

## GBD-L Falling Dart Impact Tester



### Application

The machine is designed according to GB/T 9639.1 and ASTM D1709-01 standards and specifications of the People's Republic of China. It is suitable for testing materials of thickness less than 1mm such as plastic films, sheets and steel plate coating. It is to measure the energy (in terms of mass) when materials such as plastic film and sheet sample are damaging under the free falling dart impact at a given

height. It can be applied to scientific research, production enterprises, research institutes and quality inspection institutions.

## Standards

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

## Specifications

Item	Technical Parameters
Test range	Method A:50~2000g, Method B:300~2000g
Test precision	1g
Weight of dart head	50-2000g,5g/weight increase, weight error≤0.5%
Size of dart head	Method A:Φ38±1mm, Method B:Φ50±1mm
Weight of weights	5g, 15g, 30g, 45g, 80g, 90g (8 pieces for each)
Size of weights	Method A:Φ30mm, Method B:Φ45mm
Impact height	1500mm/660mm
Size of clip	Pneumatic clip, outer:150mm, inner:125mm
Size of sample	180×180mm
Gas source	compressed air, 0.6~0.8MPa
Gas source port	Φ8mm gas tube
Size	550×380×2300mm
Weight	70kg
Power supply	AC 220V, 50Hz
Power	1000W

## Features

- ◆ LCD display test data.
- ◆ Easy operation, auto process data.
- ◆ Pneumatic clips.
- ◆ Automatically clip and release dart.
- ◆ Built-in printer can print report.
- ◆ Two test methods: Method A and Method B.

## Configuration List

### A、 Spare parts

NO.	Name	Remark	Quantity
1	Power cable		1 PC
2	Aluminium dart head		1 PC
3	Matching weights for method A	Aluminium 5g, stainless steel 15g, stainless steel 30g, stainless steel 80g ( 8 pieces for each one )	1 Set
4	Stainless steel dart head		1PC
5	Matching weights for method B	Aluminium 15g, stainless steel 45g, stainless steel 90g ( 8 pieces for each one )	1Set
6	Aluminium rod		1PC
7	Connection fittings of aluminium rod		4PCS
8	Allen wrench		1Set
9	Cross screwdriver	6-10mm	1PC
10	Pneumatic clips	Installed in the instrument	1Set

### B、 Optional parts

NO.	Name	Unit	Quantity	Remark
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1	Metrology Certificates	Optional
2	Air compressor	Optional
<b>C、User provide</b>		
1	Power supply 500W 220V 10A 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 (filter dust, filter oil, filter water)	

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