

# Impulse

RANDOM TUMBLE PILLING TESTER



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The World's Premier Textile Testing Equipment Company James H. Heal conclude their Pilling trilogy with the launch of Impulse, a Random Tumble Pilling Tester designed to comply with Part 3 of ISO 12945. Incorporating the requirements of ASTM D3512, Part 3 of ISO 12945 follows the Pilling Box and Modified Martindale Method. HEALS now can offer a complete suite of instruments for laboratory testing of Pilling Propensity as is likely to occur in end-use wear.



### MODULAR DESIGN:

Designed as a self-contained, single-chamber unit, Impulse offers the ultimate flexibility of operation and control. For convenience up to four units can be linked together to present a single power and compressed air input.



### INTERCHANGEABLE IMPELLER:

The instrument incorporates an easily interchangeable Impeller to benefit laboratories where different standards and therefore different impellers are used.



#### INDEPENDENT DRIVE:

Each unit operates completely independent enabling one unit to be prepared for the next test without the need to interrupt the others. This minimises down time and maximises efficiency.

#### INTELLIGENT USER INTERFACE:

In addition to current test status, the LCD screen also guides the operator – in one of 5 languages – through each stage of the test procedure.

#### ILLUMINATED TEST CHAMBER:

The test chamber can be illuminated with the latest, semi-conductor white-light technology with exceptionally long lifespan and no heat transfer.

#### AUDIBLE ALARM:

The end of the test cycle can be signalled with an audible alarm, this feature can be disabled at the user's preference.

#### INTRINSICALLY SAFE:

The chamber door is fully interlocked with both air injection and the impeller rotation to avoid any risk of operator injury and to minimise the disturbance of chamber debris.



# technical data

## AIR REQUIREMENTS

Where the standard stipulates air injection, Impulse requires a pressure of 2-8 bar. The pneumatic connection to the machine is 6 mm diameter. An adaptor is supplied to convert 6 mm to 1/4 inch BSP.

The air supply should be capable of delivering the following quantities of air:-

1 IMPULSE = 30 litres/minute (1 cubic foot/minute) 3 IMPULSES = 90 litres/minute (3 cubic foot/minute)

2 IMPULSES = 60 litres/minute (2 cubic foot/minute) 4 IMPULSES = 120 litres/minute (4 cubic foot/minute)

A maximum of 4 IMPULSES can be linked together using common air and electrical supplies.

<b>PHYSICAL DATA</b>	Width 360 mm Depth 520 mm Height 320 mm Weight 22 kg		
<b>POWER SUPPLY</b>	115/230V 50/60Hz	<b>POWER RATING</b>	115W
<b>STANDARDS</b>	ASTM D3512, NF G07-121, NF G07-132, DIN 53867, ISO 12945-3		

## IMPULSE – RANDOM TUMBLE PILLING TESTER...

### How to Order

**906-501 IMPULSE – MODEL 616** 230V/110V (Switchable voltage, frequency independent)

STANDARD ACCESSORIES			
<b>794-650</b>	American Impeller ASTM D3512	<b>327-256</b>	Pneumatic Pipe (for multiple units)
<b>142-314</b>	Mains Lead	<b>785-112</b>	Bottle (60 ml) Specimen Edge Glue
<b>785-509</b>	Pack (approx. 1m) Grey Cotton Sliver	<b>789-368</b>	Spatula
<b>393-526</b>	Pack (50) Cork Liner	<b>794-819</b>	Pneumatic Adaptor 6mm diameter to 1/4 inch BSP
<b>195-324</b>	Mains Lead (for multiple units)		

OPTIONAL ACCESSORIES			
<b>794-650</b>	Spare American Impeller ASTM D3512	<b>770-843</b>	Tachometer Model PH-200L
<b>794-651</b>	German Impeller DIN 53 867	<b>766-450</b>	ASTM Photographic Standards ASTM D3512 consists of 5 photographs, 105 mm square, graded no. 1 (very severe pilling) to no. 5 (no pilling)
<b>794-652</b>	French Impeller NF G07-121	<b>201-616</b>	ISO Certificate of Calibration for Impulse
<b>794-653</b>	Vacuum Cleaner/Blow Gun – Air Operated	<b>201-805</b>	ISO Certificate of Calibration for Tachometer PH-200L
<b>758-566</b>	Neoprene Liner – per pack (5) NF G07-121 and ISO 12945-3	<b>202-230</b>	UKAS Certificate of Calibration for Sample Cutter
<b>772-115</b>	Cutting Template 100 mm x 100 mm NF G07-121 and ISO 12945-3	<b>201-650</b>	ISO Certificate of Calibration for American Impeller
<b>772-116</b>	Cutting Template 105 mm x 105 mm ASTM D3512 and DIN 53867	<b>201-652</b>	ISO Certificate of Calibration for French Impeller
<b>902-220</b>	Sample Cutter Model 230/100 NF G07-121 and ISO 12945-3	<b>201-651</b>	ISO Certificate of Calibration for German Impeller
		<b>203-526</b>	Certificate of Conformity for Cork Liner
		<b>203-566</b>	Certificate of Conformity for Neoprene Liner

CONSUMABLES		RECOMMENDED SPARES (EXCLUDING CONSUMABLES) FOR 2 YEARS OPERATION	
<b>393-526</b>	Cork Liner – per pack (50)	<b>130-856</b>	400 mA Quick Blow Fuse (2 recommended)
<b>785-509</b>	Grey Cotton Sliver – per pack (approx. 1 m)	<b>130-820</b>	5A Antisurge Fuse (2 recommended)
<b>794-654</b>	Specimen Edge Glue – per pack (10 bottles - each 60 ml)	<b>160-361</b>	Mains Input Switch
<b>758-566</b>	Neoprene Liner – per pack (5)	<b>390-212</b>	Valve Sub Plate
		<b>390-213</b>	N/Close Valve
		<b>324-577</b>	Bulkhead Fitting 6 mm
		<b>324-578</b>	Self Seal Bulkhead Fitting 6 mm

AGENT

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



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