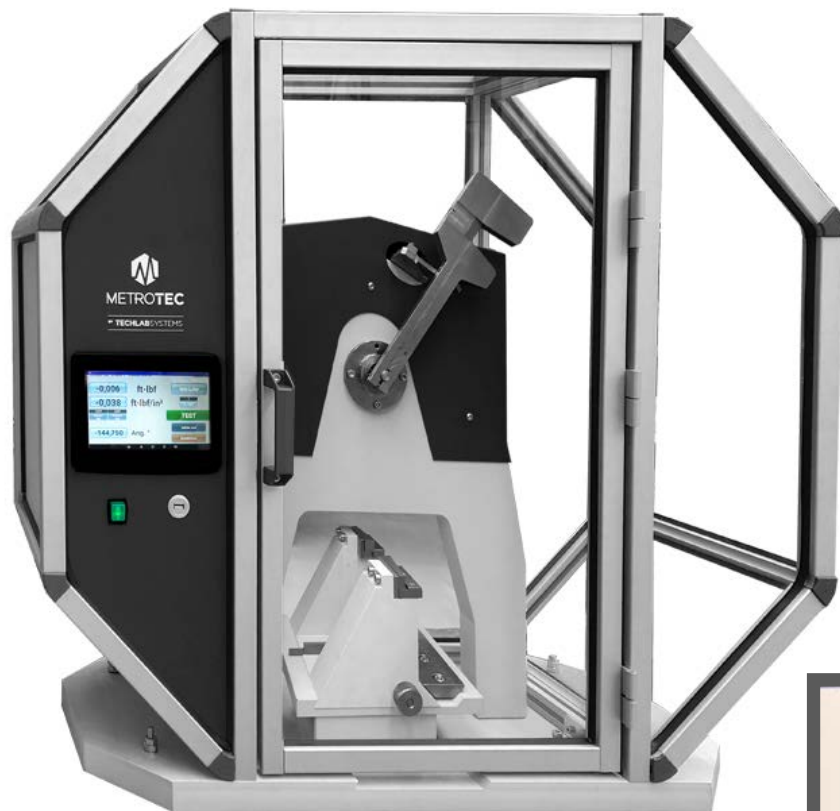


“CHARPY-IZOD” PENDULUM IMPACT TESTER PIT-25 model

For impact strength testing on rigid plastics, composites, ceramics ...

According to standards: ASTM D 6110 and ISO 179 (Charpy test) - ASTM D 256 and ISO 180 (IZOD test)



Essentially, the impact test is one of the most important properties of materials and is defined as a single point test that measures a materials resistance to impact of a pendulum. The mass and the drop height define a kinetic energy that is recorded digitally. This test can be used as a fast and easy controlling quality to determine whether a material meets specific impact properties or to compare the impact resistance of materials in general

Compatible with:



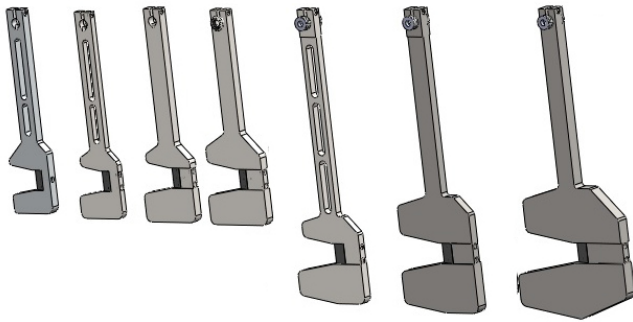
Statistics Screen

- ❑ Impact energy range: 0 a 25 Joules
- ❑ Units: Joules and KJ/ m²
- ❑ Reading resolution: 0,001 J and 0,1 KJ/ m²
- ❑ Release angle of Impact Hammer: 150°
- ❑ Speeds Charpy Impact Hammers 0,5-1-2-4-5 with J = 2.9 m / s
- ❑ Impact speeds with the rest of hammers Charpy and Izod = 3.8 m / s
- ❑ Digital Display with self-adjusting functions of the impact hammer used, with compensation for lost energy by the action of friction (the axis of rotation and air)
- ❑ Screen protection polycarbonate test area to avoid operator accidents, according to 89/392 / EEC, with electrical locking system when opening the door.
- ❑ Automatic brake to stop the oscillation of the impact hammer after each test.
- ❑ RS-232 port to PC connection and USB port for export data to a Pen Drive
- ❑ Compatible with Integrated Management System Test **LYNX**
- ❑ Optional Metal Base and adaptable to meet ISO standards when impact hammers are used with energy >15 J
- ❑ Modular construction (impact hammer available as standard or materials)
- ❑ Easy to use and robust construction
- ❑ Impact energy readings on the front Touch Screen Digital Display
- ❑ Impact Hammers Interchangeable easy to install
- ❑ Optimized center of percussion that minimizes vibration of the hub

