Your Quality Our Commitment
Be in control of your larger business destiny, by being in control of even the most minuscule part of your quality control process and product quality. May quality facilitate your success.
Our story so far...
In our early days, we focused more on developing interrogative solutions to exclusive problems based on analogue outputs. These solutions gave us a great deal of creative satisfaction and built us for a grateful and loyal clientele. After a few years of working we realized that in this gigantic industrial market, digitalization and computerization are required to do the continual data analysis of test results. And we infused this realization into our business vision. Today, we have maintained our status as leading producer of plastic testing equipments in India and are constantly spreading our wings to international market.

Area of work
Our core field is manufacturing of testing equipments for plastic and rubber industries. We produce a complete range of quality equipments. In our early days, we focused more on developing interrogative equipments as per new testing standards and rubber industries. We design and develop special equipments as per new testing standards or customer requirements.

A tradition to follow, a reputation to keep
Through its unfailing adherence to quality, scientific temper and commitment to the customer, DPPL has built for itself a reputation that today precedes its permutations. Numerous big and small companies across the world have adopted our user-friendly testing solutions to ensure the quality of their products.

Corporate culture
"Each sale should begin a new relationship" that continues even after the transaction. This also gives us feedback of past sales that functions as invaluable performance analysis.

Reasonable, price, superior quality
Yet another reason we provide for choosing our product is: control on the in-house inspection and testing as a total quality management measure, making it mandatory for all individuals responsible for quality of their work. Those procedures, that enable TQM, are continuously aimed at zero failure and defect free performance, leading to superior products.

In the pursuit of quality DPPL has successfully implemented management system satisfying quality system standard ISO 9001:2008 and by adopting CE (European Complies) as a guide to its quality assurance activity.

In this brochure we have sought to provide a glimpse of our testing products. DPPL’s self-image and market confidence is based entirely on this feedback, and we matured into greater standardization and improved in-house inspection and testing as a total quality management measure, making it mandatory for all individuals responsible for quality of their work. Those procedures, that enable TQM, are continuously aimed at zero failure and defect free performance, leading to superior products.

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Universal Tensile Tester

Single Screw Models
The single column material testing machines having frame capacities of 1 KN to 5 KN, available in range of DTRX (Table Top) & DUTT (Floor Mounting) series.

Single Screw Table Top Models
With computer interfacing & variable speed drive system.
- **DTRX** - 1 KN for film testing application.
- **DTRX** - 5 KN for tape testing application.
- **DTRX** - 5 KN with single load cell for fabric testing application.
- **DTRX** - 5 KN with single load cell for low thickness SWR pipes testing application.
- **DTRX** - 5 KN suitable for MOV, MOR & WET bending strength testing in plywood testing application.

Single Screw Floor Mounting Models
- **DUTT** - 101 (with computer interfacing software + variable speed)
- **DUTT** - 10 (without computer interfacing + variable speed) with LCD / digital display of readings.

Twin Screw Twin Bar Models
The dual column material testing machines having frame capacities of 10 KN to 300 KN, available in range of DTRX & S-DTRX (Floor Mounting) series.
- **DTRX** - 10 KN / S-DTRX - 10 KN Model For PP strap, casing PVC pipes, C-PVC pipes, injection moulding articles, etc. testing application.
- **DTRX** - 20 KN / S-DTRX - 20 KN Model For PET strap, wood composites, special applications from defence, etc. testing application.
- **DTRX** - 30 KN / S-DTRX - 30 KN Model For automobiles & engineering plastics testing applications.
- **S-DTRX** - 100 KN / 200 KN / 300 KN Model For PVC column pipe pullout testing / column pipe thread testing application. Machines are available with suitable pull-out fixtures.

These machines are designed to test a wide range of materials including, but not limited to: Plastics, Films, Paper, Packaging Materials, Non-woven Fabrics, Filter Material, Belt, Leather, Adhesives, Foils, Food Packaging, Toys, Plastic Drum & Containers, Medical products and Electrical Components etc. in Tensile, Elongation, Modulus of Elasticity, Flexural Strength, Compression Strength, Co-efficient of Friction, Sealing Strength, Shear and Peel/Split Test, Tung Test, Grab Test, Butt-fusion, Elongation & Break, Weldability, Pull-out, Ring Stiffness, Creep Ratio, Special Force Measurement Test, etc.

DTRX and DUTT Series
Using a combination of quality engineering and advanced technology, Deepak has produced a series of machines that are accurate and simple to use. All DTRX and DUTT series machines have an easy-to-read backlit liquid crystal display feature. All data shown on this display is obtained in real time. The control unit has dedicated keys for moving the crosshead Up, Down, Stop and Start the test. The DTRX and DUTT series are equipped with load screw travel & AC frequency drive (close loop feedback system optional) to have speed selection and control. DTRX and DUTT Series models are having speed selection range from 1 mm/min to 500 mm/min (as per application and requirement).

S-DTRX Series
DEEPAK has developed servo motor based S-DTRX series of machines. These S-DTRX series models are equipped with servo control system to have better speed accuracy and control with additional software features. These models are having speed selection range from 0.5 mm/min to 500 mm/min.

Common Features
DTRX, S-DTRX and DUTT series machines are suitable to communicate directly with standard desktop/laptop PC running with Windows XP, 7, 8.1 software packages via high speed RS 232 communication port/USB port. DTRX and DUTT series machines are equipped with rapid change Z beam load cells that allow simple and quick ‘Sizing’ of the machines to an appropriate capacity for the test. These load cells have accuracy of +/- 0.5% of the applied load value, from 2% to 10% of the load cell capacity.

DTRX and DUTT series have a huge assortment of specimen grips and fixtures allowing the selection of an ideal configuration for your application.

Deepak Poly Plast Pvt. Ltd.
Pull-out Test Application of Column Pipes

Technical Details:
- Load Cell Capacity: 30000 / 20000 / 10000 Kgf. (30 / 20 / 10 Tons) Maximum.
- Inbuilt Testing Facility for Compression/Flattening/Ring Softness Test for the same provision of mechanical square high polish platons.
- With fixtures for pipes Sizes: 1”, 1¼”, 1½”, 2”, 2½”, 3”, 4”, 5” & 6”.

Motorized Compression Flattening Test Machine for e-PVC / uPVC Specimen Testing:
- Twin Screw Floor Mounting Structure suitable for up to 12 Inch Dia Pipes.
- Equipped with Flattening Platons: With Stationery Platon & Moving Platon Assembly.
- Equipped with 2 HP AC Motor Driven & With Heavy Gear Box System.
- With Electrical Control Panel for smooth operation and with inbuilt limit switch safety features.
- Power requirement: 415 V AC, 50 Hz Three Phase + neutral + earthing is required.

