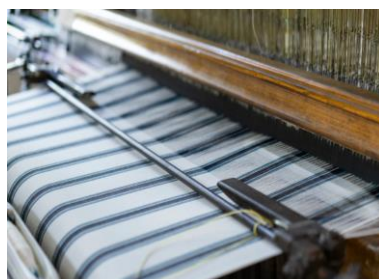


TESTING INSTRUMENTS FOR  
*A MEASURABLE DIFFERENCE...*

**IDM**  
instruments

# TEXTILE INDUSTRY INSTRUMENTS



**CATALOGUE**

## ABOUT US

IDM Instruments Pty. Ltd. is a leading manufacturer of testing and measurement instruments. With over 49 years of experience, we have successfully delivered testing solutions to leading global companies.



Since 1972



Testing Standards Accredited



Global Presence



Custom Manufacturing



Lifetime support



1-year Warranty



Calibration & Maintenance



Trusted by Leaders

## KEY BUSINESS AREAS

We are proudly Australian owned and managed. Started in a humble garage in 1972, we have grown our business into diversified markets and areas including but not limited to:

- Testing Instruments & solutions
- Sensors
- Manufacturing
- Services & Support



**GELBO FLEX TESTER WITH PARTICLE COUNTER**

MODEL NO: G005

The Roller Shear Machine is used to determine the resistance to compression fatigue of flexible cellular polyurethane using dynamic roller compression testing. The Roller Shear Machine fatigues a specimen dynamically with a constant force deflecting the material both vertically and laterally. It has been used for many years in the foam industry to determine the percentage loss in thickness.



**LAMINAR FLOW CABINETS**

MODEL NO. G0005-  
OP3

Room air is taken from the top of the clean bench through a disposable pre-filter with 85% arrestance. The air is forced evenly across the ULPA filter, creating a clean stream of air within the work zone.

For use with Gelbo Flex Tester – G0005



**AIR PERMEABILITY TESTER**

MODEL NO. A0003

The fully automatic Air Permeability Tester can quickly and accurately assess air permeability of various materials such as woven fabrics, knitted fabrics, non-woven fabrics, industrial filter materials, as well as foam products.



**HYDROSTATIC HEAD TESTER**

MODEL NO. H0003

The Hydrostatic Head Tester is used to determine the resistance of textile fabrics to penetration by water at a constant rate of increase of pressure. The hydrostatic pressure supported by a fabric is a measure of the resistance to the passage of water through the fabric.



**HYDROSTATIC PRESSURE TESTER**

MODEL NO. H0004

This apparatus is used to determine the resistance of textile fabrics to penetration by water at a constant rate of increase of pressure. A manual version of the Hydrostatic Head Tester, the user operates the hand pump.



#### STIFFNESS OF CLOTH TESTER

MODEL NO. S0013

The Stiffness of Cloth Tester is used to determine the bending length of a cloth by means of a fixed angle flexometer and for calculating its flexural rigidity and bending modulus. These quantities are related to the stiffness of cloth.



#### STIFFNESS OF CLOTH TESTER – MOTORIZED

MODEL NO. S0015

The Stiffness of Cloth Tester Motorised is used to measure the stiffness of non-woven fabrics, by means of cantilever bending of the fabric under its own weight; thus, calculating the bending length and flexural rigidity.



#### SEAM FATIGUE TESTER

MODEL NO. S0014

This Seam Fatigue Tester was designed to test the strength of a sewn seam in a fabric, such as in vehicle seating covers. It operates by lifting a 3kg weight using the sewn fabric as a 'tow rope'. The 3kg mass is dropped onto a shelf at the end of each stroke and lifted again by the fabric. The shelf height is adjustable so that the mass can be set down gently without too much jerk. The machine is double-ended and two sets of specimens can be tested at each end.



#### MARTINDALE ABRASION TESTERS

MODEL NO. F0013

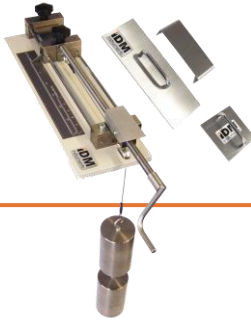
These units are available in 6, 8 or 9 workstations. These instruments are used for testing the wearability and pilling properties of wool, wool blended, woven, knitted and non-woven fabrics. The units have 2 Lissajous trajectory and a reciprocating linear track (capable of round tracking movement). Repeatability of a single procedure or three velocities can be set as the instrument has six operational preset procedures.



