

# Tubular Impact Tester

## BGD 300-Series

### Product Description

The BGD series Impact Tester produced by our company is in accordance with the specifications in the National Standards for determining paint film resistance to impact and meets the practical requirements of mechanical construction.

The operating principle of the impact tester involves a weight dropping from a specified height, impacting a painted panel under test, leading to rapid deformation. The film's resistance to impact is then determined by observing whether the film cracks or peels off.



### Standards

- BGD 302: GB/T 1732
- BGD 304: GB/T 1732
- BGD 305: ASTM D 2794 & ISO 6272.2
- BGD 306: ISO 6272.1

### Technical Specification

The impact test describes a method for evaluating the resistance of a dry film of paint, varnish, or a related product to cracking or peeling from a substrate when subjected to deformation caused by a falling weight. The coating under test is applied to suitable, thin, normally metal panels. After the coating has cured, a standard weight is dropped on each panel from a height that will cause deformation of the coating and the substrate. The test can be carried out with the coated side of the panel facing upwards, i.e., towards the falling weight, or downwards, i.e., away from the weight. By gradually increasing the height from which the weight drops, the point at which failure occurs can be determined. Films generally fail by cracking, which is made more visible by the use of a magnifier.

The test can be carried out:

1. a) either as a 'pass-fail' test, meaning the test is carried out from one drop height and with a specified mass, to test compliance with a particular specification.
2. b) or as a classification test, to determine, by gradually increasing the drop height and/or the mass, the minimum mass and/or drop height for which the coating cracks or peels from its substrate.

We offer many different types of impact testers according to different standards. These impact testers consist of a solid base with a guide tube support, various weights of falling hammers, and different diameter punches. Users can choose a

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different size and weight hammer to simulate paint used in different environment.

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#### Main Technical Parameters

Ordering information Technical Parameter	BGD 302	BGD 304	BGD 305	BGD 306
<b>Instrument scale length</b>	0-50cm	0-100cm	0-100cm(40inch)	0-100cm(40inch)
<b>Graduation</b>	1cm	1cm	1cm	1cm
<b>Mass of hammer</b>	1Kg	1Kg	1000g(2 pcs) 300g(1 pc)	1000g(2 pcs) 2 lb.(2 pcs)
<b>Piercer specification</b>	φ8mm	φ8mm	Φ 12.7mm(1/2 inch) Φ 15.9mm(5/8 inch)	Φ 20 mm Φ 15.9mm(5/8 inch)
<b>Notch diameter on the bolster block</b>	φ15mm	φ15mm	Φ 16.3mm φ 31.75mm	Φ 27mm φ 16.3mm(41/64inch)
<b>Impact depth of piercer</b>	2mm	2mm	2.5mm	2.5mm
<b>Standard</b>	GB/T 1732	GB/T 1732	ASDM D 2794 ISO 6272.2	ISO 6272.1

#### Disclaimer

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