SDL ATLAS®
TEXTILE TESTING SOLUTIONS

BURSTING STRENGTH TESTERS

Bursting Strength Testers

SDL Atlas offers two options for evaluating bursting strength: the Autoburst and the PnuBurst. Both employ the use of a rubber diaphragm that expands to stretch the sample until there is a rupture. Both measure the bursting pressure and distension height of multiple samples and then calculate an average bursting strength after subtracting the pressure to expand the bare diaphragm. The Autoburst is a heavy duty hydraulic system while the PnuBurst is pneumatic and offers additional testing capabilities.

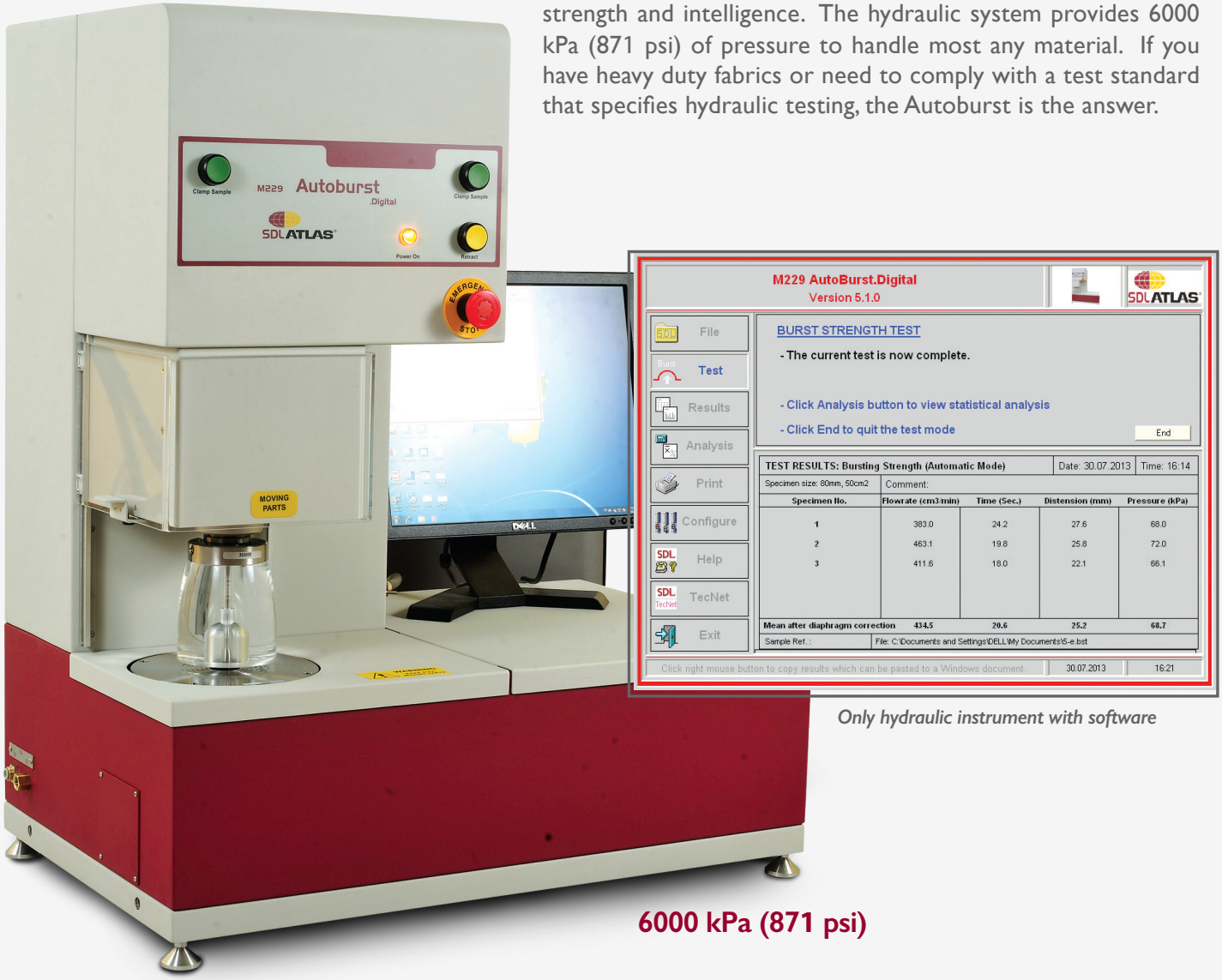
Both the Autoburst and PnuBurst feature:

- **Automatic Flow Control** – to ensure the burst happens in the required window of time as prescribed by the selected standard.
- **Automatic Diaphragm Correction** – to subtract the pressure it takes to inflate the bare diaphragm from test results to achieve real bursting strength measurements.
- **Automatic Bell and Ring Detection** – the controller will read the bell and clamping ring sizes and ensure they match.
- **Results Analysis** – Included software provides full analysis of multi-sample test results including each sample and mean and standard deviation.

