



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.

TECHLABSYSTEMS

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.

It is possible to simultaneously notch up to 3 grouped specimens, naturally depending on the plastic material and its characteristics.

Technical characteristics:

- **2 blades** * with fixed angle of $45^{\circ} \pm 1^{\circ}$:
 - **1 according to ASTM D 256** with a radius of $0.25 \text{ mm} \pm 0.01 \text{ mm}$
 - **1 according to ISO 179/180** to choose from:

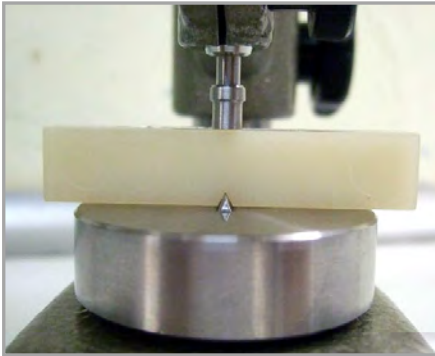
Type A with radius of $0.25 \text{ mm} \pm 0.05 \text{ mm}$

Type B * with radius of $1 \text{ mm} \pm 0.05 \text{ mm}$

Type C with radius of $0.1 \text{ mm} \pm 0.02 \text{ mm}$

* *The standard supply includes 1 Cutter ISO 180 type B*

- Depth Micrometer Mitutoyo, 0-25 mm with 0.01 mm in resolution
 - With variable speed to cover a wide range of materials
 - With Safety Protection Screen
- ✓ If no other type of blade is indicated, **the standard supply includes 1 ISO 180 type B blade**
- ✓ The cutting blades are made of high speed steel and heat treated



For measuring the depth of notches



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 specimens model MNC-10
- * 1 Blade - 45 ° angle, with 0.25 mm radius (according to ASTM)
- * 1 Blade - 45° angle, type B with 1 mm radius (according to ISO)