



## FALLING DROP WEIGHT IMPACT TESTER Model FIT-1000

Equipment designed to determine the resistance to impact by free fall of an impact hammer from different heights (until 1m) in samples of **plastic pipes and systems for conducting electrical and fiber optic cables.**



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**TECHLAB**SYSTEMS

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Drop weight impact test equipment is mainly used to determine the impact resistance of plastic pipes and fittings under specified conditions of impact by means of a drop in weight. Interchangeable impact hammers are used, differing in geometric configuration.

### APPLICABLE STANDARDS

DIN BS UNE-EN 61386-1, DIN BS UNE-EN 61386-24, DIN BS UNE EN 60794-1-21, IEC 60794-1-21, IEC 61386-1, IEC 61386-24

### GENERAL INFORMATION

#### Frame.

Made of a structural profile and designed to go directly on the ground. In the lower front area it has access doors for mounting the impact hammers and the placement of test samples.

The lower area between the frame profiles is completely free to house and fix the supplied foot or column to the ground. In this way, the impact is absorbed directly by the ground and not by the body of the frame. The base profiles of the frame have 4 threaded shafts for leveling the equipment.

The front of the column has a peephole that allows the operator to see the up and down movements of the impact hammers.

#### Support Base or Sample Holder.

Composed of a steel base, a structural profile or foot and a housing for the different supports in the upper part. The base has 4 holes that allow it to be fixed to the ground.

- **DIGITAL Touch Screen Control and Visualization Module with activation buttons and programming of the impact drop height, you can choose the one you want between 0 and 1000 mm, and reset.**
- **Base supports to choose from 12 and 110 mm nominal diameter of tube to be tested.**
- **Trigger safety device before the front door opening.**
- **Impact hammers and "V" supports to be chosen according to tube diameters.**
- **Lifting the strikers by electric drive.**
- **Guided hammer support**
- **Retention of the striker by electromagnet.**





**The standard supply does not include strikers or sample holders**, a range available at your choice according to the diameters of the plastic pipes to be tested:

#### **IMPACT HAMMERS:**

**Code 10013375 - Impact Hammer D20 / R300 (according to DIN BS UNE-EN and IEC 61386-1)**

provide the different impact energies indicated in each standard:

Diameter 20 mm and Radius = 300 mm

Striker mass = 0.5 Kg

With the hammer without weights to perform of impacts with a mass of **0.5 Kg**

With an additional weight of 0.5 kg, the resulting mass is **1.0 kg**.

**Code 10013375 - Impact Hammer D20 / R300 (according to DIN BS UNE-EN and IEC 61386-1)**

provide the different impact energies indicated in each standard:

Diameter 20 mm and Radius = 300 mm

Striker mass = 1.0 Kg

With the hammer without weights to perform of impacts with a mass of **1.0 kg**

With an additional weight of 1.0 kg, there is a maximum resulting mass of **2.0 kg**.

With additional weights of 1.8 Kg + 2 Kg + 2 Kg you have a resulting mass of **6.8 Kg**

**Code 10013377 - Impact Hammer D35 / R25 (according to DIN BS UNE-EN and IEC 61386-24)**

provide the different impact energies indicated in each standard:

Diameter 35 mm and Radius = 25 mm

Striker mass = 1.0 Kg

With the hammer without weights to perform of impacts with a mass of **1.0 kg**

With an additional weight of 2.0 kg, there is a maximum resulting mass of **3.0 kg**

With additional weights of 2 Kg + 2 Kg you have a resulting mass of **5.0 Kg**

**Code 10013376 - Impact Hammer D20 / R10 (according to DIN BS UNE-EN and IEC 60794-1-21)**

provide the different impact energies indicated in each standard:

Diameter 20mm and Radius = 10mm

Striker mass = 0.5 Kg

With the hammer without weights to carry out impacts with a mass of **0.5 Kg**

With an additional weight of 0.5 Kg, there is a maximum resulting mass of **1.0 Kg**

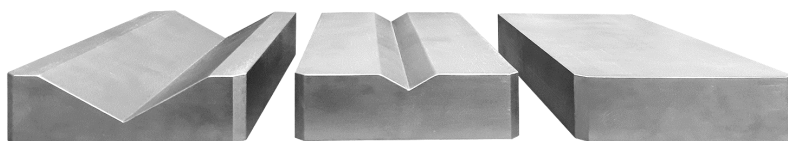
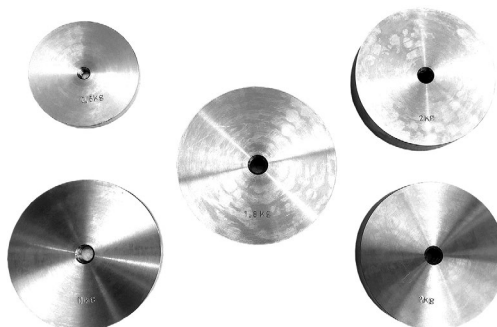
## CYLINDER MASSES

