

Toe Caps Impact Tester, HILAB model H081



Purpose – assess impact resistance of toe caps for safety and protective footwear, according EN ISO 20344:5.4; EN ISO 22568-1; EN ISO 22568-2; ASTM F2413-11; CSA Z195, depending on of the devices and tools.

Standard machine is supplied complete with necessary tools to perform tests according EN ISO 20344:5.4 and EN ISO 22568-1; EN ISO 22568-2. **To perform other tests some tools and devices should be acquired according needs.**

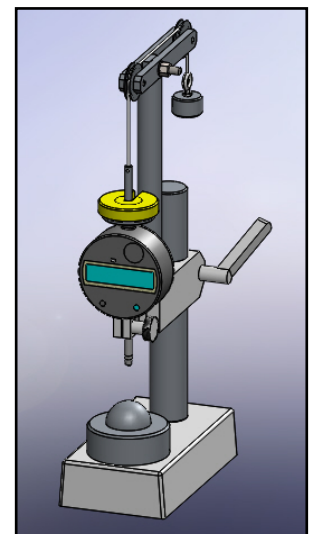
Machine is controlled by a PLC and the dialog between operator and machine is made through a console.

Changing tools (striker or clamping device) is a very easy and quick operation

All levels of energy, according European, American and Canadian standards are pre-inserted from factory, but other levels can be inserted by operator.

During test, the striker goes automatically to selected level. There is an mechanism to catch the striker after first impact avoiding further impacts in the same sample.

Machine is equipped with falling speed meter as required by ASTM and CSA that shows the impact speed and the energy done in each test.



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The program is complete with all facilities to allow the operator to create other test programs, with different level of energy to fulfil other standards or different test methods, namely for “Metatarsal Impact Resistance”, for which machine is pre-prepared. Tools for “Metatarsal Impact Resistance” are an extra.

Program is very intuitive and easy of operate and allow create new impact tests, edit the existing or change any test parameter. After the impact, the test impact speed is shown, and the obtained energy calculated.

Some windows of the program:



The program has two main features, “TEST” and “CALIB”. Through “TEST” it is possible select the level of energy of the test and perform de test. “CALIB” is a feature to help the calibration of the machine and is accessed through an permission password.



As the test speed and consequently the test energy can be affected by the equipment installation conditions, the equipment is equipped with a “Eye level” to allow guaranty that equipment is in the correct position to assure the verticality and by this way the correct test speed.

The installation place must have the correct conditions. Strong and leveled floor is very important. Please take attention to distance between floor and ceiling that must have at least 300 mm more that height of machine.

The equipment fulfils the European Safety Directives and a “EC” certificate is issued and delivered with machine.

Machine is verified and calibrated by our internal technical services and a “**Workshop Calibration Certificate**” is issued. The installation of the equipment can be done by client or, at request, can be done by our technician.

With standard equipment is delivered a special thickness meter that fulfils the requirements of the standards.

All accessories are made with appropriated materials and are completely protected against oxidation.

TECHNICAL DATA			
Characteristics			Standard accessories
Impact mass	(Kg)	20 ± 0,2	Striker according EN ISO 20344:5.4; EN ISO 22568-1/2
Clamping device	(mm)	19x150x150	Clamping device EN ISO 20344:5.4; EN ISO 22568-1/2
Hardness of clamping device	(HRC)	60	Accessory to make plasticine cylinders
Striker angle	(°)	90 ± 1	Dial gauge to measure the plasticine cylinders
Striker radius	(mm)	3 ± 0,1	
Voltage	(VAC)	230 ± 10	
Frequency	(Hz)	50	
Power	(W)	500	
Compressed air	(bar)	6	
Dimensions (F x H x D)	(mm)	700 x 2700 x 700	
Net Weight (including base)	(Kg)	900	

Due continuous technical development, we reserve the right to introduce product changes, without previous notice.