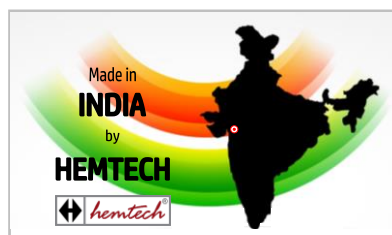


UTM Tensile Compression
Bending **MFI IZOD Impact ESCR**
HDT/VICAT UL 94 Flammability
Density Balance **PEEL-BOND COF**
Heat Sealer Falling Dart Impact
OPACITY HAZE colour Tear
MOISTURE GSM Balance
Thickness HOT TACK WVTR OTR
Leak **Balloon BURST Bursting**
Strength **CORE STRENGTH**
●IT Hydrostatic 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
PIPES 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



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

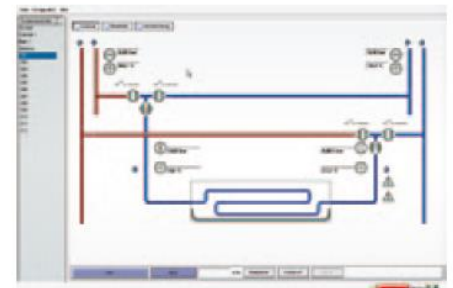
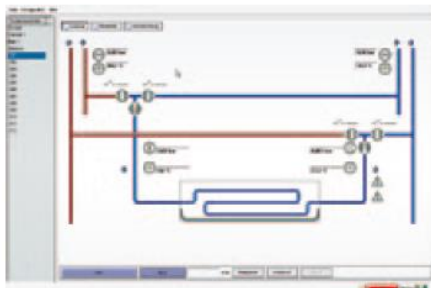
Meets or exceeds
ISO 9967
ISO 9969
ISO 16968
ASTM D 2412
Test Chamber
Accessibility
from both side

Built in Sample
Rack

Tensioner with
Loadcell



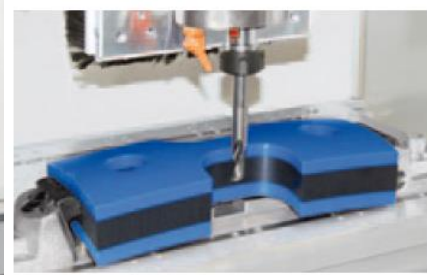
Computer Controlled
Graphical Indication
Data and Report facility