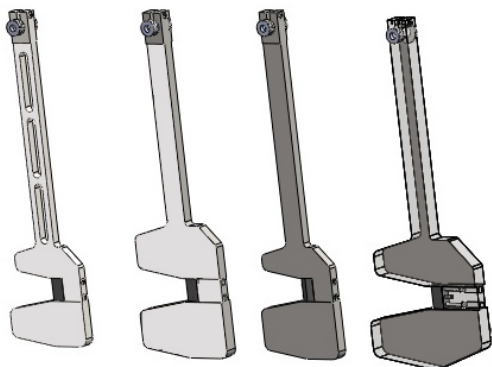
OPTIONS:

- Impact Testing **SOFTWARE** Charpy / Izod (Code 10007504)
- Advanced data management module, with Statistics Reports (Code. 10007650)

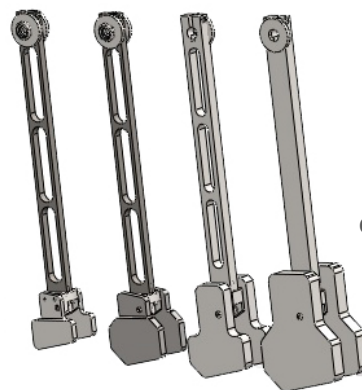




IZOD Impact Hammer (ASTM e ISO)



CHARPY Impact Hammer (ASTM)



Charpy impact hammer according to ISO

Code. 10005409 – **Support sample holder CHARPY** impact testing according to **ASTM** standards

Code. 10002028 – **CHARPY Impact hammer** according to **ASTM** standards with impact energy of **2,7 Joules**

Code. 10002029 – **CHARPY Impact hammer** according to **ASTM** standards with impact energy of **5,4 Joules**

Code. 10002028 – **CHARPY Impact hammer** according to **ASTM** standards with impact energy of **10,8 Joules**

Code. 10002028 – **CHARPY Impact hammer** according to **ASTM** standards with impact energy of **21,6 Joules**

Code. 10004986 – **Support sample holder CHARPY** impact testing according to **ISO** standards

Code. 10005379 – **Spacer** (lift height sample holder) for use with Charpy impact hammers (ISO) short, with impact energies of 1 - 2 - 4-5 Joules

Code. 10002021 – **CHARPY Impact hammer** according to **ISO** standards with impact energy of **1 Joule**

Code. 10002022 – **CHARPY Impact hammer** according to **ISO** standards with impact energy of **2 Joules**

Code. 10002023 – **CHARPY Impact hammer** according to **ISO** standards with impact energy of **4 Joules**

Code. 10002024 – **CHARPY Impact hammer** according to **ISO** standards with impact energy of **5 Joules**

Code. 10002025 – **CHARPY Impact hammer** according to **ISO** standards with impact energy of **7,5 Joules**

Code. 10002026 – **CHARPY Impact hammer** according to **ISO** standards with impact energy of **15 Joules**

Code. 10002027 – **CHARPY Impact hammer** according to **ISO** standards with impact energy of **25 Joules**

Code. 10005920 – **Support sample holder IZOD** impact testing according to **ASTM** and **ISO** standards

Code. 10004982 – **IZOD** impact hammer according to **ASTM** and **ISO** standards with impact energy of **2,75 Joules**

Code. 10004983 – **IZOD** impact hammer according to **ASTM** and **ISO** standards with impact energy of **5,5 Joules**

Code. 10004984 – **IZOD** impact hammer according to **ASTM** and **ISO** standards with impact energy of **11 Joules**

Code. 10004985 – **IZOD** impact hammer according to **ASTM** and **ISO** standards with impact energy of **22 Joules**

For strict compliance with international standards using impact hammers > 15 Joules, we offer 2 options:

Code. 10005917 - **Metal base plate** for attachment to the base of the pendulum PIT-25

Code. 10005417 - **Table support** (composed of the steel base plate Code. 5917 + 4 Legs)

OPTIONAL: Software Module Testing and Data Acquisition “CHARPY – IZOD” Code. 10007504