Code 10013378 - **Cylindrical mass of 500g**

Code 10013378 - **Cylindrical mass of 1,0 Kg**

Code 10013380 - **Cylindrical mass of 2,0 Kg**

Code 10013381 - **Cylindrical mass of 1,8 Kg**



## SAMPLE HOLDERS:

Code 10013382 - **V12-40 V-shaped 120° sample holder for testing PLASTIC PIPES**

Minimum pipe diameter: 12 mm

Minimum pipe diameter: 40 mm

Code 10013383 - **V40-110 V-shaped 120° sample holder for testing PLASTIC PIPES**

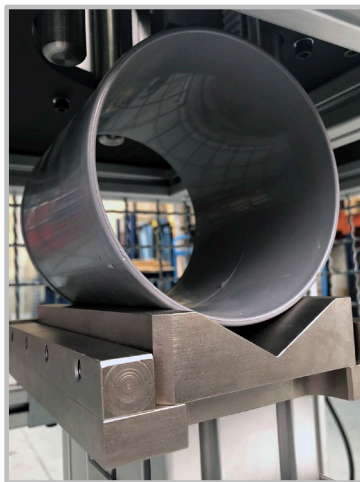
Minimum pipe diameter: 40 mm

Minimum pipe diameter: 110 mm

Code 10013384 - **Flat support to test ELECTRICAL & OPTI**

## Perimeter security cabin included

- On request it is possible to supply supports for larger pipe diameters.

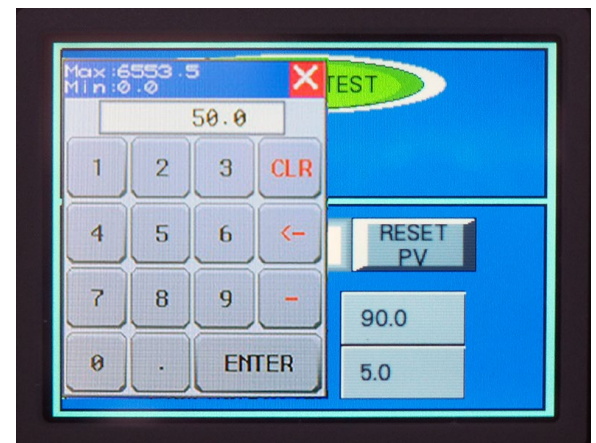
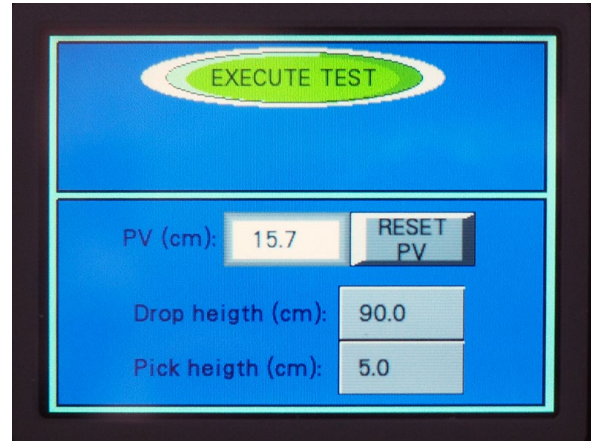


## OPTIONAL

Digital module reading of the impact hammer speed in meters / second







FREE FALL IMPACT TESTS EQUIPMENT							
Model	Application	Hammer drop height mm	Pipe diameters to be tested mm	Impact masses	Dimensions W x D x H /mm	Weight kg	Power Kw
FIT-1000	Impact resistance of plastic pipes, electrical and optical cables	1.000	12-110	0,5-1-2-1,8 Kg	760x830x2170	185	1 Kw

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

**TRANSPORT PACKAGING DIMENSIONS:** 2340 x 900 x 900 mm (Length x Width x Depth)

**GROSS WEIGHT:** 270 Kg (Wooden packaging with phytosanitary treatment)

#### CONTENT OF THE STANDARD SUPPLY:

- \* Impact Testing Machine model FIT-1000+ Specimen holder support base, with the hammers and specimen holders that have been purchased.