

Polymers

Films

Laminates

Packaging

Pipes

Automotive

Rubber

Textiles

Pharma

Medical Devices

Cosmetics

Food

.....

Product Guide
FILMS TESTING

TENSILE

COMPRESSION

FLEXURAL

PEEL / BOND

SEAL

COF

WVTR

OTR

LEAK

TORQUE

GLOSS

HAZE

OPTICAL DENSITY

COLOR

HYDROSTATIC
PRESSURE IN PIPES

PIPE BURST

FALLING WEIGHT

THERMO CYCLING

RCP

CARBON BLACK
DISPERSION

NOTCH MILLING
MACHINE

.....



HEM TECHSYS
PRIVATE LIMITED

Humax Touch to Testing

HEM TECHSYS PRIVATE LIMITED

Popularly known as **HEMTECH**

About us

HEMTECH is a company established and run by Technocrats. **HEMTECH** is focussed in the field of Testing Instruments and Automation Systems for Polymer, Films & Laminates, Packaging, Pharma Packaging, Polymer Pipes, Textiles & Technical Textiles, Automotive Industries. **HEMTECH** works very closely with all reputed Institutes and Industries in the field and so have good exposure and experience in the respective fields.

HEMTECH is Committed to bring to you world's best and latest technology Instruments as Authorised Agent for world renown companies in their respective fields. **HEMTECH** also expanded activities by also establishing local manufacturing facility with near Imported Quality Value for Money Instruments for the Quality Conscious Indian and foreign customer. Thus **HEMTECH** has unique balance of world class imported Instruments and near Imported Quality best in class locally manufactured Instruments under the registered trademark brand of **HEMTECH**.

Team

HEMTECH is a young and Dynamic team of

- **Electronics Engineers**
- **Mechanical Engineers**
- **Software Development Engineers.**
- **Instrumentation Engineers**
- **Electrical Engineers**

Positive Attitude, Hard Work, Sincerity, Honesty and Team work is the core strength of the team HEMTECH.

Service

HEMTECH believes in COMPLETE services. Our team believes that Service starts even before selling the Instrument or System. At HEMTECH Services are package of



Pre-Sales



**Installation
&
Commissioning**



**Repairs
&
Maintenance**



**Training
&
Tech Support**



Calibration



**Retrofit
&
Computerisation**

Divisions

We at HEMTECH believe that better focus gives better results. Hence, we have divided our company operation in divisions.

- **Sales Division** – Pre-Sales Service, Sales, Application Support , Liaison...
- **Service Division** – Installation & Commissioning, Training, Repairs & Maintenance, Technical Support , Calibration...
- **D & D Division** – Design, Development of Instruments, Electronics, software, Retrofits...
- **Manufacturing Division** – Manufacturing of Instruments, Accessories, SPM...
- **Testing Division** –Testing Facility for Industries on Commercial bases...

Achievements

- ✓ National Award for Innovation in Technology - by Ministry of Chemical & Fertilisers 2011
- ✓ National Award for Innovation in Technology - by Ministry of Chemical & Fertilisers 2012
- ✓ Development of Instrument for Mozzarella Cheese Testing for Anand Agriculture University
- ✓ Development of Retrofit kit for Imported HOT TACK TESTER



Film & Laminates Testing Instruments

Tensile Tester

Microcontroller based
LCD Display & Keypad
Micro-stepping / Servo Drives
High Data Rate
Built in RS 232 Interface

Self Identification Loadcell
Accurate Force Measurement.
Wide Speed Range

hemWIZARD – WINDOWS based
Software for Control & Data
Acquisition



Peel-Bond Tester

Microcontroller based
LCD Display & Keypad
Micro-stepping / Servo Drives
High Data Rate
Built in RS 232 Interface

Self Identification Loadcell
Accurate Force Measurement.
Wide Speed Range

hemWIZARD – WINDOWS based
Software for Control & Data Acquisition



Friction Tester

COF

Microcontroller based
LCD Display & Keypad
Micro-stepping / Servo
Drives
High Data Rate
Built in RS 232 Interface



hemWIZARD – WINDOWS
based Software for Control
& Data Acquisition

Heat Sealers

Microcontroller based
LCD Display & Keypad

True
Pressure Measurement
Dwell time Self Tuning



**Pressure Pulse based
Dwell time Control**

Balloon Burst Tester

Meets ASTM
Digital
Peak Hold

Restraining Plates



Tear Tester

Elmendorf type
Digital
Printer Option



Stiffness Tester

Analogue
Version



Falling Dart Impact Tester

Method A
Method B

Built In Vacuum
Pump
Pneumatic
Clamp
assistance

Automatic Dart
Release system



Thickness Tester

Desktop Model

Hand Held Model



Moisture Balance

Halogen heating
Accurate
Repeatable

**Models up to
Resolution
0.001% available**



GLOSS Meter



Tri-angle
(20,45 & 80 deg)

