Laboratory Equipments

Leather

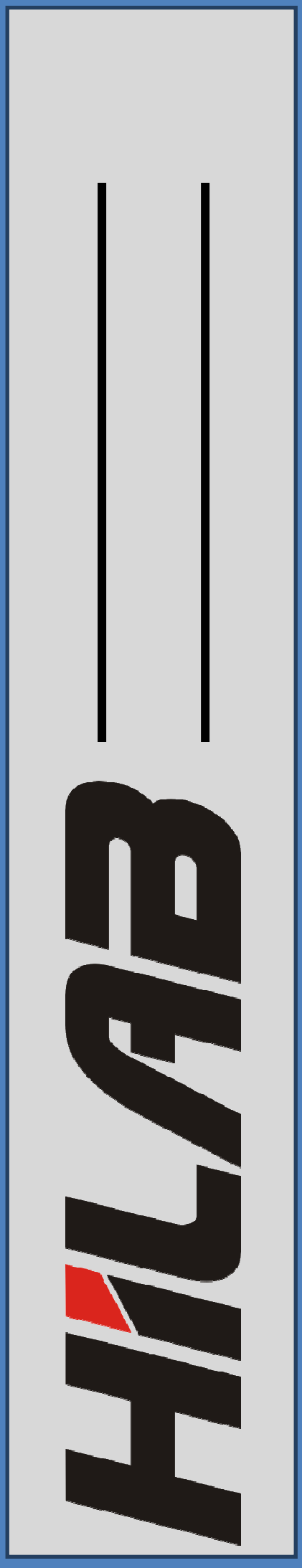
Footwear

Textile

Gloves

Automotive

etc.



TEST EQUIPMENTS & CONSULTING

ABOUT

The present list contains a wide range of testing equipments with applications in several sectors such as Leather, Footwear, Textile, Plastic, Rubber, Automotive and others.
As we are always developing new equipments, if you can´t find the equipment that you are looking for, please contact with us. We will be pleased to offer the better solution for your purpose.

SEARCHING AN EQUIPMENT

To find easily an equipment in the list, please insert standard number or a word related with name of test or equipment, in searching field that could be accessed pressing "CTRL + F" on your PC keyboard, ex: flexometer; chainsaw; permeability; ISO 17694 or just 17694.
After located the desired equipment, the correspondent datasheet can be accessed through the link inserted in "Model" field, ex: ***H050***

EQUIPMENT CALIBRATION

All equipments are developed and produced strictly according to all relevant test standards and also are internally verified and calibrated and than a "Workshop Calibration Certificate" is issued.
On request, an external calibration which is made by an accredited and internationally recognized body could be provided.

