



*accurate & precise
testing equipments...*

Since 2007

DSH
EQUIPMENTS

MFG. OF : TESTING EQUIPMENTS

www.dshequipments.com





Who is DSH Today..?

DSH is the leading manufacturer of physical and mechanical quality testing equipment for plastics and other material testing in the world. We make and market over 40 different products, including raw material, semi-finished, finished product testing. Our objective is always find and realize the most intelligent and low price solution to fit our customers cost benefit policies. DSH is also a leader in physical and mechanical property testing that help product testing manage their valuable raw materials, handle their critical manufactured parts and improve their process yield.

All Processes, All Markets, All Around the World.

DSH is able to offer concrete solutions across the entire spectrum of testing equipment. Whether you are an injection molder, an extruder, blow molder, thermoformer, rotomolder or compounder, DSH has testing equipment solutions for you. If you consider yourself part of an end-market such as packaging, medical, transportation, building and construction, or any other, DSH has specialized expertise to help you. No matter whether you are located in INDIA, Frankfurt, Germany, Italy or Kentucky, Guaymas, Mexico, or Guangzhou, China or even all of those places, DSH is there to serve you. Understanding the industries and customers you serve and the regional markets you compete in, we can anticipate your needs. We can provide you with not only products that do what they were designed to do, but also knowledge and technology that makes you better at your business. As one of the trusted suppliers of testing equipment DSH has unique access to different plants across the globe. Our people are in those plants every day helping to solve problems, save energy, cut waste and generally do more with less.

Skills and expertise

Physical and mechanical property test are our core activities. Our field of competence covers everything that has to do with the precise generation and highly exact measuring of forces, Temperatures, speeds. DSH produces wide range and order related customized products. Because we want to retain this procedure in favour of the greatest possible flexibility for our customers in all circumstances, we have cultivated a chain linking our supplier network, production depth, core competence, production costs and controlled processes for the purpose of our company objectives.

Compete with confidence

You'll find us using the word "Confidence" often. That's because it is what our customers need most in today's complex business environment. Sure, you want the best technology and the most reliable equipment available, designed and built by a company with a long-standing reputation for performance, quality, innovation and value. You want to know that it is backed by the largest and most experienced team of parts and service specialists in the world, available to you 24 hours a day, 365 days a year. Yet what it really comes down to is knowing you have complete control over your materials and your process, that you produce reliable plastic components without unexpected downtime or quality issues, and that you can do all of this profitably. If you have done business with DSH before, we thank you. We hope you will continue to challenge us to improve our products and services to help you be more successful. If you have never worked with DSH before, we hope you put us to the test. Measure us against your best suppliers. Compare our equipment, our knowledge and our capabilities with what other companies offer. Watch as we go the extra mile to earn your respect and win your business. Then you will discover for yourself what Confidence feels like.

PRODUCT RANGE

GEO TEXTILE - WOVEN SACKS TESTING EQUIPMENTS

- ECONOMY MODEL SUITABLE FOR TAPE/YARN/FABRICS
- DUAL LOAD CELL MODEL SUITABLE FOR FABRICS/TAPE
- TRIO MODEL TENSILE TESTER SUITABLE FOR FIBC (YARN/FABRIC/SAFETY BELT)
- TRIO MODEL TENSILE TESTER SUITABLE FOR GEOTEXTILE (GRAB TEAR/INDEX CBR PUNCTURE/WIDE WIDTH)
- UV CHAMBER
- HUMIDITY CHAMBER
- BURST TESTER
- WRAP REEL
- HOT AIR OVEN

PE/PVC PIPES TESTING EQUIPMENTS

- HYDRO-STATIC PRESSURE TESTER
- HOT/COLD WATER BATH
- MELT FLOW INDEXER
- CARBON BLACK CONTENT
- UNIVERSAL TENSILE TESTER
- CONTOUR CUTTER
- CARBON BLACK DISPERSION
- HOT AIR OVEN
- OPACITY TESTER
- REVERSION OIL BATH
- VSP/HDT TESTER
- ZERO DEGREE CHAMBER
- HYDRAULIC PRESS
- METHYLENE CHLORIDE BATH
- PIPE "V" NOTCH CUTTER
- MUFFLE FURNACE
- IZOD-CHARPY IMPACT
- ELECTRICAL CONDUIT PIPE TESTING EQUIPMENTS
- EMITTING PIPES & EMITTERS TESTING EQUIPMENTS