Deepak Poly Plast Pvt. Ltd.
www.deepakpolyplast.in
GRIPS FOR UNIVERSAL TENSILE TESTER

Standard Features
- PC compatible via high speed RS 232 com port/USB port.
- Machines are proof loaded at 200% of their capacity.
- Force accuracy of 0.5% of applied load across the load cell display range.
- Built-in protection for overload and over travel.
- Position measurement accuracy of 0.01 mm for S–DTRX series & 0.1 mm for DTRX & DUTT series.
- Specially designed Windows XP/7/8.1 based software for DTRX and DUTT series machines.
- Customized grips and fixtures according to products and reference standards.

Specifications
- Load measuring accuracy: +/- 0.5% of applied load from 2% to 100% capacity, extended range down to 1% capacity with accuracy of 1% of applied load.
- Position measuring accuracy: +/- 0.01 mm of reading or 0.01 mm in S–DTRX series & 0.1 mm in DTRX and DUTT series.
- Speed accuracy: +/- 0.1% of set speed.
- Load measuring system meets the requirements of ASTM E4, ISO 7501.
- Strain measuring system meets the requirements of ASTM E83.

Note: Specifications are subject to change without prior notice.

Dumbbell Cutters/Die Punches

Deepak Poly Plast Pvt. Ltd.

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Izod-charpy Impact/Tensile Pendulum Impact

The new model of Pendulum Impact tester is built with versatility, ease of operation and display of information with high resolution.

These machines are capable of determining the impact strength using Charpy, Izod or Tensile Pendulum Impact methods by changing the pendulum striking tab.

By using the appropriate striking tab and the specimen clamps on the base of the machine, plastic samples can be tested in accordance with:

- ASTM D 256 Izod Impact
- ISO 179 Charpy Impact
- ISO 180 Izod Impact
- ASTM D 6110 Charpy Impact

Pendulum capacity can be easily change & increased by adding the optional weights on Pendulum Hammer Device. The energy absorbed for breaking can be configured in different units of measurement and the same is displayed by an optical encoder mounted on the shaft of the machine.

Key Features

- Selectable energy units – J, in.lbf, ft.lbf, kgf.m, kgf.cm
- Selectable strength calculation in J/m, Kj/m², kgf.m/m²
- Auto calibration for bearing wind edge and friction

Technical Specification

- Pendulum Capacity Maximum up to 25 Jules
- Drop Height 0.61 meter
- Impact Velocity 3.46 m/s
- Power 220/230 V AC, 50 Hz Single Phase

Falling Dart Impact Tester for Films

Generally Plastics Films are used for ‘Packaging Application’, and undergo wear & tear. Hence study of ‘Impact’ Resistance is established to evaluate the quality and mechanical property of the film.

This method covers the determination of the energy that causes Plastics Film to rupture under specific conditions of impact of a Free Falling Dart (load). This energy is expressed in terms of weight (mass) of the missile falling from a specified height which would result in 10% specimen’s failure tested.

Features

- The evaluation of ‘Impact Strength’ of different types of Plastics Films & Sheet, Decorative Laminates, Corrugated roofing sheets etc.
- Dart with different weights are available to drop from different height to study the fracture of the product.
- To clamp specimen tightly, ‘Vacuum Clamping System’ is provided with ‘Vacuum Ring & Gauge’.
- Electromagnetic Dart Holder is provided so as to hold the dart and drop at press of button.
- Evaluation can be carried as per ’IS-2508, ASTM D-1709 & IS 2782’ standards.

Accessories

Accessories can be provided as per different standard requirement.

Specification

- Dimension (W x D x H): 22 x 20 x 84 (inch)
- Dart: As per IS – 2508 and ASTM D 1709 standard
- Supply: 220/230 V AC, 50 Hz Single Phase
- Approx Weight: 75 kg

Elmendorf Tear Tester

It is used to determine ballastic tearing strength and work factor of fabrics elmendorf method, supplied with calibration weights and augmenting mass to test upto 6400 gms.

This test method has been widely used as one index of the tearing resistance of plastic film and sheeting used in packaging applications. While it may not always be possible to co-relate film tearing data with its other mechanical properties. This test method provides a controlled means for tearing specimens at straining rates approximating some of those found in actual packaging services.

- Pendulum of 1600 gf, 3200 gf and 6400 gf capacity (as a extra weight).
- Pointer reset mechanism.
- Sturdy & compact design.
- Rigid cast iron body to bear the vibration of pendulum swing.
- Provided along with ASTM and BS Templates.
- Reference standard ASTM D 1922 & IS 2508.

Deepak Poly Plast Pvt. Ltd.
Deepak friction tester is primarily designed to determine the co-efficient of friction of plastic films, sheets, laminates, pipes and paper etc. The equipment provides measurement of static and kinetic co-efficient of friction. The apparatus conforms to BS 2782 and ASTM D –1894 and other equivalent standards.

Measurement of frictional properties may be made on a film or sheeting specimen when sliding over itself or over another substance. The co-efficient of friction are related to the slip properties of plastic films that are of wide interest in packaging application. These methods yield empirical data for control purpose in film production. Co-relation of test results with actual performance can usually be established.

Co-Efficient of Friction Tester (Slip Tester)

Features
- Microprocessor based programmable LCD digital display unit with memory back-up.
- With computer interfacing software facility (Rs-232 to Rs-485 converter system).
- With master software CD & interfacing cable with USB connectivity.
- Variable speed control system with AC drive digital speed indicator.
- Speed selection: 10 mm/min to 300 mm/min.
- Sled movement at 300 mm/min.
- With overload protection system for load cell.
- With auto stop facility after 300 mm travel.
- Electronic twin bar type load cell, available with 700 “or” 1500 gmf capacity.
- Panasonic make compact AC geared motor & compact gear box system.
- Sled with steel and rubber combination.
- Movement of sled is based on frictionless linear guide system to avoid play in running mode.
- S.S. High Polish Moving Platform with guide and scale with auto reverse on/off selection facility.
- Attachable available for peel of strength of plastic adhesive film, at extra cost.
- Power Requirement: 220/230 V AC, 50 Hz Single Phase

Deepak Opacity Tester is used to determine optical characteristics of plastics films. Procedure is based on transmission of light through the specimen.

Specifications
- Reference Standards: ASTM D 1746, ASTM D 2530, IS 2508
- Power Requirement: 220/230 V AC, 50 Hz Single Phase

Opacity Tester for Films

Opacity Tester for PVC Pipes

(As per new amended standard of IS 4985 April 2012)
- Compact table top model.
- New version as per amendment of standard IS : 12235 (PART 3) 2004
- Digital display with direct % reading facility.
- Dust free chamber with spanable cover to protect sample during test. Also avoid unwanted light passing through sample.
- With in-built specimen mounting spring type clamp (fitted in specimen mounting chamber).

With density measuring system.
Model: 200/220 gms for specific gravity/density test application
- With density kit.
- Readability: 0.0001 gm (0.1 mg)
- Power Req.: 12V / 0.84 A.
- Direct display of calculated density result.
- Suitable for mass density test application.

