

AN ISO-9001:2015 CERTIFIED COMPANY



**UNIQUE**

Technolab • LLP

Committed to Quality



Manufacturers & Exporters of  
**Lab Equipment's as per  
IS / ASTM Standards**

[www.uniquetechnolab.com](http://www.uniquetechnolab.com)



# Aboutus



## Manufacturers & Exporters of Lab Equipments as per IS / ASTM Standards

Unique Techno Lab LLP, earlier known as “Unique Enterprises”, is incorporated in 2019 with an intention to provide complete tailor made services related to BIS Certification under various Standards along with a high-tech lab equipments / apparatus having high accuracy and near to zero failure rate. At present we are looking forward to provide our services to Plastics Industries, Wooden Industries, Steel Industries, Cement Industries etc.

Unique Techno Lab LLP is having its H.O. as well as their Works at Ahmedabad, which is known as the Central Hub for Plastic Machineries & Ancillaries for all India. With a competent Technical team of Engineers / Technicians having methodical knowledge & understanding of BIS as well as other International Standards, we have trained and experienced Production / Installation / Servicing team available at the service of our valued Customers.

Our Design & Development team constantly works towards providing value additions in the machines to develop and offer best available testing solutions which are at par with international machines. We always strive to give our customers the best of us which gives them utmost satisfaction and peace of mind.

We have our state of the art Production Center in the heart of Ahmedabad with in-house facility for machining, erection and assembly of various Testing Equipments, Apparatus and Accessories. Our Production team is regularly updated on requirements of testing as per the standards for production of accurate machine / apparatus. Our Installation / Servicing team have complete knowledge of the machines and their relevant testing procedures, which helps our customers in having hassel free operations of machines and testing.

We all at Unique Techno Lab LLP are committed to provide complete satisfaction to our customers with our Quality, Services and Commitment. Our motto is : Clarity : Competence : Commitment

## INDUSTRIES SERVED BY US

- PIPE INDUSTRY - HDPE, MDPE, LLDPE, U-PVC, C-PVC, R-PVC, O-PVC, CASING, SWR, LATERAL, IN-LINE, CONDUITS as per Indian as well as International Standards.
- ROTO MOULDING - WATERTANKS
- FILMS
- RUBBER
- PLYWOOD
- FIRE RETARDANT PLYWOOD
- CEMENT
- CABLE
- WOVEN SACKS
- BLOW MOULDING
- SANITARY PADS

## OUR REACH NATIONAL / INTERNATIONAL

## UNIVERSAL TENSILE TESTERS

USP : Model machine for checking core qualities like Tensile Strength / Elongation / Compression / Break Load / Modulus of Elasticity / Stiffness / Flattening on Plastics, Rubber, Steel, Wooden and Cement.

Tensile Testing Machines with various accessories / attachments like

- Compression
- Flexural
- COF/ICOF
- Peel/Bond/Tear/Shear/Puncture/Burst

OR as per requirements of relevant standards

**Range** : 0-500 Kgs to 0-50000 Kgs various models or as per your testing requirements,

**Load Resolution** : 0-500 gms to 1.0 Kg.

**Speed of Testing** : 5mm per minute to 500mm per minute or as per requirement of relevant standard.

**Extension** : As per requirement of relevant standard. Extension measurements through Rotary encoder via Proximity Sensor / HMI.

**Power supply** : 230V AC 50 Hz, Single phase or 440V AC Three Phase as per the model.

**Paint** : Powdercoating.



## HYDROSTATIC PRESSURE TESTING MACHINES

USP : Ideal for checking the internal Hydro Pressure Resistance in PVC / HDPE / MDPE / LLDPE pipes and fittings in multiple test environments.

**Models** : Single Station with one outlet to 8 stations with sixteen outlets.

**Range** : 0 To 99.99 Kg/Cm<sup>2</sup> for Normal Pressure Testing 0 To 250.0 Kg/Cm<sup>2</sup> for Burst Pressure Testing

**Pressure Generation System** : Airless with Pressure Booster OR through Air Compressor and high pressure Hydro pneumatic pump.

**Pressure Controller** : Proprietary Controller with Pressure Range from 0.00 to 99.99 Kg/cm<sup>2</sup> and Timer range from 999.9 to 9999 hours.