FLEXIBLE / FILM TESTING EQUIPMENTS

- UNIVERSAL TENSILE TESTER
- DART IMPACT TESTER
- HOT AIR OVEN
- CO-EFFICIENT OF FRICTION TESTER (COF-SLIP TEST)
- HEAT SEALER
- OPACITY TESTER
- VACUUM OVEN-ROUND TYPE
- CORE CRUSH TESTER
- COLOR MATCHING CABINET

GRP - FRP & PULTRUSION TESTING EQUIPMENTS

- UNIVERSAL TENSILE TESTER
- CONTOUR CUTTER
- HOOP TENSILE TESTER
- MUFFLE FURNACE
- HDT TESTER
- HYDRO-STATIC PRESSURE TESTER
- IZOD-CHARPY IMPACT

UNIVERSAL TENSILE TESTER

- SUITABLE FOR ALL INDUSTRIES i. e. (Plastics, Wood & PLY, Rubber, Metal, Textile, Paper, Cement & Construction)
- RANGE FROM 1Kg. to 20 Ton.
- SINGLE-LOADCELL / COMBINED-LOADCELLS OR TRIO-LOADCELLS MODEL AVAILABLE
- WITH DIFFERENT FIXTURES & GRIPS

WOOD AND TIMBER TESTING EQUIPMENTS

- UNIVERSAL TENSILE TESTER
- HUMIDITY CHAMBER
- HOT AIR OVEN
- HOT WATER BATH

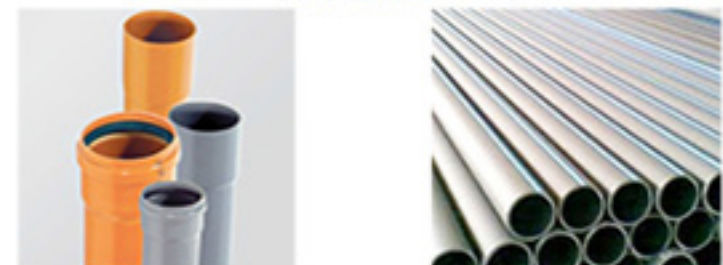
CUSTOMIZED TESTING EQUIPMENTS AS PER YOUR STANDARDS AND REQUIREMENTS

INFRASTRUCTURE



APPLICABLE INDUSTRIES

PIPES INDUSTRY



TEXTILE INDUSTRY



METAL INDUSTRY



FLEXIBLE PACKAGING INDUSTRY

GEO TEXTILE – WOVEN SACKS TESTING EQUIPMENTS

● ECONOMY MODEL SUITABLE FOR TAPE/YARN/FABRICS

- Machine suitable for Strength testing of Tape/single Yarn or Fabrics
- Suitable standard IS, ASTM, ISO or other equivalent standard.
- Machine capacity 100kgf or 250kgf as per the application.
- Machine having a digital LED display.
- Speed range fix 300±10mm/min or as per your requirements.
- Direct result of maximum load, percentage elongation.
- Mechanical wise type grip for fabric or tape testing, roller type grip also provide for yarn or tape. (kindly specified at time of placing order)
- Table top model.



● DUAL LOAD CELL MODEL SUITABLE FOR FABRICS/TAPE

- Machine suitable for Strength testing FABRICS as well as TAPE
- Dual load cells fitted one is suitable for FABRICS and another is suitable for TAPE.
- Suitable standards are as per IS, ASTM, ISO or other equivalent standard.
- Both the load cells having different capacity with different accuracy and calibration.
- Mechanical wise type grips provided with the machines. Special grips or Pneumatic grips also provided with the machine as per customers' requirement. (kindly specified at the time of placing order)
- Variable Speed range 50 to 350mm/min.
- Machine maximum capacity up to 250kgf.
- DSH's most success user friendly windows based software connectivity facility.

