

GBD-L2 Dart Drop Tester



Application

GBD-L2 dart drop tester is applied to test falling impact resistance of plastic film or sheet with thickness of less than 1mm. Under a given height of free falling dart impact, it can measure the energy (in Joule to express results) of specimens. It can be used in scientific research, teaching, industrial and mining enterprises, laboratories, research institutes and quality supervision departments.

Standards

ISO7765-1, ASTM D1709, JIS K7124.

Specifications

Item	Technical Parameters
Test Method	Method A, Method B, Single Chip Test
Method A Test Range	50~2000g
Method B Test Range	300~2000g
Test Accuracy	0.1g
Dart Head Size	A method $\Phi 38 \pm 1$ mm, B method $\Phi 50 \pm 1$ mm
Weight	5g, 15g (A method), 15g (B method), 30g, 45g, 60g, 80g, 90g, 8 pieces for each weight
Weight diameter	A method: 31mm B method: 45mm
Falling height	660mm/1500mm
Specimen fixture	Pneumatic fixture, outer diameter 150mm, inside diameter 125mm
Gas source	Compressed air, 0.6~0.8MPa
Air connection	Air source interface, $\Phi 6$ mm tube
Dimensions	510*440*1300mm
Weight	50kg
Power supply	AC 110V/220V, 50Hz/60Hz

Features

- ◆ Color touch screen with setting of test conditions, convenient for user to perform test operation.
- ◆ A method, B method, single-chip test modes.
- ◆ Using the principle of electromagnetic suction, it can be released automatically, effectively avoiding system errors caused by wrong operation.
- ◆ The sample is pneumatically clamped and released, which reduces the error and saves test time.
- ◆ The test data system automatically recognizes and calculates without manual intervention.
- ◆ Built-in printer to output test reports.
- ◆ The instrument supports 30 groups of data queries.

Configuration List

A. Spare parts			
NO.	Name	Remark	Qty
1	Power cable	3*0.75 square copper, 10A 1.8 meters	1
2	A-method hemisphere header		1
3	A-method benchmark		1
4	Method A matching weights	Method A weight 5g, 15g, 30g, 60g, 8pcs for each weight	1set
5	B-method hemisphere header		1

6	B-method benchmark		1
7	Method B matching weights	Method B weight 15g, 45g, 90g, 8pcs for each weight	1set
8	6060 profile	National standard 1000MM	1
9	Locking block		2
10	Connector		4
11	Machine screw	M4*5	2
12	Machine screw	M6*15	8
13	PU tube	Φ6*Φ4/transparent/200M	3 meter
14	Reduced diameter straight	PG8-6	1
15	Allen wrench	9-piece long ball head	1set
16	Cross screw knife	6*150MM	1
17	Pneumatic fixture	Installed in the instrument	1set
B. Optional parts			
NO.	Name	Remark	
1	Calibration Certificate	Optional	
2	Air compressor	Optional	
C. User-provided			
1	Power supply: 3 holes socket, ground wire		
2	Air source (such as air compressor) specification 2.5HP 8KG pressure		
3	High-pressure air pipe (Φ6mm plastic pipe)		
4	Air filter (for dust, oil and water)		

Note: GBPI is always committed to product innovation and improvement, accordingly product technical specifications are subject to be changed without notice.