



TECH INC
INTERNATIONAL CORPORATION

LAB TENSILE STRENGTH TESTING MACHINE

**TECHNICAL
DATASHEET**



TECH INC
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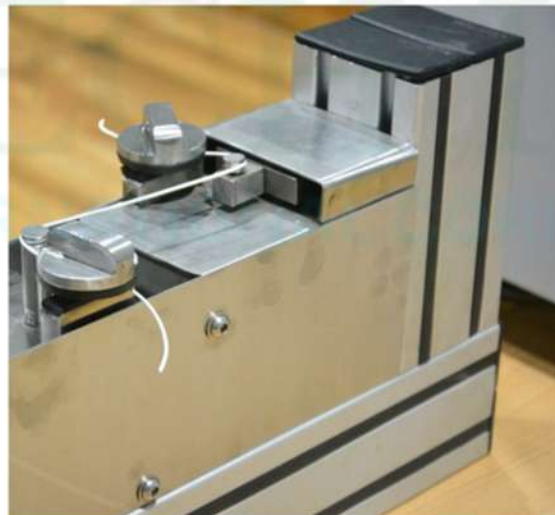
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INTRODUCTION:

The Tensile Strength Measuring Instrument is a precision testing device designed to evaluate the mechanical strength and deformation characteristics of materials under tensile loading. It accurately measures the tensile strength, elongation, and yield point of a wide range of materials including metals, polymers, composites, textiles, and rubber products. The instrument is equipped with advanced load cells, high-resolution displacement sensors, and user-friendly controls, ensuring reliable and repeatable test results.

This instrument is widely used in research and development, quality control, and production environments to ensure materials meet required standards and specifications. Its robust design, coupled with automated data acquisition and analysis capabilities, allows for efficient testing with minimal operator intervention, making it an essential tool for material testing laboratories and industrial applications.



Picture Shown is only for representation purpose. Actual product may vary in size, appearance, etc.

TECHNICAL SPECIFICATION

S.No	Item Description	
1	Load Indicator	: 0 – 3 Kg
2	Application	: Checking Tensile strength of Hollow fiber and Flat sheet membranes
3	Tensioning Arrangement with Elongation Measurement	: Provided
4	MOC of the Test Stand	: Aluminium Extrusion
5	MOC of sample holding arrangement	: SS304
6	Rollers for holding the sample	: Provided
7	Pulling load (grams)	: Load Cell
8	Stretch (mm)	: Rotary Encoder

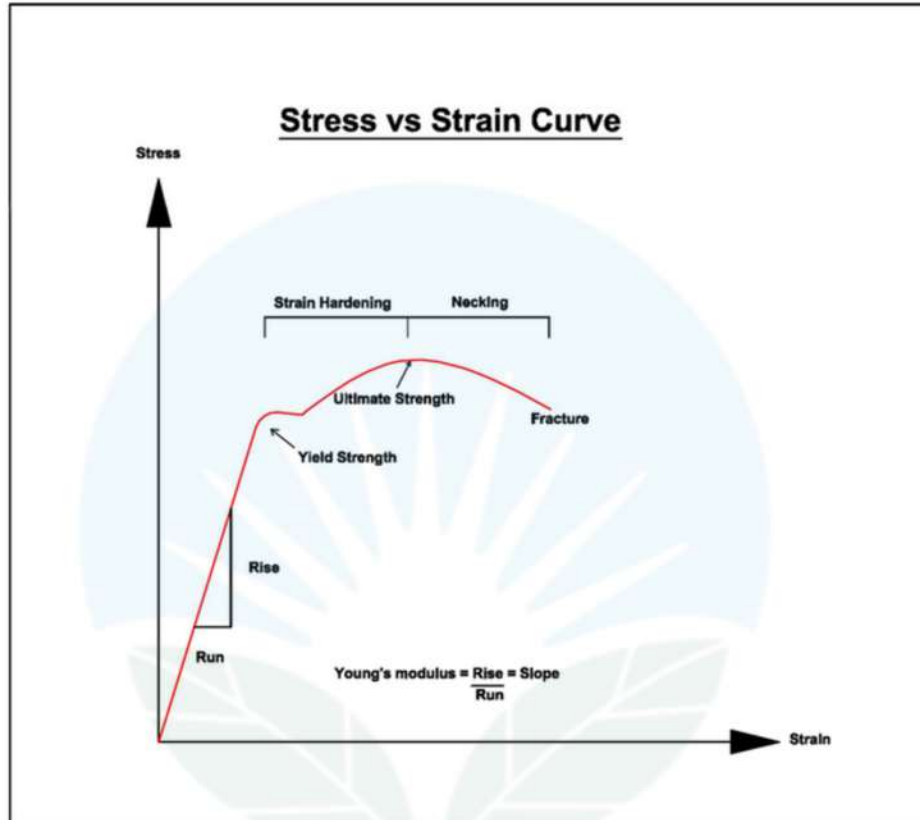
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TECHNICAL SPECIFICATION

