

# Impact Testing Machine

The Pendulum Impact Tester model **AMT-8** is designed for conducting **CHARPY**, **IZOD** and **IMPACT TENSION** test. The test method conforms to **IS:1757-1973** and **IS: 1499-1977**, and **BS: 131 Part 2&3- 1972** **IS: 1598-1977**, **BS: 131 Part 1-1972**.

The impact energy absorbed by the specimen during repute in measured as the difference between the height of drop before repute and the height of rise after rupture of the test specimen and is read on the dial scale.

## TECHNICAL SPECIFICATIONS

Model No.	AMT-8	
	Charpy and Impact Tension Test	Izod Test
<b>Pendulum drop angle</b>	140°	85°
<b>Effective weight</b>	20.59 kg.	21.79 kg.
<b>Speed</b>	5.3465 m/sec	3.857 m/sec
<b>Impact energy</b>	30 Kgm (300J)	16.4 Kgm (164J)
<b>Min. Graduation</b>	2J	2J
<b>Distance of axis of hammer rotation and centre of test piece/point of test piece hit by hammer.</b>	825mm	825mm
<b>Max. permissible loss by friction</b>	0.5% of max. impact energy	



**AMT-8**

Charpy Test	Izod Test	Impact Tension Test
<b>A) Striking edge</b> Angle: 30 ± 1 Radius of curvature: 2.25mm Width: 18mm	<b>A) Striking edge</b> Angle: 75 Radius of curvature: 0.75mm Horizontal relief: 10° Vertical Relief: 5°	<b>A) Striking edge</b> Distance between forks: 36mm Radius of curvature: 1mm
<b>B) Support</b> Distance between arm: 40mm Slopping angle: 0° Relief angle: 10° Radius of curvature: 1.25mm	<b>B) Support</b> For gripping specimen with dimension of 10 x 10mm	<b>B) Support</b> For clamping specimen with dimension of following Diameter: 6.4mm Length (Total): 68mm Length (Measuring): 25.4mm Thread of supporting: M10 x 1.5

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