

Polymers

Films

Laminates

Packaging

Pipes

Automotive

Rubber

Textiles

Pharma

Medical Devices

Cosmetics

Food

.....

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

.....

**Product Guide**  
**PIPES TESTING**

*Humax Touch to Testing*



**HEM TECHSYS**  
PRIVATE LIMITED

# 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



# Pipe Testing Instruments

## Hydrostatic Pressure Testing Systems

Meets or exceeds  
**ISO 1167**  
**ASTM D 1598**  
**ASTM D 1599**



**Most Economical but Accurate Model**

5 stations  
PC Operated  
Full Featured system



**Expandable to 20 stations**

Minimum 5 stations  
Touch Screen Control

**Burst Module option**



**Latest Model**  
**Expandable to 200 stations**  
**Latest Technology**

Minimum 5 stations  
Touch Panel Operating Console  
Ethernet communication



**Has possibility to have Burst Module as option as well**



### Burst Tester

Dedicated Burst Tester  
Pressure Range up to very large Pressures also.



### Test Tanks

Excellent Temperature Accuracy  
Excellent Uniformity of Temperature  
Safety Features

### Test Ovens

Excellent Temperature Accuracy  
Excellent Temperature Uniformity



### End Closures

Excellent Precision  
Easy to use

### SCG Notch Milling

Excellent Precision  
Fully Digital  
'V' as well as Slot Cutter



Meets or exceeds  
**ISO 13479**

# Ring Stiffness Ring Flexibility Creep Ratio Testing System

Meets or exceeds  
ISO 9967  
ISO 9969  
ISO 16968  
ASTM D 2412



Fully Digital  
Model up for testing up to  
1600 mm



# RCP Rapid Crack Propagation Tester

Meets or exceeds  
ISO 13477

Electronic Controller  
Excellent Precision  
Safe Operation



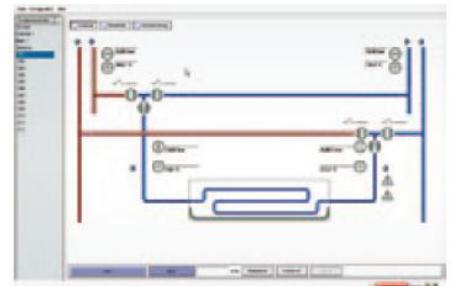
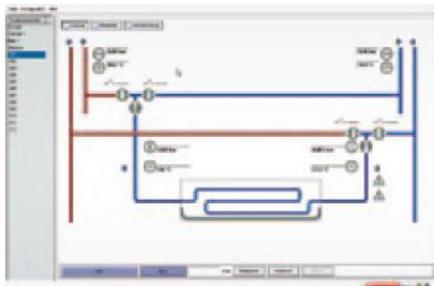
# Thermal Cycling

Up to 160 mm OD Pipes  
Maximum 16 bar Test Pressure

Meets or exceeds  
ISO 9967  
ISO 9969  
ISO 16968  
ASTM D 2412  
Test Chamber  
Accessibility  
from both side  
Built in Sample  
Rack  
Tensioner with  
Loadcell



Computer Controlled  
Graphical Indication  
Data and Report facility



## Milling Machine



- ✓ Pre-configured, optimised machining programs
- ✓ Protective doors with lock for operator safety
- ✓ Workbench included
- ✓ CNC-controlled positioning of the axes
- ✓ Compressed air for removing swarf and cooling the machined areas



Meets or exceeds  
**ISO 3127**  
**EN 744**  
**EN 1411**  
**ASTM D 2444**

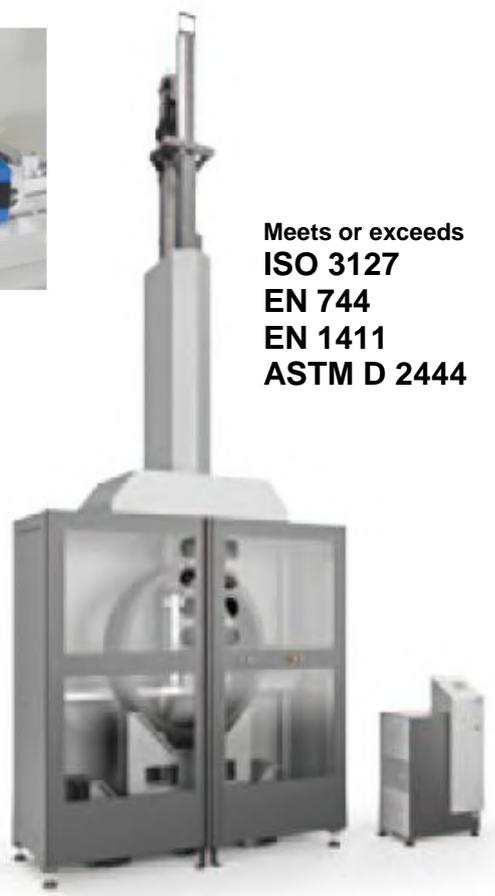
## Falling Weight Impact Tester

### Staircase Method

Increasing Dropping Height per step

### Round the Clock Method

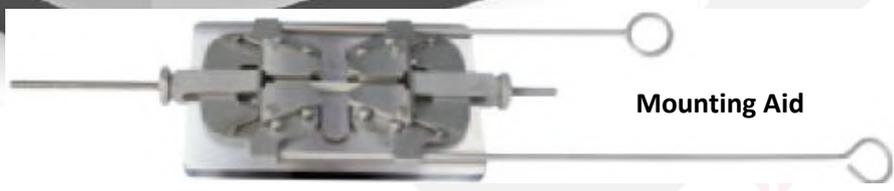
up to 25 strikes per minute from 2m height