#### TETRAPOD ABRASION TESTER

MODEL NO. F0021

The Tetrapod Abrasion Tester tests the mechanical action on surface texture of textile carpet. A cylindrical drum, is rotated so that the tetrapod 'walks' over the specimens. The appearance of the tested specimen is compared to that of a concurrently tested controlled specimen.



**EXTENSOMETER FOR FABRIC**

MODEL NO. E0004

The Extensometer for Fabric stretches a specimen by applying a specified load; thus the extension is observed and the tension removed. The length of the un-stretched specimen is observed after recovery.



**FABRIC VERTICAL BURN TESTER**

MODEL NO. F0007

The Fabric Vertical Burn Tester measures the flame spread properties of vertically oriented textile fabrics intended for apparel, curtains and draperies in the form of a single or multi component fabrics. A textile is held vertically in a frame. A small flame is used to ignite the specimen and the time is measured for the flame to spread up the specimen.



**DIGITAL CROCKMETER**

MODEL NO. C0019

The Crockmeter is designed to determine colour fastness from dry or wet tests. A test specimen is clamped to the base plate, where a peg is moved back and forth over the test specimen.



**COLOUR CHECK CABINETS**

MODEL NO. C0048

Used for assessing colour changes under different light sources, to determine suitability of materials for industrial applications where there is the need to maintain colour consistency and quality. Fluorescent daylight, incandescent and optional black light may be used either individually or in combination.



**FLEXIBILITY & SURFACE FRICTION TESTER**

MODEL HANDLE-O-METER

Handle-O-Meter measures "handle" which is the combined effects of flexibility and surface friction of sheeted material such as nonwovens, tissue, toweling, film and textiles. The data generated has been shown to correlate well with the actual performance of the material in production processes and finished product performance.



### COLOUR COMPARATIVE SYSTEM

MODEL  
COLORSTRIKER

The ColorStriker is user-friendly and can be used in various industries to test almost any material or surface type, including textiles, leather, paint, varnishes, wood, tiles, plastics and more. Users can easily create and manage a custom colour archive. With the integrated texture library, the desired colour effect can be checked on screen for a wide variety of applications (ie. Wood chips, textile materials, leather etc).



### COLOUR ANALYZER

MODEL NO. RBG-  
1002

The Constant Deflection Static Force instrument determines the loss of indentation force deflection (IFD), loss of thickness and the structural breakdown by visual assessment of polyurethane.



### DRYING CABINET

MODEL D0012

The High Speed Mixer is used for the rapid mixing of foam compounds to produce a well-mixed sample pat, which can be poured to form a sample for testing purposes and quality control. It is made from Stainless Steel for easy cleaning, and featuring automated mixing, as well as variable mixing speeds for added ease of use.



### COLOUR FASTNESS TESTERS

MODEL NO. C0010

The Colour Fastness Tester is one of a series for determining the colour fastness of textiles to various agencies. It determines the colorfastness of textiles to light using an artificial light source.



### WRAP REELS

MODEL NO. WR T1/  
WR-T2

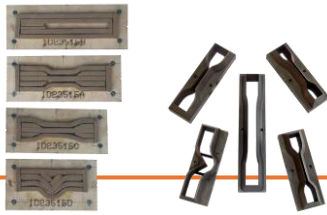
Highly efficient, reliable in performance and have a longer service life, these high quality Wrap Reels are used to make yarn lea or hank of yarn for checking yarn count and strength/ CSP of lea. Easy to use and maintain, these Wrap Reels are recognized for their low power consumption and unmatched quality.



### UNIVERSAL TESTING MACHINES

VARIOUS OPTIONS

IDM provides a range of UTM's which feature multiple testing capabilities including compression testing and tensile testing. UTM's eliminate the need of having multiple machines to perform various tests (i.e. compression and tensile). UTM's offer versatility and the ability to set up dual tests to speed up test set up, production & ultimately reduces operator fatigue & possible setup errors.



### CUTTING DIES

VARIOUS OPTIONS

Tool Steel and Ruler Dies of standard and custom sizes can be used and interchanged with ease, allowing a large range of dies to be used with any press. These dies are manufactured as per samples sizes mentioned in various testing standards.