S.No	Item Description	
9	DAQ Software	: Provided
10	Scanner for DAQ	: Provided
11	Scanner Make	: Masibus/ eqvt
12	Control Panel	: Provided
13	Option to convert the readings to Excel sheet	: Provided
14	Connection Cable (R485 to USB) from panel to PC	: Provided
15	Desktop/ PC requirement (Customer scope)	: Windows 7 and up, 64 Bit

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STRESS VS STRAIN CURVE



TECH INC
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Factory Photos



CANADA



INDIA

Warehouse Photos



Factory FootPrint

>65,000 Sq.ft



Well-stocked & Agile

Year Long Production



Automated Processes

AI Predictive stocking



7 Day Dispatch

on Standard products

Company vision & Values



Constant innovation
to lead the market



Honesty &
Transparency



Constant customer
empowerment &
contact



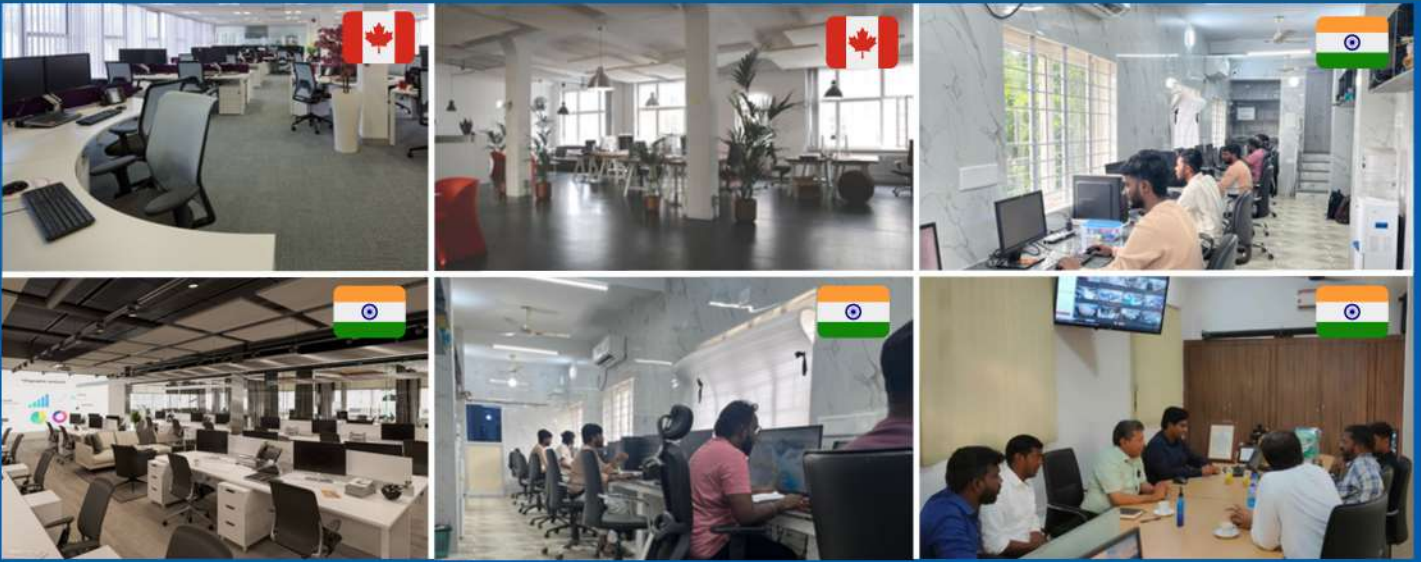
Made to meet
Global Standards



Cost Saving Products
Value for Money

Being part of a 30 year old group with vast experience in the field of manufacturing, filtration and separation, Tech Inc. stands on rock solid foundation of technical strength. We design and develop equipment suitable for making, testing and characterization of emerging technologies