Opacity Tester for PVC Pipe

Power Requirement: 220/230 V AC, 50 Hz Single Phase

Electronic Weighing Balance

Shrink Oil Bath Apparatus

- Oil Bath inner chamber size: 12 x 12 x 08 inch. Capacity: Max. 1.8 Ltr.
- With Digital PID Temperature Cont., Temperature Panel Fitted.
- Temperature Working Range: Ambient Room Temperature to 150°C.
- Maximum Working Temperature Range: Upto 150°C with +/- 1 °C Accuracy.
- To keep uniform temperature in oil bath, Remi make regulated stirrer motor fitted on top SS sheet cover.
- Inside SS (SS-304) & out side MS body with high temp. resistant PU-Sunsilk paint with 3.5 inch thick glasswool insulation on all side walls of Oil Bath structure.

Shrink Oil Bath Apparatus

Electronic Weighing Balance

GSM Cutter with Rubber Pad

With density measuring system.
Model: 200/220 gms for specific gravity/density test application
Environmental Stress Cracking Resistance

This apparatus is used for determining the susceptibility of ethylene plastics, to Environmental Stress Cracking when subjected to certain conditions. Bent specimens of the plastic having controlled imperfections are exposed to the action of a surface-active agent. These tests are normally employed for routine inspection purposes.

Environmental stress cracking is a property that is highly dependent upon the nature and level of the Stress and on the thermal history of the specimen. This equipment consists of a heating bath to hold water or surface active liquid used for the test.

- Model with Accommodation of 08 Test Tubes Size: 12(L) x 12(W) x 14(H) inch.
- Model with Accommodation of 16 Test Tubes Size: 20(L) x 20(W) x 15(H) inch.

Features
- Microprocessor based PID Temperature Controller.
- Temperature range up to 400°C. +/- 0.1°C.
- Built-in microprocessor based cyclic timer with buzzer output.
- Optional attachments for automatic cutting device and computer interfacing are available with extra cost.

Standards
- ASTM D 1238 Method A & B
- IS 1133.
- IS 2508/2530.

Carbon Black Content Tester

Deepak Carbon Black Content Tester has been designed incorporating many features and new ideas. The apparatus conforms to the most recognized national and international standards including BIS, ISO, ASTM, etc. To determine the average of carbon black content especially in polyethylene materials by pyrolysis method, like plastic pipes, films, sheets, cables, water tanks etc., this equipment is very useful for evaluation of carbon black content. Carbon black is used in plastic as a UV stabilizer to prevent degradation of plastic by UV radiation. It is also possible to find out ash content in plastic material by this instrument.

Features
- Microprocessor based PID Temperature Controller.
- Temperature range up to 800º C with microprocessor based PID temperature controller.
- Timer in-built timer with temperature controller synchronizes with temperature.
- Built-in microprocessor based cyclic timer with buzzer output.
- Optional attachments for automatic cutting device and computer interfacing are available with extra cost.

Standards
- ASTM D 1693 or equivalents
- IS 2530 / 2508
- ASTM 1603 or equivalents

Carbon Black Dispersion Tester

- ASTM, BS or equivalent standards.
- ASTM, BS or equivalent standards.
- ASTM, BS or equivalent standards.

Features
- Compact tubular furnace to get temperature up to 800°C with microprocessor based PID temperature controller.
- The furnace contains 2.0 KW heating element wound on a tubular Quartz tube.
- Provided with nitrogen gas purification and moisture absorption system.
- Specimen is heated in controlled nitrogen atmosphere (inert atmosphere).
- Instrument is heavily insulated with glass wool and insulation/fire bricks.
- Relevant glass wares and gas flow regulator meter provided with the machine for purification and regulation of the nitrogen gas.

Standards
- Designed and manufactured as per the following standards:
  - ASTM D 1238 or equivalents
  - ASTM, BS or equivalent standards.

Deepak Carbon Black Dispersion Instrument is used to find out the dispersion of additives e.g., pigments, fillers in plastics. In plastic material, pigment and fillers play a very important role for matching the uniform colours as well as resistance against UV light. This equipment is also useful for determination of surface defects, voids, bubbles, filler distribution and other structural investigation.

Equipment includes all operating tools, piston and dies. Integrated microprocessor based PID temperature control/timer incorporates latest digital technology. Operations up to 800°C with microprocessor based PID temperature controller.

Features
- Microprocessor based PID Temperature Controller.
- Temperature range up to 800º C with microprocessor based PID temperature controller.
- Timer in-built timer with temperature controller synchronizes with temperature.
- Built-in microprocessor based cyclic timer with buzzer output.
- Optional attachments for automatic cutting device and computer interfacing are available with extra cost.

Standards
- ASTM D 1693 or equivalents
- IS 2530 / 2508
- ASTM 1603 or equivalents

Features
- Compact tubular furnace to get temperature up to 800°C with microprocessor based PID temperature controller.
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Features
- Microprocessor based PID Temperature Controller.
- Temperature range up to 800º C with microprocessor based PID temperature controller.
- Timer in-built timer with temperature controller synchronizes with temperature.
- Built-in microprocessor based cyclic timer with buzzer output.
- Optional attachments for automatic cutting device and computer interfacing are available with extra cost.
Deepak Hot Air Circulating Oven is used for multipurpose tests for plastic material such as shrinkage, reversion, migration, warpage, moisture content and lateral E.S.C.R. Test at different temperature. Triple walled construction and forced air circulation provide uniform temperature throughout the chamber.

**Features**
- Temperature range: Ambient to 199.9°C.
- Temperature controlled by 'Digital PID' based temperature controller.
- Choice of M.S., Aluminum or SS Interior body.

**Standard Chamber Size (L x W x H)**
- 350 x 350 x 350 mm (14 x 14 x 14 inch)
- 450 x 450 x 450 mm (18 x 18 x 18 inch)
- 450 x 450 x 600 mm (18 x 18 x 24 inch)
- 600 x 600 x 600 mm (24 x 24 x 24 inch)
- 600 x 600 x 760 mm (24 x 24 x 30 inch)
- 1000 x 1000 x 1000 mm (39 x 39 x 39 inch)
- 1065 x 600 x 600 mm (42 x 24 x 24 inch)
- 1980 x 760 x 910 mm (78 x 30 x 36 inch)
- 2260 x 1240 x 1490 mm (89 x 49 x 59 inch)

Hot Air Circulating Oven

Muffle Furnace

**System Specifications**
- Temperature range: Ambient temperature to 1000°C
- Temperature resolution: 1°C
- Furnace size: 9" x 4" x 4", 12" x 6" x 6", & 18" x 9" x 9"
- Furnace construction: Inside SS outside MS with powder coating
- Insulation: Heavily insulated with glass wool and fire bricks
- Power supply: 220/230 V AC, 50 Hz Single Phase
- Weight: 2 kg (approx.)

**Features**
- According to ASTM D1895, ISO R-60, IS-466, ARM standard, etc.
- Easy handling.
- Compact structure.
- Made of high quality, polished corrosion resistant materials.
- With anodizing treatment as per requirement.

