

## Impact Tester

Impact test describes a method for evaluating the resistance of a dry film of paint, varnish or related product to cracking or peeling from a substrate when it is subjected to a 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 the 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:

---either as a "pass/fail" test, the test being carried out from one drop height and with a specified mass, so as to test compliance with a particular specification.

---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.

Biuged offers many different types impact testers according to different standards. These impact testers consist of a solid base with a guide tube support, some different weights hammers (falling weights) and some different diameters punches. Users can choose different size and weight hammer to simulate paint used different environments.



### Main Technical Parameters

Ordering Information → Technical parameter ↓	BGD 305 Heavy-Duty Impact Tester	BGD 306 ISO Impact Tester
Features	<ul style="list-style-type: none"> <li>◆ Latest design make changing punch, weight and die become more easy and faster.</li> <li>◆ The aluminum oxid guide tube is produced by special technology, never fade and rust.</li> <li>◆ Special structure design make impact groove won't deviate forever, no calibration.</li> <li>◆ Come with Calibration Certificate.</li> </ul>	<ul style="list-style-type: none"> <li>◆ Ring slot (stops) for height limitation, convenient for operator to adjust different impact depth.</li> <li>◆ The aluminum oxid guide tube is produced by special technology, never fade and rust.</li> <li>◆ Guide tube is produced by special mould, the gap with weight is controlled precisely.</li> <li>◆ Come with Calibration Certificate.</li> </ul>
Instrument scale length	0-100cm ( 40 inch )	
Graduation	1cm	
Falling Weights	1000g ( 2 pcs ) 、 300g ( 1 pc ) 、 2 lb ( 2 pcs )	Main weight with indenter: 1000g ( 1 pc ) Additional weight: 1000g ( 1 pc ) Additional weight: 2000g ( 1 pc )
Indenter Diameter	Φ12.7mm ( 1/2 inch ) 、 Φ15.9mm ( 5/8 inch )	Φ20 mm
Die inside Diameter	Φ16.3mm	Φ27mm
Standards	ASTM D 2794、 ISO 6272.2	ISO 6272.1