



# PAP-TECH

## ENGINEERS & ASSOCIATES



**MANUFACTURER,  
EXPORTER &  
SUPPLIER**



### *Why Choose Us?*

- ✓ Quality Control and Testing
- ✓ 100% On Time Delivery
- ✓ 24x7 Customer Support
- ✓ Latest Technology
- ✓ Reasonable Price
- ✓ Trustworthy Partner

### *Our Category*

- Physical Testing Equipment
- Bursting Strength Tester
- Paper Testing Equipment
- Pulp Testing Equipment
- Packaging Testing Equipment
- Environmental Testing Equipment



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# COMPANY PROFILE

## MD Message



**Vk Agarwal**  
(Paper Technologist)

PAP-TECH Engineers & Associates came into existence after a research & development of 5 years in 1997 & developed into a strong team of designers, manufacturers, Graduate Sales & Service Engineers and quality product supplier of laboratory testing instruments uses for the testing properties of pulp, paper board packaging, corrugation, computer stationary conversion and allied industries.

PAP-TECH Engineers & Associates is a globally recommended company for these instruments in the field of research & development and quality testing procedures both in domestic & international market.

PAP-TECH has adequate and elaborate facilities for design, Manufacture, Testing and Calibration of all Instruments for Pulp & Paper, Printing, Packaging & other Allied Industries Company's infrastructure Comprises of all requisite operation to carry out processes from concept to commissioning international test norms.

PAP-TECH is equipped with highly skilled and experienced manpower to meet the present day requirement and to respond rapidly to future requirement.

PAP-TECH aim is to continue upgrade and improves the design, production and testing technologies to develop and maintain the quality of our products on continuous basis.

PAP-TECH is committed to the total quality management principles & after sale service. Company has a strong network of services to solve the customer's problem without delay. The group provides preventive maintenance & calibration services to assist the industry for future requirements.

PAP-TECH Engineers & Associated also provides engineering and consultancy services along with Pulp & Paper Mill Machinery.

PAP-TECH believes primary in customer's satisfaction through rigorous quality assurance system to ensure the right and the best quality at all steps along with providing calibration and maintenance services to eliminate the risk of the equipment failure and mal-operation to minimum. Promoters of the company are graduate Pulp & Paper Engineers having 30 years experience in research in & development.

PAP-TECH Engineers & Associates have a good team of mechanical, electrical, electronics & instrument Engineers and have an ambitious growth plants in the field of research in & development.

# PHYSICAL TESTING EQUIPMENT



**Manual GSM Tester (PAP-2051)**

A manual GSM tester for paper is a device used to measure the grammage (weight per unit area) of paper manually.



**Electronic GSM Balance (PAP-2052)**

Digital GSM Tester: A digital GSM tester for paper is a modern device that provides an automated and precise method for measuring the grammage (weight per unit area) of paper.



**Pocket GSM Tester (PAP-2052A)**

It is used for measuring the basis weight (GSM of paper) and other similar sheet materials by weighing a small test sample.



**Cobb Sizing Tester (PAP-2055)**

It is used to measure the absorbency or resistance to liquid penetration of paper and paperboard. It's commonly used in the paper manufacturing industry.



**Sample Cutter A4 Guillotine (PAP-2057)**

It is a tool used for cutting paper into precise sizes. A fixed size spacer and holding plate are provided to facilitate the cutting of strip samples.



**Triple Sheer Sample Cutter (for stiffness) PAP-2057(B)**

It is a precise tool for preparing samples for stiffness testing, especially useful for quality control or research purposes. The sample size is a rectangular strip with dimensions of 63 mm by 38 mm (2.5 inches by 1.5 inches).



**Circular Sample Cutter (PAP-2058A)**

It is a manually operated circular (round) cutter with four knives along the perimeter. It is used for cutting circular sample of paper, board and similar materials.