**Pressure Fine Tuning** : With high precision needle valves.

**Power supply** : 230V AC 50 Hz, Single phase or 440V AC Three Phase as per the model.



## HOT WATER BATHS & COLD WATER BATHS

- USP** : Essential for Hydrostatic Pressure Test under different test conditions from 20°C to 90°C.
- Size** : From 48" x 24" x 18" upto 72" x 48" x 48" or as per requirement.
- Temperature Controller** : Digital PID Controller with range up to 0-100°C.
- Water Circulation** : Through reputed make water pump.
- Heater** : SS Water heater with high capacity for faster heating
- Cooling** : Highly efficient reputed make compressor for fast cooling
- Insulation** : 1) Glasswool Insulation for Hot Water Baths  
2) PUF insulation for Cold Water Baths
- MOC** : Inner : Stainless Steel  
Outer : Mild Steel
- Power Supply** : 230V AC Single Phase or 440V AC Three Phase as per the bath specifications.



## HOT AIR OVEN

Hot Air Oven from Inner Sizes of 12" x 12" x 12" to 36" x 36" x 36"

- Temperature Controller** : Digital PID controller with range up to 250°C with controlling accuracy of  $\pm 0.5^\circ\text{C}$
- Air Circulation** : Circulating Fan ideally placed at bottom for safety and efficient cooling
- Tray** : 1 Nos. (Or as per Size of Oven)
- Heating Load** : 1.5 KW (or as per Temperature required for testing)
- Material of construction** : Inner Stainless Steel body & Outer Mild Steel Body with 50 mm Glasswool Insulation
- Paint** : Powder coated
- Power Supply** : 230 V AC / 50Hz



## DEEP FREEZER

Deep Freezer from Inner Sizes of 18" x 18" x 18" / 24" x 24" x 24"

- Temperature Range** :  $-15^\circ\text{C}$  to Ambient
- Controller** : Microprocessor based PID Controller
- Model** : Vertical / Horizontal
- Cooling** : Through reputed make Compressor
- Material of construction** : Inner Stainless Steel body & Outer Mild Steel Body with PUF insulation
- Paint** : Powder Coating
- Power Supply** : 230V AC, Single Phase 50Hz



## HUMIDITY CHAMBER

Humidity Chamber from Inner Sizes of 18"x18"x18" / 24"x24"x24"

<b>Temperature Range</b>	: 15°C to 55°C
<b>Accuracy</b>	: ± 1% FSD
<b>RH % range</b>	: 5% to 95%
<b>Controller</b>	: PID with RH Indicator
<b>Inner chamber</b>	: Stainless Steel
<b>Material of Construction</b>	: Inner Stainless Steel Outer Mild Steel with powder coating
<b>Tray</b>	: One
<b>Door</b>	: Outer Solid Door with Magnetic Lining and Latch type handle Inside Glass door for Easy Visibility
<b>Power</b>	: 230 V AC / 50 Hz
<b>Paint</b>	: Powder Coating



## CARBON BLACK CONTENT TESTER

<b>USP</b>	: To determine the carbon black content in given pipe sample
<b>Instrument</b>	: Microprocessor based PID Controller with range up to 1000 °C and Accuracy of ±1°C
<b>Heating Load</b>	: 2 kw
<b>Accessories</b>	: Related Glassware and Chemicals
<b>Paint</b>	: Powder Coating
<b>Power Supply</b>	: 230 V AC/ 50 HZ
<b>Scope of Supply</b>	: Machines with above Specification excluding Nitrogen Gas Cylinder



## CARBON BLACK DISPERSION TESTER

USP : To determine uniformity carbon black dispersion in given pipe sample

	<b>CBD-1</b>	<b>CBD-2</b>
Magnification	100X, 450X Lens	100X, 450X Lens
Light source	Halogen lamp 6-12 Volt	Halogen lamp 6-12 Volt
Screen	6"	6"
Photography	N.A.	Digital Camera with 10X eye piece & photomicrography adapter
Image Analysis	N.A.	Imported software provided for graphical analysis of image.
Hot plate	Thermostatically operated	Hot plate with 8"Ø and voltage control switch. Projection microscope with 6"Ø screen. With variable halogen lamp light source, rack & pinion and mechanical movement arrangement.
Power Supply	230V AC, 50Hz, Single Phase	