## Full Notch Creep Tester- FNCT

Individually operatable Stations  
 Excellent Uniformity  
 Touch Panel Control

Notch Device



Mounting Aid

## Other Pipe Testing Instruments

Marking Gauge

ISO 2505



Cutting Saw

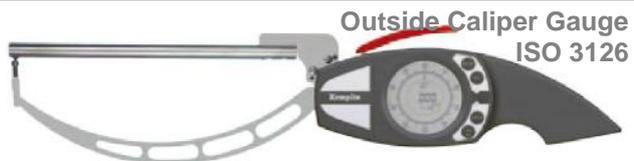
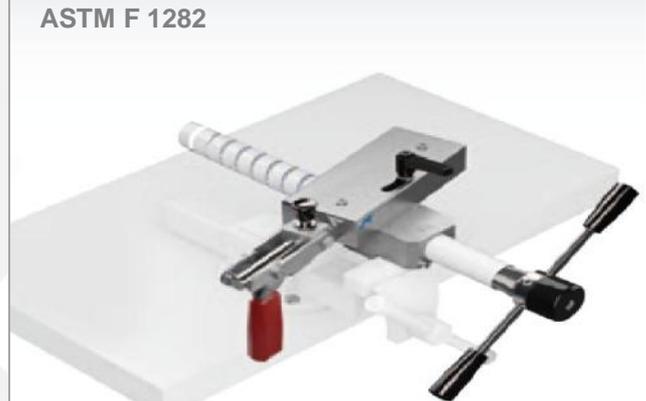
ISO 1167  
ISO 2505  
ISO 3127



