




CCSi features this reliable, direct reading Charpy Impact Tester for the determination of the resistance of plastics and metals to breakage by flexural shock as indicated by the energy extracted from a simple beam apparatus employing a pendulum—type hammer.

The test requires specimens made with a milled notch, hence the test is often referred to as the “notched bar impact test”. In the Charpy Test ([ASTM D256](#) Method B, [ASTM D4508](#), [ASTM D4812](#), [ASTM D6110](#) and [ASTM E23](#)) test, the notch produces a stress concentration which promotes a brittle, rather than a ductile, fracture.

The results are reported in terms of energy absorbed per unit of specimen width, or more specifically, the energy absorbed in breaking the specimen which is equal to the difference between the potential energy at the moment of impact and the residual energy.

 Index Terms: impact resistance; Izod impact; notch sensitivity; notched specimen; reverse notch impact; 29.035.20; electrical insulating solids; plastics (general); tension (tensile) properties/tests-plastics; tensile-impact energy to break plastics/electrical materials; D1822M; breaking energy; cantilever impact; chip impact strength; impact plastics; impact testing; microcracks; pendulum; plastics; small specimen impact; weathered impact strength; 83.080.01; cantilever beam; impact resistance; plastic molding; unnotched; charpy impact; impact resistance; notched specimen; charpy test; fracture appearance; Izod test; impact test; notched specimens; pendulum machine; 77.040.10.

Hung Ta™ Charpy Impact Tester Model HT8041A: Specifications

Model HT8041A-	50	30	10	5	1.5	0.1	0.05	0.03	0.02
Capacity: (kgf/m)	50	30	10	5					
Capacity: (kgf/cm)					150	100	50	30	20
Distance:(mm) <sup>1</sup>	850	750	600	400	230				
Radius: (mm)	2 mm (Radius of Hammer knife edge)								
Angle: (degrees)	30° (Angle of Hammer knife edge)								
Lift Angle: (degrees) <sup>2</sup>	140°			130°	150°				
Hammer Mass: (kg)	37	26	11	8	2.6	1.8	1.3		
Hammer Velocity: (m/sec) <sup>3</sup>	5.5	5.0	4.5	4.2	3.8		2.9		
Dimensions: (W x D mm)	500 x 1100	460 x 880	390 x 750		380 x 580		280 x 400		
Dimensions: (Height mm)	1440	1300	1100		790		560		
Weight: (kg)	400	300	250	200	70	65	50		

<sup>1</sup> Distance in mm between hammer axis center and strike point.

<sup>2</sup> Lift angle of hammer in degrees (approximate).

<sup>3</sup> Velocity in m/sec of hammer at moment of impact (approximate).

Standard Accessories:

- 1 each, 10 mm Square Gage;
- 1 each, Energy chart;
- 1 each, Hex Wrench;
- 1 each, Dust Cover.

Optional Accessories:

- Digital Indicator,
- Printer (requires digital indicator).

List Price:

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