



FEDERAL INDIA TRADING COMPANY

SINCE 1950

AUTHORIZED DISTRIBUTOR • INSTALLATION • SERVICE • CALIBRATION

High-Performance Material Testing Equipments From UK, USA & Germany

Equipping Indian R&D, QC & Education sectors with the world's finest material testing instruments from UK, USA & Germany.



FEATURED
Testometric UTM
Made in UK

KEY SOLUTIONS

SEE FULL RANGE INSIDE



Industrial Physics, UK
Permeation Analysis
WVTR and OTR Testing



Dynisco, USA
Polymer Testing
Melt Flow Index and Rheology



World-Class Partners Prestigious Clientele

OUR PRINCIPAL BRANDS

Exclusive Distribution

 Testometric materials testing machines	 Dynisco	 SYSTECH	 INDUSTRIAL PHYSICS
 Kopp	 WABASH	 CARVER	 Ray'Ran

TRUSTED BY

 Reliance Industries Limited	 कुम्हो इंडिया	 UFLUX	 TATA	 ओएनजीसी ONGC
 FOXCONN	 Coca-Cola	 Nestle	 इंडियनओयल IndianOil	 Enduring Value
 DUPONT	 SKAFS	 tfi TECHFAB INDIA	 BTTG	 Shankar Packagings Limited
 Meril	 GARWARE TECHNICAL FIBRES	 Constantia Flexibles	 CHEMCO	 ADITYA BIRLA GRASIM

- ASTM, ISO, BS, DIN, JIS, CFR 21 Part 11 & All International Standards Compliant
- Factory Trained Engineering Team ● Complete Calibration & Validation Services

KEY SOLUTIONS

Automotive	Aerospace	Packaging	Plastics
Chemicals	Research	Textiles	Defense





Permeation Testing

Oxygen & Water Vapor Transmission Rate Testers

Made in UK

IDEAL FOR : Food Packaging • Pharma • Medical Devices • Flexible Packaging • Beverage Bottles

SHELF LIFE TESTING

Oxygen Transmission Rate Tester



Oxygen Permeation Analyser for precision analysis of packaging film barriers. Horizontally oriented chambers enable easy loading of samples.

APPLICATIONS :

- Barrier Film, PET Bottles, Containers
- Closures, Bags, Flexible Pouches
- No liquid coolants, catalysts or special gas mixtures not required.
- Flow, temperature and humidity control for ultimate responsiveness and repeatability
- System validation with certified gas or film calibration
- Fully automatic

Measurement Range

Films: 0.05 - 432,000 c /m²/day
 Package: 0.00025 - 2000 cc/pkg/day

ASTM D3985, ASTM F1927, ASTM F1307 ISO CD 15105-2

Water Vapour Transmission Rate Tester



Water Vapour Permeation Analyser for precision analysis of packaging film barriers. Horizontally oriented chambers enable easy loading of samples.

APPLICATIONS :

- Barrier Film, PET Bottles, Containers
- Closures, Bags, Flexible Pouches
- No liquid coolants, catalysts or special gas mixtures not required.
- Flow, temperature and humidity control for ultimate responsiveness and repeatability
- System validation with certified gas or film calibration
- Wide humidity range

Measurement Range

Films : 0.002-1000 g/m²/day
 Package : 0.00001 - 0.05 g/pack/day

ASTM F1249, ASTM F3299-18, ISO 15106-3

8700/87001 OxySense® Bottle O₂ Analyzer



Ultimate solution for fast and reliable oxygen permeability testing of bottles and packages. Non - destructive measurement technology.

APPLICATIONS :

- PET Bottles, Glass Bottles
- Containers, Packages, Closures
- Non - destructive O₂ measurement
- Oxygen Permeation Analyser measures 11 samples simultaneously - individually started, stopped or delayed.

Key Features

OTR Range: 0.0004 - 2000 cc/pkg/day
 Resolution: 0.0001 cc/pkg/day
 Temperature: Ambient
 Expansion: Up to 11 modules

ASTM D3958, ASTM F1307, ASTM F2622, ISO 15105-2, DIN 53380, JIS K7126

Intuitive Software
Fast results

No Coolants
Easy maintain

Validated
Certified

Horizontal
Easy load

5 Modules
Expandable

Made in UK
Premium

TRUSTED LEADING BRANDS

Packaging • Pharma • Food & Beverage



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PRECISION • EXCELLENCE • INNOVATION





Universal Testing Machine

Advanced materials testing for quality assurance

Made in UK

Complete Model Specifications

800% Overload Protection

Class 0.5 Accuracy

Model	Capacity	Travel	V.Space	Dist	Speed	Resolution	Overload	Stiffness
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BENCHTOP (1-30KN)

