

# TruBurst

INTELLIGENT BURSTING STRENGTH TESTER



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The World's Premier Textile Testing Equipment Company James H. Heal has promoted Bursting Strength into the premier league of Textile Testing with the introduction of TruBurst – the Intelligent Bursting Strength Tester.

The fully pneumatic instrument comfortably exceeds the exacting requirements of the latest ISO 13938-2 standard and the company's own renowned standards for quality and performance.

The inherent flexibility of TruBurst enables testing of a broad range of materials from the textile, non-woven, paper, board and plastics industries.

HEALS' inspired, multi-talented design team has united digital microprocessor control with the latest design technology to realise an extraordinary breadth of creative and innovative features.



> **DISTENSION MEASUREMENT UP TO 70mm**

> **LINEAR PRESSURE INCREASE**

> **AUTOMATIC DIAPHRAGM CORRECTION**

> **1,250 kPa BURSTING PRESSURE CAPABILITY**

> **COMPREHENSIVE STATISTICAL ANALYSIS**

> **TOOL-FREE CHANGE OF DOME ASSEMBLIES AND DIAPHRAGMS**

> **ADVANCED MODEL FOR INTERFACE TO PRINTER AND COMPUTER**

> **MULTILINGUAL, MENU-DRIVEN SOFTWARE**

> **FULLY PNEUMATIC FOR CLEAN AND SAFE OPERATION**

> **UKAS CALIBRATION**



# TRUBURST – EXCEEDING NEW STANDARDS IN BURSTING STRENGTH TESTING

TruBurst's contemporary, bench-top design sets it apart from the competition – and its extraordinary range of uniquely innovative features demand close attention from every discerning testing professional.



## MULTILINGUAL, MENU-DRIVEN SOFTWARE

The backlit, graphical user interface presents the software in a choice of 5 languages, and is quickly mastered by a competent operator. The 10 editable pre-set Standards can be easily reset to the default factory settings.



## TOOL-FREE CHANGE OF DOME ASSEMBLIES AND DIAPHRAGMS

An innovative magnetic coupling eliminates the need for any tools when changing Dome Assemblies or Diaphragms.





#### DISTENSION MEASUREMENT:

TruBurst utilises a high acceleration linear potentiometer to measure distension to an accuracy of  $\pm 0.5\%$ . Distension of up to 70mm can be achieved on the larger Dome Assemblies.

#### LINEAR PRESSURE INCREASE:

To achieve bursting within a specified time, the digital microprocessor monitors and adjusts a proportional control valve to maintain a linear pressure rate rise. This ensures maximum repeatability and avoids the variability of conventional systems.

#### AUTOMATIC DIAPHRAGM CORRECTION:

The testing procedure automatically subtracts the pressure required to distend the diaphragm and TruBurst then calculates the true bursting strength.

#### 1,250 kPa BURSTING PRESSURE CAPABILITY:

Typically, laboratory air pressure is 600-700 kPa (6-7 bar); this is perfectly suitable for the majority of applications. However, the near silent, optional compressor increases the maximum available bursting pressure to 1,250 kPa (12.5bar), this makes TruBurst ideal for more specialist materials and applications.

#### COMPREHENSIVE STATISTICAL ANALYSIS:

Ensuring every aspect of testing and research is accommodated, the Advanced TruBurst Model 610 calculates Mean, Maximum, Minimum, Range, Standard Deviation, Coefficient of Variation and 95% Confidence Limits.

#### AUTOMATIC CONVERSION FACTORS:

Bursting pressure results can be reported in any of the following units: kPa, kg/cm<sup>2</sup>, PSI, bar and kN/m<sup>2</sup>. Conversion to alternative units does not require the test to be repeated.

#### MAXIMUM EFFICIENCY:

Hands-free clamping using the standard footswitch, unrestricted access and automatic clamp retraction maximise operator efficiency.

#### CLEAR VISION:

Dome Assemblies designed to minimise optical distortion and a specimen illuminated by the latest semiconductor white-light technology, allows clear observation during a test.

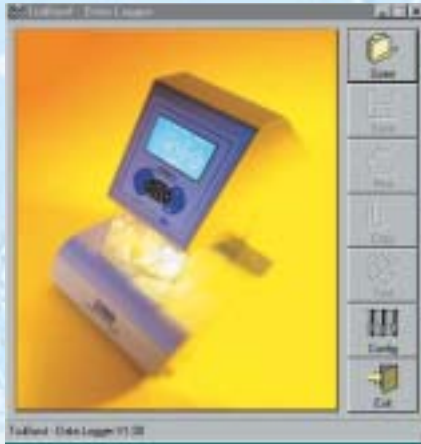
#### DIAPHRAGM MONITORS:

The intelligent diaphragm counter automatically detects the specimen size and records the number of times each associated diaphragm is deployed.



# TRUBURST – ADVANCED MODEL 610

In addition to providing comprehensive statistical analysis, the Advanced Model enables printing of test reports, either direct to the optional special printer (no computer required) or to any printer via a connected Windows 95/98/ME/NT/2000 computer. Connection to a computer also enables storage of test reports and keyboard entry of text/parameters. The Healsoft application currently offers a choice from 5 languages.



