

ASTM IMPACT TESTING MACHINE



FEATURES:

- ❖ For Charpy test on various metals
- ❖ Strictly conforms to ASTM-E-23-2007 specifications.
- ❖ Works on the pendulum principle. Difference between the height of drop of the pendulum before rupture and height of rise after rupture of the specimen is directly proportional to the Impact energy absorbed by the specimen and is indicated by a pointer on a large dial
- ❖ Single stand design which facilitates fast and easy positioning and centering of specimen which is a basic requirement of sub-zero testing.
- ❖ Unique spring-loaded braking system for smooth and jerk-free braking.

Registered Office: UGF-12 Ansal Plaza-1 Chiranjeev Vihar Ghaziabad-201002 (U.P.) INDIA

Workshop: Khasra No - 63 Village Bayana, Near Wave City, NH 24, Ghaziabad -201015 (U.P.) INDIA

Phone : +91- 8750305291

Email : info@hsmleindia.in / sales@hsmleindia.com

Website : www.hopesmluckyenterprises.in / www.hsmleindia.com (Under Construction)



TECHNICAL SPECIFICATIONS (CHARPY TEST)

Model No.	HIT-300-ASTM
Initial potential energy (Joules)	300
Minimum scale graduation for AIT-300-ASTM (Joules)	2
Pendulum drop angle (degree)	140
Striking velocity of pendulum (m /sec)	5.182
Distance between axis of rotation and centre of strike (i.e. length of pendulum) (mm)	775
Effective weight of pendulum (kg)	22.35
Total friction and windage losses (%) of Max. Impact energy	0.75% Max.
Distance between physical percussion centre of pendulum and centre of Charpy specimen (mm)	± 7.75 mm Max.
Striking edge	
Angle of striking edge (degree)	30 ± 2°
Radius of striking edge (mm)	8 ± 0.05 mm
Width of tip (mm)	4
Specimen Anvils and Supports	
Suitable for specimen size (mm)	10 x 10 x 55
Distance between Anvils (mm)	40 ± 0.05
Angle of Anvil (degree)	80° ± 2°
Radius of supports (mm)	1 ± 0.05
Overall size (mm) approx.	930Lx460Wx2070H
Net weight (kg) approx.	500

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