

JB D Series

CHARPY IMPACT TESTER

Rev. 04-2023-EN



Product information

The Charpy Pendulum allows to perform impact tests to measure the energy absorbed by a specimen of standardized shape and size to analyze the material's notch toughness. Wide use in different sectors: production control in the industry, certification of materials by accredited test laboratories, research and development of new technologies in universities and research centers.



Construction features

The machine consists of a monolithic base and an oscillating arm with a ram of suitable weight and dimension, whose construction parameters ensure perfect correspondence to regulatory requirements. The motorized lifting system of the arm with automatic locking system is supplied as standard and guarantees the rapid repositioning of the hammer in the test position for the next test. The angular measurement is carried out by an encoder connected to the latest generation microprocessor that manages the motion, testing and safety features.

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All models are equipped with safety cage and front access door with safety interlock. The door is locked when the test is running.

The plinth is a highly recommended optional accessory that meets the regulatory requirements for the effectiveness of rigidity and sizing of the floor on which the machine is fixed.

Main Reference Standards

ASTM E23	Standard Test Methods for Notched Bar Impact Testing of Metallic Materials.
ASTM A370	Standard Test Methods and Definitions for Mechanical Testing of Steel Products.
ISO/TC 138/SC 5	General properties of pipes, fittings and valves of plastic materials and their accessories -- Test methods and basic specifications.
UNI EN ISO 148-1	Metallic materials - Charpy pendulum impact test- Part 1: Test method for determining the resilience at room temperature and low temperature
UNI EN ISO 9016	Destructive tests on welds in metallic materials — Impact tests — Test specimen location, notch orientation and examination

Technical Features

Model	JB300
Maximum available energy	300J
Reading and indicator systems	Analogical Dial
Resolution	0.1 J
Overall Dimensions	2080 x 550 x 2060 mm
Total weight	600 kg
Power supply	0.75 kW 230 VAC / 50 Hz / Single phase
PC interface	Serial port

Models

M03300D01 300J Digital Charpy Pendulum.



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Optional accessories

A variety of additional accessories are available such as accessories for low temperature testing.

P03300101 Plinth for fixing Charpy Pendulums.

V03010101 Charpy specimen centering pliers.

V03010201 Dewar 2.0 lt jar.

V03010401 Tablet machine for the preparation of samples at low temperatures.

V03010501 Digital thermometer complete with probe.



Knife edges and Anvils



Dewar Container



CO2 box



Digital thermometer



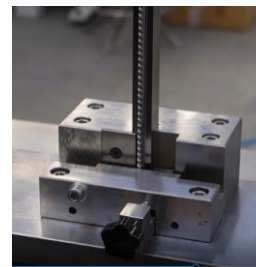
Automatic cooling unit



Concrete Plinth



Broacing system



**Broach knife
KV / KCU**

