

CHARPY PENDULUM TESTERS FOR RESILIENCE TESTS

STANDARDS: UNI EN ISO 148-1, 9016 | ASTM E23, A370

The determination of **impact toughness** (resilience) is a critical step in the quality control and characterization of metallic materials. The **Charpy impact test** represents the gold standard for evaluating a material's ability to absorb energy during high-strain-rate impacts, providing essential data on the **ductile-to-brittle transition**.

Our range of **impact testers** is engineered to ensure maximum precision and to offer versatile solutions that vary from routine production line testing to advanced laboratory research.

The arm movement is motorized, with automatic positioning and release to ensure maximum operator safety and reduced testing times. A ground plate allows for proper machine levelling. Protective guards, compliant with the CE Safety Directive, are included and equipped with a electric microswitch.

The machines is PLC based with a 7" touch screen display. Both models are supplied with a striking edge conforming to EN standards, while the ASTM model is available as an accessory.

A concrete base must be prepared in advance for the installation of the Charpy pendulum.



H062M



H062-01M

**H062M
DIGITAL CHARPY PENDULUM TESTER**

This model combines reliability with operational simplicity. Its compact, streamlined design optimizes lab space while ensuring high precision. Perfect for routine testing and standard workloads.

Impact energy: 300 J

Power supply: 380V 3ph 50Hz 550W

Dimensions: 2060x830x2280 mm

Weight: 1040 kg

**H062M1
DIGITAL CHARPY PENDULUM TESTER**

Same as model H062M but with impact energy of 500 J

**H062-01M Heavy-duty
DIGITAL CHARPY PENDULUM TESTER WITH
OVERSIZED BASEMENT**

This model features a monolithic base and a robust structure, making it particularly suitable for intensive use and for high-volume laboratories. It includes a conveyor belt that automatically removes broken specimens at the end of the test to reduce operating time.

Impact energy: 300 J

Power supply: 380V 3ph 50Hz 1.5kW

Dimensions: 2100x1000x2300 mm

Weight: 1200 kg approx.

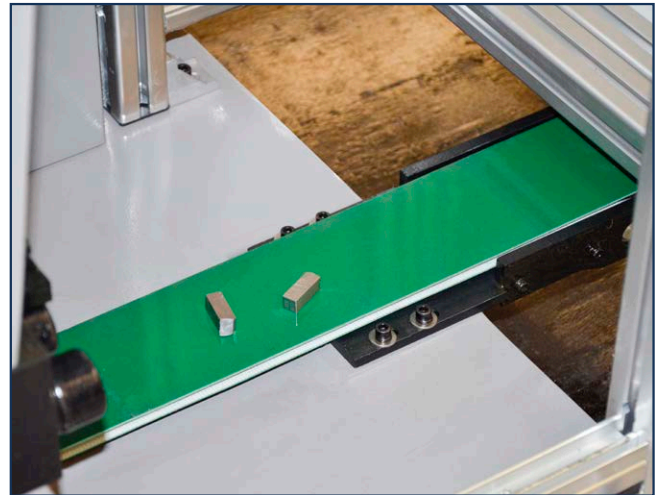
**H062-01M1 Heavy-duty
DIGITAL CHARPY PENDULUM TESTER WITH
OVERSIZED BASEMENT**

Same as H062-01M but with impac energy of 450 J

 **Note:** other capacities are available on request. Possibility to add Izod test on request.



Specimen positioning on H062-01M using pliers H054



Broken specimen on the conveyor belt of H062-01M



Control panel of H062M



H052

H054

ACCESSORIES

- H062-03M** STRIKING EDGE according to ASTM standards for H062M and H062M1
- H062-04M** STRIKING EDGE according to ASTM standards for H062-01M and H062-01M1
- H062-04** CERTIFIED SAMPLES low energy for Charpy pendulum verification, certificate included, pack of 5 pieces.
- H062-05** CERTIFIED SAMPLES medium energy for Charpy pendulum verification, certificate included, pack of 5 pieces.
- H062-06** CERTIFIED SAMPLES high energy for Charpy pendulum verification, certificate included, pack of 5 pieces.
- H062-07** CERTIFIED SAMPLES ultra-high energy for Charpy pendulum verification, certificate included, pack of 5 pieces.
- H052** COOLING BATH, stainless steel made. Complete with cover and specimen rack.
- H054** SPECIAL-SHAPED PLIERS to take cooled specimens from the bath and place them directly into the Charpy Pendulum.

H057N1 AUTOMATIC BROACHING MACHINE

Used to mark V-type and a U-type notches on Charpy specimens. Supplied complete with broaches.



H057N1