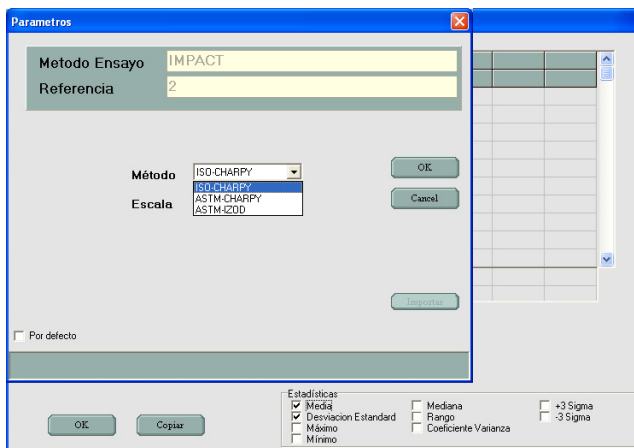
PC not included



Graphic representation of IMPACT ENERGY

Through this Test Module can operate individually, the data in a PC monitored digitally and graphically in Tests / Laboratory Measurements

- It marks Maximum-Minimum-Medium Values and Standard Deviation
- Up to 100 tests storing capacity for each report
- SAVE-PRINT-OFFICE CLIPBOARD Functions – Reports in PDF format



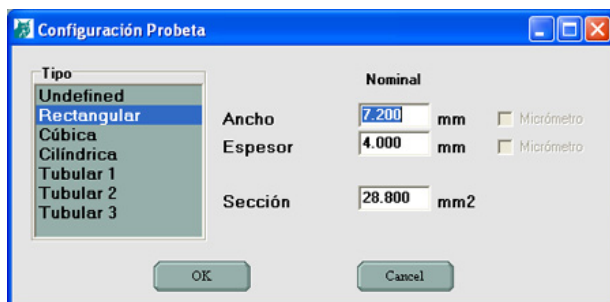
Metodo Ensayo: IMPACT
Referencia: 2

Método: ISO-CHARPY
Escala: ISO-CHARPY, ASTM-CHARPY, ASTM-IZOD

Por defecto: ☐

Estadísticas: ☒ Media, ☒ Desviación Estandar, ☒ Máximo, ☒ Mínimo, ☐ Mediana, ☐ Rango, ☐ Coeficiente Varianza, ☐ +3 Sigma, ☐ -3 Sigma

Test Parameters Menu for data such as type of Charpy or Izod test methods impact strength according to ASTM, ISO... in different units ..