**Punch and Die Cutter (for Tensile) PAP-2060(A)**

The Precision Test Strip Punch & Die Cutters are intended for accurate and rapid preparation of test pieces for use in Tensile Strength tests. Cutting Length : 300mm. Cutting Width : Adjustable by spacing washers 12.5 mm, 15 mm, 20 mm & 25 mm.



**Punch and Die Cutter (for Ring Crush Test) (PAP-2060B)**

Punch & Die cutter for Ring Crush Tester: The Precision Test Strip Punch & Die Cutters are intended for accurate and rapid preparation of test pieces for use in Ring Crush Tester. Sample sizes : 12.7 MM X 152 MM

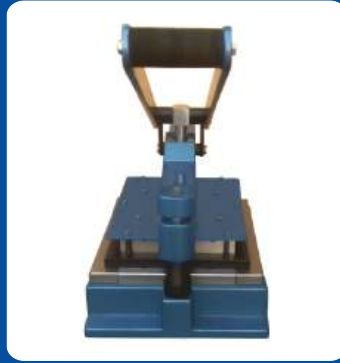


# PHYSICAL TESTING EQUIPMENT



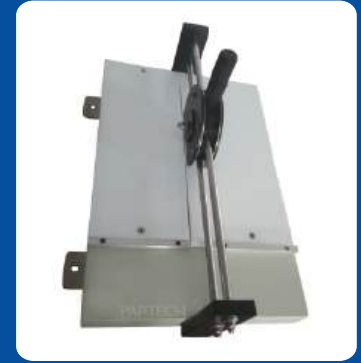
**Punch and Die Cutter**  
(for Ply bond Test PAP-2060C)

It is a manually operated circular (round) cutter with four knives along the perimeter. It is used for cutting circular sample of paper, board and similar materials.



**Punch and Die Cutter**  
(For A4 Sample Test) PAP-2060D

The Precision Test Strip Punch & Die Cutters are intended for accurate and rapid preparation of test pieces for use in A4 Cutter. Sample Size: 210 x 297 mm.



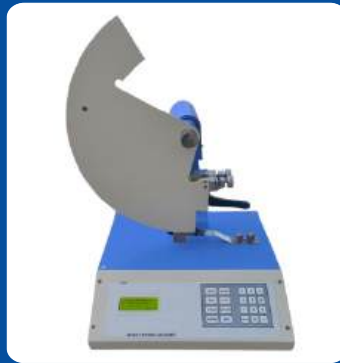
**Edge Crush Cutter**  
(PAP-2060E)

The Precision Test Strip Punch & Die Cutters are intended for accurate and rapid preparation of test pieces for use in Edge Crush Tester. Sample Size: 50 x 30mm.



**Tear Resistance Tester**  
(Elmendorf PAP-2064A)

Elmendorf Type Tear Resistance Tester: It is used for measuring the resistance against tearing of paper, board, plastic films and other similar materials.



**Tear Resistance Tester**  
(Digital - PAP-2064B)

The equipment is designed for measuring the resistance against tearing of paper, board, plastic films and other similar materials. The test is performed according to Elmendorf Principle.



**Tensile Strength Tester**  
(Vertical-PAP : 2065A)

A vertical tensile tester for paper is a specialized type of tensile testing machine designed specifically to evaluate the tensile strength and other mechanical properties of paper and paper products.



**Tensile Strength Tester**  
(Horizontal -PAP-2065B)

A horizontal tensile strength tester is a versatile and essential tool for measuring the tensile properties of materials in a horizontal orientation. It provides critical data for quality control, research & product development.



**Ring Crush Tester**  
(PAP-2071)

A ring crush tester (RCT) is a device used to measure the compressive strength of paper and paperboard. The test specifically measures the resistance of a paper sample to edgewise compression.



**Ply Bond Tester**  
(Manual-PAP-2072A)

The internal ply bond test measures the internal bonding strength of paper and paperboard. This test is crucial for evaluating the integrity and performance of multilayered paper products.

