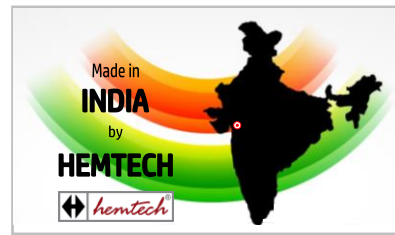


**UTM Tensile Compression**  
Bending **MFI IZOD Impact ESCR**  
**HDT/VICAT** UL 94 Flammability  
Density Balance **PEEL-BOND COF**  
**Heat Sealer Falling Dart Impact**  
**OPACITY HAZE colour Tear**  
**MOISTURE GSM Balance**  
**Thickness HOT TACK WVTR OTR**  
Leak **Balloon BURST Bursting**  
**Strength CORE STRENGTH**  
**●IT Hydrostatic Pressure**  
**THERMO-CYCLING Pipe Burst**  
**SCG Notch Cutter Milling Torque**  
**force gauge** dosing system  
*profile control* **IBC Control**  
**LAYFLAT CONTROL** *thickness scanner*  
*chillers* Calibration cage screen changer  
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**Product Guide**  
**PHARMA PACKAGING 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



# Packaging Material 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

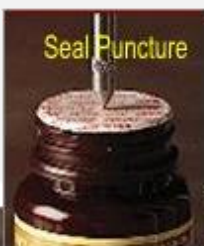
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High Data Rate  
Built in RS 232 Interface

Self Identification Loadcell  
Accurate Force Measurement.  
Wide Speed Range

**hemWIZARD** – WINDOWS based  
Software for Control & Data Acquisition



Single Machine  
Many Many  
Applications ...



## 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



## Stiffness Tester

Analogue  
Version





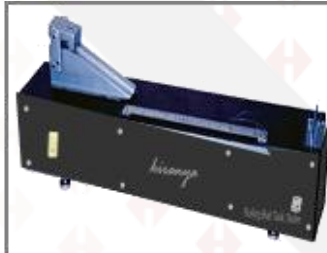
# Ancillaries for Paper, Corrugated Sheet Testing Instruments



**SCUFF Tester  
(PATRA)**



**Ink Rub Tester  
(Southerland)**



**Tack Tester  
(Rolling Ball Type)**

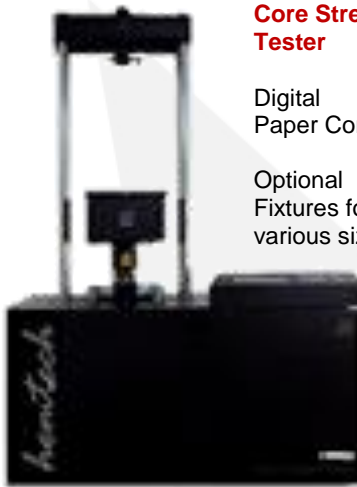


**Shear Adhesion Tester**



**Bursting Strength Tester**

Digital  
Manual clamping  
Optional Pneumatic lamping



**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



**Bottle  
Compression  
tester**  
For Top Load



**Dynamic  
Shear Adhesion Tester**

# Package Testing Instruments



USA

## Automated Package Tester

Suitable for performing

### Seal Strength Test

(Burst, Creep, Creep-to-Failure)  
Porous & Non-Porous  
Flexible Packages

### Leak Integrity Test

Leak Test for  
Non-Porous Flexible Packages

## LEAK & LEAK / FLOW TESTERS

**Pressure  
or  
Vacuum Decay  
Models**

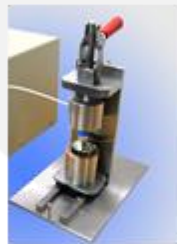
Suitable for performing

- ✓ Leak Test
- ✓ Leak / Flow Test
- ✓ Leak / Occlusion Test

## NON DESTRUCTIVE LEAK TESTERS

Suitable for performing

- ✓ Induction sealed Bottles
- ✓ Blister Packs
- ✓ Vials
- ✓ Medical Devices .....



