requirement	Make sure the two clamping board are flat, parallel and non-deform under the work condition(2000Pound) and clamp board and land are vertical. Clamping board thickness no less than 25mm.
Controller	PC (window system) + software
Safety features	E-Stop

	Over-load protection Upper and lower limit switches Load sensor with automatic retreat
Load cell	4 pcs
Protector	Leakage protection, travel limit device
Power	AC380V, 50Hz
Weight	1800kg
Machine size	2810 × D1900 × H2100mm

FOCUS IN MATERIAL TEST

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