# PHYSICAL TESTING EQUIPMENT



Ply Bond Tester  
(Digital PAP-2072B)

A digital ply bond tester is an essential tool for measuring the internal bonding strength of paper and paperboard with high accuracy and efficiency. The digital capabilities enhance precision, data collection, and analysis, making it a valuable asset in the paper and packaging industries.



Ply Bond Tester  
(Pneumatic PAP-2072C)

Pneumatic Ply Bond Tester is designed for determining the Internal Bonding Strength of Paper, Paperboard and Laminates, by measuring the average energy, in thousands of foot pound required to delaminate the specimen in two piles, as described by the TAPPI Routine Control Method RC-308.

# BURSTING STRENGTH TESTER



Bursting Strength Tester  
(Analog - PAP-2056A1)

An analog single head single gauge bursting strength tester is a device used to measure the bursting strength or bursting factor of paper or cardboard. For corrugation boxes 0-35 kg/cm<sup>2</sup> For Paper 0-7 kg/cm<sup>2</sup>.



Bursting Strength Tester  
(Analog - PAP-2056A2)

Analog Type Bursting Strength Tester is intended for measuring the bursting strength of strong paper & Boards by submitting it to increasing uniform hydraulic pressure. Single head with double pressure gauge on wall :  
Gauge 1- 0-7 Kg/cm<sup>2</sup> Gauge 2- 0-35 Kg/cm<sup>2</sup>



Bursting Strength Tester  
(Analog - PAP-2056B)

An analog double head double gauge bursting strength tester is a versatile and reliable tool for industries requiring accurate material strength verification.  
Gauge 1- 0-7 Kg/cm<sup>2</sup>  
Gauge 2- 0-35 Kg/cm<sup>2</sup>

# PHYSICAL TESTING EQUIPMENT



**Bursting Strength Tester**  
(Digital PAP-2056C1)

A digital single head bursting strength tester is an advanced device used to measure the bursting strength of materials such as paper or cardboard.



**Bursting Strength Tester**  
(Digital PAP-2056D2)

A digital double head bursting strength tester is an advanced device used to measure the bursting strength of materials such as paper & cardboard both.



**Bursting Strength Tester**  
(Pneumatic PAP-2056E)

Pneumatic Single Head BF: A pneumatic single head bursting strength tester is a specialized device used to measure the bursting strength of materials such as paper or cardboard.



**Bursting Strength Tester**  
(Pneumatic - PAP-2056F)

A pneumatic single head bursting strength tester is a specialized device used to measure the bursting strength of materials such as paper or cardboard.

# PAPER TESTING EQUIPMENT



**Paper Testing Waxes**  
(PAP-6051)

Paper Testing Wax Pick: Paper testing waxes are vital tools in the paper industry for ensuring product quality and performance.



**Lab Air Knife Coater**  
(PAP-6053)

AIR KNIFE COATER is useful for 10" x 12" paper sheets and is crucial for screening tasks while testing papers, pigment coatings, and plastic dispersions in the laboratory.



**Lab Bar Coater**  
(PAP-6054)

Lab bar coaters are devices used to evenly spread a coating material onto a flat surface like paper, film, or foil, to create a consistent and uniform layer.

# PAPER TESTING EQUIPMENT



**Photovolt Type Brightness Tester Reflectance (PAP-2061)**

A photovolt brightness tester is a specialized instrument used to measure the brightness or whiteness of paper.



**Brightness, Opacity & Colour Tester (Technibrite -PAP-2061B)**

Technibrite brightness testers are essential tools for measuring the optical properties of paper and paperboard. They provide accurate and reliable measurements of brightness, whiteness, and opacity.



**Brightness Tester (ISO Type) (PAP-2061C)**

An ISO type brightness tester is a specialized instrument designed to measure the ISO brightness of paper and paperboard materials.



**Stiffness Tester (Taber Type) (PAP-2062)**

The Taber Stiffness Tester is a valuable tool for the paper industry, providing reliable measurements of paper stiffness essential for quality assurance.



**Tear Resistance Tester Digital Type (PAP-2062B)**

Digital stiffness testers offer high precision in measuring stiffness properties, enabling accurate characterization of materials.



