



## Impact Testing Machines (Model : IT-30, IT-30 (D))



### General Description :

The pendulum Impact Tester, Model IT-30 is designed for conducting Izod, Charpy test. The test methods confirm to BS : 131 : Part 4-1972 (Amended 15 Aug. 1993) BSEN : 10045-2 : 1993

The Pendulum is mounted on antifriction bearings. It has two starting positions, the upper one for Charpy & the lower one for Izod testing. On release, the pendulum swings down to strike the specimen and the energy absorbed in doing so is measured as the difference between the height of drop before rupture of the test specimen and is read from the maximum pointer position on the dial scale.

(It is read on digital readout in case of electronic machines.)

There are two strikers and one combined support available for fitting in to the pendulum and on to the base of the machine for the Izod, Charpy test respectively, Changing from one striker to another is achieved simply by fixing the new striker into its position.



### Charpy Test :

The Charpy test piece rests on alloy steel support anvils, fitted on the base of the machine rigidly held in position by Allen screws. End stopper is provided for quickly and accurately locating the test piece centrally between the supports.

### Izod Test :

The Izod test is clamped vertically in Izod support fitted on the base of the machine. The support is provided with a machined vertical groove to suit the test piece size. The front clamp piece and the Allen screw enable clamping of the test piece in correct height with the help of Izod setting gauge supplied.



### Model IT-30 ( ASTM )

This impact tester offered with 300J energy exclusively for Charpy test confirming to ASTM E-23. This machine is geometrically checked in the works to the more stringent requirements of the American standard. The accuracy of the machine is then verified by PROOF TEST by testing standard test specimens supplied the NIST, USA. Two sets ( Low & high energy-1 Set (4 Nos.) each.) must agree with the normal values within certain tolerance specified.

Model	IT-30	IT-30 (D)	IT-30 (ASTM) Charpy Test	IT-1.5	IT-0.5
Maximum capacity	300J / 168J	300J / 170J	300J	15J	5J
Minimum Scale Graduation	2J	0.5J	2J	0.1J	0.05J
Overall Size (Approx.)	1.1m x 0.45 m x 1.65 m (H)	1.32m x 0.45 m x 1.05 m (H)	1.4m x 0.5 m x 1.9 m (H)	0.5m x 0.3 m x 0.52 m (H)	0.5m x 0.3 m x 0.52 m (H)
Net Weight (Approx.)	375 kg	375 kg	450 kg	70 kg	70 kg

ARUN reserves the right to change the specifications without notice due to constant improvement in design.

### **Optional Accessories For IT 30 / IT 30 D :**

- Caliper gauge for checking V notch for Izod & Charpy.
- Templates for checking 10 x 10 mm cross section of Izod / Charpy test specimen.
- Depth notch gauge including V & U notch gauges for checking depth below V/U notch, angle and radius.
- Izod support for 0.450" dia Izod round specimen.
- Self centering tong for quick and accurate setting of Charpy test specimen.
- 'V' notch milling cutter.
- 'U' notch milling cutter.

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