## LEAK & BURST Tester



Suitable for performing WET & DRY Leak Test

- ✓ Snack pouches
- ✓ Food Pouches
- ✓ Bags



Large size Desiccator



Standard Desiccator



## Permeability Testers For Films & Packages

**WVTR  
OTR  
CO2TR**

**Automatic  
Flow Control  
&  
Pressure  
Compensation**

**ExtraSolution**

Meets Latest Standards

**WVTR :** ASTM F 1249  
**OTR:** ASTM F 2622  
**CO2TR :** ASTM F2476



### Measuring Range

Test Range H<sub>2</sub>O

**0.002-100 g.m<sup>-2</sup>.24h<sup>-1</sup>.bar<sup>-1</sup> (unmasked)**

**0.04-2000 g.m<sup>-2</sup>.24h<sup>-1</sup>.bar<sup>-1</sup> (masked)**

Test Range O<sub>2</sub>

**0.01-15000 cm<sup>3</sup>.m<sup>-2</sup>.24h<sup>-1</sup>.bar<sup>-1</sup> (unmasked)**

**0.2-80000 cm<sup>3</sup>.m<sup>-2</sup>.24h<sup>-1</sup>.bar<sup>-1</sup> (masked)**

Test Range CO<sub>2</sub>

**0.25-18000 cm<sup>3</sup>.m<sup>-2</sup>.24h<sup>-1</sup>.bar<sup>-1</sup> (unmasked)**

**20-360000 cm<sup>3</sup>.m<sup>-2</sup>.24h<sup>-1</sup>.bar<sup>-1</sup> (masked)**

### Product Range :

**TotalPerm  
3 in 1 Instrument**

**Patented  
Technology**

*Only of its kind in World Market*

**MultiPerm  
2 in 1 Instrument**

*Only of its kind in World Market*

**PermeO<sub>2</sub> +  
Both side RH Control**

*Only of its kind in World Market*

### PermeH<sub>2</sub>O

Water Vapour Transmission Rate - WVTR

### PermeO<sub>2</sub>

Oxygen Transmission Rate - OTR

### PermeCO<sub>2</sub>

Carbon Dioxide Transmission Rate – CO<sub>2</sub>TR

### PermeO<sub>2</sub>RC - Economical

Oxygen Transmission Rate - OTR

### PackPerm - for Packages

Oxygen Transmission Rate – OTR

### CarboPackBT

for Carbonated Beverage Bottles  
Carbon Dioxide Transmission Rate  
CO<sub>2</sub>TR

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

- ✓ 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 O<sub>2</sub> & CO<sub>2</sub>)

- ✓ 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 !





# HOT TACK TESTER



**NEW**

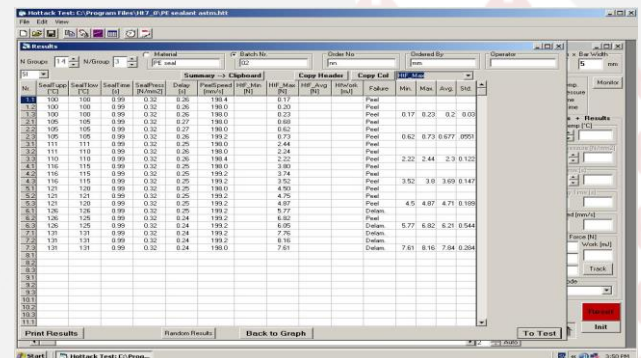
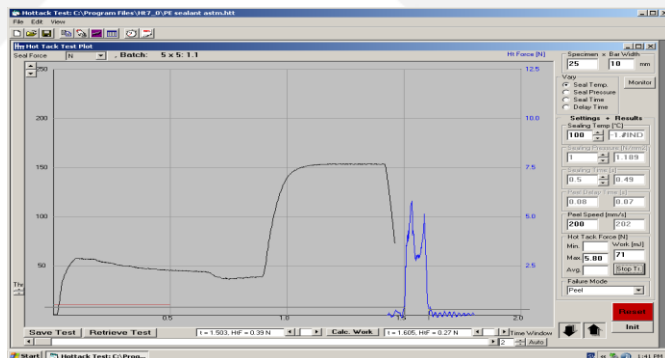
## What is NEW !!!

- ✓ 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

## Auto -Digital Pressure Regulation

### Controls

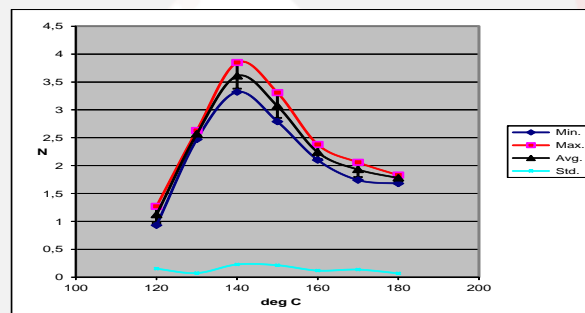
- Sealing Temperature
- Sealing Pressure
- Dwell Time
- Delay Time



Material:	TP	SealTemp:	Vary	7 Groups:	4 pcs./group
Batch Nr:	1	Seal Time:	0,5		
Testpar:	AMC41109	SealPress:	0,5		
Operator:	nn	Delay time:	0,20		
Created:	2002-06-06	PeelSpeed:	200		

SealTemp	HfF 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



# TORQUE TESTER

## Manual torque Tester



Micro-controller based Digital Operating Console with Key pad & LCD Calibration facility

## Motorised Torque Tester

- ✓ Compact Size
- ✓ Constant Speed Drive
- ✓ LCD Display & KEYPAD
- ✓ Calibratable in the Field
- ✓ Wide Operating Temperature Range
- ✓ Non-destructive Testing
- ✓ RS-232 Port



## 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"**



**HEM TECHSYS PRIVATE LIMITED**

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**E :** sales@hemtech.in  
**W :** www.hemtech.in

**PAN :** AACCH1767L  
**GST :** 24AACCH1767L1ZG  
**CIN :** U31900GJ2009PTC056166

HEMTECH follows the policy of continuous improvement and reserves the rights to change the specifications, color & look without notice.