



Product Code

UTCI-0150	Motorized Pendulum Impact Tester, Energy Range 150 to 450 Joules, 220V, 60Hz, 1phs
UTCI-0155	Izod Hammer (Striker) & Specimen Holder (Vise)



Impact test determines the amount of energy absorbed by a material during fracture. This absorbed energy is a measure of a given material's toughness and acts as a tool to study temperature-dependent brittle-ductile transition. It is to determine whether the material is brittle or ductile in nature.

UTCI-0150 motorized pendulum impact tester is high performance device and ideal for testing metals to Charpy and Izod standards at capacity of 150 Joules. Constructed with solid steel frames, UTEST motorized pendulum impact testers are machines that you can trust and is safe, quick and easy to operate. It can be fitted with accessories for Charpy and Izod Tests. Each test requires a specific vice/fixture, specimen adapters, and hammers. Operation of the machine is controlled and test results are collected by using colored touch screen digital control unit. Test results such as energy absorbed calculated and displayed on the control unit.

With UTCI-0150 motorized pendulum impact tester, after the test, the pendulum is automatically captured and returned to the starting position. This feature enables the starting angle setting to be varied and optimum test parameters such as impact speed and energy loss on impact to be determined.

Universities, laboratories of the institutions, automotive and aero companies, research and R&D Labs, as well as steel plants are typical customers for these kinds of testing systems.

Standards

ASTM E 23, EN 10045, ISO 148, GOST 9454; AS 1544;
JIS Z 2242, B 7722

MAIN FEATURES

- Available energy is 150J of Charpy and Izod testing
- Motor-driven raising of hammer with auto-return after test for increased productivity and operator safety
- Electromagnetic brake/clutch control mechanisms respond quickly for improved operation
- Conveniently located controls for efficient testing
- Clearance between supports of 40 mm,
- Fall angle is 150 degree,
- Suitable for specimens of 10 x 10 x 55 mm
- Cabin door sensitive automatic testing mode that enables the fast and continuous testing and manual mode for more control for the operator.
- Highly sensitive encoder to take the angle readings for every position of the hammer and to capture the very peak point of the rise angle.
- Direct verification menu to verify the losses and calculate the error as described in the standards (air resistance, bearing resistance, etc.).



STANDARDS for UTCI SERIES

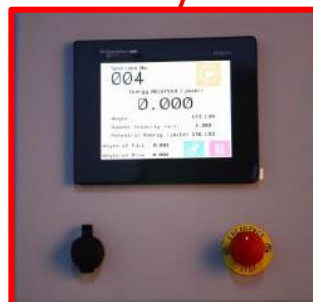
- ASTM E23 Standard Test Methods for Notched Bar Impact Testing of Metallic Materials
- EN 10045 Charpy Impact Test on Metallic Materials
- ISO 148 Metallic Materials - Charpy Pendulum Impact Test
- GOST 9454 Impact Bending Test Method at Low, Room and High Temperatures
- Fixtures/strikers are available for each test standard as well as customized tests.

Main Accessories;

1. Pendulum ,
2. Specimen centering plate (U, V)
3. Anchor bolts (M22x300mm): 4 pcs

Optional accessories;

1. Full close Aluminum alloy safe cabin,
2. ASTM E23 striking edge (R8mm),
3. Self centering tong for setting charpy test specimen
4. Anvils and pendulums for Charpy, Izod and tensile impact testing,
5. Temperature Chamber for impact specimen,
6. Notch Cutter for impact specimen
7. Low Temperature Freezers for impact specimens.





Max. Absorbed Impact Energy (J)	150
Raised Angle	150°
Max. Impact Speed (m/s)	5,25
Standard span (mm)	40
Size of specimen (mm)	10 x 10 x 55
Round angle of jaws (mm)	R1-1.5
Round angle of striking edge (mm)	R2-2.5
Power supply	3phs, 380V, 50Hz or 1phs, 220V, 60Hz
Overall Dimensions	2200x950x2100 mm
Weight (approx.)	800 kg