



UNIVERSE CHARPY IMPACT TESTER AZA1013

The AZA1013 Charpy Impact Tester is a precision-engineered laboratory instrument designed to determine the impact strength and toughness of metallic materials under dynamic loading conditions.

By measuring the energy absorbed during fracture, the system enables accurate evaluation of a material's resistance to sudden impact, helping distinguish between brittle and ductile behavior. It is widely used in metallurgical laboratories, manufacturing industries, and research institutions for quality control and material characterization.



Key Features

- Heavy-duty pendulum-type impact testing system
- Rigid cast iron / steel frame for vibration-free operation
- Hardened steel hammer with precision knife-edge striker
- Standard supports for V-notch and U-notch specimens
- Manual or optional automatic pendulum release mechanism
- Built-in safety brake and protective enclosure
- Low-friction bearings for accurate energy measurement
- Analog dial indicator with optional digital display

Compliance & Certification

- ASTM E23 – Notched Bar Impact Testing of Metals
- ISO 148-1 – Charpy Impact Test
- IS 1757 – Indian Standard for Impact Testing



UNIVERSE

TECHNICAL SPECIFICATION

Parameter	Specification
Model	AZA1013
Machine Type	Pendulum Type Charpy Impact Tester
Energy Capacity	Up to 300 Joules
Striking Velocity	Approx. 5.2 m/s
Readout System	Analog Dial / Optional Digital Display
Hammer	Hardened Steel with Knife Edge
Anvils	Hardened Steel Standard Supports
Release Mechanism	Manual / Optional Automatic
Safety Features	Protective Guard + Braking System
Power Supply	Not Required (230V AC for Digital Model)
Standards Compliance	IS 1757, ASTM E23, ISO 148-1