

FALLING DROP WEIGHT IMPACT TESTER “FIT-2000/A”

Determination of impact resistance by free fall of an impact head in samples of plastic pipes

According to the Standards: **UNE EN 744 – ISO 3127:** Round-the-clock method
EN 1411: staircase method
ASTM D 2444 (A – B y C Impact Strikers)

The falling drop weight Impact tester is mainly used to determine of the impact resistance of thermoplastic pipes and fittings under specified conditions of impact by means of a falling weight. Interchangeable striking noses are used, differing in the geometrical configuration.

The equipment consists of a base with housing of the steel test cases of dimensions 800 x 600 mm, and a guide frame where the striker that provides the impact vertically, with a motorized lifting system.

The sample holders are easily interchangeable with simple adjustment of their height by means of an endless spindle and turning levers to raise or lower the sample holder.

- ✓ Maximum impact capacity 16 kg of mass from 2 meters in height.
- ✓ Maximum Impact Energy: 300 Joules
- ✓ DIGITAL module for the Control and Visualization with actuator and keyboard pushbuttons for the programming of the impact drop height, you can choose between 0 and 2000 mm and set to zero.
- ✓ Base holders to choose from 20 and 630 mm nominal pipe diameter.
- ✓ Safety device for tripping the front door opening.
- ✓ Impact struts and "V" supports to be chosen according to tube diameters.
- ✓ Lifting of the hammers by electric drive.
- ✓ Guided firing support
- ✓ Retention of the hammer by electromagnet.
- ✓ Briefcase with additional set of masses



Total Security Cabin

NOTE: On request, we can supply test equipment for samples of larger size and other weights in impact hammers.



- ❑ Standard supply does not include Impact Impactors nor Sample Holder, available range depending on pipe diameters Plastic to be tested:

Code 5226 – **Impact Hammer D25-08:** Diameter 25 mm and striker mass = 0.25 Kg
With the striker without weights for the realization of impacts of 0.25Kg

- 1 Weight of 250 g (to achieve impact of 0.5 kg)
- 1 Weight of 300 g (to achieve impact of 0.8 kg)

Code 5227 - **Impact Hammer D90-25:** Diameter 90 mm and striker mass = 1 Kg
With the striker without weights for the realization of impacts of 1 Kg

- 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 impact of 2.00 kg)
- 1 Weight of 500 g (to achieve impact of 2.50 kg)

Code 5228 - **Impact Hammer D90-80:** Diameter 90 mm and striker mass = 3.2 Kg
With the striker without weights for the realization of impacts of 3.2 Kg

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

Code 5229 - **Impact Hammer D90-160:** Diameter 90 mm and striker mass = 10 Kg
With the striker without weights for the realization of impacts of 10 Kg

- 1 Weight of 2.50 g (to achieve impact of 12.50 kg)
- 1 Weight of 3.60 g (to achieve impact of 16.00 kg)

Code 5238 - **Support V-shaped sample holder V20-200**
Minimum pipe diameter to be tested: 20 mm
Maximum pipe diameter to be tested: 200 mm
Length of tube to be tested: 200 mm

Code 5239 - **Support V-shaped sample holder V200-400**
Minimum pipe diameter to be tested: 200 mm
Maximum pipe diameter to be tested: 400 mm
Length of tube to be tested: 200 mm

Code 5240 - **Support V-shaped sample holder V400-630**
Minimum pipe diameter to be tested: 400 mm
Maximum pipe diameter to be tested: 630 mm
Length of tube to be tested: 200 mm

- With perimeter security cabin
- It is possible on request to supply supports for larger pipe diameters.



NOTE: We can build the impact resistance test equipment according to **ASTM D 2444** with drop height of the striker impact of **3 m** (please consult).

