

## GBD-L2 Falling Dart Impact Tester



### 1. Introduction

GBD-L2 falling dart impact tester is suitable for testing materials such as plastic film or sheet and steel plate coating with a thickness of less than 1mm. Under a given height of free falling dart impact, it can measure the energy (in Quality to express results) of plastic films, thin section specimens and other materials. Through the impact resistance test, it can prevent the packaging surface from being damaged when the packaging material is impacted or dropped due to insufficient toughness of the packaging material, and effectively avoid the product from being damaged due to impact or falling in the circulation link. It can be used in scientific research, teaching,

industrial and mining enterprises, laboratories, research institutes and quality supervision departments.

## 2. Feature

- ◆ The host is equipped with a color touch screen, which is convenient for users to perform test operations.
- ◆ The novel mechanical model and the humanized design of the operation interface make the operation of the instrument simple and convenient;
- ◆ Test method A method, B method, single-chip test mode design, one machine with three uses;
- ◆ Using the principle of electromagnetic suction, it can be released automatically, effectively avoiding system errors caused by human factors
- ◆ The test process is intelligent, which greatly improves work efficiency;
- ◆ The sample is pneumatically clamped and released, which reduces the error and test time;
- ◆ No need for manual drawing and marking in the test process, and the data parameter system LCD display;
- ◆ The test data system automatically recognizes and calculates without manual intervention;
- ◆ Built-in printer, which can print test reports.
- ◆ The instrument can perform data query, query the results of each group of data, and can support 30 groups of data queries. •

### 3. Standard

ISO7765-1、GB/T 9639、GB/T 15267、ASTM D1709、JIS K7124

### 4. Technical Parameter

Item	Technical Parameter
Test Method	Method A, Method B, Single Chip Test
Method A Test Range	50~2000g
Method B Test Range	300~2000g
Single Chip Test Range	20g、25g、40g、60g、80g
Test Accuracy	1g
Dart Head Size	A method $\Phi 38\pm 1\text{mm}$ , B method $\Phi 50\pm 1\text{mm}$
Weight	5g, 15g (A method), 15g (B method), 30g, 45g, 80g, 90g, 8 each
Weight size	A method $\Phi 30\text{mm}$ , B method $\Phi 45\text{mm}$
Impact height	1500mm/660mm
Specimen fixture	Pneumatic fixture, Outer diameter150mm, Inside diameter125mm
Gas source	Compressed air, 0.6~0.8MPa
Air connection	Air source interface, $\Phi 6\text{mm}$ tube
Dimensions	510*440*1300mm
Weight	50kg
Power supply	AC 220V, 50Hz
Power	75W

## 5. Product List

(一) Spare part			
Num.	Item	Remark	Quantity
1	Power cable	3*0.75 square copper, 10A 1.8 meters	1
2	A-type hemisphere header		1
3	A-type benchmark		1
4	Method A matching weights	Type A weight 5g, Type A weight 15g Type A weight 30g, Type A	1set
5	B-type hemisphere header		1
6	B-type benchmark		1
7	Method B matching weights	Type B weight 15g, Type B weight 45g, Type B weight 90g each 8	1set
8	6060 profile	National standard	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 joint grey	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>(二) Optional part</b>				
Num.	Item	Unit	Quantity	Remark
1	Calibrate Certificate			optional
2	Air compressor			optional
<b>(三) Prepared by customer</b>				
1	Power supply 500w 220V 10A,3-hole socket,grounding wire			
2	Air source (such as air compressor) specifications 2.5HP, 8KG pressure			
3	High-pressure air pipe (Φ6mm plastic pipe)			
4	Air filter (dust filter, oil filter, water filter)			

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## Service

- ◆ Provide free packaging inspection technical support
- ◆ The instrument has a one-year warranty, free software upgrade service, and free lifetime technical support
- ◆ Free to come to the factory for training equipment operation, qualified candidates will be awarded a diploma, and free board and lodging will be provided
- ◆ Instrument "replacement of old for new" policy, and provision of backup instruments for use in the event of failure
- ◆ A testing center (CNAS L8185) is set up to provide customers with sample testing and sample data comparison services
- ◆ Set up a reference material development center to provide customers with instrument calibration and calibration services

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