

## IMPACT SPECIMEN NOTCHER MACHINE Model MNC-10

Equipment designed to perform standard notches on samples, which are subsequently subjected to mono-axial impact resistance tests, according to the CHARPY and IZOD procedures.

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**TECHLAB**SYSTEMS

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## APPLICABLE STANDARDS

ISO 179 / 180 - DIN 53.453 - ASTM D 256

## GENERAL INFORMATION

The notch in both the Charpy and Izod test specimens is suitable for concentrating stress, minimizing plastic deformation, and directing fracture to the part of the specimen behind the notch. The dispersion in energy at break is thus reduced. However, due to differences in the elastic and viscoelastic properties of plastics, the response to a given notch varies between different materials.

The cutting tool of the notching machine has a vertical cyclical movement.

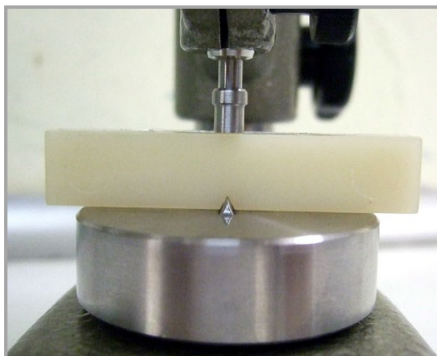
Equipped with transparent methacrylate safety screen to avoid accidents to operators.

The advance or approach of the sample to the cutting tool is carried out manually by turning the front knob, this has a graduated scale to specify said advance.

## Technical characteristics:

- The **standard supply includes** the following **two blades**, both with a fixed angle of  $45^{\circ} \pm 1^{\circ}$ :
  - ✓ **Type “A” blade: radius 0.25 mm  $\pm$  0.05mm**  
In accordance with regulations: Charpy ISO 179, Charpy ASTM D6110, Izod ISO 180, Izod ASTM D256.
  - ✓ **Type “B” blade: radius 1 mm  $\pm$  0.05mm**  
In accordance with regulations: Charpy ISO 179 and Izod ISO 180.
- Built-in **analog micrometer** for measuring notch depths from 0-25 mm with a resolution of 0.01 mm
- With **variable speed** to cover a wide range of materials
- With **Safety Protection Screen**
- The cutting **blades** are made of **high-speed steel and heat treated**
- CE Marked

**OPTIONAL:** Benchtop micrometers



For measuring the depth of the notches produced.



**ANALOG MICROMETER MIP-20**  
(resolution 0.01mm)  
Verification of the depth of the "V" notches



**DIGITAL MICROMETER MIP-20D**  
(resolution 0.01mm)  
Verification of the depth of the "V" notches

IMPACT SPECIMEN NOTCHER MACHINE							
Model	Application	Blade oscillation Speed rpm	Blade angle °	Analog depth micrometer mm	Dimensions W x D x H / mm	Weight kg	Power W
MNC-10	Impact specimen notches	0-225	45° ±1°	0-25 ±0,001	550x300x225	24	200

**POWER SUPPLY:** 110V/60Hz or 220V/50Hz single-phase

**DIMENSIONS OF TRANSPORT PACKAGING:** 740 x 500 x 410 mm (W x D X H)

**GROSS WEIGHT:** 52 Kg (Wood packaging with phytosanitary treatment)

**STANDARD SUPPLY CONTENT**

- \* Notching machine for Charpy and Izod specimen model MNC-10
- \* 1 Type "A" blade: radius 0.25 mm ± 0.05 mm
- \* 1 Type "B" blade: radius 1 mm ± 0.05 mm