● TRIO MODEL TENSILE TESTER SUITABLE FOR FIBC (YARN/FABRIC/SAFETY BELT)

- This trio model suitable for FIBC and equivalent application.
- Machine having a facility of three load cells.
- All the load cells are separate and permanently fitted. Load cell range 50kgf for Tape/Yarn, 500kgf for Fabric, 3000kgf for Safety belt.
- Suitable standards are as per IS, ASTM, ISO or other equivalent standard.
- Mechanical wise type grips provided with the machines. Special grips or Pneumatic grips also provided with the machine as per customers' requirement. (kindly specified at the time of placing order), for safety belt mechanical roller type grip provide.
- Variable Speed range 50 to 350mm/min.
- DSH's most success user friendly windows based software connectivity facility.



● TRIO MODEL TENSILE TESTER SUITABLE FOR GEOTEXTILE (GRAB-TEAR/INDEX-CBR PUNCTURE/WIDE WIDTH)

- This trio model suitable for GEOTEXTILE application.
- Machine having a facility of three load cells.
- All the load cells are separate and permanently fitted. Load cell range 500kgf for TEAR-GRAB, 1000kgf for INDEX-CBR Puncture, 3000kgf for Wide width.
- Suitable standards are as per IS, ASTM, ISO or other equivalent standard.
- Mechanical wise type grips provided with the machines. Special grips or Pneumatic grips also provided with the machine as per customers' requirement. (kindly specified at the time of placing order),
- Variable Speed range 50 to 350mm/min.
- DSH's most success user friendly windows based software connectivity facility.

GEO TEXTILE – WOVEN SACKS TESTING EQUIPMENTS

UV CHAMBER

- Machine design and construction as per IS:7903 only.(No ASTM method incorporate)
- Machine having both the cycles of UV and condensation.
- UVB tube lights are used for the UV cycles.
- DSH's Indigenous microprocessor system with complete auto test cycles.
- Construction of machine is inside stainless steel out side mild steel with powder coating.
- Complete stainless steel body also possible on demand.
- At the same time 10nos samples can be conditioning.
- Power supply: 230volts ac with proper earth connection.



HUMIDITY CHAMBER

- Machine is used to conditioning of the samples at specified temperature as well as specified humidity.
- Humidity range 50% to 95%.
- Temperature range 20°C to 45°C.
- Suitable standards are IS, ASTM or other equivalent standards.
- Machine suitable for Pipes, Woven fabrics, Woods etc.
- Humidity and temperature both digital.
- Machine having a different sizes are available according to applications.
- Machine having facility of boiler and condensation.
- Wheel base machine for easy movement.
- Full length of glass doors for inspection of samples.

BURST TESTER

- Digital burst tester suitable for corrugated box, fabric, laminations
- Machine as per IS and ASTM D-3786
- Machine maximum capacity will be up to 60bars. (machine capacity selection according to the application)
- Digital pressure indicator LCD based with least count of 0.01bar.
- Fluid displacement into chamber with motorized.
- Last test result is stored.
- Firmly secure clamping.
- No need for calibration with help of aluminum foil because of digital model.
- Long lasting diaphragm with proper standard.



WRAP REEL



MUFFLE FURNACE FOR FILLER

- Machine is suitable to find out filler content of calcium.
- Two sizes of furnace are available 4"x4"x9" or 6"x6"x12".
- Machine having a facility with electrical burner.
- Silica crucible, glass desiccator and other test conduct accessories.
- Temperature range up to 950°C or 1200°C.
- Power supply single phase.

HOT AIR OVEN

- Oven chamber size: As per requirement.
- 12"x12"x12inches, 14"x14"x14inches, 18"x18"x18inches, 24"x24"x24inches, 36"x36"x36inches or customized size as per requirements.
- Temperature ranges up to 200°C. Least count 0.1.(Higher temperature range on requires)
- Temperature accuracy ±0.5°C.
- Temperature controlling via PID controller and also in built auto-tune facility.
- Oven design construction to minimize heat losses.
- Body construction out side MS and inside SS.
- Fan circulating and stirring facility to maintained uniform temperature into oven.