An RS232 serial interface cable and CD-ROM is supplied with Model 610 for easy connection to a computer. The Healsoft application, which is perfectly integrated with TruBurst, features automatic transfer of test data and if selected, automatic printout of each test report. Based on familiar Windows terminology the application is simple, intuitive, and quickly mastered by a competent operator.



Test reports can be printed to any local or networked printer.



The computer keyboard simplifies text/parameter entry to personalise test reports and aid identification of individual tests.



The test report can be copied in whole or part to any Windows application, via the clipboard or using the drag & drop feature.



Test reports can be archived either on the connected computer or any other on the network.

## TRUBURST – INTELLIGENT BURSTING STRENGTH TESTER...

### How to Order

MODEL RANGE	
905-501 Standard TruBurst – Model 600	905-502 Advanced TruBurst – Model 610
KEY ACCESSORIES	OPTIONAL ACCESSORIES
<b>794-663</b> 7.3 cm <sup>2</sup> Dome Assembly <b>794-662</b> 10 cm <sup>2</sup> Dome Assembly <b>794-661</b> 50 cm <sup>2</sup> Dome Assembly <b>794-660</b> 100 cm <sup>2</sup> Dome Assembly <b>777-133</b> Pack (10) diaphragms	<b>201-600</b> UKAS Calibration Certificate <b>195-331</b> Printer & Cable for Advanced TruBurst only <b>783-225</b> 1,250kPa Compressor <b>794-664</b> 2-Year Spares Kit



0610  
0610SI

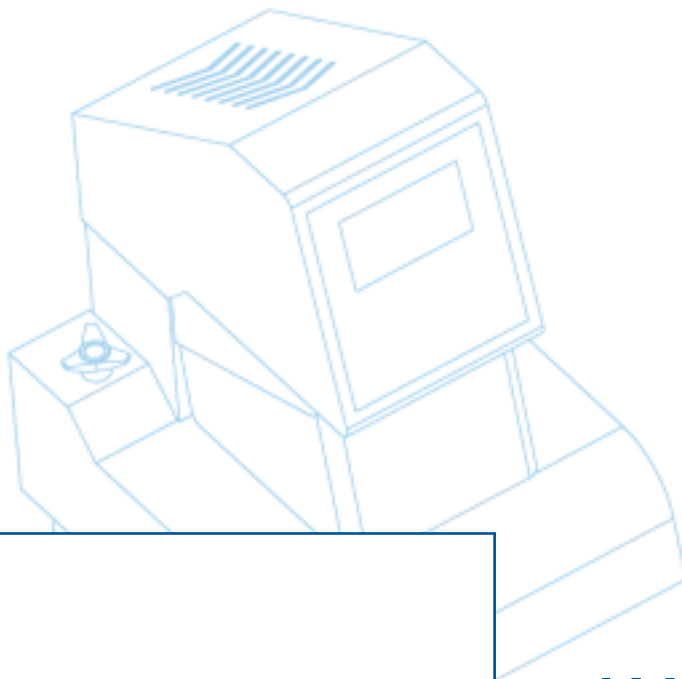


Healink offers a totally comprehensive, worldwide support programme; providing a full range of support services designed to maximise the potential of your testing resources.



# technical data

	<b>kPa</b>	<b>kg/cm<sup>2</sup></b>	<b>PSI</b>	<b>bar</b>	<b>kN/m<sup>2</sup></b>
<b>Maximum Pressure*</b>	1,250	12.74	181.3	12.5	1,250
<b>Resolution</b>	0.3	0.003	0.04	0.003	0.3
<b>Pressure rise/second</b>	1 to 100	0.01 to 1	0.2 to 20	0.01 to 1	1 to 100
<b>Dome Assembly Diameter</b>	30.5mm	35.7mm	79.8mm	112.8mm	
<b>Specimen Area</b>	7.3cm <sup>2</sup>	10cm <sup>2</sup>	50cm <sup>2</sup>	100cm <sup>2</sup>	
<b>Maximum distension</b>	20mm	25mm	70mm	70mm	
<b>Distension resolution</b>	0.02mm				
<b>SAFETY</b>	Interlocked Safety Guard. Complies with CE Directives				
<b>PHYSICAL DATA</b>	Width 400mm    Depth 500mm    Height 600mm    Weight 48Kg				
<b>POWER SUPPLY</b>	Universal mains input: Single phase 85-264V AC 50-60 Hz				
<b>POWER RATING</b>	40 Watts				
<b>AIR SUPPLY</b>	Optional 1,250 kPa compressor or a factory supply with a minimum pressure of 600 kPa (6 bar) and a minimum free air delivery of 28 litres per minute.				
<b>OPTIONAL PRINTER</b>	Epson ESC/P2 emulation with parallel port, for the Advanced Model only				
	*Subject to a suitable air supply				



**AGENT**

*We reserve the right to alter the specification or modify the appearance without notice.*

**JAMES H. HEAL**   
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