

CHARPY IMPACT TESTING MACHINE (ASTM)

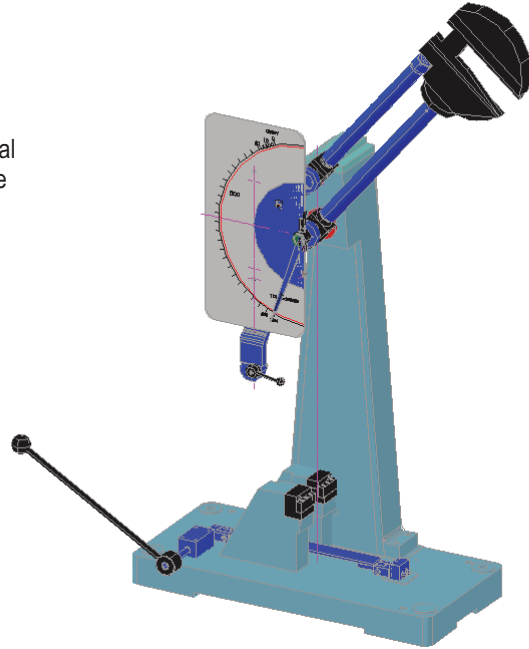
Models : AIT-300-ASTM, AIT-300-ASTM (D)

FEATURES :

For Charpy tests on various materials.
Strictly conforms to ASTM-E-23-2007 specifications.
Works on pendulum principle. Difference between height of drop of pendulum before rupture and height of rise after rupture of specimen is directly proportional to Impact energy absorbed by specimen and is indicated by a pointer on a large dial for Model : AIT-300-ASTM & on display for Model : AIT-300-ASTM (D).
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
NIST approval of machine with samples from NIST-USA, can be arranged.
Model : AIT-300-ASTM (D) is a digital version of Model : AIT-300-ASTM.

STANDARD ACCESSORIES :

Charpy Striker – 1 No.
Charpy support block – 1 Set
Specimen setting gauge (for Charpy) – 1 No
Set of spanners – 1 Set
Foundation bracket – 1 No.



TECHNICAL SPECIFICATIONS :

Suitable for	Charpy – Tests
Initial potential energy (Joules)	300
Minimum scale graduation for AIT-300-ASTM (Joules)	2
Resolution for AIT-300-ASTM (D) (Joules)	0.5
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	930 L x 460 W x 2070 H
Net weight (kg) approx	500

OPTIONAL ACCESSORIES :

Self centering tong for Charpy test specimen (useful particularly for carrying out tests at sub zero temperature).
Sub zero temperature bath with digital temperature indicator.
Go : No-Go gauges for confirming the following parameters of specimen within the limits specified by the standard
a) Center line of notch from both ends. **b)** Angle of V notch. **c)** Depth below standard V notch. **d)** Cross section of 10 x 10 mm specimen.
Milling cutter for V Notch.
Charpy & Izod Notch (V & U) Broaching Machines.
Lateral expansion gauge as per ASTM-E-23
Standard Impact specimen for verification of machine from NIST, USA (We also undertake calibration of the machine as per ASTM-E-23 including approval from NIST - USA).

Charpy & Izod Notch Broaching Machines (Manual)

(Model : BMF)



FEATURES :

Robustly constructed machine cuts the notches (V or U) very accurately by means of specially designed multi-toothed broach, which is drawn across the specimen by self-push of rotating hand wheel.

This machine is a really cost effective solution for cutting Impact notches. Accurately cuts the desired notches as per respective standard in just a single pass within few seconds.

A simple hand-vice for holding the specimen.

The tooling includes the adjusters and end stops necessary to ensure notch-depth and position are correctly set.

The Weight (Approx.) is around 35 Kg.

Dimensions (Approx.) is 210 mm x 210 mm x 1050 mm

Motorized Notch Broaching Machines (Model : BMF-M) are also available.

We can also supply – Universal testing machine, Tensile testing machine, Spring testing machine, Horizontal rope & chain testing machine, Hardness testers (Brinell, Rockwell, Vickers), Digital Rockwell hardness testers, Dynamic balancing machine, Impact testing machines, Digital Torsion testing machine, Digital Fatigue testing machine, Dynamic hardness tester, Portable hardness tester, Compression testing machine & Special purpose Material testing machines, etc...



Sold & Serviced by –

FASNE TEST EQUIPMENTS PVT. LTD.,

J - 55, M.I.D.C. Area, Kupwad Block, Dist. SANGLI - 416 436 (Maharashtra State – INDIA).

Phones : +91-233-2644336, 2644332, 2644532, 2644832 ; Fax : +91-233-2644334.

Email : san_fine test@sancharnet.in ; sales@finegrouptest.com

Websites : www.finegrouptest.com ; www.finegrouptest.in

" We reserve the rights to change the above specifications without any notice due to constant improvements in design".