FLEXIBLE PACKAGING / FILM TESTING EQUIPMENTS

● UNIVERSAL TENSILE TESTER

- Machine suitable for Tensile testing
- Suitable standard IS:2508, ASTM D-882, ASTM D-1895, ISO or other equivalent standard.
- Universal machine having testing facilities of TENSILE, ELONGATION, SEAL STRENGTH, PEEL STRENGTH(45°, 90° & 180°), BOND STRENGTH, CO-EFFICIENT OF FRICTION(COF)
- Suitable machine capacity up to 100kgf
- Load accuracy 2gms or better.
- Computer interfacing facility with new version of DSH'S most advance and easy to operate software.
- Report generating and test method generating customized or according to the reference standards.
- Fixtures: wide range of DSH's fixtures suitable as per your application.
- Suitable for LDPE, BOPP, STRECHFILM, LLDPE, GEOMEMBRANCE and other applications.



● DART IMPACT TESTER

- Machine suitable for find out Impact properties of materials.
- Suitable standards are IS: 2508, ASTM D-1709, ISO 7765.
- Machine having a specimen clamping with help of pneumatic system.
- Machine supplies with Darts & weights set accordingly reference standards.
- Height adjustment according to the standards or film thickness.
- New modified Dart release mechanism load carrying capacity up to 3kgs.
- Machine fully powder coated.
- All weights and rods are highly polished SS or Aluminum.
- Two size of darts are supplied with three different Heights



● HOT AIR OVEN

- Oven chamber size: As per requirement.
- 12"x12"x12inches , 14"x14"x14inches , 18"x18"x18inches, 24"x24"x24inches, 36"x36"x36inches or customized size as per requirements.
- Temperature ranges up to 200°C. Least count 0.1.(Higher temperature range on requires)
- Temperature accuracy $\pm 0.5^\circ\text{C}$.
- Temperature controlling via PID controller and also in built auto-tune facility.
- Oven design construction to minimize heat losses.
- Body construction out side MS and inside SS.
- Fan circulating and stirring facility to maintained uniform temperature into oven.



● CO-EFFICIENT OF FRICTION TESTER (COF-SLIP TEST)

- Machine suitable for COF (SLIP) value of your finished materials.
- Suitable standards are IS: 2508, ASTM D-1895, ISO or other equivalent standards.
- Direct results of STATIC COF as well as KINETIC C.O.F with help of software support.
- Machine load accuracy 1gms or better. Extension Least count 0.01mm
- Vibration free friction easy to operate design.
- Test required standard accessories are part of supply.

FLEXIBLE PACKAGING / FILM TESTING EQUIPMENTS

HEAT SEALER

- Machine on based of pneumatic operating system.
- Temperature zone : two
- Temperature is controlled via PID based Auto tune temperature controller
- Temperature range: ambient to 200°C (Extra on request at extra cost).
- Temperature least count 0.1°C with accuracy better than $\pm 1^\circ\text{C}$.
- Pencil type air heaters are fitted on the both temperature zone.
- Heating jaws: One jaw is fixed and another jaw is operated with help of pneumatic system.
- Jaw width 25 & 15 mm & length 150 mm. (Extra on request at extra cost).
- Machine is table top compact model suitable for laboratory environment.
- Power requirement: 220volt AC with proper earth + 15Amps.
- Other requirement: Moisture free compressed air connection with pressure range 4-6kg/cm².



OPACITY TESTER

- Machine suitable for find out opacity and transparency of films.
- Suitable standards for IS:2508, ASTM D589 or other equivalent standards.
- Direct result of light transmission and opacity in %(percentage)

VACUUM OVEN-LEAKAGE CHAMBER

- Scientifically designed to provide excellent vacuum & temperature performance.
- High reliability & low leakage rate.
- Toughened glass door for viewing.
- 0 to 760mmHg Vacuum.
- Temp. Range: Ambient to 130°C



CORE CRUSH TESTER

- Machine suitable up to Maximum 200 mm Dia. X 300 mm length Sample.
- Digital CS tester suitable for Paper core crushing application.
- Maximum working capacity up to 500Kgf.
- Load indication digital
- Pressure is developed with help of pneumatic systems.
- Last result (Max. Load) will be display on indicator.
- Power supply: Single Phase 230Vac, 50Hz.
- Moisture free air connection required at customer end.
- Machine having a extension measurement facility also provided.

COLOR MATCHING CABINET

- Cabinet working size: 25"x20"x15" inch. Or as per requirements
- Different light source fitted into the cabinet
- Digital Hour meter fitted on to the panel with automatic and manual mode for light selection.
- Power supply: single phase with proper earth connection
- Table top model.



