

Advanced Digital Pendulum Impact Tester for Metals

With 300J, 450J, 600J Capacities for Charpy / IZOD / Tensile Impact Tests

The IMPACT-Series units are high performance pendulum impact testers that precisely determine absorbed impact energy and resistance to breakage of metallic specimens. Innovative mechanical design features make these testing machines top contenders on the market with excellent price/quality ratio as well as high accuracy. Universities, Automotive and Aerospace companies, Research and R&D Labs, as well as steel plants are typical customers for these Impact Testing Systems.

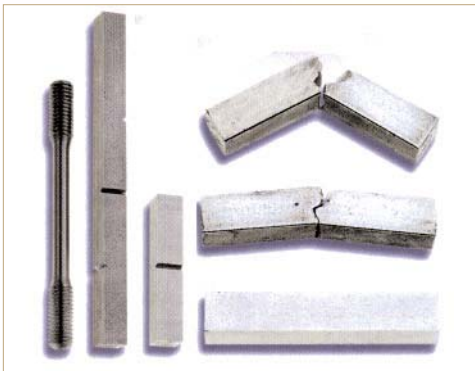


APPLICATION

Designed for determination of the impact energy (Charpy / Izod / Tensile Impact methods) according to ASTM E-23, ISO, DIN, EN, JIS standards

FEATURES/ADVANTAGES

- Extremely rigid frame with low-friction pendulum bearing
- Integrated safety cage with electrically interlocked access door for added security
- The control system includes a large backlit graphical LCD display with color membrane keypad and 32-bit RISC microprocessor system, which displays the actual energy or impact value after the test
- Memory capacity of up to 99 tests, with storing the following values: Absorbed energy in Joules, Impact



- value, 12 character specimen code, time and date for the test performed
- Set-up menu allows to configure the test modes such as the standard (ASTM, EN, ISO, etc.), The pendulum type (Charpy or Izod), the potential available initial energy, display of absorbed energy or impact values, specimen data as well as time and date.
- The test results can be printed out upon request via a parallel printer. On the test certificate the test conditions, operator's name, time and date can be inserted.
- The test data can be transferred to a PC via RS-232 interface for further processing and analysis.
- The Pendulum lifting edge measure is effected by a high resolution encoder mounted on the pendulum rotation axis. The remarkable resolution assures the highest accuracy for the absorbed energy value.
- Via a pushbutton on the console, the operator can activate the motorized lifting of the pendulum, which is done by an electromechanical system with frontal teeth coupling. This solution assures friction-free operation during the semi-oscillating movement with respect to the traditional clutch systems.
- The pendulum can be automatically loaded and raised after each test which can considerably reduce the test time. Also the pendulum unloading, by taking it to the rest position, is performed by pressing a pushbutton on the digital console.
- The base pendulum can be conveniently disassembled, replaced or loaded with toolings for Izod, Tensile Impact, or alternatively with other lower capacity strikers. Replacement of the knife edges according to EN, ASTM, etc. standards is very practical and easy
- The Impact systems are designed to ensure the maximum safety for the operator, allowing to set all the test parameters and specimen loadings from outside
- Optional PC software, Cooling Chambers, Pliers, broaching machines and sample notchers, Machines for Impact Specimen Preparation, as well as lower capacity Pendulum Impact Testers available
- 1-Year Warranty
- Unbeatable Price/Performance Ratio
- Manufactured by an ISO 9001 certified company
- Service, Installation and Calibration

TECHNICAL SPECIFICATIONS

Power	220V/50Hz or 110V/60 Hz. Other special voltages available upon request
Pendulum Loading Time	< 9 sec.
Weight	670kg-1,480 lbs (300-450J), 1,340kg-2,950 lbs (600J model)
Room Temperature	+ 10~40 °C
Humidity	10~90%
Foundation Requirement	> 1200 kg for 300~450J models, > 2400 kg for 600J