Easy change bells for both instruments

Autoburst Hydraulic Bursting Strength Tester

The Autoburst gives unmatched performance in bursting strength and intelligence. The hydraulic system provides 6000 kPa (871 psi) of pressure to handle most any material. If you have heavy duty fabrics or need to comply with a test standard that specifies hydraulic testing, the Autoburst is the answer.



Only hydraulic instrument with software

6000 kPa (871 psi)

STANDARD

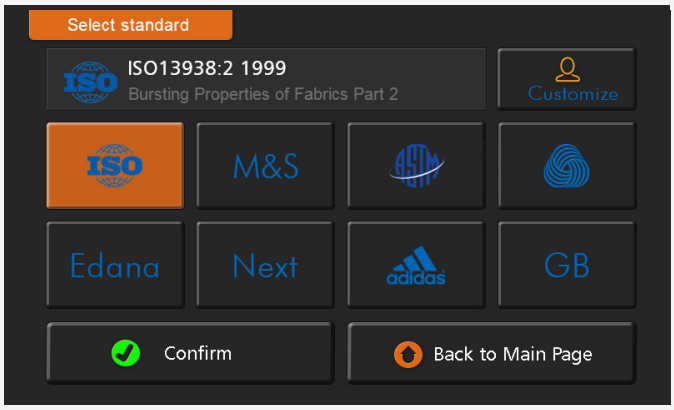
TEST HEAD SELECTION

	30.5 mm (7.3 cm^2)	31 mm (7.55 cm^2)	31.5 mm (7.8 cm^2)	35.7 mm (10 cm^2)	79.8 mm (50 cm^2)
ASTM D3786		●			
BS 3424-6-B	●		●	●	
EN 12332-2				●	
ERT 80-4-20			●		
FZ/T 01030	●				
ISO 13938-1	●			●	●
ISO 3303-B			●		
GB/T 7742.1					●
WSP 030.1.R3 (12)	●		●		
WSP 030.2.R3 (12)	●			●	●
Distension Height	40 mm	40 mm	40 mm	40 mm	70 mm

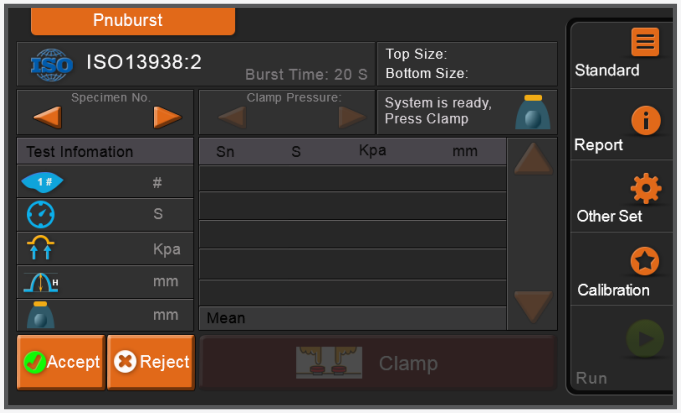
This list of standards is a partial listing of the most common textile standards. The instrument can also be used for packaging, paper, plastic and foil.

PnuBurst Pneumatic Bursting Strength Tester

The PnuBurst provides unparalleled capabilities in a pneumatic bursting tester. The full-color touch screen controller is very easy to use and provides full test controls including clamping pressure and Marks & Spencer controls. A laser measurement system is used for distension height. The PnuBurst has great power for a pneumatic tester with 1500 kPa (200 psi).



Preprogrammed test routines



Easy touch screen for running and viewing results

1500 kPa (200 psi)

STANDARD

TEST HEAD SELECTION

	30 mm (7.1 cm²)	30.5 mm (7.3 cm²)	31 mm (7.55 cm²)	35.7 mm (10 cm²)	79.8 mm (50 cm²)	80 mm (50.3 cm²)	113 mm (100 cm²)
adidas 4.09					•		
ASTM D3786			•				
EDANA 80.4			•	•			
GB/T 7742.2		•			•		•
ISO 13938-2		•		•	•		•
M&S P27	•					•	
Next 22	•						
Woolmark TM 29			•				
Distension Height	40 mm	40 mm	40 mm	40 mm	70 mm	70 mm	70 mm