UNIVERSAL TENSILE TESTER



TEST TYPES

- Tensile Test Equipment.
- Peel, Adhesion & Bond Test Equipment.
- Compression Testing Equipment.
- Stiffness Testing Equipment.
- Flexural Bend Test Equipment.
- Shear Test Equipment
- Torsion Test Equipment
- Tear And Friction
- Fracture And Crack Growth
- Modulus of Elasticity.

MATERIAL TESTING

- Plastics (Pipes/Films/Laminations)
- Geo synthetics
- Textiles
- Wood and Timber
- Paper and Paper products
- Engineered composites test equipment
- Elastomer and rubber
- Metal
- Foam testing equipment



INDUSTRY STANDARDS

- IS.
- ASTM
- ISO
- DIN
- BS
- OTHER RELEVANT STANDARDS



UNIVERSAL TENSILE TESTER



- Load capacity** : Different capacity model from 10kg (100N) to 20tonnes (200kN)
- Load accuracy** : Load accuracy as per depend on to capacity of load cell.
- Mechanical structure** : High grade steel gives unmatched performance, accuracy and precision. High axial stiffness-reduces machine compliance while increasing speed and displacement accuracy when specimen under load.

- Cross head driven** : Cross head driven by conventional screw and nut, guided & supported by hardened, ground finished and hard chrome plated tie rods. Sliding on bushes allowing the cross head motion. Ball screw driven mechanism is also available on demand.

- Traveling length** : Maximum travel from grip to grip is 800mm at extension least count of 0.01mm. Higher length is also available on demand (optional).

- *Speed selection** : Speed controlling by variable speed drive and speed range is from 1mm/min to 200mm/min. or 1mm/min to 500mm/min on demand. For economy application variable speed AC drives is used and in most accuracy application servo control system is also available on demand.

- Controlling device** : Microprocessor based user's friendly with mark identification key operating controlling system.

***Computer interfacing facility & software:**

Machines have serial output for direct connection to computers for testing with windows™ software. Profile based software to start the test quicker, and run test fast. Gives full control of test parameters with auto set-up of the tester. Full test is analysis with statistical and graphical print-out. A report is enhancement package for long term statistics and control charts with exports in Excel™ data sheet format.

- Grips** : Choose from a wide range of grips and fixtures for tension, compression, flexural, shear, peel, puncture and product testing.

- Result and parameters** : Max Load, Max Elongation, Yield force , Yield Elongation, Break force break elongation, GPD, Denier other customized at least two direct result value facility in corporate with the controlling unit.

- Mode of test** : Tensile as well as compression test facility available, mode selection via software. No need to change mode every times before starting the new test.

- Safety features** : Over load protection, reverse direction load protection, Maximum elongation protection for load cell. Both the side limit switches fitted as an additional facility.



PE/PVC PIPES TESTING EQUIPMENTS

● HYDRO-STATIC PRESSURE TESTER

- Machine having different models with different pressure capacity.
- All the models are work as short term as well as long term.
- DSH having a Digital model and Analogue models.
- All our models are air less systems; no pneumatic pumps are used for pressure development.
- Pressure range up to 50bars, 100bars and 200bars. (as per customer's requirements)
- Our pressure tester having single station, three stations and up to eight stations.
- Digital Pressure tester having facility of digital output and printer output, we also having facility of computer connectivity software.
- Digital machine up to 100bars we provide least count 00.01bars and accuracy better than 1% of full scale.
- Suitable standard IS, ASTM, ISO or other equivalent standard.



● HOT/COLD WATER BATH

- Water bath is suitable for condition purpose during pressurized condition
- Construction of bath inside stainless steel and outside mild steel.
- Bath having a facility for uniform temperature and circulation.
- Bath sizes are customize as per customer's requirements or as per customer's finished goods material i.e pipes.
- Digital temperature controller is fitted on to the machine.
- All electrical panels are ISI mark and major components compliance with CE certifications.
- DSH's specially designed heaters are used, heaters design and construction according to the bath size
- Baths are design as per HOT WATER, COLD WATER, HOT& COLD WATER conditioning.

