EQUIPMENT DATA SHEET	H073

Blade Cutting Resistance Tester,

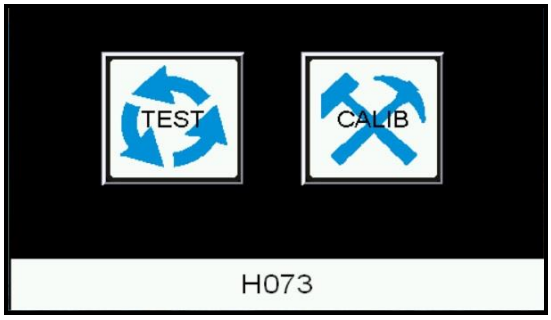
HILAB model H073

Purpose – Assess the resistance of materials and assemblies used in protective clothing, namely in protective gloves to cutting, according to ***ISO 13997 (EN 388:6.3; ISO 23388:6.3)***.

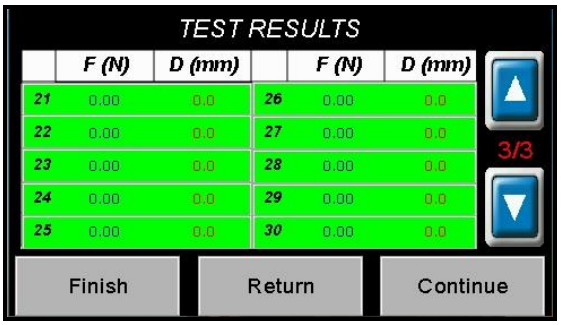
This equipment basically consists of a sampler holder that has a vertical movement, a strait blade fixed to a guidance system that has a linear and controlled movement.

Through a set of masses, a force is imposed between the sample and the blade.

The command of the machine is made through touchscreen console.



An automatic system detects when the blade cut through the sample and stops immediately the machine recording the stroke made. The test results table can record till 30 cut test runs.



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The calibration facility allows to check the test velocity and stroke. Through this window it is also possible adjust the electric sensibility of the cut detection system.

Front Panel

Set of 12 masses 1 to 40 N

Balance plate

<u>All parts of the equipment, contacting with sample are made in aluminum, stainless steel and technical plastics, to avoid oxidation.</u> <u>The masses are also made in stainless to avoid oxidation and deterioration of their values.</u>

<u>The masses are calibrated by an accredited body and a certificate is issued.</u>

<u>The equipment is supplied with:</u>

- **<u>WORKSHOP CALIBRATION CERTIFICATE</u>**
- **<u>Certificate of Conformity with Standard</u>**
- **<u>Certificate of Warranty</u>**
- **<u>EU Declaration of Conformity with European Safety Directives</u>**

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TECHNICAL DATA

Characteristics			Standard accessories
Cutting displacement	**(mm)**	3 to 50 ± 0,1	**1 Sample holder, according to paragraph 6.2.3 of standard ISO 13997:1999.** **1 Set of 12 masses, 1 to 40 N. This set of masses allows perform tests with a force of 1 to 100 N, at intervals of 1 N.** **(*) – The test cutting force can achieve 200 N with extra masses.**
Test Cutting speed	**(mm/s)**	2,5 ± 0,5	
Force over blade during test	**(N)**	1 to 100 ± 5 (*)	
Radius of test piece holder	**(mm)**	38 ± 0,5	
Length of test piece holder	**(mm)**	> 110	
Width of test piece holder	**(mm)**	≥ 32	
Interval between cuts	**(mm)**	≥ 10	
Blade width	**(mm)**	> 18	
Blade thickness	**(mm)**	1 ± 0,5	
Blade cutting angle	**(°)**	≈ 22	
Blade hardness	**(HRC)**	> 45	
Blade length	**(mm)**	> 65	**Installation:** Machine must be installed in a, rigid and leveled bench.
Voltage	**(VAC)**	230 ± 10	
Frequency	**(Hz)**	50	
Power	**(W)**	400	
Dimensions (W x D x H)	**(mm)**	720 x 410 x 670	
Net Weight (including base)	**(Kg)**	45	

The origin of this equipment is PORTUGAL. A certificate can be is issued at client request	**Complete manual is delivered with equipment**

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

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