MODEL	EQUIPMENT
H010/12	***"Vamp" flexometer with 12 stations*** **Standards:** EN ISO 22288; ISO 4643; ISO 5423; SATRA TM25 **Purpose:** Determine the propensity of upper materials to crack
H010C/12	***"Vamp" flexometer with 12 stations in cold chamber*** **Standards:** EN ISO 22288; ISO 4643; ISO 5423; SATRA TM25 **Purpose:** Determine the propensity of upper materials to crack.
H011	***"BENNEWART" flexometer*** **Standards:** ISO 17707; EN ISO 20344:8.4 ; DIN 53 543; SATRA TM161 **Purpose:** Determine the resistance of whole footwear soles to cut growth during repeated flexing. It is also suitable to assess the effect of surface patterns.
H011C	***"BENNEWART" flexometer in cold chamber*** **Standards:** ISO 17707; EN ISO 20344:8.4 ; DIN 53 543; SATRA TM161 **Purpose:** Determine the resistance of whole footwear soles to cut growth during repeated flexing. It is also suitable to assess the effect of surface patterns.
H012	***Rigidity tester for soles*** **Standards:** ISO 17707; EN ISO 20344:8.4 ; SATRA TM161 **Purpose:** Assess the rigidity of the complete footwear, to determine if it should be subjected to the "Bennewart" flexing test
H013	***"BELT" flexometer*** **Standards:** ISO 16177; SATRA TM133 **Purpose:** Determine the resistance of soles or material to crack initiation and growth due to repeated flexing.
H014	***"ROSS" flexometer*** **Standards:** ISO 4643; ISO 5423; ASTM D1052; BS 5131-2.1 SATRA TM60 **Purpose:** Determine the resistance of polymeric materials to cut growth during repeated flexing.
H014C	***"ROSS" flexometer in cold chamber*** **Standards:** ISO 4643; ISO 5423; ASTM D1052; BS 5131-2.1; SATRA TM60 **Purpose:** Determine the resistance of polymeric materials to cut growth during repeated flexing.
H015	***Whole shoe flexometer in water*** **Standards**: SATRA TM 230 **Purpose:** Assess the resistance to water penetration of complete footwear, during flexing.
H016	***Whole footwear water resistance tester (brush method)*** **Standards** : EN 20344:5.15 **Purpose:** Assess the resistance of whole footwear to water penetration by dynamic method
H017	***Elastics repeated extension tester*** **Standards** : EN ISO 10768; SATRA TM103 **Purpose:** Assess the resistance of elastics to repeated stretching to the limit of its useful extension.
H018	***Velcro closing tester*** **Standards**: EN ISO 22776; SATRA TM 123 **Purpose:** Press the two parts of the touch and close fastener together, under controlled conditions, before peel and shear strength test.

MODEL	EQUIPMENT
H019	***Velcro fatigue tester*** **Standards**: EN ISO 22776; SATRA TM123 **Purpose:** Simulate the use of the velcros by repeated closing and opening, before perform other physical tests.
H020	***Electronic Lastometer*** **Standards:** EN ISO 3379; EN ISO 17693; IUP 9; SATRA TM24 **Purpose:** Determine the lastability of uppers or complete upper assembly irrespective of the material in order to assess the suitability for the end use.
H021	***Zipper fatigue tester*** **Standards** : BS 3084; SATRA TM50 **Purpose:** Assess the resistance of slide fasteners to repeated opening and closing, under load.
H022/6	***"Bally" flexometer with 6 stations*** **Standards:** ISO 17694; EN ISO 5402; EN 13512; IUP 20; SATRA TM55 **Purpose:** Determining the wet or dry flex resistance of leather and finishes applied to leather. It is applicable to all types of leather below 3,0 mm in thickness.
H022/12	***"Bally" flexometer with 12 stations*** **Standards:** ISO 17694; EN ISO 5402; EN 13512; IUP 20; SATRA TM55 **Purpose:** Determining the wet or dry flex resistance of leather and finishes applied to leather. It is applicable to all types of leather below 3,0 mm in thickness.
H022C/12	***"Bally" flexometer with 12 stations in cold chamber*** **Standards:** ISO 17694; EN ISO 5402; EN 13512; IUP 20; SATRA TM55 **Purpose:** Determining the wet or dry flex resistance of leather and finishes applied to leather. It is applicable to all types of leather below 3,0 mm in thickness.
H023	***Fibreboard flexometer*** **Standards:** BS 5131; SATRA TM3/TM4/TM6/TM15/TM16 **Purpose:** Assess the resistance of fibreboard material to repeated flexing
H024	***Midsole flexometer*** **Standards:** EN ISO 20344:5.9; EN 12568; Z195 **Purpose:** Assess the resistance of midsole materials to repeated flexing
H025	***Shanks and insole back parts flexometer*** **Standards:** ISO 18895 **Purpose:** Assess the fatigue resistance of shanks and back parts to repeated flexing
H026	***Thermal conductivity tester*** **Standards:** ISO 17705; SATRA TM 146 **Purpose:** Assess the thermal conductivity of sheet materials
H027	***Heat resistance tester*** **Standards:** EN ISO 20344:8.7 **Purpose:** Assess the ability of the finish of shoemaking materials to withstand the heat involved in various shoemaking operations.
H028	***Heat insulation tester*** **Standards:** EN ISO 20344:5.12 **Purpose:** Assess the heat insulating properties of the sole complex of protective footwear.