## MUFFLE FURNACE

**USP :** To determine percentage content of additives mixed in given sample.

- Chamber Size** : 4" X 4" X 9" /6"x6"x12"
- Temperature Controller** : Digital PID Controller with Resolution of 1°C & Accuracy of 1°C
- Temperature Range** : Ambient to 1000°C and above
- Heating Load** : 2 KW
- Material of Construction** : Mild Steel with Powder Coating
- Accessories** : Related Glassware and chemicals
- Power Supply** : 230V AC, 50Hz, Single Phase



## MELT FLOW INDEX TESTER

**USP :** To determine ease of flow of the melt of a thermoplastic polymer.

- Temperature Range** : 0-350°C.
- Controller** : Micro controller for temperature and time with buzzer output
- Timer** : 0-999.9 sec
- Resolution** : 000.0 sec
- Sample Cutting** : Manual
- Weights** : 2.16 Kg. & 5 Kg. (other load as per the given requirement of given standard)
- Method of Test** : A
- Accessories** : Piston, Orifice, Material Charger, Die Ejector, Orifice Cleaner & Knife
- Paint** : MS body with powder coating & Hard chrome
- Power Supply** : 230V AC, 50Hz, Single Phase



## VICAT SOFTENING POINT TESTER / HEAT DEFLECTION TESTER

**USP** : To find out VICAT Softening Point and Heat Deflection under given Load of the sample.

- Model** : Computerized
- Temperature Range** : Ambient to 250°C
- Temperature Rate of rise** : As per standard (50°C/hr or 120°C/hr)
- Displacement measuring** : Electronically through displacement sensor
- Computer Interface** : Through RS232 to USB Port Converter
- Station** : 1 station to 6 Stations
- Bath Capacity** : Min 9 Liters to Max 20 Liters.
- Cooling** : Through Water Circulation
- MOC** : Inner SS & Outer MS with powder coated
- Power Supply** : 230 VAC, 50 Hz, Single Phase





## TWO ROLL MILL

Deep Freezer from Inner Sizes of 18"x18"x18" / 24"x24"x24"

- Temperature Range** : -15°C to Ambient
- Controller** : Microprocessor based PID Controller
- Model** : Vertical / Horizontal
- Cooling** : Through reputed make Compressor
- Material of construction** : Inner Stainless Steel body & Outer Mild Steel Body with PUF insulation
- Paint** : Powder Coating
- Power Supply** : 230V AC, Single Phase 50Hz