Methylene Chloride Tester

The Methylene Chloride Test is meant to check the gelation in rigid PVC pipes. This method is based on various national and international standards, where specified test temperature and duration concludes resistance of unplasticized PVC pipes against dichloromethane.

A piece of PVC-U pipe of specified length, chamfered at one end to an angle dependent on its thickness, is immersed for a fixed period of time in a thermo controlled dichloromethane bath in order to verify that the PVC-U is not attacked at the temperature specified in the product standard.

The test pieces are dried in air and then examined to observe whether the PVC has been attacked or not.

Available chamber sizes are: 350 x 350 x 200 mm, 650 x 650 x 300 mm & 650 x 650 x 500 mm

Bulk Density / Dry Flow / Flowability / Pourability Test Apparatus

It is easy to determine fast and accurate bulk density of plastics raw materials with the Deepak Bulk Density tester. You can control the uniformity of the raw material from different stocks and deliveries according to standards.

**System Specifications**
- Capacity of hopper: Approx. 115±5 ml
- Capacity of measuring cup: Approx. 100±5 ml
- Dimensions: Height-250 mm, Width-150 mm, Depth-140 mm
- Weight: 2 kg (approx.)
- Calculation: Apparent density = (G1-G0):100 in g/ml
  Or = (G1-G0) x10 in g/ml

**Features**
- According to ASTM D1895, ISO R-60, IS-466, ARM standard, etc.
- Easy handling.
- Compact structure.
- Made of high quality, polished corrosion resistant materials.
- With anodizing treatment as per requirement.
Hydro Static Pressure Testing Machine

Deepak Hydro-static Pressure Testing Machine is designed specifically for testing HDPE, PVC, PPR, Lateral pipes as per IS 4985, IS 4984, IS 12786, IS 13952, IS 14333, IS 14515, IS 15328, IS 15801, EN 921:1994, ASTM D 1785 and other relevant standards. Hydro-static Pressure Testing Machine is used to maintain the required pressure in pipes.

Features
- Standard equipment includes versatile microprocessor based controller with high performance to price ratio. This is a single chip micro-controller based controller designed for 4-20 mA inputs. Four user-friendly key operated instrument, where keys are used for programming of pressure display unit of each channel.
- Separate versatile microprocessor based controller for each station with high accuracy pressure control up to 0.10 bar.
- Option of one to three pressure outlets with each station, or as per customer requirement.
- User friendly Windows XP/7/8.1 based software suitable up to 32 pressure stations and 08 temperature stations in software. All the stations can be operated from single bar graph window from computer display and all pressure control parameter can be set by few selected mouse clicks.
- PC connectivity is not required for entire test duration with machine. After completion of test, data can be downloaded from machine to PC. Machine display micro controller is with inbuilt memory card, suitable up to 3000 data storage.
- Facility of report generation is available in two formats (1) in software format & (2) in Microsoft excel with graph and test data.
- Option of two type of booster for accumulator (1) motorize pump system which requires only water inlet & (2) pneumatic pump system which requires air and water inlet to generate pressure.
- Negative Pressure Test Machine - Equipped with in-built vacuum pump unit for negative vacuum pressure generation.
- Positive Pressure Test Machine - Equipped with inbuilt airless Motorized Pump / Hydro-pneumatic Cylinder Unit for positive pressure generation.
- With digital programmable (cyclic programming) display controller for test cycle programming for negative & positive pressure test.

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Deepak hot/cold water bath is used for short term and long term hydrostatic Pressure test of HDPE, R-PVC, C-PVC, MDPE and Lateral Pipes. They are tested at higher or lower (cold) temperature in water bath as per IS, ISO and ASTM Standards.

### Features
- Microprocessor based temperature controller with PID action.
- Temperature range up to 100°C with least count of ±0.1°C and accuracy ±2°C.
- Inside S.S. body, outside M.S. body with powder coating and puff insulation (injected puff).
- Complete inner and outer S.S. body bath.
- ‘GRUNDFOSS’ make water circulating pump is provided in Hot/Cold water bath to achieve the temperature uniformity in entire water bath.
- Heating, cooling or both facilities can be provided as per the requirement.
- Power requirement: 415 V AC, 50 Hz Three Phase + neutral + earthing is required.
- For CPVC pipes & fittings - Water circulation test at 95 & 82°C with inner water circulating pumps fitted + with external high pressure Grundfoss water pump fitted.
- Water Circulating Pump GRUNDFOSS - CRCM - 1
  - Model: A96127254 P 10818 | Type: CRCM1, 1.10 Kw Capacity
  - With attachment of ½” inch hose colon connection for inlet & outlet.
  - With Flow Control Needle / Ball Valve Mounting & Brass Block Mountened
  - 0-20 bars electronic pressure display unit fitted.
- 0-20 bars electronic pressure display unit fitted.
- Analogue Gauge Version Manual Dun-key Type Hydro Static Pressure Test M/c - For Water Tightness of Joints Test
  - Short term single station with single outlet.
  - Range of Analogue SS Pressure Gauge: 0-4 Kg/cm².
  - L.C.: 0.25 Kg/cm².
- Based on Manual Dun-Key Type Water Pump Pressure Generation System.
- With digital stopwatch for test duration observation.
- Complete Stainless Steel Body
- Room Temperature Water Bath Suitable for Short Term Pressure Test
- Room / Hot / Cold Water Bath

### Specifications
- Length (inch) Width (inch) Height (inch)
  - 60 30 46
  - 60 30 60
  - 48 30 20
  - 40 20 40
  - 40 24 40
  - 40 24 18
  - 48 36 22
  - 48 36 18
  - 48 20 18
  - 30 20 18
  - 14 14 12
  - 72 40 40
  - 78 39 60

### Test Bench for Leak Tightness of Joints against Angular Deflection (with Positive & Negative Pressure Applied)

### Test Bench for Fittings Pressure Test Application

### Hot Water Bath for Temp. Malfunctioning Test
- Size : 40 x 20 x 40 inch
- Range of Analogue SS Pressure Gauge: 0-4 Kg/cm².
- L.C.: 0.25 Kg/cm².
- Based on Manual Dun-Key Type Water Pump Pressure Generation System.
- With digital stopwatch for test duration observation.
- Complete inner and outer S.S. body bath.
- ‘GRUNDFOSS’ make water circulating pump is provided in Hot/Cold water bath to achieve the temperature uniformity in entire water bath.
- Heating, cooling or both facilities can be provided as per the requirement.
- Power requirement: 415 V AC, 50 Hz Three Phase + neutral + earthing is required.

