



## FALLING DROP WEIGHT IMPACT TESTER Model FIT-2000/A

Equipment designed to determine the resistance to impact by free fall of an impact hammer from different heights in samples of plastic pipes.



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**TECHLABSYSTEMS**

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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 strikers are used, differing in geometric configuration.

### **APPLICABLE STANDARDS**

**DIN UNE EN ISO 3127: by the round the clock method**

### **GENERAL INFORMATION**

The equipment consists of a base with housing for the 800 x 600 mm steel specimen holders, and a frame-guide through which the impact hammer that provides the impact slides vertically, with a motorized lifting system.

The specimen holders are easily interchangeable with easy height adjustment by means of an endless spindle and turning handles to raise or lower the specimen holder..

- **Maximum impact capacity 16 Kg of mass from 2 meters high.**
- **Maximum impact energy: 300 Joules**
- **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 2000 mm, and reset.**
- **Sample holder supports to choose from 20 and 630 mm nominal tube diameter.**
- **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.**
- **Briefcase with the set of additional masses**





**The standard supply does not include Impact Hammers or Specimen Holders**, a range available at choice according to the diameters of the Plastic pipe to be tested:

**Code 10005226 - Impact Hammer D25-08:** Diameter 25 mm and mass of the hammer = 0.25 Kg  
With the hammer without weights for the realization of impacts with mass of **0.25Kg**

1 Weight of 250 g (to achieve an impact of **0.5 Kg**)  
1 Weight of 300 g (to achieve impact of **0.8 Kg**)

**Cod. 10005227 - Impact Hammer D90-25:** Diameter 90 mm and mass of the hammer = 1 Kg  
With the hammer without weights for the realization of impacts with mass of **1.00Kg**

1 Weight of 250 g (to achieve impact of **1.25 Kg**)  
1 Weight of 350 g (to achieve impact of **1.60 Kg**)  
1 Weight of 400 g (to achieve an impact of **2.00 Kg**)  
1 Weight of 500 g (to achieve an impact of **2.50 Kg**)

**Code 10005228 - Impact Hammer D90-80:** Diameter 90 mm and mass of the hammer 3,2 Kg  
With the hammer without weights for the realization of impacts with mass of **3.20Kg**

1 Weight of 800 g (to achieve an impact of **4.00 Kg**)  
1 Weight of 1Kg (to achieve impact of **5.00 Kg**)  
1 Weight of 1.3 Kg (to achieve an impact of **6.30 Kg**)  
1 Weight of 1.7 Kg (to achieve impact of **8.00 Kg**)

**Code 10005229 - Impact Hammer D90-160:** Diameter 90 mm and mass of the hammer 10 Kg  
With the hammer without weights for the realization of impacts with mass of **10.00Kg**

1 Weight of 2.50 Kg (to achieve impact of **12.50 Kg**)  
1 Weight of 3.60 Kg (to achieve impact of **16.00 Kg**)

**Code 10005238 - V20-200 "V" shaped sample holder**

Minimum tube diameter: 20 mm  
Maximum tube diameter: 200 mm  
Tube length: 200 mm

**Code 10005239 - "V" -shaped Sample Holder V200-400**

Minimum tube diameter: 200 mm  
Maximum tube diameter: 400 mm  
Tube length: 200 mm

**Code 10005240 - V400-630 V-shaped Sample Holder Holder**

Minimum tube diameter: 400 mm  
Maximum tube diameter: 630 mm  
Tube length: 200 mm

• **Included perimeter security cabin**

(internal dimensions 680 mm x 340 mm x 700 mm (Width x Depth x Height))

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



**NOTE:** We can build the impact resistance test equipment in accordance with the **ASTM D 2444** standard with a **drop height of the impact hammer of 3 m** (consult).

