

AN ISO-9001:2015 CERTIFIED COMPANY



UNIQUE

Technolab • LLP

Committed to Quality



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

www.uniquetechnolab.com



Aboutus



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 –WATER TANKS
- FILMS
- RUBBER
- PLYWOOD
- FIRE RETARDANT PLYWOOD
- CEMENT
- CABLE
- WOVEN SACKS
- BLOW MOULDING
- SANITARY PADS

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 moto is : Clarity : Competence : Commitment

▶ 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 : Powder coating.



▶ 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/Cm² for Normal Pressure Testing
0 To 250.0 Kg/Cm² 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/cm² 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"x24"x18" upto 72"x48"x48" 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"x12"x12" to 36"x36"x36"

- 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"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



HUMIDITY CHAMBER

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

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



CARBON BLACK CONTENT TESTER

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



CARBON BLACK DISPERSION TESTER

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

	CBD-1	CBD-2
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

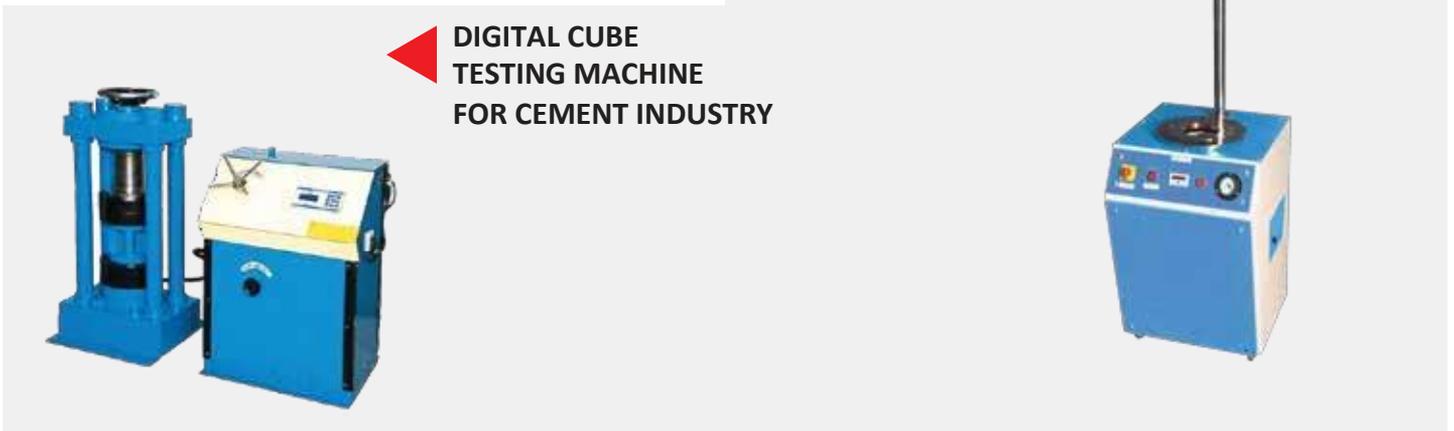
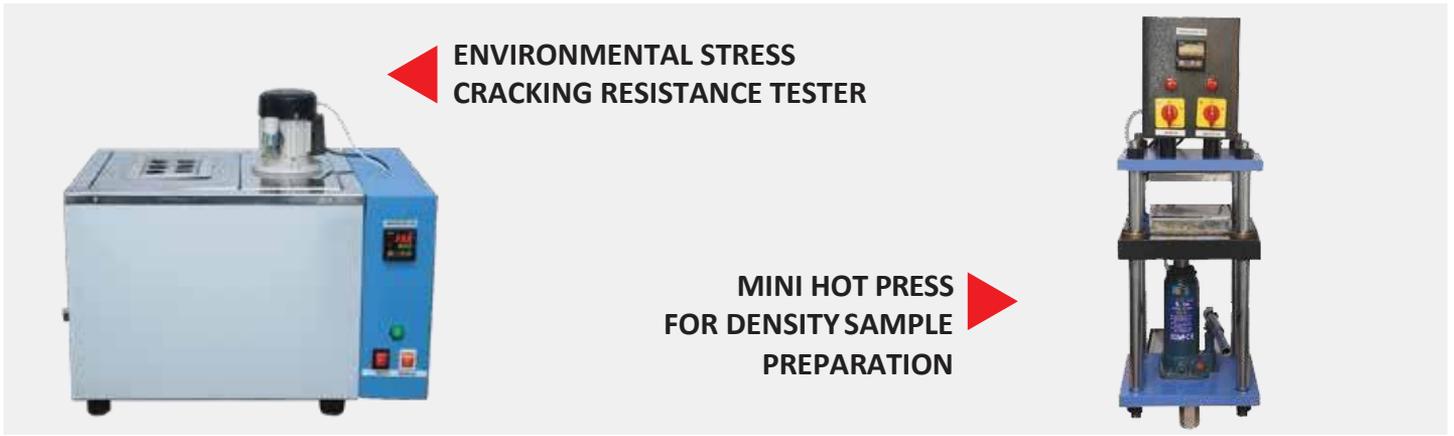
Capacity	: 0-35 Tons (or as per requirement)
Platen size	: 350mm X 350mm
Mould Size	: 300mm X 300mm X 6mm
Stroke	: Day Light opening 200mm
Temperature Controller	: Dedicated microprocessor based Temperature Controller for both platens.
Temperature Range	: Maximum working range Ambient to 280.0°C and 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 ² Sturdy 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.S with 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



H.O. :

A-307, Siddhi Vinayak Towers Nr. Kataria Automobiles,
S.G. Highway, Makarba, Ahmedabad – 380051. Gujarat, INDIA.

Mobile : +91 90223 86546 | +91 78870 14387

Email : sales@uniquetechnolab.com

info@uniquetechnolab.com

Web : www.uniquetechnolab.com

Works :

124, Shree Haridarshan Estate,
Vatva GIDC, Phase-4,
Ahmedabad – 382445
Gujarat, INDIA.

Mobile : +91 90223 86546