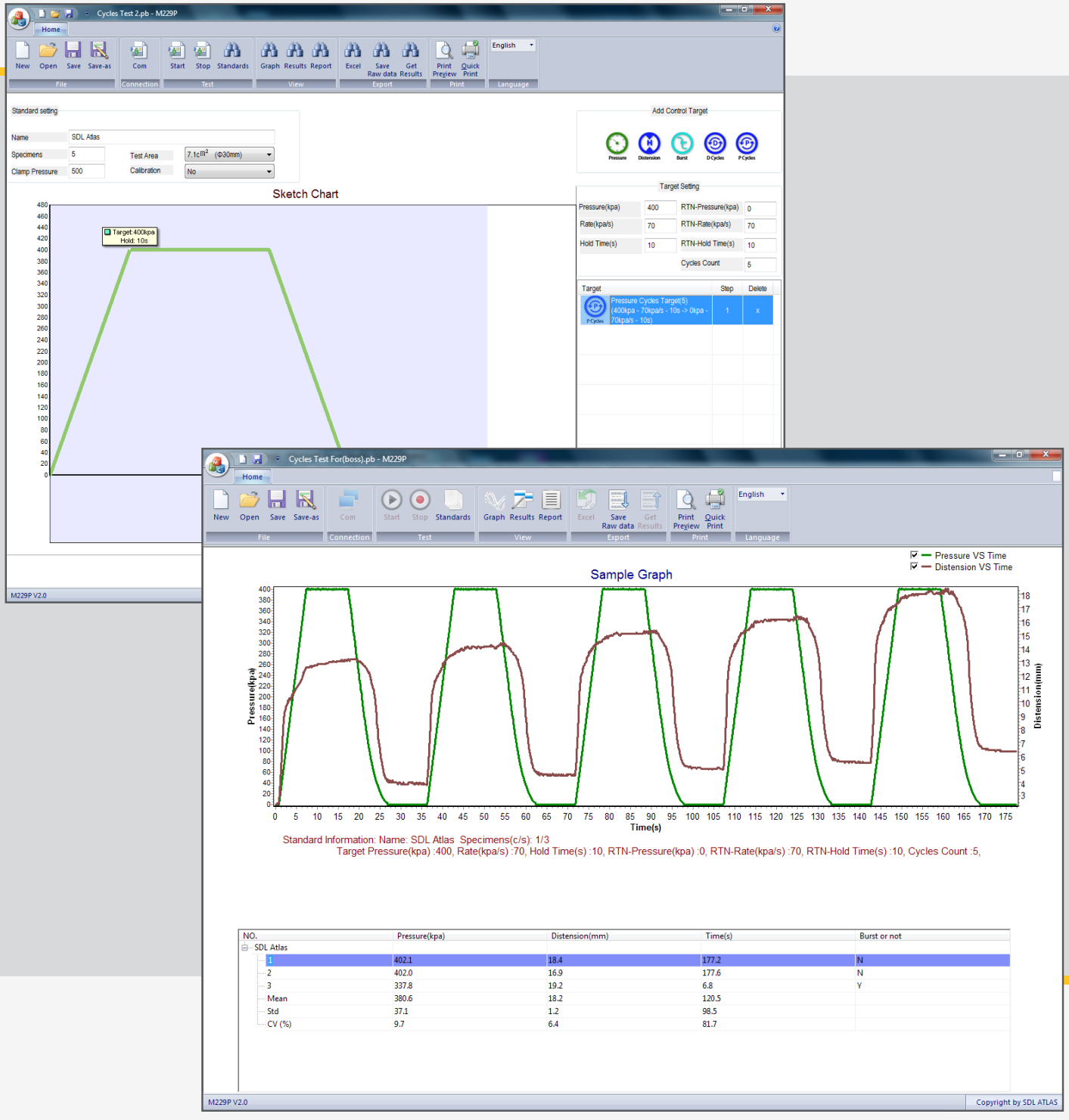
This list of standards is a partial listing of the most common textile standards. The instrument can also be used for packaging, paper, plastic and foil.

Elastic Fabrics

Elastic Fabrics – There is now a better way to test elastic fabrics. Traditional methods pull them in a single direction such as a dead weight or a cyclic test on a tensile tester. The PnuBurst allows users to see how elastic fabrics respond to being stretched in 3 dimensions – just like our bodies do to clothing.

The **ElastiTest software** for the PnuBurst gives users the ability to subject a sample to multiple stretches. Specific test routines can be programmed to determine the number of cycles, hold period at maximum stretch, and stretch and release rates. The user also selects if they want to maintain either the maximum distension height or the maximum pressure for each cycle.

The charts and data are shown on a PC that is connected to the PnuBurst. Data will show how well a fabric maintains its elasticity, strength, and recovery ability while being subjected to 3 dimensional forces.



Providing Confidence

For over 60 years, the SDL Atlas companies have been providing confidence in standard based testing through expertise and global partnering. Our customers can be assured that they are making informed decisions based on accurate test results.

SDL Atlas experts work closely with standards committees and retailers on development of standards. Our engineers develop instruments to meet these standards. Our service team calibrates the instruments to exacting UKAS and internal standards. High quality test materials that are consistent from batch to batch are also produced and distributed by SDL Atlas.

Test Materials

Test materials are a critical part of many textile tests. SDL Atlas produces and distributes a complete line of test materials. Each batch is thoroughly tested to ensure conformity and consistency from batch to batch.

Test materials selection include:

- Multifiber
- Cork Liners
- Abradents
- Phenolic Yellowing
- Detergents
- Ballasts
- Crocking Fabric

Calibration & Service

- UKAS calibration
- ISO calibration
- Service support
- Factory trained representatives
- SDL Atlas service technicians

With UKAS accredited technicians located in Europe, Asia, and North America, we are prepared to support our customers in maintaining their investment and their confidence in their test instruments. SDL Atlas calibration certificates are accepted by all accreditors.

Providing confidence in standard based testing through expertise and global partnering

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TEXTILE TESTING SOLUTIONS

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