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

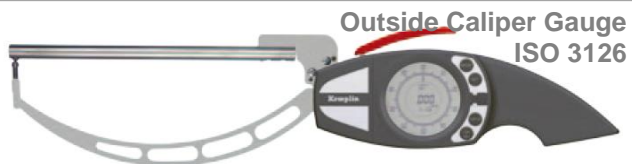
ISO 1167
ISO 2505
ISO 3127



Granulator
ISO 1133
ISO 1183
ASTM D 1505



Spiral Pipe Cutter
ASTM F 1281
ASTM F 1282

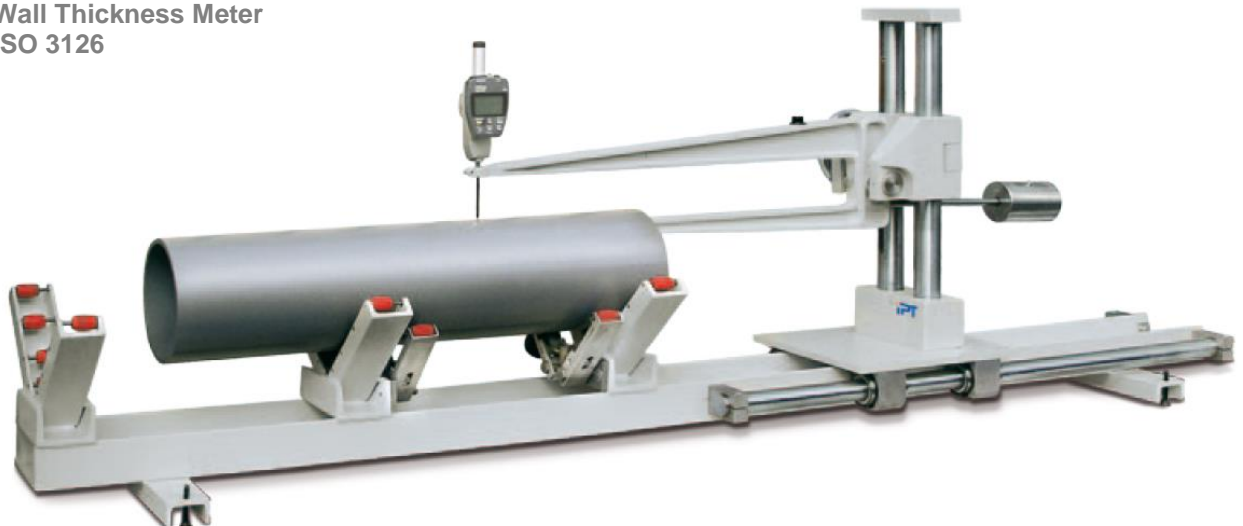


Outside Caliper Gauge
ISO 3126



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

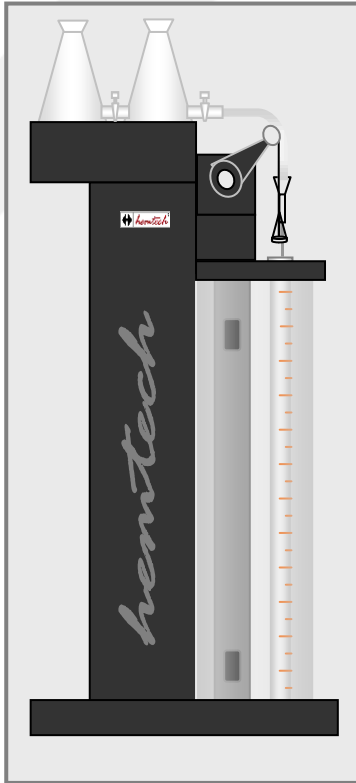
Simplest version to full featured Models

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



OIT Meets IS :4984:2016

New
Launch by 

OXYDATION INDUCTION TIME TESTER

- ✓ Intelligent
- ✓ Small
- ✓ Economical

Meets
ISO 11357
ASTM D 3895

Calibration Facility
using
Sn & In



- ✓ AUTOMATIC FLOW CONTROL
- ✓ AUTOMATIC FLOW CHANGEOVER
- ✓ EXCELLENT TEMPERATURE CONTROL
- ✓ ACCURATE RAMPING
- ✓ FULLY AUTOMATIC TEST SEQUENCE
- ✓ AUTOMATIC MARKING & CALCULATION
- ✓ FULLY PC CONTROLLED

DSC

+/- 10, +/-20, +/-40, +/-100, +/-160, +/-200 mW

Auto Ranging

Controlled Temperature

Temperature Range : RT to 500 °C

Temperature Accuracy : 0.1 °C

Heating Rate : 1 to 30 °C / min

Gas Control

Gas Flow Range: 0 to 200 ml / min

Flow Control Accuracy : 0.2 ml / min

Gas Temperature Range : RT to 500 °C

Temperature Accuracy : 0.1 °C

Crucible

Material Aluminum

Dimension : Ø 6.7 mm X 2.5 mm

Dimension

400 X 320 X 200 mm (W X D X H)

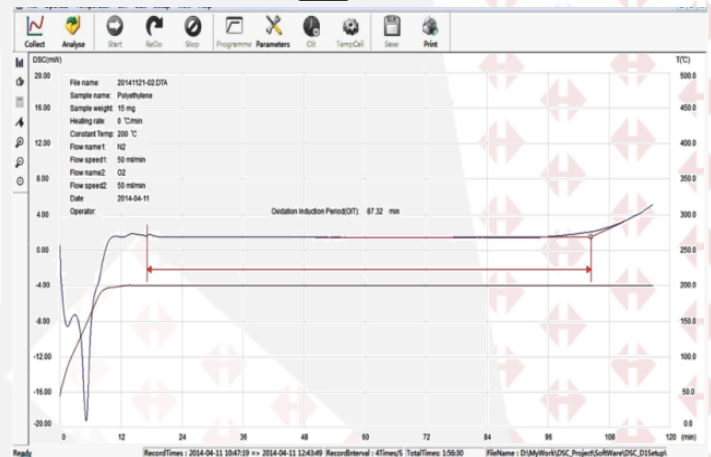
Operating Condition

Room Temperature : 15 °C to 25 °C

Humidity : 55 to 75% RH

Power

220 V AC, 50 Hz spike free and stabilised power with proper Earthing.



Features

- Quick Rise of Temperature
- Quick reduction of the temperature;
- High resolution A/D(24 bits) for accurate data sampling
- DSC signal scale: -200 to 200 mw
- Auto scale Changing for DSC Signal
- Intelligent temperature controller with microprocessor
- Temperature accuracy of 0.1 °C over a long period of time
- Facility for Auto Calibration using Sn & In
- Numeric mass flow-meter with computer control
- High accuracy low drift amplifier
- Data sampling
- Save sampling data,
- Load data
- Smooth of DSC curve,
- Cutting over gas of two channels each other
- Selection of points for fitting DSC curve
- Software of Oxidation Induction Time of PE and other polymer.

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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CIN : U31900GJ2009PTC056166

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