### Hydro Static Pressure Testing Machine - Single Station Model:
- Hydro-101-D-50 for Bursting Test

### Cold Water Bath
- Size : 78 x 36 x 60 inch

### Hot Water Bath
- Size : 78 x 36 x 60 inch
- Size : 40 x 20 x 40 inch
- Size : 60 x 30 x 46 inch

### Hot/Cold Combined Water Bath
- Complete Stainless Steel Body
- Suitable for Short Term Pressure Test

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Humidity Chamber Unit
(For Specimen Conditioning)

- Inner chamber of SS, outer MS body with powder coating.
- With digital indicator for RH value & temp. read out.
- Temp. range: 25°C to 45°C.
- Humidity readout range: 45% RH to 80% RH.
- With blower system for uniform temperature.
- With inner glass door for easy visibility.
- With two SS shelves (racks).
- Inner chamber size:
  - 18 X 18 X 18 inch
  - 18 X 18 X 22 inch
  - 18 X 18 X 40 inch

Deep Freezing Chamber (For Specimen Conditioning)

Deepak Zero Degree Chamber is specially used to condition the R-PVC pipes at 0°C for impact testing as per IS 4985 standard.

A true material comparison is possible only when test values are determined by identical test methods under identical conditions. In general, physical and mechanical properties of plastics and electrical insulating materials are affected by temperature and humidity. Plastic materials tested above/below room temperature will yield relatively higher impact strength and lower tensile strength as well as modules. In order to make reliable comparisons of different materials and test results obtained by different laboratories, it is necessary to establish standard conditions of temperature and humidity for testing.

Features
- Microprocessor based temperature controller with PID action.
- Temperature range: Room temperature to -5°C or -20°C.

Standard Chamber Size
- 18 x 18 x 18 inch (Front opening single door model).
- 20 x 15 x 30 inch (Top opening single door model).
- 40 x 20 x 30 inch (Top opening single/two door model).
- 70 x 30 x 32 inch (Top opening three door model).

Reversion Oil Bath

Digital PID based temperature controller with 0.1°C least count.

Features
- Temperature range: Max. up to 200°C.
- In side SS out side MS with powder coating.
- For uniform temperature stirring is provided.
- Actual Inner Size: 26(L) X 20(W) X 16(H) inch Working Area: 18(L) X 20(W) X 14(H) suitable up to 250 mm pipe testing with oil filling capacity up to 140 Ltr.
- Actual Inner Size: 28(L) X 22(W) X 32(H) inch Working Area: 22(L) X 20(W) X 32(H) suitable up to 400 mm pipe testing with oil filling capacity up to 180 Ltr.
- Actual Inner Size: 42(L) X 34(W) X 27(H) inch Working Area: 34(L) X 30(W) X 27(H) suitable up to 315 mm pipe testing with oil filling capacity up to 180 Ltr.
- Size can be modified according to customer requirements.
- Insulation: glass wool insulation.
- Power requirement: 415 V AC, 50 Hz Three Phase + neutral + earthing is required.
End Plugs

- End Plugs suitable for R-PVC, C-PVC, u-PVC, H.D.P.E, Lateral, Sprinkler, PPR, M.D.P.E., SWR, etc. Pipes and Joints.
- Sizes are available from 12 mm to 1200 mm pipe diameters.

Types

- MS Block type with double rubber gasket.
- Aluminium design cup type with double rubber gasket.
- Investment steel casting (SS-304) with double rubber gasket.
- Hose collar block type end plugs for lateral pipes.

HDT / VSP Tester (Analogue / Digital)

Deepak HDT/VSP instrument is used for determining the deflection temperature limit for specific application and comparing the heat softening characteristics of thermoplastic material at a constant load in oil media up to 300º C.

Plastic materials, being heat sensitive in nature, have a lot of bearing on thermal environment for their performance. Though their behaviour in thermal conditions is very complex, some simple yield tests are used to predict its behaviour and performance in a given condition. ‘Vicat Softening Point’ or ‘Heat Deflection Temperature’ is one of such yield points, very commonly used for engineering plastics. Vicat test consist of penetrating a unit size indenter in a plastic surface with predefined load under constant rate of environmental temperature rise.

Heat distortion test, as it is sometimes called, consists of deflecting a simply supported beam of test material under similar heating conditions and with a predefined stress application.

Available range of VSP Tester – Single Station, Two Stations, Three Stations, Four Stations & Eight Stations.
Specifications

- **Roll Diameter**: 150 mm
- **Roll Width**: 360 mm
- **Working Width**: 300 mm
- **Material Construction**: EN 8 hardened material & with high polish chrome plated enable to resist high temp.
- **HMI touch screen with PLC controller.**
- **NIP gap measurement with 0.01 mm least count.**
- **Separate temperature controller & display for both the rolls.**
- **Temperature Range**: Upto 300°C with PID controller (Electrically Heated Rolls)
- **Motor Driven Power**: 5 HP
- **Doctor blade for removal of material on entire working width area of the material.**
- **A/C Frequency drive for speed control (2 to 22 RPM) (Controllable from HMI with speed display).**
- **Paint**: Angle Structure: Epoxy Paint
- **Element covered by SS case for protection & long operation.**
- **SS rod for manual cutting of the processed polymer.** (With SS tray fitted for handling).
- **The motor driven system is equipped with the limit switch actuated for emergency stop.** (Situated at knee level in front of the machine)
- **Available in both fix and variable speed model.**

Note: Two Roll Mill also available for rubber application with water cooling arrangement.

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**50 Ton Micro-processor Based Compression Moulding Press (Lab Model)**

Deepak Hydraulic press is made out as four-column press, the machine can be used to produce all kinds of flat samples for Lab testing applications. Working dimensions for the same are suitable for national & international standards.

- **Technical Data**

<table>
<thead>
<tr>
<th>Technical Data</th>
<th>Unit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working area</td>
<td>mm x mm</td>
</tr>
<tr>
<td>Plate dimension</td>
<td>mm x mm</td>
</tr>
<tr>
<td>Daylight opening</td>
<td>mm</td>
</tr>
<tr>
<td>Press force</td>
<td>tons (max)</td>
</tr>
<tr>
<td>Hydraulic pressure</td>
<td>bars (max)</td>
</tr>
<tr>
<td>Working temperature</td>
<td>°C (max)</td>
</tr>
<tr>
<td>Hydraulic power</td>
<td>KW</td>
</tr>
<tr>
<td>Heating power per plate</td>
<td>KW</td>
</tr>
<tr>
<td>Machine length</td>
<td>L x D x H (mm)</td>
</tr>
<tr>
<td>Machine weight</td>
<td>Kg</td>
</tr>
</tbody>
</table>

Deepak Poly Plast Pvt. Ltd.

www.deepakpolyplast.in
Differential Thermal Analyzer (OIT Tester)

- Outstanding repeatability and reproducibility on heating.
- High sensitivity for both endothermic and exothermic events.
- Top class design reliable, robust yet extremely sensitive.
- Easy to use with a new comprehensive software package for control, data acquisition and processing.

Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature Range</td>
<td>Room Temperature to 400°C</td>
</tr>
<tr>
<td>Heating Rate</td>
<td>0.1°C to 30°C/min with 0.1°C intervals</td>
</tr>
<tr>
<td>Cooling Rate</td>
<td>-</td>
</tr>
<tr>
<td>Reproducibility</td>
<td>0.5°C with full calibration procedure</td>
</tr>
<tr>
<td>Accuracy</td>
<td>Traceable to NABL standards</td>
</tr>
<tr>
<td>Principle</td>
<td>Differential temperature measurement</td>
</tr>
<tr>
<td>Signal</td>
<td>Stable low noise, low temperature drift, solid state amplifier with appropriate sensitivities</td>
</tr>
<tr>
<td>Sensor</td>
<td>Differential sensors – 'E' Type Control Sensor – PT 100</td>
</tr>
<tr>
<td>Atmosphere</td>
<td>Separate Gas flow meter to measure the gas flow: Automatic gas switching accessory with user definable set points</td>
</tr>
</tbody>
</table>

Contour Cutter Machine (Template Type)

- Motorised "V" Notch Cutter for Slow Crack Growth Rate Test
  - 60 Degree Double Equal Angle Cutter Unit

  'V' Notch making machine is used for making the ‘V’ Notch over the pipe surface for slow crack growth resistance test.

  Features
  - Machine is made in accordance with ASTM F-1474-93 and ISO 13479, IS 14885, IS 4984 - 2016.
  - Machine is fully equipped with the digital measurement for length & depth of the notch.
  - Control for ‘V’ Notch length is digital and auto reversible.
  - Notch length measurement with bracket travel with accuracy of 0.1 mm.
  - Control for depth of ‘V’ Notch is manual and measurement is digital.
  - Notch depth measurement with 0.01 mm accuracy LMPM potentiometer, while making the notch on HDPE/MDPE pipe sample.
  - Cutting rate is digitally adjustable.
  - Cutter rotation is having a variable speed drive with AC frequency control equipped with Panasonic motor & inbuilt gear box.
  - Machine notch bench is suitable up to 280 mm dia pipe & also available for higher diameters, as per requirement of ISO standard.
  - Equipped with front mirror polished acrylic safety cover, for observation during notch making operation.

Suitable Templates for Contour Cutter
- Template for Die Type: - A (180 X 80 mm)
- Template for Die Type: - B (250 X 100 mm)
- Template for Die Type: - C (150 X 25 mm Type 1)
- Template for Die Type: - D (115 X 25 mm Type 2)
- Template for Die Type: - D (250 X 100 mm Type 3)
- 63.5 mm Dumbbell shape as per ASTM D 638
- 115 mm Dumbbell shape as per ASTM D 638
- 165 mm Dumbbell shape as per ASTM D 638
- 245 mm Dumbbell shape as per ASTM D 638
- Rectangular size: 150 x 25 mm, 127 X 13 mm, 80 x 10 mm
Falling Dart Impact Tester for HDPE, PVC & PPR Pipes / Fabric Material

Deepak Free Falling Dart Impact Tester is used for PVC pipes, PVC ducting pipes & HDPE pipe as per IS, DIN, ASTM, BS, DOT specifications.

The impact properties of the polymeric materials are directly related to the overall toughness defined as the ability of the polymer to absorb applied energy. The area under the stress-strain curve is directly proportional to the toughness of a material. Impact strength is a measurement of toughness. The higher the impact strength of a material the higher the toughness and vice-versa.

Impact resistance is the ability of a material to resist breaking under a shock loading or the ability to resist the fracture under stress applied at high speed.

**Features**
- Drop height up to 2 mtrs.
- Drop height controlled manually/motorised.
- Pipe diameter can be tested up to 315 mm in manual version, whereas up to 450/630 mm in motorised version.
- Falling weight: 250 gms, 500 gms, 1 kg, 10 kg or as per the requirement of various standards.

Falling Dart Impact Tester Manual

The pipe shall be placed on ‘v’ block in such a way that one of the marked lines is uppermost. The striker shall be allowed to fall manually/chain drive motorised system.

Specimens: 200 ± 10 mm long pipe shall be cut from the complete section. Each specimen shall be cut clean & gauge to the axis of the pipe.

**U. V. Weather Meter Accelerated Weathering Tester**

The damaging effects of sunlight are simulated by fluorescent UV lamps. Exposure temperature is automatically controlled, as the daily sequence of UV periods and condensation periods. Testing duration of deterioration effect can be reduce by DWT which may occur in a longer period like a month or years of outdoor exposure.

Deterioration observed includes fading, chalking, cracking, crazing, hazing, blistering, gloss lose, strength lose, and embitterment.

**Specifications**
- Light source: Fluorescent UV-B type lamp with wavelength of 313 nm.
- UV lamps: 40 w, 08 nos.
- Panel temp. range: Ambient to 90°C
- Panel temp. accuracy: ± 2°C
- Water/condensation temp. range: Ambient to 90°C
- Test capacity: Provision of holding 22 specimen of size 75 x 300 mm
- Power requirement: 220/230 V AC, 50 Hz Single Phase

Deepak DWT accelerated weathering tester is a laboratory simulator of the damaging effects of weather. It is used to predict the relative durability of materials exposed to the outdoor environment. Rain and dew are simulated by a revolutionary condensation system.

Thermo Cyclic Test Equipment

- REF. ASTM D-2846.
- Pneumatic operations for lifting and dipping the test specimens.
- 6 Nos. of test specimens can be tested at a time.
- Maximum specimen size 2 inch. (dia) & maximum length 300 mm.
- Tank size of hot & cold water bath 900(l) x 500(w) x 400(h) mm.
- Pressure to be applied by air compressor or N2 gas bottle.
- Cycle of operation can be programmed in sequence up to 999.9 seconds for each cycle, & no. of cycles also can be programmed.
- Outside MS Body (Coated MS Sheet).
- All Hydraulic / Hydro-pneumatic Parts Fitted are made of SS / Brass only.
Electrical Conduit Pipes / Casings Testing Application

Bending Test
- Conduits shall be subjected to a bending test.
- Reference to the values and to the tests for conduits are made in one relevant conduit specifications taking into account the manufacturer’s instructions for bending, so far as they do not contravene the aims of this specification as a whole.

Compression Test
- Samples of conduit, each 200 mm long, shall be subjected to a compression test using the apparatus shown in Fig. Before the test, the outside diameter of the samples shall be measured. The samples shall then be conditioned at a temperature of 27± 2°C for at least 10 hours.
- Immediately after the conclusion of conditioning period, the samples shall be positioned on a flat steel support and a steel intermediate block as shown in Fig. is placed on the middle of the sample. Slowly increasing force as shown in Table for different types of conduits shall then be applied to the intermediate piece within 30 seconds.

**Force for Compression Test**

<table>
<thead>
<tr>
<th>Type of Conduit</th>
<th>Compression Force (N)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very light</td>
<td>125</td>
</tr>
<tr>
<td>Light</td>
<td>320</td>
</tr>
<tr>
<td>Medium</td>
<td>750</td>
</tr>
<tr>
<td>Heavy</td>
<td>1250</td>
</tr>
<tr>
<td>Very heavy</td>
<td>4000</td>
</tr>
</tbody>
</table>

Note - The values in the table are subject to modification in relevant conduit specifications.