MODEL	EQUIPMENT
H029	***Cold resistance tester*** **Standards:** EN ISO 20344:5.13; ISO 20877 **Purpose:** Assess the cold insulating properties of the sole complex of protective footwear.
H030	***Longitudinal/torsional stiffness of insole back parts and shanks*** **Standards:** EN 12959; ISO 18896; SATRA TM58/TM59/TM88 **Purpose:** Assess longitudinal and torsional stiffness of shanks and insole back parts.
H031	***Longitudinal/torsional stiffness of complete footwear*** **Standards:** SATRA TM194/TM256 **Purpose:** Assess longitudinal and torsional stiffness of complete footwear
H032/4	***"MAESER" waterprofness tester with 4 stations*** **Standards:** ASTM D-2099; EN ISO 5403-2; SATRA TM34 **Purpose:** Determining the resistance of a material to water penetration on flexing.
H033/4	***"Bally" penetrometer with 4 stations*** **Standards:** EN ISO 5403-1; EN ISO 20344:6.13; IUP 10; SATRA TM171 **Purpose:** Determining the dynamic water resistance of leather.
H033/6	***"Bally" penetrometer with 6 stations*** **Standards:** EN ISO 5403-1; EN ISO 20344:6.13; IUP 10; SATRA TM171 **Purpose:** Determining the dynamic water resistance of leather.
H033S	***Stiffness tester for leathers*** **Standards:** EN ISO 5403-1; EN ISO 20344; IUP 10; SATRA TM171 **Purpose:** Determining the stiffness of leathers as preparation to "Bally" test.
H034	***Shock absorption tester*** **Standards:** SATRA TM142 **Purpose:** Evaluate the shock absorption properties of materials or assemblies of footwear bottom.
H035	***Dynamic compression tester*** **Standards:** SATRA TM159 **Purpose:** Evaluate the changes in dimensions of a material after a prolonged period of dynamic compression.
H038	***Wetting spray tester*** **Standards:** EN ISO 4920; EN 14340 **Purpose:** Determining the repellency of leather or any fabric to water penetration.
H040	***Perspiration tester*** **Standards:** ISO 105-E04 **Purpose:** Determine the resistance of the colour of the leathers to the human sweat.
H041	***Multi-light chamber*** **Standards:** ISO 3668; ASTM D1729; EN 50081-2; EN 60204-1 **Purpose:** Provide controlled viewing conditions for the assessment and comparison of colour variations.
H042	***Operating support for durometers*** **Standards:** ISO 868 **Purpose:** Ensure that durometer surface is pressed parallel to the material under test, with standard known force

MODEL	EQUIPMENT
H042T	***Operating support for durometers with timer*** **Standards:** ISO 868 **Purpose:** Ensure that durometer surface is pressed parallel to the material under test, with standard known force, during a suitable time.
H043	***Milling machine*** **Standards:** ISO 4044; IUC 3 **Purpose:** Milling materials to be used in chemical tests
H044	***Shaking machine with 8 containers*** **Standards:** ISO 4045; ISO 4098; TM329 **Purpose:** Agitate up materials in chemical solutions
H045	***Laboratory press*** **Standards:** SATRA TM402 **Purpose:** press sample assemblies during bonding process
H046	***Thickness measuring gauge for leather and soles material*** **Standards:** ISO 2589; ISO 2286-3 **Purpose:** Determining thickness of the leather and sole materials
H047	***Creep cabinet*** **Standards:** EN 1392; DIN 53273; FEICA A4; SATRA TM3 **Purpose:** Determine the resistance of an adhesive bond, stored at an elevated temperature, to peeling by a constant force.
H048	***Radiant heat tester*** **Standards:** EN ISO 6942 **Purpose:** Assess the resistance of personal protective equipments against a radiant heat source.
H049	***Liquid column for volume measurement*** **Standards:** None **Purpose:** Measurement of the volume of soles
H050	***Water vapour permeability tester*** **Standards:** EN ISO 20344; EN ISO 14268; EN 13515; IUP 15; SATRA TM172 **Purpose:** Determining the "breathability" of the leather and non-leather upper materials.
H051	***Leather permeability / absorption tester*** **Standards:** UNE 59-035-94; SATRA TM47 **Purpose:** Determining the amount of water vapour on an assembly or a single material will absorb and transmit through its structure in specified time.
H052/6	***Water vapour absorption tester*** **Standards:** EN ISO 17229; EN 13515; EN ISO 20344; SATRA TM172 **Purpose:** Determining the coefficient of water vapour on leather and non-leather upper materials
H053/6	***Water vapour absorption tester for gloves*** **Standards:** EN 420 **Purpose:** Determining the coefficient of water vapour on leather and non-leather used on gloves.
H054	***Dynamic water-resistance tester for sole leather*** **Standards:** EN ISO 20344:7.2; IUP 11; EN 12746; EN ISO 5404; SATRA TM220 **Purpose:** Determining the dynamic water-resistance of sole leather, insole and insock.