Single angles Models

OPTICAL DENSITY Meter



0 to 5.00 D
Accuracy : +/-0.02D

HAZE METER



Measures TRANSMITTANCE & HAZE
Confirms to Standard **ASTM D 1003**
Intearating Sphere Sensor

Ancillaries for Paper, Corrugated Sheet Testing Instruments



Bursting Strength Tester

Digital
Manual clamping

Optional Pneumatic clamping



90 Degree Peel Tester

Digital
Keeps Peel Angle Constant
at 90°

Controls
Sealing Temperature
Sealing Pressure



Core Strength Tester

Digital
Paper Core

Optional
Fixtures for
various sizes.



180 Degree Peel Tester

Digital
Keeps Peel Angle Constant at
180 deg



Loop Tack Tester

Digital
For testing Adhesive
Tapes



**BOX
Compression
Tester**

Digital
Pneumatically
Operated
Accurate Force
Measuring
system

Different Models
as per Platform
size available.



**Shear Adhesion
Tester**

**2 stations to 30
stations models**

Digital Timer
Battery Operated
Auto Hold
Test end sensing



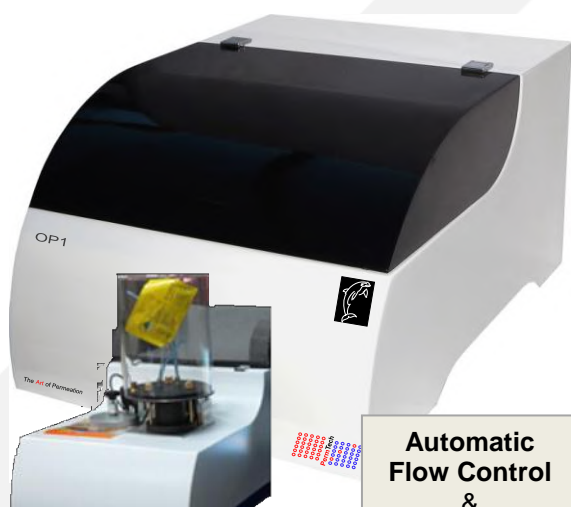
**Bottom
Compression tester
For Top Load Test**



**Dynamic
Shear Adhesion Tester**

Permeability Testers

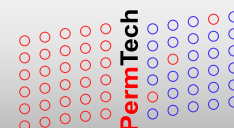
For Films & Packages



Automatic
Flow Control
&
Pressure
Compensatio

Meets Latest Standards

WVTR : ASTM F 1249
OTR: ASTM D 3985,
F 2622
CO2TR : ASTM F2476



The Art of Permeation

Measuring Range

Test Range H₂O
0.002-100 g.m⁻².24h⁻¹.bar⁻¹ (unmasked)
0.04-2000 g.m⁻².24h⁻¹.bar⁻¹ (masked)

Test Range O₂
0.01-15000 cm³.m⁻².24h⁻¹.bar⁻¹ (unmasked)
0.2-80000 cm³.m⁻².24h⁻¹.bar⁻¹ (masked)

Test Range CO₂
0.25-18000 cm³.m⁻².24h⁻¹.bar⁻¹ (unmasked)
20-360000 cm³.m⁻².24h⁻¹.bar⁻¹ (masked)

Product Range :

WOCP1

3 in 1 Instrument

Only of its kind in World Market

WOP1 & WOP2

2 in 1 Instrument

Only of its kind in World Market

OP2+

Both side RH Control

Only of its kind in World Market

WP1 & WP2

Water Vapour Transmission Rate - WVTR

OP1 & OP2

Oxygen Transmission Rate - OTR

CP1 & CP2

Carbon Dioxide Transmission Rate – CO₂TR

OP1E - Economical

Oxygen Transmission Rate - OTR

- ✓ Fully Computer Controlled
- ✓ Single Cell or Two Cell Models
- ✓ Temperature Control 10 – 50 °C (+/- 0.1 °C)
- ✓ Humidity Control from 5 to 95% (+/- 1.5%)
- ✓ 100% Humidity Mode
- ✓ 0% Humidity Mode (for O₂ & CO₂)

- ✓ Allows sample thickness up to 2.5 mm
- ✓ Automatic Flow Control (10 – 75 ml/min)
- ✓ Unique Closure System—No need to cut samples !
- ✓ Data storage & Graph Storage for viewing later on
- ✓ LABVIEW based latest Software
- ✓ Latest USB Interface !