Impact Hammers Optional according to ASTM D 2444:

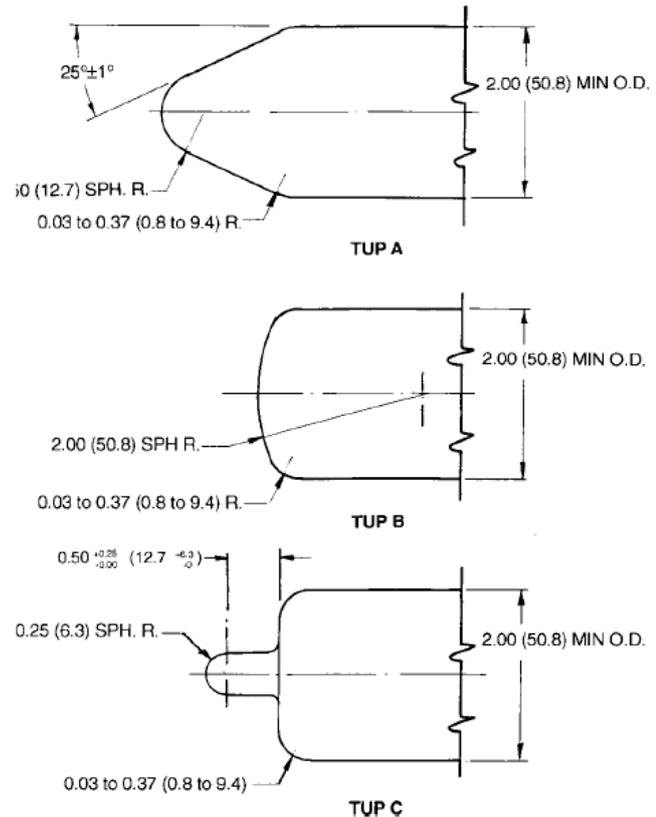
Code 5246 – **Impact hammer "A" type**

Code 5247 - **Impact hammer "B" type**

Code 5248 - **Impact hammer "C" type**

(Each impact striker has a weight of 2.5 kg)

Code 5251 – **Set of 5 additional masses of 2,5 Kg each**



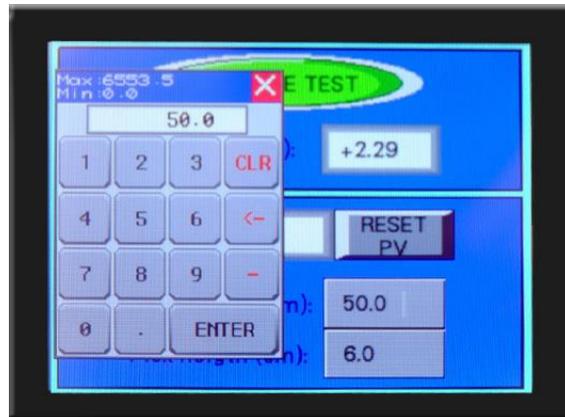
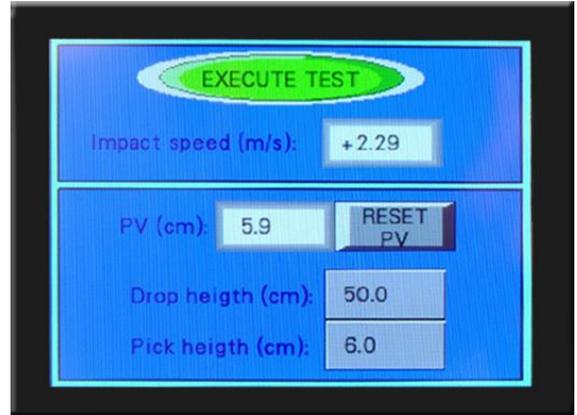
With the combination of impact striker and hammer masses, Total impact hammer weights can be obtained from:

- 2,5 kg (without additional mass)
- 5 kg (adding to the selected striker 1 mass of 2,5 kg)
- 10 kg (adding to the selected striker 3 masses of 2,5 kg each)
- 15 kg (adding to the selected striker 5 masses of 2,5 kg each)

OPTIONAL:

Code 2371 - Kit for the extension of free fall of the impact striker from 3 meters

Code 2372 - Digital module for reading the impact percussion speed in meters / second



Impact Striker Sets with additional masses

CONNECTION:

Power: 220 / 110 V single-phase 50/60 Hz (10A)

WEIGHTS AND DIMENSIONS:

Dimensions : 800 x 610 x 3600 mm (W x D x H)

Net Weight: 260 Kg

Packing Box 1: 950 x 750 x 1200 mm (W x D x H) 160 Kg

Packing Box 2: 2500 x 550 x 550 mm (Length x Depth x Height) 210 Kg

Total Gross Weight approx.: 370 Kg

STANDARD DELIVERY:

> **FIT-2000/A Impact Testing Equipment** With the strikers impact and sample holders purchased

* TECHLAB SYSTEMS, S.L. reserves the right to do any technique modification without advance notice