● MELT FLOW INDEXER

- Machine suitable as per IS:4984, ASTM D-1238, ISO or other equivalent standard.
- Machine having a temperature controller and timer facility.
- Machine supplied with standard tool kit and test required loads.
- Additional loads are also providing as per customer's request.
- Machine having maximum temperature range up to 400°C.
- Temperature accuracy $\pm 0.5^\circ\text{C}$ or better.
- Highly polished barrel, die and other accessories for better accuracy and performance.
- Power supply: single phase with earth, table top model
- Note: customer required 0.1mg accuracy weighing balance at your end



● CARBON BLACK CONTENT

- Machine design and construction as per IS:4984, ASTM or ISO standard.
- Temperature range up to 700°C.
- Temperature least count 1°C and accuracy better than 5°C.
- Heavy duty insulation used to minimize heat losses.
- All glass ware and accessories are mounted on to the fabricated panel.
- Test conducts chemical supply with the machine.
- Power supply: single phase with earth.
- Note: customer required 0.1mg accuracy weighing balance at your end

PE/PVC PIPES TESTING EQUIPMENTS



UNIVERSAL TENSILE TESTER

- Machine suitable for Tensile, elongation, flexural, compression, ring stiffness testing Suitable standard IS, ASTM, ISO, DIN, BS standards.
- DSH having different capacity and different application tensile tester as per your product.
- Single screw model for low load capacity, Twin screw model for high capacity model
- Computerized fully digital model also available and
- Machine capacity available from 10kgs to 20tonnes Computer interfacing facility with new version of DSH'S most advance and easy to operate software.
- Report generating and test method generating customized or according to the reference standards.
- Fixtures: wide range of DSH's fixtures suitable as per your application.



CONTOUR CUTTER

- Machine is suitable for making dumbbell samples of tensile testing.
- High speed anvil cutter is fitted for finishing of the samples
- Vacuum system is incorporated for dust free environment.
- All size of templates is available for the sample preparation.
- Maximum 25mm thickness sample or higher thickness samples also possible on request.

CARBON BLACK DISPERSION

- The instrument is made accordance with IS 2530, BS 2782 Part – 8, ASTM 3015.
- This instrument is used to find out uniform dispersion of Carbon Black in PE Products. Projection screen Diameter. 4 or 6".
- Magnifications 100 X, 200 X is available with instrument.
- Thermostatically operated Hot Plate is also provided with the instrument.
- Power supply: single phase with earth
- CCD camera unit with software facility also available on demand.



HOT AIR OVEN

- Oven chamber size: As per requirement.
- 12"x12"x12inches, 14"x14"x14inches, 18"x18"x18inches, 24"x24"x24inches, 36"x36"x36inches or customized size as per requirements.
- Temperature ranges up to 200°C. Least count 0.1.(Higher temperature range on requires) Temperature accuracy $\pm 0.5^\circ\text{C}$.
- Temperature controlling via PID controller and also in built auto-tune facility.
- Oven design construction to minimize heat losses.
- Body construction out side MS and inside SS.
- Fan/Blower circulating and stirring facility to maintained uniform temperature into oven.

OPACITY TESTER

- Machine suitable for find out opacity and transmitter of films.
- Suitable standards for IS:2508 and also new amendment, ASTM D589 or other equivalent standards.
- Direct result of light transmission and opacity in %(percentage)



PE/PVC PIPES TESTING EQUIPMENTS

● REVERSION OIL BATH

- Machine suitable for reversion test of pipes and finished goods
- Bath sizes are as per your requirements.
- Stirring facility available for uniform temperature.
- Construction of bath is outside MS with powder coating and inside SS
- ISI or CE mark electrical panel and components.



● VSP/HDT TESTER

- Machine having a analogue dial gauge, digital dial gauge or computer interfacing model
- Maximum no of stations up to 3stations.
- Machine according to IS: 4985, ASTM-1525,ASTM-648,ISO or other equivalent standard.
- Digital Temperature controller with rate of rise free programmable as per standard requirement.
- Oil bath made from stainless steel and machine outer body from Mild steel with powder coating and immerse type heater fitted is provided.
- Computer interfacing facility with new version of DSH'S most advance and easy to operate software in case of software interfacing model.
- High power cooling system provide with all models.