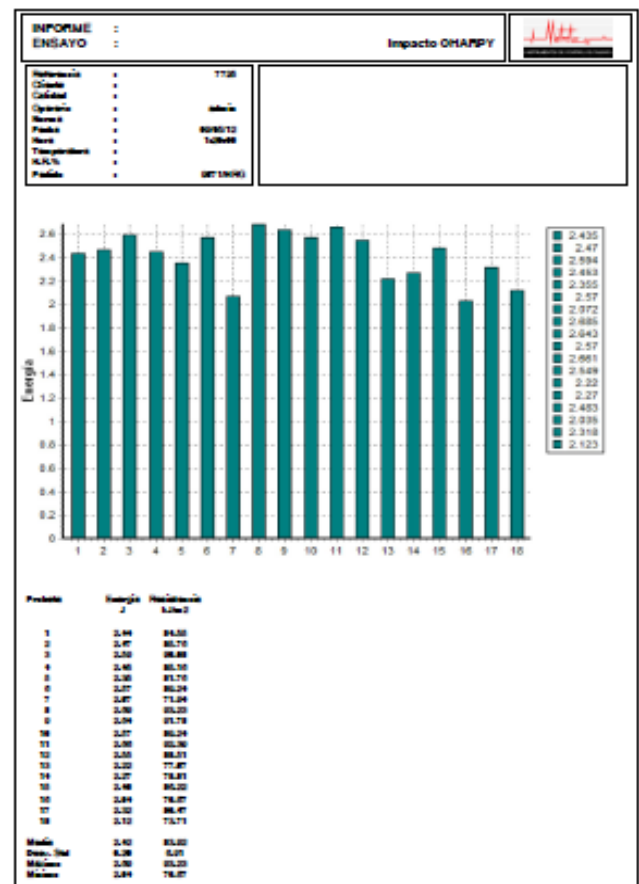
Tipo: Rectangular

Ancho: 7.200 mm

Espesor: 4.000 mm

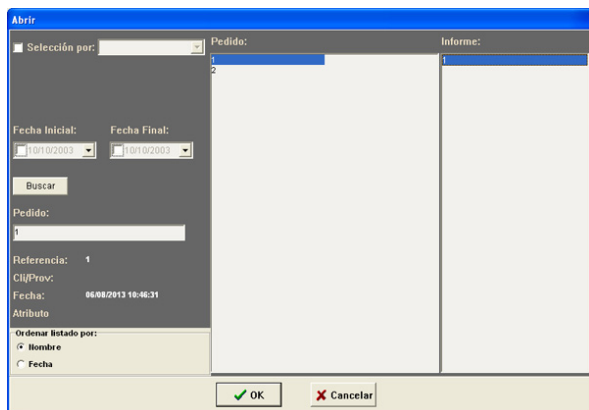
Sección: 28.800 mm²

Setup Menu Test Sample: data such as dimensional measurements of the sample (thickness, width ...).



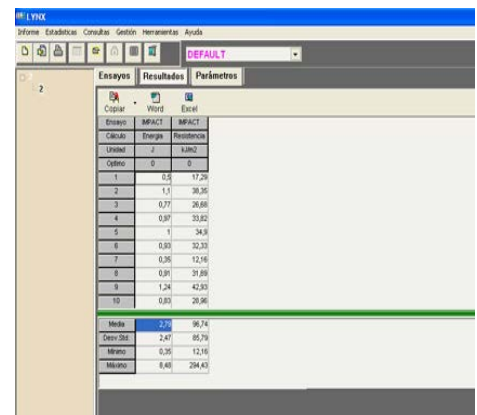
2/ Advanced data management module, with Statistics Reports - Code. 7650

- User input screen by password, to access the main menu
- Setup Menu to enter the general data of the report: company name, operator reference, batch, etc.



Access to the menu of:

- TESTS
- RESULTS
- PARAMETERS



Ensayo	IMPACTO	IMPACTO	Cálculo	Energía	Resistencia	Unidad	Resultado
1	0.5	17.25	0	0	0	J	0
2	1.1	38.35	0	0	0	J	0
3	0.77	26.68	0	0	0	J	0
4	0.87	33.82	0	0	0	J	0
5	1	34.8	0	0	0	J	0
6	0.83	32.33	0	0	0	J	0
7	0.95	32.16	0	0	0	J	0
8	0.91	31.64	0	0	0	J	0
9	1.24	42.93	0	0	0	J	0
10	0.83	32.96	0	0	0	J	0

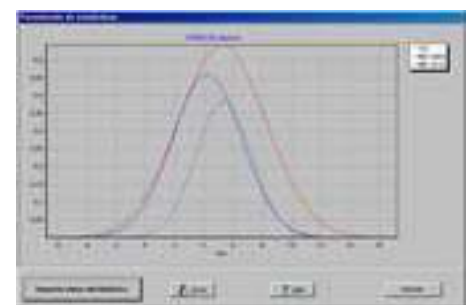
User input screen by password, to access the main menu



Comparative Tolerance



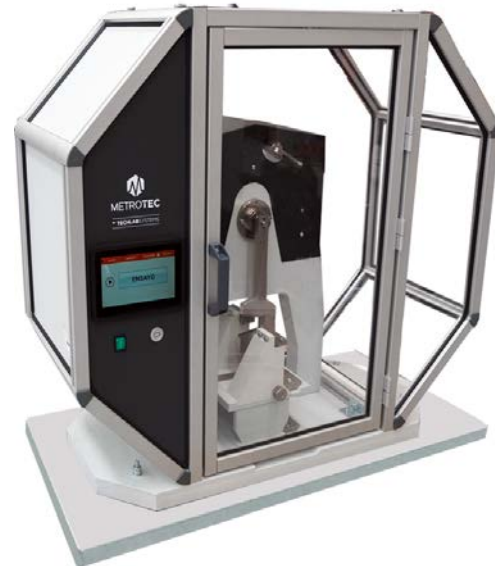
Bar charts



GAUSS bells



Impact Test Pendulum PIT-25 + table Support
(compliance to standards >15Joules)



Pendulum Impact Test on steel base 1000x600x20 mm
(compliance standards >15 Joules)

CONNECTION:

Electrical: 220 / 110 V Single-phase 50 ó 60 Hz

WEIGHTS & DIMENSIONS:

Dimensions approx.: 1000 x 446 x 940 mm (W X D X H)

BOX Dimensions : 1200 x 650 x 1150 mm (W X D X H)

