

Material Testing Machines Services

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www.mtmspune.com NABL Accredited Site Calibration Laboratory (C0262)

Charpy / Izod Impact Testing Machine

FIT 300EN



FIT 300 D



FIT 300 ASTM



FIT 300 ASTM D



Features :

➔	For charpy, Izod Tests for various materials.
➔	Model FIT-300-N is a per IS 3766-1977, IS 1598-1977, IS 1757-1988, IS 1499-1977 and BS 131 Part I, II, III, IV.
➔	Model FIT-300-EN & +FIT-300-D Conforms to IS, BS Standards as above & also conforms to BS EN 100456-1993 (For Charpy)
➔	Works on pendulum principle, Difference between height of drop of pendulum before rupture & Height of rise after rupture of specimen is directly proportional to impact energy absorbed.
➔	Direct indication of impact energy absorbed by specimen on large dial for FIT-300-N, FIT-300-EN and on Digital Display for FIT-300-D.
➔	Safety guard for the Pendulum.

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Technical Specifications :

Description	Fit 300 N, FIT 300EN, FIT 300 D	FIT 300 ASTM
	Charpy	IZOD
Pendulum Drop Angle (Degree)	140	90
Pendulum Effective Weight (Kg.)	21, 300	21300
Striking Velocity of Pendulum (m/Sec)	5.308	3.994
Pendulum Impact Energy (Joules)	300	170
Min. Scale Graduation (Joules)	2	2
(Only for FIT 300 D)	0.5	0.5
Distance between axis of pendulum to centre of strike (length of pendulum in mm)	813.5	813.5
Max. Total friction & Windage losses	0.5% of max. Impact energy	0.5% of max. Impact energy
Striking edge	.	.
a. Angle (Degree)	30	70
b. Radius of Curvature (mm)	2	0.7
c. Width at tip (mm)	18	--
d. Horizontal relief (Degree)	--	10
e. Vertical relief (Degree)	--	5
Specimen Anvils and supports		
a. Suitable for max. specimen cross section(mm)	10x10	10x10
b. Distance between specimen anvils (mm)	40	--
c. Included angle of Anvil tip (degree)	79	--
d. Radius of curvature at Anvil tip (mm)	1	--
Overall size (mm) (approx)	760(L) x 440 (w) x 1925(H)	
Net weight (kg) (approx)	For model FIT 300 N : 300 For model FIT 300 EN : 450 For model FIT 300 D : 450	