## COMPRESSION MOULDING PRESS

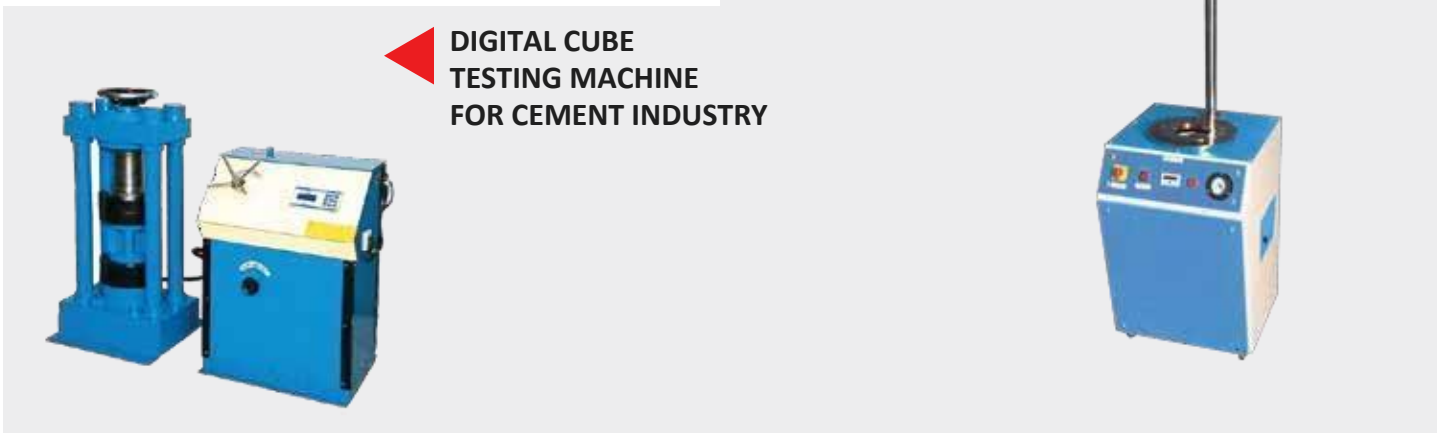
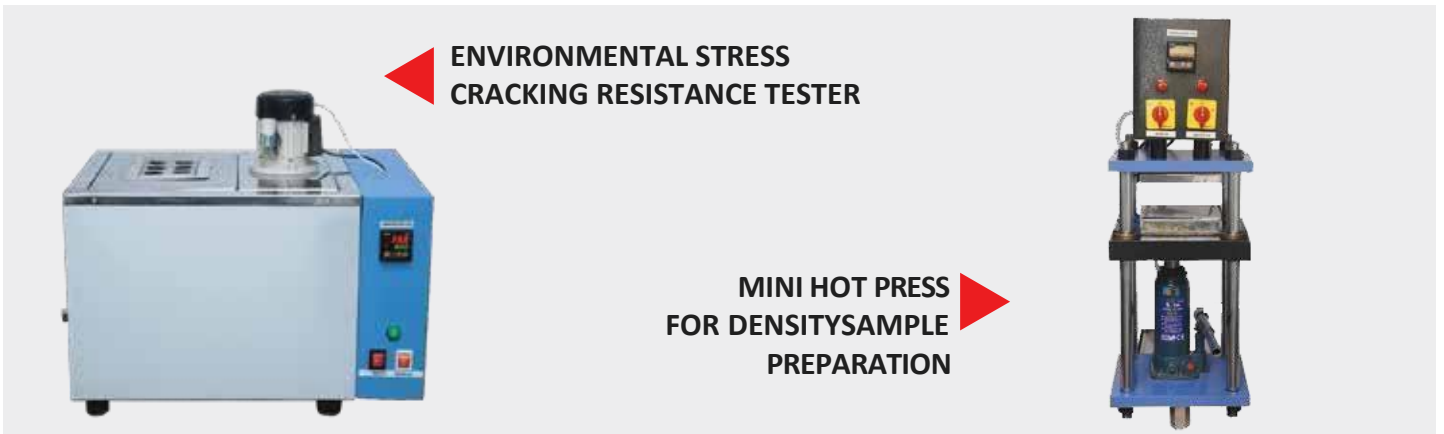
- Capacity** : 0-35 Tons (or as per requirement)
- Platen size** : 350mm X 350mm
- Mould Size** : 300mm X 300mm X 6mm
- Stroke** : Day Light opening 200mm
- Temperature Controller** : Dedicated microprocessor based Temperature Controller for both platens.
- Temperature Range** : Maximum working range Ambient to 280.0°C and cooling timer range 999 minutes.
- Cooling** : Through running water cooling system in both platens
- Connecting Power Supply** : 5 kw, 440V, 50 Hz, 3 Phase neutral and earth.
- Paint** : Powder Coated
- Press Operation** : Through Hydraulic Power Pack system having Pressure regulating System with mechanical needle gauge range up to 250kg/cm<sup>2</sup>  
Study and heavy angle structure to avoid vibration.  
Safety covers to avoid burn injury.  
Specimen thickness tolerance 0.05mm to 0.1mm.  
Floor Model



## OXYGEN INDUCTION TEST (DTA)

- Temperature range** : 0 to 400°C
- Heating rate** : Selectable
- Cooling rate** : To ambient within 15 to 20 min.
- Gas switching** : Automatic
- Cell** : PUF insulated made up of copper
- Crucible Size** : 6mm X 2mm (aluminum & copper)
- Interface** : RS 232
- Software** : Versatile for OIT and D.S.C.
- Body** : Top S.S plate and outer body M. Swith powder coating
- Power Supply** : 230V AC, 50Hz. (spike free)





**Disclaimer :** Picture depicted are indicative and only for Reference purpose. Actual machine / apparatus may vary.

**OUR OTHER  
SERVICES...**

01

**BIS  
CONSULTANCY**

02

**NABL  
CALIBRATION**

03

**ISO  
CERTIFICATION  
& CE MARKING**

04

**TRADE  
MARK**



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