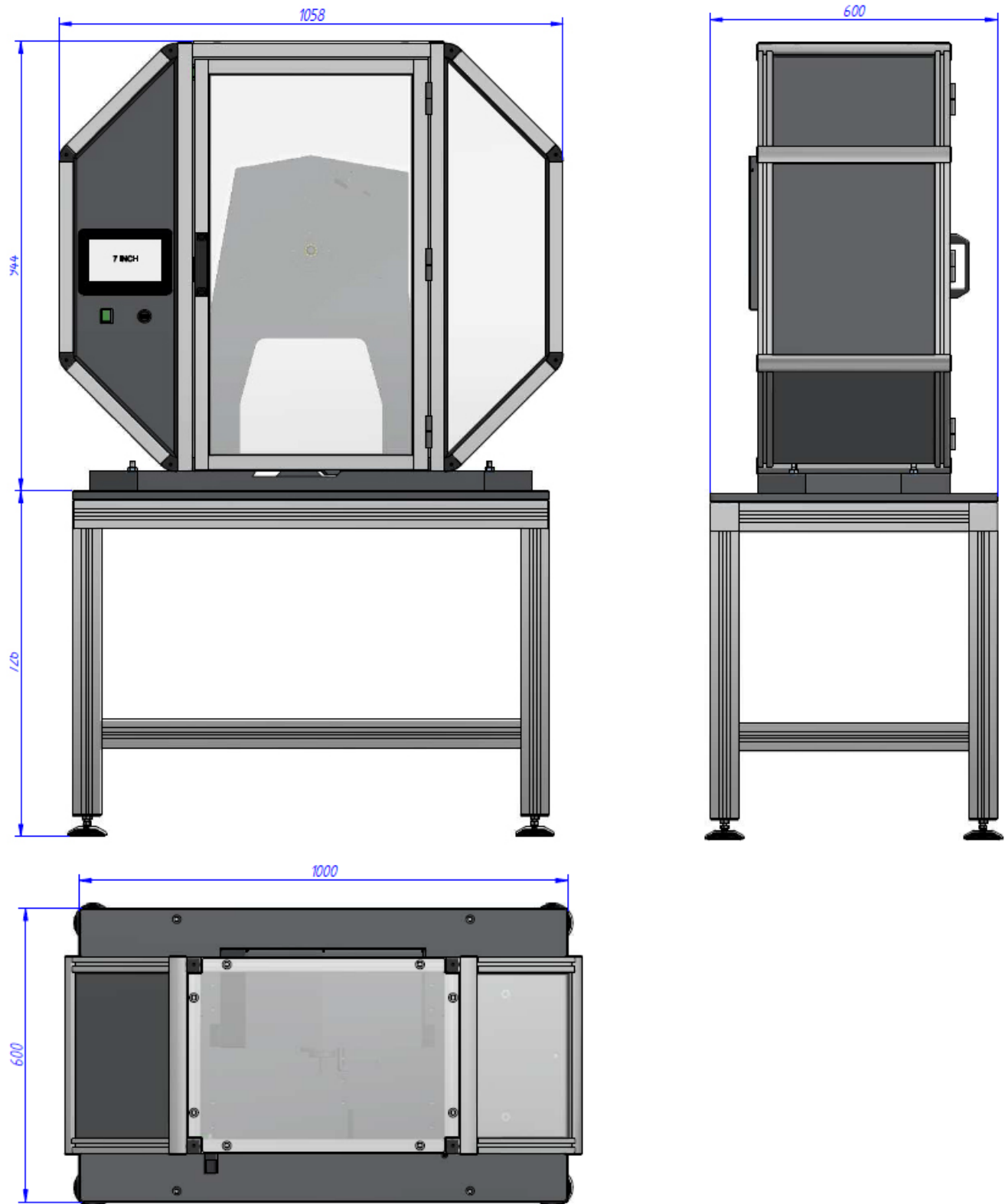
Net/Gross Weights: 200 Kg / 285 Kg

* Depending on the number of hammers change the weights (Complete Set of Impact Hammers - Net Weight = 35 Kg)

DELIVERY CONTENT:

- > Impact Tester PIT-25
- > Grips + Impact test Hammer (Charpy / Izod) (Ordering)
- > User Manual





Net Weight Approx. Pendulum Impact PIT-25 = 200 Kg

Net Weight Approx. Pendulum Impact PIT-25 + Table Stand (compliance standards> 15Joules) = 305 Kg

Net Weight Approx. steel base plate 1000x600x20 mm steel (compliance standards> 15Joules) = 94 Kg