X250-1	1 kN	630	800	108	0.00001 to 2500	0.000001	800%	8
X250-2.5	2.5 kN	990	1160	108	0.00001 to 2500	0.000001	800%	8
X250-3	3 kN	990	1160	108	0.00001 to 2500	0.000001	800%	8
X350-5	5 kN	1100	1275	320	0.00001 to 2000	0.000001	800%	60
X350-10	10 kN	1100	1275	320	0.00001 to 2000	0.000001	800%	60
X350-20	20 kN	1100	1275	320	0.00001 to 1000	0.000001	800%	60
X500-25	25 kN	1025	1225	420	0.00001 to 1000	0.000001	800%	120
X500-30	30 kN	1025	1225	420	0.00001 to 1000	0.000001	800%	120

FLOOR STANDING (50-1000KN)

X500-50	50 kN	950	1150	420	0.00001 to 1000	0.000001	800%	220
X500-100	100 kN	1075	1300	420	0.00001 to 500	0.000001	800%	400
XFS-100	100 kN	1150	1400	480	0.00001 to 600	0.00001	800%	500
XFS-150	150 kN	1150	1400	480	0.00001 to 600	0.00001	800%	500
XFS-300	300 kN	1300	1600	620	0.00001 to 600	0.00001	800%	900
XFS-500	500 kN	1000	1600	620	0.00001 to 600	0.00001	800%	1000
XFS-600	600 kN	1000	1600	620	0.00001 to 600	0.00001	800%	1000
XFS-1000	1000 kN	1000	1600	670	0.00001 to 600	0.00001	800%	1300

OVERLOAD PROTECTION

Protection Level 800% of Capacity

Auto Stop Yes - Software & Hardware

Emergency Stop Front Panel Button

MEASUREMENT ACCURACY

Load Cell $\pm 0.5\%$ Class 0.5

Extension 0.000001 mm

Load Cells 0.2 - 10000 kN

SOFTWARE & STANDARDS

Software WinTest Analysis

Extensometer Video & Contact

Standards ASTM, ISO DIN, BS



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PRECISION • EXCELLENCE • INNOVATION

Universal Testing Machine

Complete Range • 700+ Accessories • Full Testing Ecosystem
 Made in UK



1-1000kN Capacity Range	Class 0.5 Accuracy	50+ Years UK Manufacturing	700+ Grips & Fixtures
BENCHTOP X100/X250 Films, Plastics, Rubber 1kN 2.5kN 5kN 10kN 25kN 50kN	FLOOR MODELS X350/X500 Composites, Metals 50kN 100kN 200kN 250kN 300kN	XFS HEAVY DUTY Industrial, Special 100kN 150kN 300kN 500kN 600kN 1000kN	
WinTest Software Real-time analysis	ASTM/ISO/DIN All Standards	800% Loadcell Overload ProtectionBuilt-In	



GRIPS & FIXTURES SELECTION

Wedge	Pneumatic	Hydraulic
Marks & Spencer	Roller	Film
Cord	Yarn	Tensile
Compression	Peel	Shear
Flexural	3 Point Bend	Tear
CBR Puncture	Creep	Custom

ADVANCED MEASUREMENTS

Video Extensometer	Axial & Transverse Strain
Poisson's Ratio	Auto Calculation
R&D Values	n-values, r-values
Multi-Station	Up to 6 Simultaneous
Data Acquisition	1000 Hz Sampling

STANDARDS & INDUSTRIES

ISO 7500-1 • CE Marked • UKAS

ASTM	ISO	DIN	BS	JIS	TAPPI	Automotive	Aerospace	Packaging	Pharmaceutic	Medical Devices	Construction
Plastics	Rubber	Composites	Textiles	Electronics	Defense	Railway	Marine	Energy	Oil & Gas	Petrochemical	Chemical
Food & Beverage	Agriculture	Mining	Paper & Pulp	Wood	Leather	Footwear	Sports Equipment	Furniture	Appliances	HVAC	Plumbing
Roofing	Geotextiles	Road Materials	Concrete	Steel	Aluminum	Coatings	Adhesives	Sealants	Academia	R&D Labs	Marks & Spencer



Melt Flow Index & Rheology Testing

Polymer Processing & Quality Control
Made in USA



CAPILLARY RHEOMETER
LCR 7000 Series

24/7 shop floor operation. Tungsten carbide dies, hardened tool steel barrel.

Standards	DIN ISO 11433, DIN 53014, DIN 54811, ASTM D3835
Temperature Range	Up to 430°C (Standard)
Piston Speed	0.03 to 600 mm/min
Testing Force	10 kN standard (0.2 N resolution); 15 kN optional
Temperature Accuracy	±0.2°C at 0.50" (13 mm)
Software	LAB KARS FOR Windows

MELT FLOW INDEXERS



LMI 5500 Series

Advanced MFR/MVR tester with solvent-free Intrinsic Viscosity (IV) correlation.