Collapse Test
- Samples of conduits made of insulating materials of length as specified in Table shall be bent at room temperature, the bending radius being as given relevant conduit specifications. The samples are then fixed to a rigid support by means of four straps as shown in Fig.

**Length of Samples for Collapse Test**

<table>
<thead>
<tr>
<th>Size (mm)</th>
<th>16</th>
<th>20</th>
<th>25</th>
<th>32</th>
<th>40</th>
<th>50</th>
<th>63</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length (mm)</td>
<td>340</td>
<td>370</td>
<td>450</td>
<td>590</td>
<td>740</td>
<td>900</td>
<td>1130</td>
</tr>
</tbody>
</table>

- If mechanical bending aids recommended by the manufacturer are used for rigid conduits, the mechanical aids shall be moved. The support with the sample in position is kept for 24 hours in a heating cabinet at a temperature of 60± 2°C unless specified otherwise in the relevant conduit specification.

Impact Test
- Twelve samples of conduits, each 200 mm long, shall be subjected to an impact test by means of the apparatus shown in Fig. Before the rest, the samples shall be conditioned at a temperature of 60±2°C for 10 days (240 hours).
- The test apparatus shall be placed on a pad of sponge rubber 40 mm thick, and this together with the sample, shall be placed in a freezer, the temperature within which is maintained at -5±2°C.
- When the samples have attained the temperature of the air within the freezer or after 2 hours, whichever is longer period, each sample shall be in turn placed in position on the steel base shown in Fig, and the hammer is allowed to fall whereby an impact energy E according to Table is applied. The mass of the hammer and the fall height are also specified in Table.

**Forces for Impact Test**

<table>
<thead>
<tr>
<th>Conduit</th>
<th>Impact Energy - Height (E)</th>
<th>Mass of the - Kg.</th>
<th>Fall - mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very light</td>
<td>0.5</td>
<td>0.5</td>
<td>100±1</td>
</tr>
<tr>
<td>Light</td>
<td>1.0</td>
<td>1.0</td>
<td>100±1</td>
</tr>
<tr>
<td>Medium</td>
<td>2.0</td>
<td>2.0</td>
<td>300±1</td>
</tr>
<tr>
<td>Heavy</td>
<td>6.0</td>
<td>2.0</td>
<td>300±1</td>
</tr>
<tr>
<td>Very heavy</td>
<td>20.0</td>
<td>6.8</td>
<td>300±1</td>
</tr>
</tbody>
</table>

Million Meg OHM Meter

For Insulation Resistance Test
- 10 Meg OHM working capacity.
- With suitable electrodes for testing application.

H. V. Test Apparatus for Electrical Strength Test
- 5 KV at 50 mA working capacity.
- With suitable electrodes for testing application.
- With digital stop watch for test duration measurement.
Hydraulic Press for Cone Type End Plugs Clamping

Features
• Clamping Force: 50 Tons, Maximum.
• Ramp Opening: 1.6 Mtrs.
• Base size suitable for 315 mm to 800 mm Dia Pipes.
• Clamping Platen Size: 800 X 800 mm.
• Maximum Stroke: 600 mm.
• Maximum Clamping Speed: 50 to 150 mm/min.
• Hydraulic Power Pack with Panel with 3 HP / 3 Phase Motor.
• Vertical Heavy Duty Structure with Base Mounting.

Creep Resistance Tester

Features
• With static loads up to 3 kg. With the 0.1 kg Graduation.
• With environmental system to control the temperature of chamber: From room temperature to 5 °C (cooling) and room temperature to 100 °C (heating).
• Sample Width: Up to 30 mm.
• Digital display for load and elongation readings.
• Load & Elongation indicator or Control & Display unit.
• Digital/PID based Temperature controller with Autotune facility.
• Heating / cooling “ON” selection toggle switch.
• Weight supporting stand on right side of the machine.
• Weights for different ranges.
• Load cell on left side of the cover.

The Deepak Creep Resistance Tester is designed to determine the mechanical and functional requirements of creep resistant materials, and the data to be supplied by the manufacturer to permit correct installation and operation in the field. The apparatus conforms to IS-13487:1992 standard.

Emitter Flow Rate Variation Tester as per IS:13487 (For Emitters/Drippers)

Features
• ½ H.P. Motor. Make : Crompton Greaves.
• 28 Stations (seven stations / per pipe).
• Digital timer 0 to 99 min. with buzzer system.
• Pneumatic/manual funnel stand movement integrated with timer.
• Pressure Gauge Range: 0 to 4.2 kg /cm² (02 nos.) With 0.02 Kg/cm² least count.
• Water Tank Size: length: 48”, width: 18”, height: 12”.
• Water tank is made by stainless steel 18 gauge sheet.
• Power Requirement: 220/230 V AC, 50 Hz Single Phase.
• Compressed air line (max. 6 kg/cm²) is required.

Moisture Analyzer

Moisture analyzer is designed for fast and precise moisture determination of a sample based on mass loss during heating process.

Drying process parameters are set by users on the basis of law norms , available chemical-physical data or they are matched experimentally.

Moisture analyzer is designed to work in Plastic raw material industry , Food industry , Construction materials industry , Biotechnology , Pharmacy , Environment protection and others. Main field of use is quality control.

Sieve Analysis Tester

Features
• A complete set of Sieve and Shaker.
• Motorized Test Bench Type, Cast Iron Housing Type.
• With built in timer.
• With complete casting base structure.
• Power Requirement: 220/230 V AC, 50 Hz Single Phase
During transportation and storage, friction between products or friction between products and surface often causes irreparable damage. Co-efficient of friction is the ratio of frictional force to gravitational force acting perpendicular to the two surfaces of contact. Measurement of frictional properties are made on a pipe, film or sheeting specimen when sliding over itself or another substance. Deepak External Co-efficient of friction tester employs a Platform covered by the pipe under test, which is allowed to slide across the Platform. The platform is tilted by manually. When it reaches a certain angle of tilt the duct starts sliding down the instant it starts to slide, the degree of tilt is shown on the Digital Angular display. The tangent value of that angle is the co-efficient of friction. Direct digital reading of the co-efficient of friction is also available. This test is valuable to companies dealing in plastic packaging.

\[ \text{e.c.o.f} = \tan \theta \]

\[ \theta = \text{Tilting angle of sample (in degree)} \]

\[ \tan\theta = 0.4243 \]

Abrasion Resistance Tester

- Standard Clause No: 6.2.3.2 Method 2
- Test Method: E 2B Abrasion Resistance of Optical Fibre Cable Markings (Suitable for Microduct / Microduct Bunch - Bundle)

- No. of Cycles: Selectable
- Cycle Speed: 100 Cycles / min ± 5
- Applied Force: 4 N to 6 N Loads
- Equipped with programmable cyclic counter for counting the cycles and for auto stop after programmed cycle
- Motorized travel facility for 100 mm length stroke
- Available specimen clamping jaws: suitable for 3 mm to 50 mm duct
The Fusion Gram is the universal Torque Rheometer for the application of investigations or processing behavior in laboratories and simulations with a torque measuring range of 200 NM and speed range from 2 to 100 RPM. The Fusion Gram is the perfect basic unit for practice-oriented measurements with Mixers, Single Screw Extruders:

- Raw Material and Recipe Development.
- Material Testing.
- Quality Control Parallel to Production.
- Optimization of Production Process.
- Laboratory Scale Production of Samples for Further Investigations.