MODEL	EQUIPMENT
H055	***Leakproofness tester*** **Standards:** EN ISO 20344:5.7 **Purpose:** Assess the leakproofness of whole footwear and gloves
H057	***Reactivator*** **Standards:** None **Purpose:** Used in specimens bonding process.
H062/4	***"Martindale" abrasion machine*** **Standards:** EN ISO 20344; EN 13520; EN ISO 17704; ISO 12947; SATRA TM31 **Purpose:** Determining the resistance of uppers, linings and insocks irrespective of the material, to wet and dry abrasion.
H064	***"Veslic" rub fastness tester*** **Standards:** EN ISO 20344:7.3; EN ISO 11640; IUF 450; EN 12747; EN ISO 17700; SATRA TM173 **Purpose:** Determining the behavior of the surface of a leather on rubbing with a felt
H064H	***"Veslic" rub fastness tester with ironing element*** **Standards:** EN ISO 20344:7.3; EN ISO 11640; IUF 450; EN 12747; EN ISO 17700; SATRA TM173 **Purpose:** Determining the behavior of the surface of a leather on rubbing with a felt and a ironing element.
H065	***Rotating rub fastness tester*** **Standards:** EN ISO 17700; EN ISO 20868; SATRA TM8/TM14 **Purpose:** Assess the degree of damage (marring) and transfer of a material 'surface colour during mild dry or wet abrasion.
H066	***Crockmeter tester (hand driven)*** **Standards:** ISO 105-X12; ATTCC 8; SATRA TM167 **Purpose:** Determine colour fastness to wet and dry rubbing.
H066M	***Crockmeter tester (motor driven)*** **Standards:** ISO 105-X12; ATTCC 8; SATRA TM167 **Purpose:** Determine colour fastness to wet and dry rubbing.
H067/1	***Lace to lace abrasion tester with 1 station*** **Standards:** EN ISO 22774; SATRA TM154 **Purpose:** Determine the abrasion resistance of a lace to repeated rubbing against a similar lace, a eyelet or a lace carrier.
H067/6	***Lace to lace abrasion tester with 6 stations*** **Standards:** EN ISO 22774; SATRA TM154 **Purpose:** Determine the abrasion resistance of a lace to repeated rubbing against a similar lace, a eyelet or a lace carrier.
H068/6	***Lace abrasion tester with 6 stations*** **Standards:** BS 5131:3.6; SATRA TM93 **Purpose:** Determine the abrasion resistance of a lace to repeated rubbing against a standard eyelet. Could be also assessed the abrasive action of a lace over the eyelet.
H069	***Lace abrasion tester with 6 stations*** **Standards:** NF G62-020 **Purpose:** Determine the abrasion resistance of a lace to repeated rubbing against a standard eyelet.