PRECISION

Meets Standards	ASTM D1238, ASTM D3364, ISO 1133-1 & ISO 1133-2, BS2782, DIN 53735, JIS K7210
Operating Temperature	Ambient to 400°C
Temperature Control Accuracy	±0.1°C
Encoder Accuracy	±0.025 mm over 25.4 mm
Weights	0.325 kg to 10.0 kg
User Interface	7" touchscreen (800 x 480)



LMI 6000 Series

Multiweight melt flow indexer built for consistent MFR/MVR testing.

NEW

Meets Standards	ASTM D1238, ASTM D3364, ISO 1133-1 & ISO 1133-2, BS2782, DIN 53735, JIS K7210
Operating Temperature	Ambient to 500°C
Temperature Control Accuracy	±0.1°C
Encoder Accuracy	±0.025 mm over 25.4 mm
Weights	0.325 kg to 31.6 kg
User Interface	10.2" capacitive color display

🇺🇸 Built in USA

📄 ASTM & ISO Compliant

🏠 Laboratory Precision

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PRECISION • EXCELLENCE • INNOVATION





In-Line Polymer Viscosity

Real-Time Process Control & Quality Monitoring
Made in USA

IDEAL FOR : Extrusion Lines • Compounding • Recycling • Polymer Production • Process Optimization

REAL-TIME QC

Visco Indicator In-Line Polymer Viscosity Indication



System for measuring in-line viscosity of thermoplastic materials in real-time during extrusion. Provides continuous viscosity indication for process monitoring.

KEY FEATURES:

- Real-time viscosity indication
- Direct mounting on extruder
- No sample preparation required
- Easy intergration with control systems

Applications

- Film Extrusion
- Pipe & Profile
- Sheet Extrusion
- Compounding

Visco Sensor In-Line Rheometer



On-line rheometer for continuous measurement of ploymer melt Viscosity directly in process stream. Provides precise rheological data for advance process control

KEY FEATURES:

- On-line rheological measurement
- Multiple share rate capability
- Automated data acquisition
- High accuracy and repeatability

Applications

- Polymer Production
- Recycling Operations
- Compounding Lines
- Quality Assurance

WHY IN-LINE VISCOSITY MONITORING?

Real-Time Data
Instant viscosity readings

Process Control
Automated adjustments

Quality Assurance
Consistent product quality

Easy Integration
Works with existing systems

Made in USA
Dynisco Engineering

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PRECISION • EXCELLENCE • INNOVATION



CARVER

COMPRESSION MOLDING

Laboratory & Production Presses

From USA - Carver & Wabash MPI

IDEAL FOR : ASTM Test Plaques • Sample Molding • Rubber Curing • Laminating • R&D Labs

SAMPLE PREPARATION

CARVER

COMPRESSION PRESS / AUTOMATIC HYDRAULIC LABORATORY PRESS

The Widest Choice • Made in USA



Carver laboratory presses are state-of-the-art hydraulic laboratory presses for compression and bonding of rubber, plastics and composites. The international standard for laboratories and testing for more than 100 years.

Standard choices include bench top, floor standing, manual and automatic presses with clamping capacities from 12 to 100 tons.

Force Range

15 to 150 tons

Platen Sizes

12" x 12" to 30" x 30"

Temperature

Up to 650°F, 1200°F opt

FEATURES & APPLICATIONS

- ✔ Automatic controller with access module
- ✔ Programmable controller
- ✔ Laminating, Compression molding
- ✔ OSHA approved operating system
- ✔ Water cooled platens
- ✔ Rubber curing, Composite molding

WABASH

GENESIS SERIES / AUTOMATIC LABORATORY PRESS

A century of Wabash leadership • Made in USA



Genesis Series reflects more than a half century of Wabash leadership in hydraulic press design.

Features equal-lift design with hydraulic system available 15 through 150 tons with many closing and opening speeds, making it ideal for producing molded test plaques.

Force Range

15 to 150 tons

Platen Sizes

12" x 12" to 30" x 30"

Temperature

80°F - 500°F, 650°F opt

LABORATORY APPLICATIONS

- ✔ ASTM test plaque & PCB
- ✔ Compression & composite molding
- ✔ Specimen preparation
- ✔ Flow and cure / dissipation
- ✔ Insert molding, pelletizing
- ✔ Rubber curing & vulcanizing

WHY CARVER & WABASH?

100+ Years

Industry leadership since 1920s

Made in USA

Premium American Engineering

Full Support

Installation & Training Included

ASTM Ready

Compliant Test Specimen Prep

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PRECISION • EXCELLENCE • INNOVATION





Heat Sealing Technology

Laboratory Testing Since 1927
Made in Germany

GERMAN ENGINEERING

Labormaster Hot Tack Tester

Determines hot tack strength and heat seal initiation temperature for flexible packaging materials. Essential for optimizing sealing parameters.



