

Impact Testing Machine

Model - Auto Impact



MatrixTestingMachineServices

Sold and Serviced by :

MATRIX TESTING MACHINE SERVICES

Kalewadi, Pimpri, Pune 411017

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Model : Auto Impact (BS)

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

In Auto Impact Tester, pendulum will lift, specimen will get loaded and pendulum will release automatically. Once specimen breaks, result will display on digital panel, and auto brakes will apply immediately.

The pendulum is mounted on antifriction bearings. It has two starting positions, the upper one for Charpy and the lower one for Izod testing. On auto release, the pendulum swing down to break the specimen and the energy absorbed in doing so is measured as the difference between the height of drop before rupture and height of rise after rupture of the test specimen and is read on digital panel in Joules.

Charpy Test :

The Charpy test piece rests on 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 piece is clamped vertically in Izod locating groove 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.

Specification :

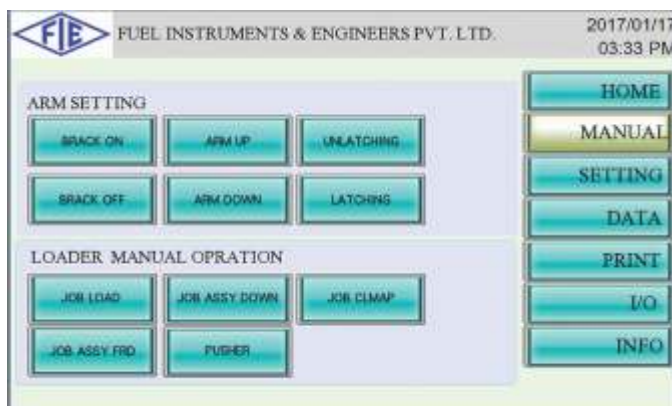
Model	30	40	50	Unit
Maximum Capacity	300	400	500	J
Maximum Scale Graduation	0.1	0.1	0.1	J
Overall Size without Protection Guard (Approx.) L x W x H	1.1 x 0.45 x 1.65	1.1 x 0.45 x 1.65	1.1 x 0.45 x 1.65	m
Overall Size with Protection Guard (Approx.) L x W x H	2.2 x 1.2 x 2.1	2.2 x 1.2 x 2.1	2.2 x 1.2 x 2.1	m
Net Weight of Machine (Approx.)	400	450	500	kg.



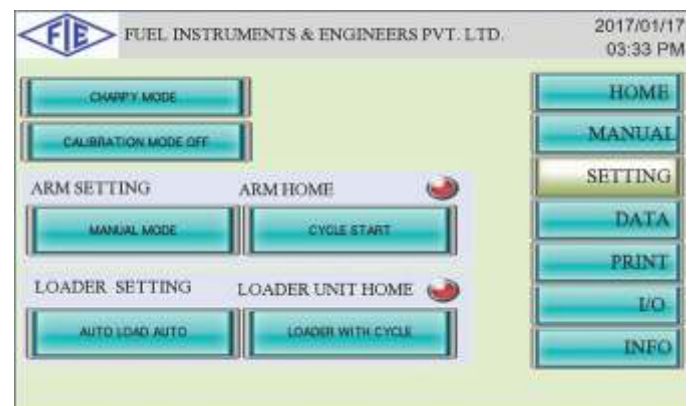
Home Screen



Result Data



Manual Mode



Auto Mode





Over **60** years of consistent excellence

Impact Testing Machine Model : Auto Impact



Home Screen

Model : Auto Impact (ASTM)

The Impact Tester offered with 300J energy exclusively for Charpy Test conforming 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 by the NIST, USA.

Two sets (Low & high energy - 1 Set (4 Nos.) each.) must agree with the normal values within certain tolerance specified.

Specification :

MODEL	IT-30 Charpy Test	IT-40 Charpy Test	IT-50 Charpy Test	Unit
Maximum Capacity	300 J	400 J	500	J
Maximum Scale Graduation	0.5 J	0.5 J	0.5 J	J
Overall Size without Protection Cover (Approx.) L x W x H	1.4 x 0.5 x 1.9	1.4 x 0.5 x 1.9	1.4 x 0.5 x 1.9	m
Overall Size with Protection Cover (Approx.) L x W x H	2.2 x 1.2 x 2.1	2.2 x 1.2 x 2.1	2.2 x 1.2 x 2.1	m
Net Weight (Approx.)	450	500	550	kg

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

Optional Accessories for Auto Impact

- Caliper gauge checking V notch for Izod & Charpy.
- Templates for checking 10 x 10mm. 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.
- Protection Guard



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