MODEL	EQUIPMENT
	Could be also assessed the abrasive action of a lace over the eyelet.
H070	***Chainsaw cutting tester*** **Standards:** EN 381 **Purpose:** Assess the resistance to cutting by chainsaw of personal protective devices
H071	***Blade cutting resistance tester*** **Standards:** EN ISO 20344:6.14 **Purpose:** Assess the resistance of upper and glove materials to be cut by blade
H072	***Sole abrasion tester*** **Standards:** EN 12770; ISO 4649; DIN 53516; SATRA TM174 **Purpose:** Assess the abrasion resistance of a polymeric material normally used in sole footwear.
H072R	***Sole abrasion tester with rotating sample holder*** **Standards:** EN 12770; ISO 4649; DIN 53516; ASTM D5963:A/D; SATRA TM174 **Purpose:** Assess the abrasion resistance of a polymeric material normally used in sole footwear. Test could be performed with rotating or fixed sample holder
H074	***Sole abrasion tester according PFI test method*** **Standards:** PFI **Purpose:** Determining the abrasion resistance of footwear soling materials.
H076	***Bottom leather grain crack tester*** **Standards:** ISO 3378; IUP 12; SATRA TM48 **Purpose:** Determine the propensity of the grain leather to crack during bending
H077	***Electrical conductivity tester*** **Standards:** EN ISO 20344:5.10 **Purpose:** Measure of electrical resistance of conductive footwear.
H078	***Electrical insulation tester*** **Standards:** EN ISO 20344:5.11; EN 50321 **Purpose:** Measure of electrical insulation of protective footwear.
H079	***Electrical resistance tester (ESD)*** **Standards:** IEC 61340-4-3 **Purpose:** Measure the electrical resistance of footwear used in control of electrostatic potential on people.
H080	***Slip resistance tester*** **Standards:** EN ISO 13287; SATRA TM144 **Purpose:** Determining the coefficient of friction between footwear outsoles and flooring surfaces.
H081	***Toe caps impact tester*** **Standards:** EN ISO 20344:5.4; EN 12568; ASTM F2412; CAN/CSA Z195 **Purpose:** Assess impact resistance of toes caps for safety and protective footwear
H081/1	***Thickness measuring gauge for modeling clay cylinders*** **Standards:** EN ISO 20344:5.4.1.4 **Purpose:** Measure modeling clay cylinders before and after impact or compression test
H081/2	***Vacuum equipment*** **Standards:** EN ISO 20344:5.16 **Purpose:** Prepare the wax test forms for metatarsal test

MODEL	EQUIPMENT
H081/3	***Metatarsal specimen device*** **Standards:** EN ISO 20344:5.16 **Purpose:** Perform metatarsal impact test
H082	***Ankle shock absorption tester*** **Standards:** EN ISO 20344:5.17 **Purpose:** Assess shock absorption properties of ankle protective materials and assemblies.
H083	***Toe compression machine*** **Standards:** EN ISO 20344:5.5; EN 12568 **Purpose:** Assess compression resistance of toes caps for safety and protective footwear **NOTE:** With suitable accessory, this machine can also perform insole perforation EN 12568
H084	***Heel fatigue tester*** **Standards:** EN ISO 19956; SATRA TM21 **Purpose:** Assess the ability of ladies heels shoes to withstand the repeated small impacts of normal walking.
H085	***Heel impact tester*** **Standards:** EN ISO 19953; SATRA TM20 **Purpose:** Assess the resistance of ladies heels shoes to occasional heavy impacts during wear.
H087	***Constant stress compression tester*** **Standards:** SATRA TM64 **Purpose:** Determine the compression set of a material, measuring the shape retention and elastic properties.
H090	***Combustion chamber*** **Standards:** ISO 3795 **Purpose:** Determination of horizontal rate of flame spread of materials and components used in interiors of cars, trucks and other vehicles.
HILAB 10	***Electronic dynamometer with 10KN capacity***
HILAB 20	***Electronic dynamometer with 20KN capacity***

NOTE – As standardization is a living process, all standards references should be confirmed.

Remark:

This equipment list is always being increased with other equipments. So, if the equipment that you are looking for it is not mentioned in this list, please contact us.