



IDM[®]
instruments

UPDATE

An edition of our latest news...

NEW DEVELOPMENTS:

Digital Micrometer



The Digital Micrometer automatically cycles up and down at the push of a button, providing an accurate thickness reading at the end of each cycle. It is provided with two plane, parallel, circular pressure faces, between which the paper or board is placed for measurement. The pressure exerted between the pressure faces during the thickness measurement can be 50 ± 2 kPa or 100 ± 10 kPa. Manufactured with reference to various standards, the Digital Micrometer features a range of 0 -12mm, anvil of 55mm Ø, pressure foot of 16mm Ø and a lowering speed of 0.8 ± 0.1 mm/sec. It also has an RS232 option, which gives users the added benefit to link the unit to an external PC or printer.

Rapid Conditioning Cabinet



The Rapid Conditioning Cabinet has been specially designed and manufactured to pre-condition paper samples in an approximate 30 minute period. It conditions to the standard laboratory environment, by using the Laboratory air as the final conditioning process, prior to physical testing. Benefits of the Rapid Conditioning Cabinet include reducing waste, reducing reject rolls, speeding up roll acceptance, speeding up the turnaround of test results and minimising test variability due to moisture content. It features push button start, industrial digital temp controller which is fully programmable, as well as 6 sample holders measuring 317mm x 317mm.

MARK-10

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Hydrostatic Head Tester



This apparatus 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. A specimen is subjected to a uniformly increasing pressure of water on one face, under standard conditions, until penetration occurs in three different places.

The hydrostatic pressure at which water penetrates the fabric at the third place is noted. It is applicable to all fabrics which are water repellent or coated to impart resistance to water penetration. The instrument is manufactured with relevance to BS 3424 part 26 and AS 2001.2.17 test standards. It features stainless steel test head, high and low analogue pressure gauge, water explosion container cover and an overflow tray.

Dead Weight Compression Tester



The Dead Weight Compression Tester is designed to perform either as a single test to investigate the effect of deformation, creep, collapse or failure as part of a sequence of tests designed to measure the ability of a package, to withstand a distribution system that includes a compression hazard. The Dead Weight Compression Tester may also be used to investigate performance under particular conditions of loading, as for example, when the bottom package in a

stack rests on an open-decked pallet. It can be used on carton boxes and corrugated boxes for packaging, with a range of 500kg as per AS 2582.3 test standard.

SPECIAL OFFER 20% OFF*

- Thickness Gauge Digital Indicator & Stand: **Model T0013**
- Coefficient of Friction Tester: **Model C0008**
- Cutting Press Pneumatic: **Model C0050**
- Gelbo Flex Tester: **Model G0002**
- Ink Rub Tester: **Model I0001**
- Colour Check Cabinet: **Model C0048**
- Hot Tack Tester: **Model H0005**

* Offer Valid exclusively until 29th February 2008

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MARK-10

Programmable Force Test Stand



The ESM300 is a highly configurable motorized test stand for tension and compression applications up to 300 lbF (1.5 kN). This tester introduces a unique concept in force testing: all major controller software features are optional and may be purchased at time of order or added by the user in the field at a later date. Such flexibility makes the ESM300 a highly versatile tester that can be as basic or advanced as required, from basic push/pull requirements to advanced sequences for demanding test procedures. When fully equipped, the stand has a class-leading speed range, programmable cycling sequences with dwell time at limits, auto-return, button control options, password protection, and more. An LCD with intuitive menu navigation and modular mechanical design round out the exciting features of this programmable force tester.



Formula SAE Sponsorship

Celesco & IDM recently sponsored the University of Adelaide Racing Concept with MLP-100 units for the Formula SAE worldwide competition. Celesco linear potentiometers complement UARC's data acquisition system, providing realtime data on the performance of the vehicle. Parameters such as shock absorber displacement and velocity are monitored to observe the cornering attitude of the vehicle, emphasising roll, bump and rebound characteristics. This performance data is then analysed in software packages, leading to changes to shock absorber damping performance, and decreasing lap times. In addition, future UARC designs will benefit from vehicle dynamics knowledge gained from the data, leading to vehicle designs further optimised for the FSAE competition.



For further information on Mark-10 or Celesco, please contact IDM Instruments.

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