**Dead Weight Thickness Micrometer (Automatic PAP-2063)**

A dead weight thickness micrometer is a valuable tool for measuring the thickness of materials with high precision and accuracy.



**Paper Ash Incinerator (PAP-2060)**

Paper Electric Incinerator is used for determining the ash content in paper, cardboard and other celluloses material by burning an exactly weighed quantity.



**Smoothness & Porosity Tester Gurley Type (PAP-2067A)**

A Gurley smoothness and porosity tester is a specialized instrument used to measure the smoothness and porosity of paper and other sheet materials.



**Smoothness & Porosity Tester Bendtsen (PAP-2067B)**

The Bendtsen smoothness and porosity tester is another important instrument used for measuring the surface smoothness and air permeability (porosity) of paper and board materials.



# PAPER TESTING EQUIPMENT



**Fluff Tester**  
(PAP-2069)

The Tester enables fluff to be measured easily after simulating the auction of printing press using a dry blanket. It is based on the concept of PIRA.



**Delmhorst Paper Moisture Tester**  
(PAP-2070)

Delmhorst moisture meters designed for the Hot & Cold Paper and corrugation industries. These meters are essential for ensuring that paper products and corrugated materials maintain optimal moisture levels, which is critical for quality control.



**Paper Surface Oil Absorbency**  
(Tester PAP-2073)

A paper surface oil absorbency tester is a specialized instrument used to evaluate the oil absorbency of paper surfaces.



**Folding Endurance Tester**  
(Kohler Molin- PAP-2074A)

It is used to measure the absorbency or resistance to liquid penetration of paper and paperboard. It's commonly used in the paper manufacturing industry.



**Folding Endurance Tester**  
(Schopper PAP-2074B)

The Schopper type folding endurance tester is a specialized instrument used to determine the folding endurance or folding strength of paper and paperboard materials.



**Oil Penetration Tester**  
William Type(PAP-2076)

The oil penetration tester is a specialized instrument used to measure the ability of paper and paperboard materials to absorb oils or other liquids.



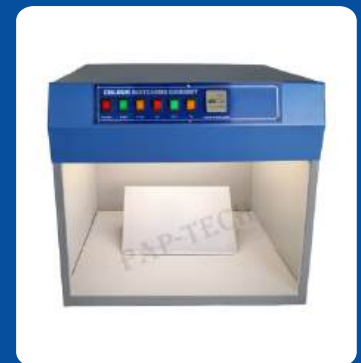
**Water Absorption Tester**  
(PAP-2078)

It is used for measuring the degree of water absorption to paper i.e. the capillary rise in millimeters by suspending a specimen in a vat filled with water.



**Gann Paper Moisture Meter**  
(PAP-2082A)

Gann moisture meters for paper and corrugated materials ensure that products meet quality standards by verifying their moisture content.



**Colour Matching Cabinet**  
(PAP-3072)

A color matching cabinet, also known as a light booth or color assessment cabinet, is a specialized piece of equipment used in various industries to evaluate and ensure accurate color reproduction.



# PULP TESTING EQUIPMENT



Freeness Tester (Mechanical)  
(PAP-3051A)

The Shopper Reigler Type Beating & Freeness tester measures the drainage capacity of beaten pulp and is universally used to check the progress of beating process.



Freeness Tester (Pneumatic)  
(PAP-3051B)

A pneumatic freeness tester is a specialized device used in the pulp and paper industry to measure the freeness or drainage rate of pulp suspensions.



Freeness Tester (Canadian)  
(PAP-3052)

The Canadian freeness tester, also known as the Canadian Standard Freeness Tester (CSF tester), is a device used in the pulp and paper industry.



Hand Sheet Former  
(PAP-3053)

A hand sheet former is a laboratory device used in the pulp and paper industry to produce standardized paper sheets from pulp samples..



Sheet Former Semi Automatic  
(PAP-3053B)

A semi-automatic sheet former is an advanced laboratory device used in the pulp and paper industry for creating standardized paper sheets from pulp samples.