CARBP1

for Carbonated Beverage Bottles
Carbon Dioxide Transmission Rate
CO₂TR

***Gives result in an Hour
which normally takes weeks !!!***



HOT TACK TESTER

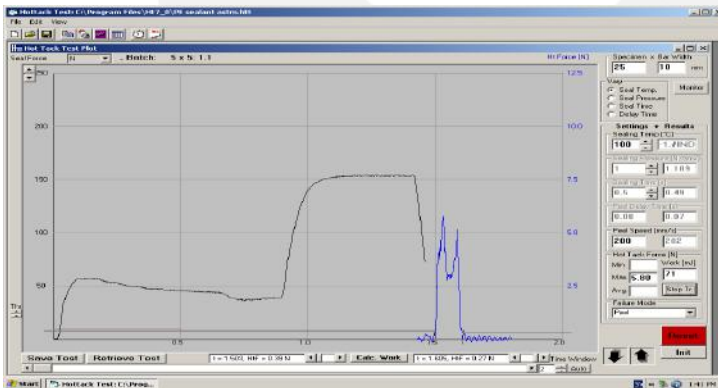


Auto -Digital Pressure Regulation

What is NEW !!!

- ✓ USB interface
- ✓ Windows 7 Operating system (Option for Win8 is available)
- ✓ Test software Wintack ver. 11
- ✓ Indication of Actual Sealing Temperature on the Instrument.
- ✓ Improved Hardware

- Controls**
- Sealing Temperature
 - Sealing Pressure
 - Dwell Time
 - Delay Time

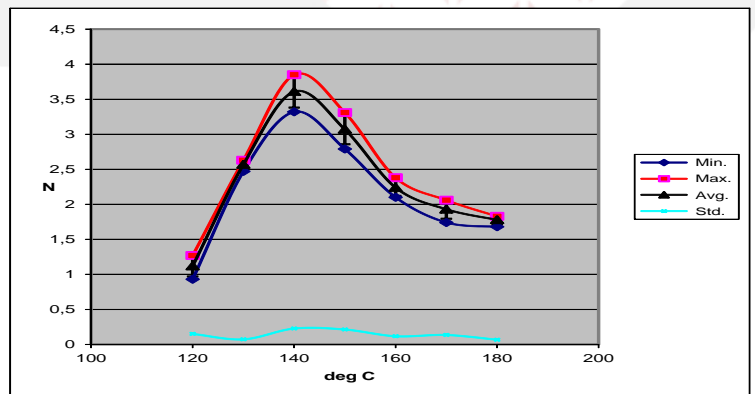


Material: TP	SealTemp: Vary
Batch Nr: 1	Seal Time: 0,5
Testpar: AMC41 109	SealPress: 0,5
Operator: nn	Delay time: 0,20
Created: 2002-06-06	PeelSpeed: 200

7 Groups: 4 pcs./group

SealTemp	HtF_Max			
	Min.	Max.	Avg.	Std.
120	0,93	1,27	1,12	0,15
130	2,47	2,63	2,57	0,0735
140	3,32	3,85	3,61	0,228
150	2,79	3,31	3,07	0,214
160	2,1	2,38	2,24	0,118
170	1,74	2,06	1,93	0,136
180	1,68	1,83	1,78	0,0678

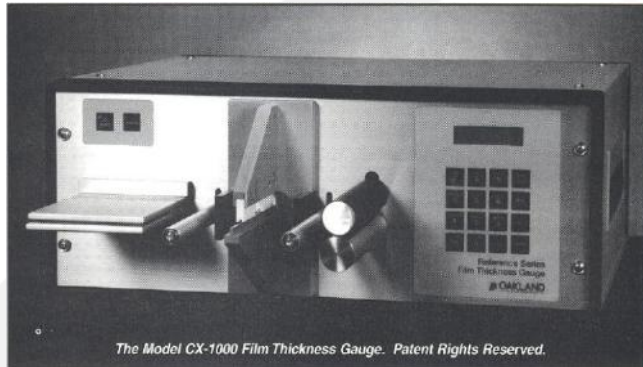
spec. width 25 mm





Thickness Measuring Systems

Offline Film Profile Gauge – CX Series



Desk top
Offline
Upgradable

Capacitance Probe
Excellent Stability

RS 232 Interface
SOFTWARE

PATENTED TECHNOLOGY

Unique RWREFERENCE SENSOR
Unique AUTOCAL system (CX 1020)