Granulator  
ISO 1133  
ISO 1183  
ASTM D 1505



Spiral Pipe Cutter  
ASTM F 1281  
ASTM F 1282

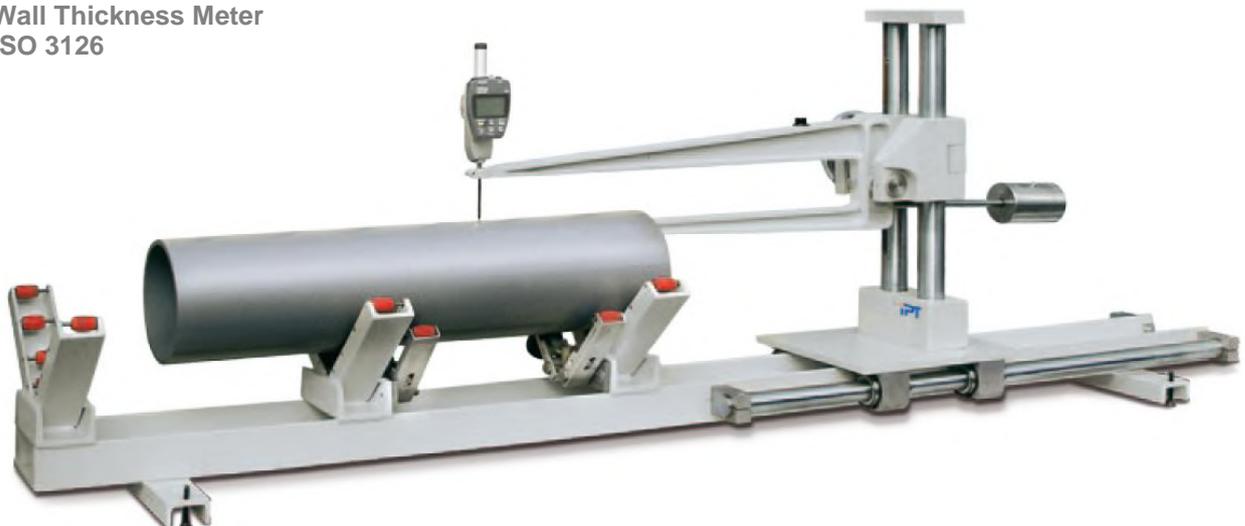


Outside Caliper Gauge  
ISO 3126

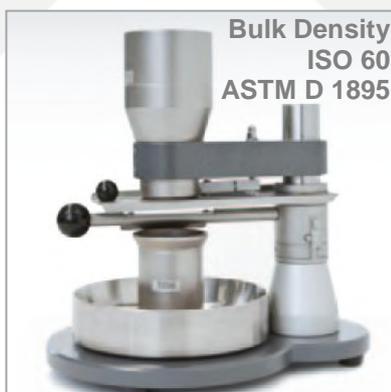


Circometer  
ISO 3126

Wall Thickness Meter  
ISO 3126



## Other Pipe & Polymer Testing Instruments



### Instruments to test

- ✓ Density – ISO 1183
- ✓ MFI – ISO 1133
- ✓ OIT – ISO/TR 10837 or EN 728
- ✓ Carbon Black Content – ISO 6964
- ✓ Carbon Black Pigment Distribution – ISO 18553
- ✓ Volatile Content – ISO 12099
- ✓ Water Content – ISO 12118
- ✓ Heat Reversion – EN 743
- ✓ Internal Pressure Test – ISO 1167, ASTM D 1598
- ✓ Thermal Stability – ISO 1167
- ✓ Thermal Cycling Test – EN 12293, ISO 10508
- ✓ Resistance to Rapid Crack Propagation – ISO 13477
- ✓ Resistance to slow Crack Growth – ISO 13479
- ✓ Tensile Test – ISO 6259, 527, ASTM D 638
- ✓ Creep Ratio – ISO 9967
- ✓ Bulk Density – ISO R60
- ✓ Pourability (Powder Flow Speed) – ISO 6168, ASTM D 1895
- ✓ VICAT Softening Temperature – EN 727
- ✓ Resistance to Dichloromethane – EN 580
- ✓ Impact Resistance – EN744, EN 1411, ISO 9854
- ✓ Ring Stiffness – ISO 9969
- ✓ Ring Flexibility – EN 1446
- ✓ Congo Red Method – ISO 182
- ✓ K-Value – ISO 1628
- ✓ Oven Test – ISO 12091
- ✓ Dynamic Pressure Test – EN 12295
- ✓ Vacuum Test – EN 12294
- ✓ Pull Out Test – EN 712
- ✓ Leak Tightness Test – EN 713
- ✓ Degree of Cross Linking – EN 579, ISO 10147
- ✓ Adhesion Test – ASTM F 1281
- ✓ Peel Test – ASTM F 1281
- ✓ Ring Test – ASTM F 1281
- ✓ Burst Pressure Test – ASTM D 1599
- ✓ Sieving Analysis
- ✓ Milling Machine – Sample Preparation

# Polymer Testing Instruments

## Universal Testing Machine UTM

Models Available from  
10 Kg to 30 Ton Capacities

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

Extensometer Options  
Thermal Cabinet Options

hemWIZARD – WINDOWS based Software  
for Control & Data Acquisition



**Series 7**  
10 to 500 Kg



**Series 16**  
500 to 5000 Kg



**Series 25**  
10 to 30 Ton



**METHOD A    METHOD A & B    METHOD A & B  
Weight lifter**

**Full featured Model  
Method A & B + Rheology**



## Melt Flow Indexer

Method A Manual Models to full featured  
high-tech Models.

Excellent Precision  
Accurate Temperature Control  
Digital Piston Travel Measurement  
Motorised Weight Lifting  
Automatic Cutter

Automatic Weight Application  
Increasing Weight Multi weight Testing  
Decreasing Weight Multi weight Testing  
Rheological studies & Calculations

## Impact Tester

IZOD Impact Tester  
CHARPY Impact Tester  
IZOD + CHARPY Impact  
Tester



**Unique Model  
Single Hammer  
Single Vice  
For IZOD & CHARPY**

## HDT / VICAT Tester

2, 3,4,6 Station Models

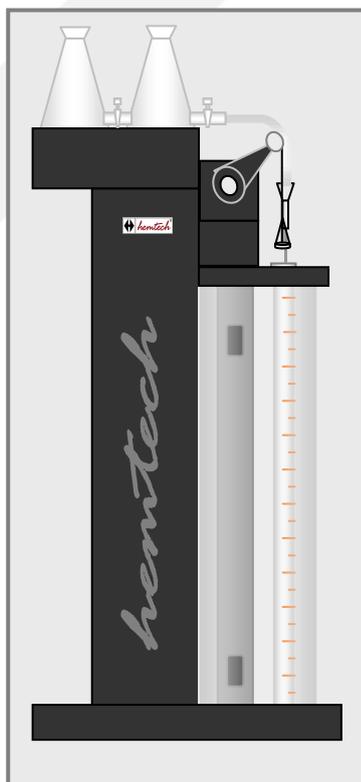
Simplest version to full featured Models

Precise Mechanics

Excellent Temperature Ramp control

Digital Display

Station Lifting Mechanism



**DENSITY GRADIENT COLUMN**



**ESCR**



**MELTING POINT**



**LIMITED OXYGEN INDEX**



**MOISTURE BALANCE**

**Creep Tester**

For Creep Testing of Polymeric Samples

**UL94 Horizontal & Vertical Flammability Tester**

Horizontal Burning Test and  
20mm Vertical Burning Test

Imported Burner

Imported flow Meters

## 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

Systemised Solutions 4 Your Need

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Hemtech Touch to Testing

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