● ZERO DEGREE CHAMBER

- Machine used to conditioning of samples at zero degree for free falling dart impact.
- Chamber sizes are variable according to the pipe diameters
- Temperature range -5°C to $+20^{\circ}\text{C}$.
- Temperature least count 0.1°C .
- Kirloskar or Tecumseh make compressor is fitted on to the machine.
- Power supply: single phase, floor mounting model.



● HYDRAULIC PRESS

- Machine is useful to making sheet for density, dumbbell cutting or other application
- DSH having a two model one is manual and another is semi automatic.
- Maximum capacity up to 20tonnes.
- Hydraulic system with temperature controller fitted on to the both patterns.
- Temperature range up to 250°C with $\pm 0.5^{\circ}\text{C}$.
- Cooling system also provided.
- In case of semi automatic model complete test cycle is synchronise via microprocessor
- One piece of mold provide with the machine standard 3mm thickness.

- END CAPS
- DIGITAL DENSITY

- DUMBBELL CUTTING PRESS AND PUNCHES
- 20TONNES TENSILE FOR COLUMN PIPES

PE/PVC PIPES TESTING EQUIPMENTS



METHELENE CHLORIDE BATH

- Water bath size: as per your pipe diameter
- Insulation: five side heavy duty glass wool and PUF combination insulation is used to minimize heat losses.
- Temperature controlled: PID based temperature controller is used to control temperature.
- Heaters: stainless steel immerses type water heaters are fitted according to the bath consumptions. Long lasting Teflon seals are used to with stand high temperature.
- Refrigeration system: Heavy duty compressor refrigeration system is used with condenser to maintain temperature range from 10°C to 30°C also in same bath. LC - 0.1°C
- Circulating pump: thermostatically operated pump is used to maintained uniform temperature in bath.
- Electric panel: separate electrical panel is mounted on to right side of the bath. Electrical materials are as per ISI mark and full feel general electrical norms and regulations. Instant operated MCB switch is fitted for safety of bath.



PIPE "V" NOTCH CUTTER

- Machine suitable as per ASTM, ISO, IS 14885 standard.
- 60° equal angel cutter fitted with the machine.
- Sample Height and notch length is adjustable as per pipe diameter.
- Notch depth measurement via digital dial gauge with least count 0.01mm
- Cutting rate is fix as per standard.

MUFFLE FURNACE

- Machine supplied with PID based temperature controller.
- Two sizes of furnace are available 4"x4"x9" or 6"x6"x12".
- Temperature working range up to 1000°C. 1200°C or 1400°C also possible on request.
- Fire bricks insulation is used and front opening door with cera-wool insulation material for avoid heat losses.
- DSH supply glass ware and accessories as per customs requirements
- Power supply single phase 230volts table top model.



IZOD-CHARPY IMPACT

- Machine as per ASTM D-256
- Analogue type model suitable for IZOD-CHARPY testing.
- Pendulum impact type hammer fitted to find out energy of breaking material.
- Machine maximum capacity up to 15joules.
- Motorized notch cutter also provide with the machine for notching of the samples.

ESCR TESTER

- Machine design and develop as per ASTM 1693.
- Equipment comes with digitally controller water bath with circulating facility.
- Bath temperature is up to 100°C with 0.1°C L.c.
- With PID based digital control with in built timer facility to count the time.
- Stirring facility is inbuilt for uniform temperature.
- Machine comes with all required accessories.
- Accessories:
Specimen holder / Bending clamp / Transfer tool / Blanking die
Nicking die / Glass test tubes / Eglypol solution – 500ml approx



GRP-FRP & PULTRUSION TESTING EQUIPMENTS

UNIVERSAL TENSILE TESTER

- Machine suitable for Tensile, elongation, flexural, compression, ring stiffness testing
- Suitable standard IS, ASTM, ISO, DIN, BS standards.
- DSH having different capacity and different application tensile tester as per your product.
- Single screw model for low load capacity, Twin screw model for high capacity model
- Computerized fully digital model also available and
- Machine capacity available from 10kgs to 20tonnes
- Computer interfacing facility with new version of DSH'S most advance and easy to operate software.
- Report generating and test method generating customized or according to the reference standards.
- Fixtures: wide range of DSH's fixtures suitable as per your application.



CONTOUR CUTTER

- Machine is suitable for making dumbbell samples of tensile testing.
- High speed anvil cutter is fitted for finishing of the samples
- Vacuum system is incorporated for dust free environment.
- All size of templates is available for the sample preparation.
- Maximum 25mm thickness sample or higher thickness samples also possible on request.