Thickness Calibration Facility based on :

✓ Thickness Measurement
✓ GSM

Micro Gauge Thickness Tester



MX 1210
Auto Lifting of Sensor
Auto Film Advance system

Desk top
Offline
Drive for Film

LVDT Sensor
Excellent Stability

Optional
RS 232 Interface
SOFTWARE

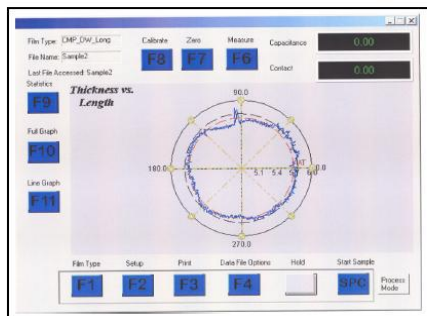
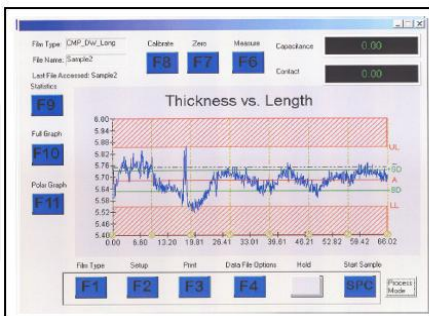


MX 1200
Auto Lifting of Sensor



MX 1100

Software



WINDOWS based Advanced Software

- ✓ Liner Profile View
- ✓ Polar Profile view
- ✓ Statistical Results (High, Low, Average, SD..)
- ✓ Reporting Facility

RS 232 Port needed in PC

Opacity Tester



Shrinkage Tester



Our Extended Family (Partial List of Valued Customers)

AMCOR	GAIL	MANTRA	SAFAL
APPL	GHODAVAT FOOD	MARVEL	SEKHANI
ADRDE	GLENMARK	MEHATA FLEX	SHAILLY ENGINEERING
ASHIRVAD PIPES	HOLISTER	MERIL ENDOSURGERY	SHANKAR PACKAGIN
ASTRAL	HUTAMAKI	MONTAGE GLOBAL	SHEFIELD POLYMERS
AXEL POLYMERS	IDEX	MULTIFLEX	SHIVA TEX
BALAJI WAFERS	IDMC	MULTI FILMS	SHRINATH ROTO PACK
BENTLAY FITTINGS	IISC	NAVAMI	SHUBHAM EXTRUSION
BHANSALI ENGINEERING	IOCL	NAVRANG POLY FILMS	SIDMAK LABORATORIES
C K ZIPPERS	INJECTOPLAST	ORIFLAME	SPOT ON COATINGS
CAPITOL FIBRES	ION EXCHANGE	OSWAL EXTRUSIONS	STRONG STRAPS
CAPRI COATINGS	IPR	PACKAGING INDIA	SUNPHARMA
CAVIN KARE	ITC	PAPER PRODUCTS	SUPREME
CHIRIPAL FILMS	JESONS	LIMITED	SWAPNIL AGRO
CIPET	KALPENA INDUSTRIES	PARIKH PACKAGING	SWISS PACK
CLARIENT	KJR FILMS	PARLE	THIAGRAJA UNIVEERSITY
CONSTANTIA	LARPM	PARRY	TUFLEX
DRDE	LAXMI SNACKS	PLATICHEMIX	UFLEX
EASTER	LOHIA	POSITIVE PACKAGING	ULTIMATE FLEXIBLES
ECOPLAST	M C COLLEGE	RAJASHREE POLYPACK	VIKAS GLOBAL
EPC	M J BIOPHARMA	REAL NAMKEEN	WIRE & FABRIK
GABA	M S UNIVERSITY	RELIANCE INDUSTRIES	YESH LAMI PRINT

International Customers

J F Packaging – Srilanka
 F I P C O – Oman
 Sun Pharma De Mexico - Mexico



"Total Customer Satisfaction Through Quality Services"



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