Office Photos



Lab Photos



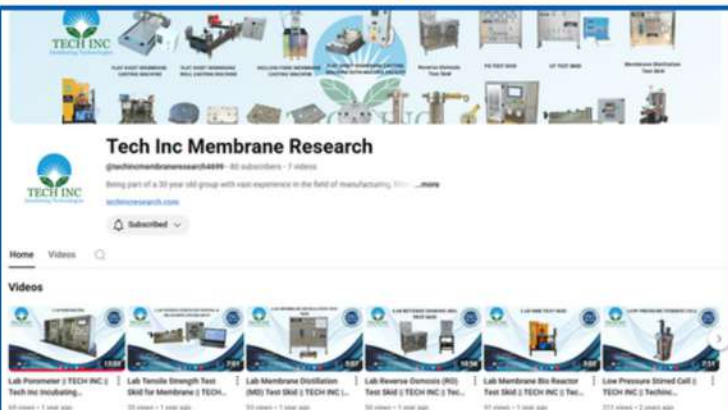
Shipment



Freight Forwarder Partnerships



Payments Accepted



Tech Inc.'s Scope of Work & Services



Design



Supply



Installation



Training



Service



Maintenance

Electronics

Human Machine Interface



Programmable Logic Controller



Supervisory Control and Data Acquisition

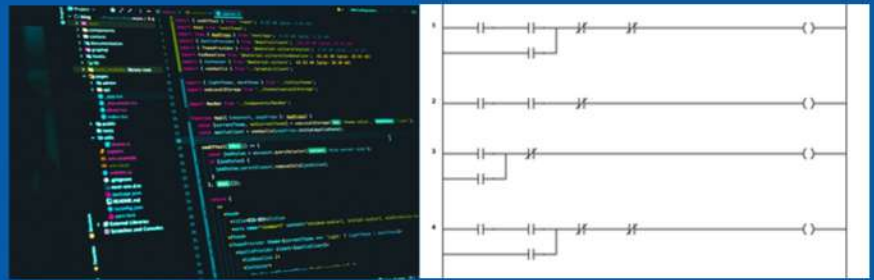


Distributed Control System



Software

Ladder Programming



Labview

Visual Basic

C++

React



Components used



LIQUID MASS FLOW CONTROLLER FROM BRONKHORST, NETHERLANDS



LIQUID MASS FLOW METER FROM BRONKHORST, NETHERLANDS



GAS MASS FLOW CONTROLLER FROM BRONKHORST, NETHERLANDS



PLCs FROM SCHNEIDER, GERMANY



PANEL/CABINET FROM RITTAL SWITZERLAND



WET GAS FLOW METER FROM BITTER, GERMANY



THERMOCOUPLE FROM WATLOW, USA



SWAGELOK FITTINGS



REPUTED INDUSTRIAL LAPTOP



PRESSURE GAUGE FROM WIKA, GERMANY

Methodology



SWAGELOK REGULATORS



SWAGELOK CHECK VALVES



SWAGELOK PRESSURE RELIEF VALVES



TEMPERATURE CONTROLLERS FROM WATLOW, USA



SS TUBING FROM SWAGELOK