**Optional Impact Hammers per ASTM D 2444:**

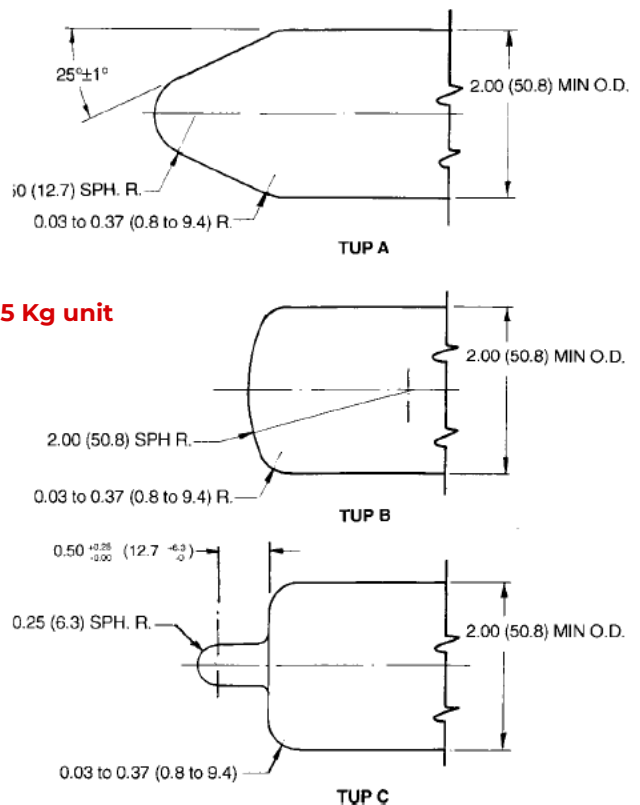
Code 10005246 - **Type "A" Impact Hammer**

Code 10005247 - **Type "B" Impact Hammer**

Code 10005248 - **Type "C" Impact Hammer**

(Each impact hammer has a weight of 2.5 Kg)

Code 10005251 - **Set of 5 additional weights of 2.5 Kg unit**



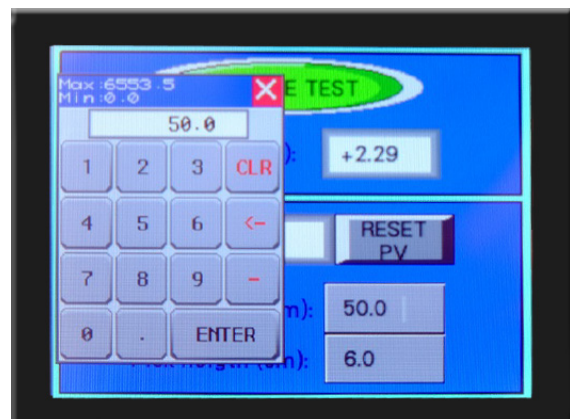
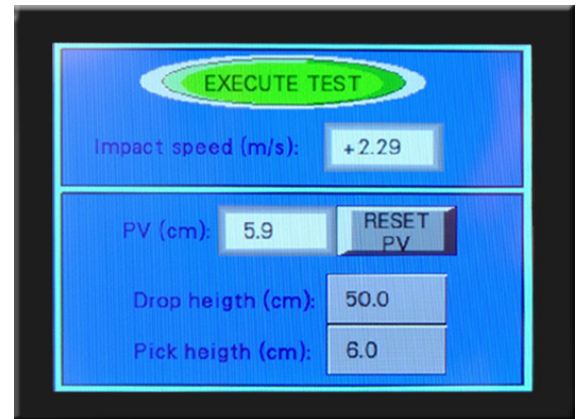
With the combination of impact strikers and their masses, total impact striker weights of:

- 2,5 Kg (without additional masses)
- 5 Kg (adding to the selected firing pin 1 mass of 2.5 Kg)
- 10 Kg (adding to the selected firing pin 3 masses of 2.5 Kg each)
- 15 Kg (adding to the selected firing pin 5 masses of 2.5 Kg each)

**OPTIONALS:**

Code 10002371 - **Impact hammer free fall extension kit from a height of 3 meters**

Cod. 10002372 - **Digital module reading the speed of the impact hammer during the fall, in meters / second**



FALLING DROP WEIGHT IMPACT TESTER							
Model	Application	Impact hammer drop height mm	Pipe diameters mm	Maximum impact energy Joules	Dimensions An x F x Al /mm	Weight kg	Power A
FIT-2000/A	Impact resistance of plastic pipes	2.000	20-630	300	950x750x3600	260	10

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

**TRANSPORT PACKAGING DIMENSIONS (1):** 950 x 750 x 1200 mm (W x D X H)

**TRANSPORT PACKAGING DIMENSIONS (2):** 2500x 550 x 550 mm (Length x Depth X Height)

**GROSS WEIGHT:** 370 Kg (Wood packaging with phytosanitary treatment)

#### CONTENTS OF THE STANDARD SUPPLY:

- \* Impact Testing Equipment model FIT-2000/A with the impact hammers and sample holders that have been purchased.