HOT TACK SPECIFICATIONS

Temperature Range	50°C to 250°C
Test Speed	Variable, programmable
Force Measurement	Digital load cell
Applications	Films, laminates, pouches
Standards	ASTM F1921

SGPE Laboratory Sealer

Microprocessor-controlled laboratory sealer for creating test seals with precise control over temperature, pressure and dwell time.



Seal Width	10 mm
Temperature	RT to 300°C
Pressure	0.1 to 0.7 Mpa
Dwell Time	0.1 to 9.9 sec

PERFECT FOR

- Pharma Packaging
- Food Packaging
- Medical Devices
- Flexible Films

WHY CHOOSE WILLI KOPP HEAT SEALING EQUIPMENT?

German Quality
Since 1927

Precision
Temp, pressure, time

ASTM Standards
F1921, F2029

Lab & QC
Seal optimization

All Packaging
Films, foils



Sample Preparation & Density Testing

Complete Testing Solutions
Made in UK

IDEAL FOR : Impact Testing Labs • QC Departments • R&D Facilities • Standards Compliance

SAMPLE PREPARATION

Auto Density Gradient System

Precision Density, Measurement



Resolution	0.000001 g/ml
Accuracy	0.0001 g/ml
Columns	3 or 6 column
Temperature Control	Digital temperature control to 0.1°C
Standards	ISO 1183 & ASTM D1505

Auto Cycle Notching Cutter

Precision Sample Notching



Cutter Speed	350 rpm to 2500 rpm
Traverse Speed	0.06 mm/rev to 1.0 mm/rev
Standards	ASTM D256, ASTM D6110, ISO 179, ISO 180, ISO 8256, DIN 53453
Cutter Wheels	V-notch 0.01 / 0.25 / 1.00 mm radius, U-notch 0.80 / 2.00 mm radius

Pneumatic Sample Cutting Press

Die Cutting System



Air Pressure	Up to 10 bar (150 psi)
Cutting Force	Up to 50 kN
Platform	25 cm x 15 cm sample platform
Suitable For	Rubber, Plastic, Paper, Fabric or Laminates

SAMPLE PREPARATION WORKFLOW

STEP-1
Material Receipt
Raw material sample

STEP-2
Specimen Cutting
Pneumatic press

STEP-3
Notch Preparation
V-notch cutting

STEP-4
Ready for Testing
Impact, tensile

WHY CHOOSE RAY-RAN SAMPLE PREPARATION?

Precision
Accurate notch

Speed
Auto-cycle

Standards
ASTM & ISO

100+ Dies
All shapes

Made in UK
40+ years

40+ YEARS



Advanced Impact Testing System

Ray-Ran Pendulum Impact Testers provide precise measurement of impact strength for plastic materials using both Izod and Charpy test methods. With over 40 years of manufacturing excellence, these systems deliver repeatable results for quality control and R&D applications.

TECHNICAL SPECIFICATIONS

Test Methods	Izod & Charpy
Impact Energy	0.5 J to 50 J
Velocity	Variable pendulum velocity up to 3.8 m/s
Control	Dedicated microprocessor control
Display	Easy to read liquid crystal display
Connectivity	RS 232 + Ethernet (LAN networking)
Results	KJ/M and KJ/M ²
Test Types	Izod, Charpy, Tension, Component, Pipe, Puncture
Standards	ASTM D256, ASTM D4812, ISO180, ISO 179, ASTM D 6110, DIN 53453, DIN 53753, BS 7413, ISO 8256, ISO 7628, ISO 9854

APPLICATIONS

- ☑ Quality Control
- ☑ Material Development
- ☑ Product Certification
- ☑ Comparative Testing

KEY FEATURES

- ☑ Self-calibration procedure
- ☑ Techni-Test Windows Software
- ☑ Tabular & graphical statistical analysis
- ☑ Safety guard + audible pre-warning



75+
YEARS

8
BRANDS

Your Complete Testing Solutions Partner

Exclusive India Representative • 8 Global Brands • Complete Testing Ecosystem

GLOBAL BRAND PARTNERS EXCLUSIVE



Testometric
Universal Testing Machines
UK Made



Industrial Physics
OTR / WVTR Testers
UK Made



Dynisco
Melt Flow & Rheology
USA Made



Carver
Laboratory Presses
USA Made



Wabash
Compression Presses
USA Made



Ray-Ran
Impact Testing Equipment
UK Made



Willi Kopp
Heat Sealing Testers
GERMANY Made

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- QC Labs
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- Batteries
- EV Components
- Glass & Ceramics

