

JB Series

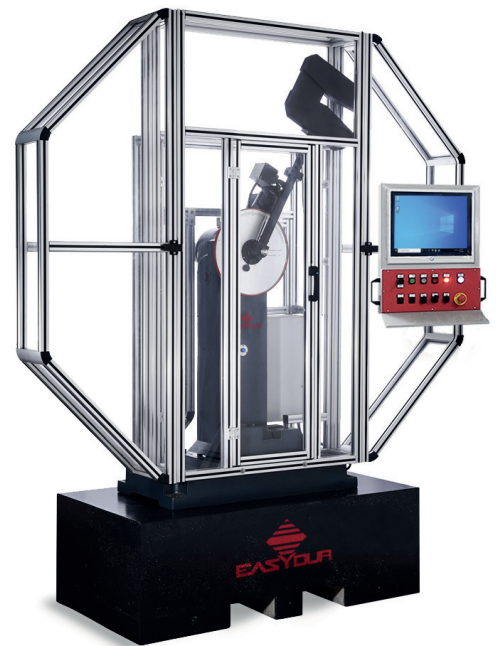
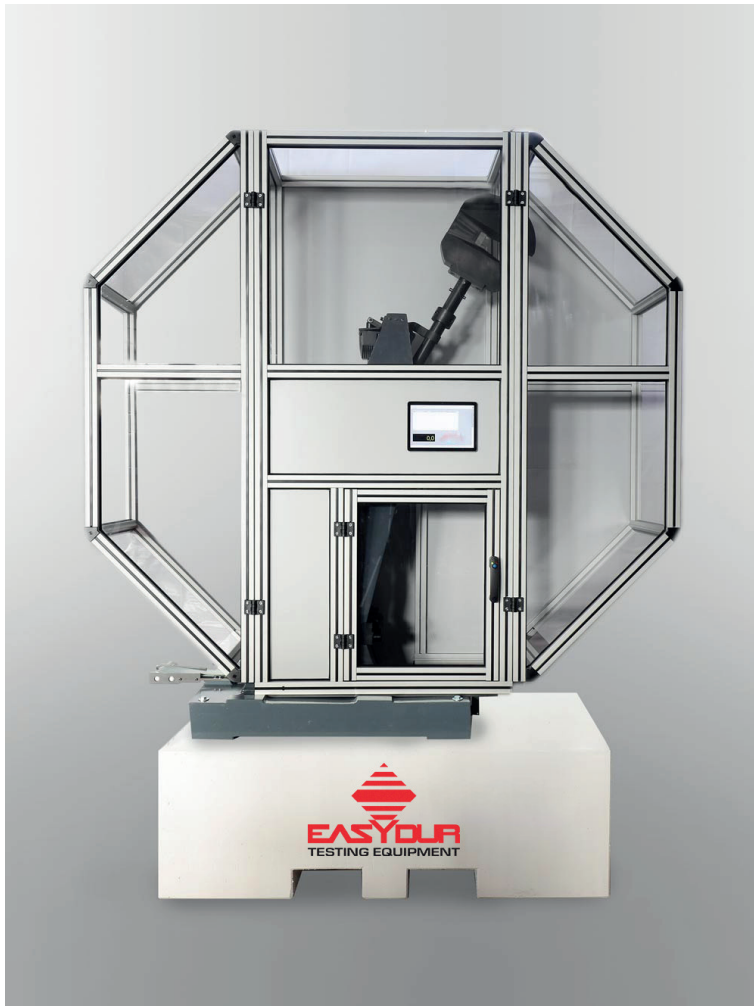
CHARPY PENDULUM FOR RESILIENCE TESTS



Product Information

The Charpy Pendulum allows to perform resilience tests, that is, to measure the energy absorbed by the breaking of a specimen with standardized shape and dimensions.

It finds a wide use, from industrial production control, to materials certification by Accredited Test Laboratories, up to research and development of new technologies in Universities and Research Centers.



Construction Features

The machine is composed by a monolithic basis and a swinging arm with a hammer with weight and size determined according to the corresponding normative requirements.

The whole range of Charpy Pendulums is built with a motorized arm-lifting system, which grants a fast and accurate repositioning of the hammer, to allow the next test.

The angle measurement is performed through an encoder, connected to a last-generation microprocessor which manages all the positioning and testing operations in total safety.

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All the machines are equipped with protective panels with front safety lock. The plinth is a highly recommended optional, which responds to the needs in fact of efficiency (according to the norms) related to rigidity and dimensions of the floor over which the machine is located.

Acquisition System

Our acquisition system allows to acquire, record and transmit test data. The database is sharable on the network (intranet) and the software can be used contemporaneously on different PCs, allowing the visualization and elaboration of test data from different workstations. Moreover, the software has advanced automatic features which respond to data loading and exporting needs imposed by Industry 4.0 standards.

The system is available for all the models, excluding the model JB3000 (digital).

Main Norms and 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 resilience at room temperature and low temperature |
| EN ISO 9016 | Destructive tests on welds in metallic materials - Impact tests - Test specimen location, notch orientation and examination |

| Model | JB300 | JB300E | JB450E | JB750E |
|-------------------------------|-----------------------------------|---|--------|---------|
| Maximum energy available | 300J | 300J | 450J | 750J |
| Reading Systems and Indicator | Analogico/LCD | Testing Software - Touch Screen Integrato | | |
| Resolution | 0.1 J | | | |
| Overall Dimensions | 2080 x 550 x 2060 mm | 2240 x 550 x 2150 mm | | |
| Overall Weight | 600 kg | 600 kg | 750 kg | 1150 kg |
| Alimentation | 0.75kW 230 VAC / 50 Hz / Monofase | | | |
| Data Interface | Serial | Web TCP/IP | | |

Models

M03300D01 300 J Digital Charpy Pendulum.

M03300S01 300 J Computerized Charpy Pendulum.

M03500S01 450 J Computerized Charpy Pendulum.

M03700S01 750 J Computerized Charpy Pendulum.



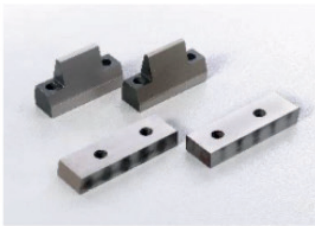
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Optional Accessories

Various optionals are available, such as low-temperature testing equipment

| | |
|-----------|--|
| P03300101 | Plinth for securing the Charpy Pendulum |
| V03010101 | Centering tool for specimens |
| V03010201 | 2,0 lt. Dewar flask |
| V03010401 | Tabletting machine for low-temperature specimens preparation |
| V03010501 | Digital thermometer with probe |



Cutting tool/accessories



Dewar Flask



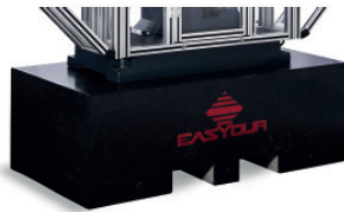
Tabletting machine



Digital Thermometer



Thermostatic Cell



Concrete Plinth



Broaching Machine



KV/KCU Broach