HOOP TENSILE TESTER

- Machine suitable as per IS:12709, ASTM or other equivalent standards.
- Machine suitable up to 3000mm diameter pipes.
- Rib fitted or grooved machining plates are use for sample holding.
- Machine maximum capacity up to 25tonnes or 45tonnes as per your requirements.
- Report generating and test method generating customized or according to the reference standards.
- Computer interfacing facility with new version of DSH'S most advance and easy to operate software.
- Load measuring via digital load indicator and load cell.
- Precise extenso-meter fitted for the extension measurement.
- Solid tie bar with friction free bushes are used for long lasting.
- Vibration free sturdy mechanism.
- Hydraulic system is used for movement of plate.



HDT TESTER

- Machine is suitable for Heat deflection test.
- Machine having a analogue dial gauge, digital dial gauge or computer interfacing model
- Maximum no of stations up to 3stations.
- Machine according to IS: 4985, ASTM-1525,ASTM-648,ISO or other equivalent standard.
- Machine supply with complete accessories like indenter, weight set, deflection measurement.
- Digital Temperature controller with rate of rise free programmable as per standard requirement.
- Computer interfacing facility with new version of DSH'S most advance and easy to operate software in case of software interfacing model.
- High power cooling system provide with all models.

WOOD AND TIMBER TESTING EQUIPMENTS

UNIVERSAL TENSILE TESTER

- Machine suitable for Tensile testing for glue, Bending test, Screw with-drawl test
- Suitable standard IS:303, IS:1659, IS:2202(Part – 1) or other equivalent standard.
- Suitable machine capacity up to 1000kgf
- Computer interfacing facility with new version of DSH'S most advance and easy to operate software.
- Report generating and test method generating customized or according to the reference standards.
- With help of computer software use can find out all results like MOR,MOE and other applicable as per standard.
- Fixtures: wide range of DSH's fixtures suitable as per your application.
- Floor mounting model with heavy duty structure.



HUMIDITY CHAMBER

- Machine is used to conditioning of the samples at specified temperature as well as specified humidity.
- Humidity range 50% to 95%.
- Temperature range 20°C to 45°C.
- Suitable standards are IS, ASTM or other equivalent standards.
- Machine suitable for Pipes, Woven fabrics, Woods etc.
- Humidity and temperature both digital.
- Machine having a different sizes are available according to applications.
- Machine having facility of boiler and condensation.
- Wheel base machine for easy movement.
- Full length of glass doors for inspection of samples.

HOT AIR OVEN

- Oven chamber size: As per requirement.
- 12"x12"x12inches, 14"x14"x14inches, 18"x18"x18inches, 24"x24"x24inches, 36"x36"x36inches or customized size as per requirements.
- Temperature ranges up to 200°C. Least count 0.1.(Higher temperature range on requires)
- Temperature accuracy $\pm 0.5^\circ\text{C}$.
- Temperature controlling via PID controller and also in built auto-tune facility.
- Oven design construction to minimize heat losses.
- Body construction out side MS and inside SS.
- Fan circulating and stirring facility to maintained uniform temperature into oven.



HOT WATER BATH

- Construction of bath inside stainless steel and outside mild steel.
- Bath having a facility for uniform temperature and circulation.
- Bath sizes are changeble as per customer's requirements or as per customer's finished goods material i.e pipes.
- All electrical panels are ISI mark and major components compliance with CE certifications.
- DSH's specially designed heaters are used, heaters design and construction according to the bath size



RANGE OF PRODUCTS

- **UNIVERSAL TENSILE TESTER**
 - RANGE: 3KGF TO 50TONNES.
- **GEO TEXTILE — WOVEN SACKS TESTING EQUIPMENTS**
- **PIPE TESTING EQUIPMENTS FOR PE/PVC**
- **FLEXIBLE PACKAGING TESTING EQUIPMENTS**
- **GRP-FRP TESTING EQUIPMENTS**
- **WOOD AND TIMBER TESTING EQUIPMENTS**

CUSTOMIZED TESTING EQUIPMENTS AS PER YOUR STANDARDS AND REQUIREMENTS

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