Fiber Classifier  
(PAP-3054)

A fiber classifier, also known as a pulp classifier, is an essential laboratory instrument used in the pulp and paper industry to analyze the fiber composition of pulp samples.



Consistency Determination Apparatus  
(PAP-3055)

In the paper mill industry, consistency determination apparatuses are essential for monitoring and controlling the consistency of pulp and paper slurry during the manufacturing process.



Lab Beater  
(PAP-3056B)

It is a tool used for cutting paper into precise sizes. A fixed size spacer and holding plate are provided to facilitate the cutting of strip samples.



Laboratory Beater (PFI Mill)  
(PAP-3057)

A high-consistency beater that refines pulp by pressing it between a rotating roll and a stationary housings.

# PULP TESTING EQUIPMENT



**Lab Hydrapulper**  
(PAP-3058)

A lab hydrapulper is a specialized piece of equipment used in the paper and pulp industry for laboratory-scale pulping of various fibrous materials



**Microfiber Projector**  
(PAP-3059)

A micro fiber projector is a vital tool in the paper and pulp industry for analyzing the physical characteristics of individual fibers in a pulp sample.



**Wet Web Strength Tester**  
(PAP-3060)

The primary purpose of a wet web strength tester is to evaluate the tensile strength of a paper web while it is still wet.



**Pulp Disintegrator**  
(PAP-3062)

A pulp disintegrator is a laboratory device used in the paper and pulp industry to prepare pulp samples by disintegrating fibrous materials into individual fibers or fiber bundles.



**Rotary Digester**  
(PAP-3063)

A rotary digester is an essential piece of equipment in the pulp and paper industry, used for the chemical pulping process.



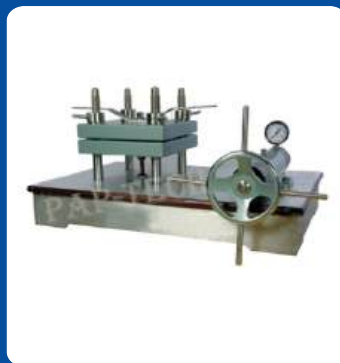
**Sheet Drying Cylinder**  
(PAP-3064)

A sheet drying cylinder, is primarily used in the production of tissue and other high-quality paper grades, where rapid and uniform drying is essential.



**Rapid Sheet Dryer**  
(PAP-3066)

Rapid drying enables researchers to process samples more quickly, increasing overall productivity in the laboratory.



**Laboratory Sheet Press**  
(PAP-3067A)

AA laboratory sheet press is a device used to compress and form thin sheets of paper. The main purpose of a laboratory sheet press is to apply uniform pressure to a sample to achieve specific characteristics.



**Laboratory Sheet Press**  
PAP-3067B

A laboratory sheet press is a specialized piece of equipment used primarily in the papermaking. It is designed to simulate the pressing process of paper sheets in a controlled laboratory environment.

# PULP TESTING EQUIPMENT



Research Digester  
(PAP-3068)

A research digester is used to convert wood chips or other fibrous materials into pulp.



Fiber Fractionator  
(PAP-3077)

A fiber fractionator is a specialized piece of equipment used in the papermaking industries to separate fibers based on their length, size, or other physical properties.



Flotation/ Deinking Cell  
(PAP-3080)

Flotation cells are used in a paper mill to remove ink particles from recycled paper pulp. This enhances the brightness and purity of the recycled fibers.

# PACKAGING TESTING EQUIPMENT



Box Compression Tester  
(PAP-4051)

A microprocessor-based box compression tester offers advanced features and automation, enhancing the precision and efficiency of testing Corrugated boxes & packaging materials.



Concora Medium Flutter  
(PAP-4053)

The Concora Medium Flutter (CMT) test is used to evaluate the quality and performance of corrugated medium, which is the fluted layer in corrugated board.



Carton Board Creaser  
(PAP-4054)

A carton board creaser is a device used in the packaging industry to create precise fold lines (creases) on carton board.