**Highlights of Deepak Measuring Mixers:**

- For Easy Handling and Cleaning
- Electric Heating
- Precise and Constant Temperature Conditioning up to 300°C
- Flexible Reports

Measuring Extruders


All the measuring values like Torque, Melt Temperature, Melt Pressure are recorded continuously and displayed in the form of table and graph during the test and after the completion of the test. Additionally, Rheometric capillary die head for continuous viscosity measurement. The Output also provides all data for the Rheological calculations.

The measuring principle is based on making visible the resistance created by the sample material against the Rotors and corresponding torque measured and graph is plotted and recorded (Torque and temperature v/s time) for each sample material. The graph describes the relationship between Torque (viscosity) and temperature/time with reference to structural changes of the material.
**Test Equipment for Apparent Initial Circumferential Tensile Strength Test Application**

“Deepak” has great pleasure in introducing to you the DPLP-Split-1000 Machine along with computer interfacing facilities. The same is capable of testing pipes of DN 250 to DN 3000 in accordance with requirements of ISO 8521 method B. ASTM D 2290, BS EN 1394. In addition to meeting requirements of above standards, it also reports groove depth (specimen width), test speeds (time to failure), stroke, the DPLP-Split-1000 includes following additional features:

- **Precise LCD display panel unit**
  - An ultra-precision measurement system based LCD display for force readings. This is to enable testing pipe sections ranging from DN 250 to DN 3000. The display unit performance is based on ultra-precision low profile load cells enable to fulfill the requirements of relevant testing standards. This is especially important for enabling testing pipe sections ranging from DN 250 to DN 3000.

- **RS-232 connectivity with PC Interfacing**
  - The DPLP-Split-1000 is equipped with a RS-232 interfacing software system, which offers PC monitoring, Control and Measurement System. The same is based on user-friendly LCD display panel unit for the recorded data.

- **Variable Speed Control - Conformance to Test Standards Requirements**
  - The DPLP-Split-1000 is equipped with two hydraulic cylinders and speed control with digital flow control valve, allowing conformance to requirements of ISO 8521, ASTM D 2290 and BS 5480 for pipe sized DN 250 to DN 3000.

Other Accessories - for safety and user-friendliness:

- **Power Assisted Safety covers**
- **Standard tool kit**
- **Master software CD**
- **Interfacing Connectivity Cable**

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**DRS 50 Ring Stiffness Tester**

**DEEPAK** is pleased to offer the DRS-50, the stiffness tester with ring lifting system for addressing safety hazards in handling large pipe diameter stiffness specimens. For pipes up to 2600 mm, stiffness specimen weight exceeds 100 Kg necessitating more than one operator for handling specimen during loading and testing. Suitable for stiffness of 3 mtr. dia pipes.

- **Precise LCD display panel unit**
  - DRS-50 is having an ultra-precision measurement system based LCD display for force readings. This is to enable testing pipe sections as per ISO 5893, and Class 0.5 of EN 10002-2 and BS 7572/5 for pipe diameter ranging from 6.5 Tons down to 15 Kg.

- **RS-232 connectivity with PC Interfacing**
  - The DRS-50 is equipped with a RS-232 interfacing software system, which offers PC monitoring, Control and Measurement System. The same is based on user-friendly Windows XP/7/8/1 based software system. This software system allows standalone machine operation and test result display in the event of computer system failure or PC-Machine communication failure. And statistical data analysis also can be done for all the recorded test data.

**Other Accessories (For safety and user-friendliness)**

The DRS-50 is supplied with a number of accessories as below:

- **Power Assisted Safety covers**
- **Standard tool kit**
- **Master software CD**
- **Interfacing connectivity cable RS 232/USB Port**

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**UTM DTRX-250 KN**

**DEEPAK** is pleased to offer the UTM DTRX-250 KN, the tensile tester with addressing safety features for high thickness & high load operated samples.

- **Sizes are:**
  - 300, 350, 400, 450, 500, 600, 700, 800, 900, 1000, 1200, 1300, 1400, 1600, 1700, 1800, 1900, 2000, 2100, 2200, 2300, 2400, 2500 & 2600.

- **All functions like lifting the upper plate, movement of six clamping jaws, ejection of specimen rings are driven by hydraulic cylinders.**

- **Variable Speed Control - Conformance to Test Standards Requirements**
  - The UTM-DTRX-250 KN is having an ultra precision measurement system based LCD display for force & elongation readings. This is to enable testing specimens as per ASTM D 638, BS 2782 and ASTM D 3039, and Class 0.5 of EN 10002-2 and ISO 7500/1. Force accuracy of 0.5% is achieved between full-scale of the machine down to 1% of full-scale (range required by standards: from full-scale to 20% of full-scale). The 1% accuracy requirement of ASTM E 4 will extend from full-scale to 0.2% of full-scale: for the DRS-50 this corresponds to a range from 6.5 Tons down to 15 Kg.

- **RS-232 connectivity with PC Interfacing**
  - This is to enable testing specimens as per ASTM D 638, BS 2782 and ASTM D 3039, and Class 0.5 of EN 10002-2 and ISO 7500/1. Force accuracy of 0.5% is achieved between full-scale of the machine down to 1% of full-scale (range required by standards: from full-scale to 20% of full-scale). The 1% accuracy requirement of ASTM E 4 will extend from full-scale to 0.2% of full-scale: for the DRS-50 this corresponds to a range from 6.5 Tons down to 15 Kg.

- **Precise LCD display panel unit**
  - The UTM-DTRX-250 KN is having an ultra precision measurement system based LCD display for force & elongation readings. This is to enable testing specimens as per ASTM D 638, BS 2782 and ASTM D 3039, and Class 0.5 of EN 10002-2 and ISO 7500/1. Force accuracy of 0.5% is achieved between full-scale of the machine down to 1% of full-scale (range required by standards: from full-scale to 20% of full-scale). The 1% accuracy requirement of ASTM E 4 will extend from full-scale to 0.2% of full-scale: for the DRS-50 this corresponds to a range from 6.5 Tons down to 15 Kg.

- **UTM DTRX-250 KN**
  - The UTM-DTRX-250 KN is equipped with a WS-5893, and Class 0.5 of EN 10002-2 and BS 7572/5 for pipe diameter ranging from 6.5 Tons down to 15 Kg.

- **Other Accessories (For safety and user-friendliness)**
  - **Power Assisted Safety covers**
  - **Standard tool kit**
  - **Master software CD**
  - **Interfacing connectivity cable RS 232/USB Port**

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**Deepak Poly Plast Pvt. Ltd.**

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Deepak Poly Plast Pvt. Ltd.
quality certification
solutions for quality control and evaluations