### SAMPLE CUTTING PRESSES

VARIOUS OPTIONS

IDM offers a range of sample cutting presses which are fast and easy to operate. Used for sample preparation of various sized test pieces. The cutting dies are manual, hydraulic, pneumatic. Available in various capacities to suit all sample preparation requirements.



### THICKNESS GAUGE FOR HIGH LOFT PRODUCTS

MODEL NO. T0022

This unit has been designed to measure the thickness of high loft nonwoven material, by means of a digital readout. Thickness is determined by observing the linear distance that a moveable plane is displaced from a parallel surface by the specimen while under a specified pressure. Thickness is one of the basic physical properties of High loft Nonwoven fabrics. In certain industrial applications, the thickness may require rigid control within specified limits.



### THICKNESS GAUGES - HAND HELD

MODEL NO. T0014

Handheld Thickness Gauges can be used on many different materials where an accurate measurement of thickness is required. Different models are available depending on weight and contact point required.



**CIRCULAR HAND CUTTERS**

MODEL NO. C0038

The Circular Hand Cutters are fast and easy to operate, creating accurate circular samples in various different mediums. They are available in several different sizes (including custom sizes) for suitability to many different tests.



**CUTTING TEMPLATES - STAINLESS**

MODEL NO. C0034

Manufactured from stainless steel with an easy to grip handle to provide a consistent cut out shape for example; Coefficient of friction testers, Colour fastness tester, etc.



**SAMPLE CUTTING PRESSES**

VARIOUS OPTIONS

IDM offers a range of sample cutting presses which are fast and easy to operate. Used for sample preparation of various sized test pieces. The cutting dies are manual, hydraulic, pneumatic. Available in various capacities to suit all sample preparation requirements.



**THICKNESS GAUGE FOR SOFT UNDERLAY**

MODEL NO. T0014

This unit has been designed to measure the thickness of high loft nonwoven material, by means of a digital readout. Thickness is determined by observing the linear distance that a moveable plane is displaced from a parallel surface by the specimen while under a specified pressure. Thickness is one of the basic physical properties of High loft Nonwoven fabrics. In certain industrial applications, the thickness may require rigid control within specified limits.



**ELMENDORF TEAR TESTER**

MODEL PROTEAR

The ProTear Tester quickly and accurately measures the tear resistance of sheet materials including paper, textiles, roofing products, film and foils. Three models are available, Electronic ProTear, Mechanical ProTear and the Heavy-Duty ProTear.



## QUALITY EXCELLENCE ASSURED

The IDM Preventive Maintenance and Calibration (PM&C) program has been designed to make the maintenance and calibration of your valuable testing equipment more cost effective by preventing breakdowns and downtime by regular calibration, service and replacement of defective parts.

We have successfully executed this program with the help of 38+ representatives spread across the globe. PM&C team members are supplied with the necessary resources to main our testing equipment at peak performance throughout thier lifetime, benefiting both you and your equipment. Testing equipment in your facility (or at IDM) will be calibrated using industry-wide, internationally recognised standards or as per your specific requirements.

Calibrated instruments are labelled accordingly and documented with an IDM full calibration report or certificate of conformance (whichever is applicable). All calibrations are maintained in IDM's calibration database and you will be notified when your next service/calibration is due. IDM's Calibration work is comprehensive- adjusting your equipment to give you the right results, whenever possible.

For over 49 years now, the IDM name and brand has grown across the globe. Our commitment to quality and providing the measurable difference reflects upon our customers' satisfaction. We look forward to continuing to provide our expertise and assisting you with your next requirement. Speak to IDM today, and see how an IDM testing instrument will benefit your quality control process.

## INDUSTRIES & APPLICATIONS



Printing



Paper



Plastic



Foam & Mattress



Textiles



Rubber



Packaging



Research & Laboratory

& many more....

TESTING INSTRUMENTS FOR  
*A MEASURABLE DIFFERENCE...*

**IDM**  
instruments



TESTING INSTRUMENTS | SENSORS | MANUFACTURING | SERVICE & SUPPORT

IDM INSTRUMENTS PTY LTD  
10 - 11 Colrado Court  
Hallam, Victoria 3803 Australia  
Tel: +61 3 9708 6885  
E: [sales@idminstruments.com.au](mailto:sales@idminstruments.com.au)  
[www.idminstruments.com.au](http://www.idminstruments.com.au)