# PACKAGING TESTING EQUIPMENT



**Puncture Resistance Tester**  
(Manual PAP-4055)

Puncture resistance of paper boards is measured as the energy required to force a puncture head of specific design through a test piece of board under specified condition.



**Peel Seal Strength Tester**  
(PAP-4055)

A peel seal strength tester is a device used to measure the peel strength or adhesive strength of seals, laminates, and bonded materials.



**Drop Tester**  
(PAP-4057)

A drop tester is a device used to evaluate the impact resistance and durability of products. A device that releases the specimen to free fall, ensuring an accurate drop without initial velocity.



**Scuff Tester**  
(PAP-4059)

A scuff tester is a device used to evaluate the resistance of materials, such as printed packaging, labels, and coatings, to abrasion or scuffing.



**Vibration Tester**  
(PAP-4060)

Vibration test is carried out to assess the performance of a filled package in terms of its strength of protection that it offers to its contents when subjected to vibration.



**Pouch Burst Strength Tester**  
(PAP-4061)

A pouch burst strength tester is a device used to evaluate the burst resistance of flexible packaging materials, such as pouches, sachets, and bags.



**Core / Cone Collapsing Strength Tester**  
(PAP-4062)

A core cone compression strength tester is a device used to measure the compressive strength of paper cores or cardboard tubes.



**Ring Crush Tester**  
(PAP-2071)

The Ring Crush Test (RCT) is a standardized test that measures the edgewise compression strength of paperboard. It's particularly important in the packaging industry..



# ENVIRONMENTAL TESTING EQUIPMENT



## BOD Incubator (PAP-5051)

A BOD Incubator, which stands for Biological Oxygen Demand Incubator, is a specialized device used to maintain a controlled environment with specific temperature and humidity levels.



## Environmental Chamber (PAP-5052)

An environmental chamber, also known as a temperature and humidity chamber or climate chamber, is a controlled environment apparatus used for conducting various laboratory tests under specific temperature and humidity conditions.



## Hot Air Oven (PAP-5053)

A laboratory hot air oven is a device used for a variety of applications in laboratories. These ovens provide controlled heating and drying of samples & materials at room temperature to 250°C.



## Muffle Furnace (PAP-5054)

A muffle furnace is a laboratory instrument used to heat materials to extremely high temperatures whilst isolating them from fuel and the by products of combustion from the heat



## Digital Bomb Calorimeter (PAP-5055A)

A bomb calorimeter is a device used to measure the heat released or absorbed in a chemical reaction, particularly combustion reactions.



## Automatic Bomb Calorimeter (PAP-5055B)

A bomb calorimeter is a device used to measure the heat released or absorbed in a chemical reaction, particularly combustion reactions.



## PH Meter (Table Top) (PAP-5056A)

A pH meter is a scientific instrument used to measure the acidity or alkalinity of a liquid solution. pH is a measure of the concentration of hydrogen ions in a solution.



## Digital Conductivity Meter (PAP - 5057)

A digital conductivity meter is an instrument used to measure the ability of a solution to conduct electrical current, which depends on the concentration of ions present in the solution.



## Dissolved Oxygen Meter (PAP-5060)

A dissolved oxygen meter is an instrument used to measure the concentration of dissolved oxygen (DO) in water.



Manufacturer of Paper & Packaging Lab Testing Equipment.  
Dealing in Complete Paper & Pulp Mill Machineries.  
Supply Paper Mill Machineries on Turn Key Basis.  
Experience of 35+ Years in Paper Industry.  
Provide Consultancy Solutions.

# PAP-TECH

## ENGINEERS & ASSOCIATES

### ABOUT US-

As a leading organization of this domain, we are engaged in Manufacturing & Exporting of Quality Lab Testing Equipment used for Paper, Pulp & Packaging Industry. Also we Import Paper & Pulp Mill Machineries along with all its Spare Parts.

### SOCIAL MEDIA HANDLES-



@paptechengineers

### YouTube QR Code-



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