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elcometer®
inspection equipment



Elcometer 1615
Variable Impact Tester

Elasticity & Deformation

Elcometer 1615

Variable Impact Tester

This simple to use gauge is ideal for evaluating the resistance of a coating to impact (elongation, cracking or peeling), and is suitable for use on both direct and indirect test methods.

Direct: either a weight with a hemispherical punch attached falls on to a coated metal sheet.

Indirect: a weight falls on to a hemispherical punch which is resting on the coated metal sheet.

The Elcometer 1615 Impact Tester comes as one universal assembly with the option of seven different kits providing the functionality for various testing methods.

The base unit is common to all tests. Simply select the appropriate kit to meet your requirements, for more information see page 4.

The test specimen is fixed into position by the quick release clamp. The weight is lifted to the predetermined height and can be set by the adjustable collar device. The weight is then released and the resulting deformation is observed.



Tube height
1000mm (39")

Fast and safe weight
release mechanism

Graduated tube engraved in both
kg-cm & lb-inch (1m, 39" height)
metric and imperial units

Integrated bubble level to ensure
the tester is perpendicular for
repeatable accurate results

Stop collar with 10
settings between 2mm
and 15mm (0.08 and
0.60") to change the depth
of impact when working
in accordance with ISO
Standards, supplied with
Kits A, D and F

Magnifier x10

Heavy-duty, passivated base
plate and anodised arm to
prevent rusting

Rapid fix sample clamp;
the test sample can be
secured or released by a
simple twist of the clamp
handle supplied with Kits
A, D and F

Variable Impact Tester

Elcometer 1615

Variable Impact Tester Kits

The Elcometer 1615 Variable Impact Testers are designed to meet a wide range of National and International Standards. Simply select the appropriate kit from page 4 and attach the punch, die and accessories to the base unit.

Interchangeable dies - enable the user to match the die to the size of the relevant punch to conform to the required Standard or method.

Elasticity & Deformation

Please see page 4 for the list of available kits and page 6 for the full range of accessories



STANDARDS:
ASTM D 2794, ASTM D 5420,
AS/NZS 1580.406.1, BS 6496:1984,
BS 3900-E13, ECCA T5,
EN 12206-1:2004, EN 13523-5,
ISO 6272:1993, ISO 6272-1,
ISO 6272-2, JIS K 5600-5-3:1999,
NF T30-017:1989

Technical Specification

Part Number	Description
K0001615M201	Elcometer 1615 Impact Tester Universal Base Unit and Tube
Weight	10.6kg (23.34lb)
Dimensions	1460 x 200 x 165mm (57.5 x 8.0 x 6.5")
Packing List	Elcometer 1615 Impact Tester with passivated base, integrated bubble leveller, graduated tube, collar release mechanism, magnifier (x6), 4mm Allen key, operating instructions and carry case

Elcometer 1615

Elcometer Impact Tester Kits

In order to test a sample in accordance with a specified standard, a number of kits have been created to provide a single Impact Tester which, by using the appropriate kit, allow the user to work in accordance with a wide range of National and International standards.



Part Number	Description	Certificate
KT001615KITA	Elcometer Impact Tester Kit A	○

Kit A: Falling 1kg (2.2lb) weight with a 20mm (0.79") punch; 27mm (1.06") die with fixing screw; sample clamp with two fixing screws; stop collar*; 3mm (0.12") and 4mm (0.16") hexagonal wrench

STANDARDS:
ISO 6272:1993, EN 13523, JIS K 5600-5-3, DIN EN ISO 6272-1



Part Number	Description	Certificate
KT001615KITB	Elcometer Impact Tester Kit B	○

Kit B: Falling 1kg (2.2lb) weight with static indenter with 15.9mm (0.6") punch; 12.7mm (0.5") punch; 16.3mm (0.64") die with fixing screw; 3mm (0.12") hexagonal wrench

STANDARDS:
ASTM D 2794, BS EN ISO 6272-2, ISO 6272-2 :2002, Qualicoat



Part Number	Description	Certificate
KT001615KITC	Elcometer Impact Tester Kit C	○

Kit C: Falling 2lb (908g) weight with static indenter with 15.9mm (0.6") punch; 16.3mm (0.64") die with fixing screw; 3mm (0.12") hexagonal wrench

STANDARDS:
ASTM D 2794, ASTM D 5420, BS6496:1984, EN 12206-1



Part Number	Description	Certificate
KT001615KITD	Elcometer Impact Tester Kit D	○

Kit D: Falling 1kg (2.2lb) weight with 20mm (0.79") punch and stop key; 27mm (1.06") die with fixing screw; stop collar*; sample clamp with fixing screws; 3mm (0.12") and 4mm (0.16") hexagonal wrench

STANDARDS:
ISO 6272-1, BS EN ISO 6272-1, NF EN ISO 6272-1

* Values: 2, 3, 4, 5, 6, 7, 8, 9, 10 & 15mm (0.08, 0.12, 0.16, 0.20, 0.24, 0.28, 0.31, 0.35, 0.39 & 0.60")

○ Optional Calibration Certificate available.

Elcometer Impact Tester Kits

Elcometer 1615

Part Number	Description	Certificate
KT001615KITE	Elcometer Impact Tester Kit E	○

Kit E: Falling 400g (0.9lb) weight with 23mm (0.90") punch; 22mm (0.87") die with fixing screw; 3mm (0.12") hexagonal wrench

Elasticity & Deformation



STANDARDS:
NF T30-017:1989

Part Number	Description	Certificate
KT001615KITF	Elcometer Impact Tester Kit F	○

Kit F: Falling 1kg (2.2lb) weight with a 20mm (0.79") punch; 27mm (1.06") die with fixing screw; Falling 1kg (2.2lb) weight with 12.7mm (0.5") punch; sample clamp with two fixing screws; 16.3mm (0.64") die with fixing screw; stop collar*; static indenter with 15.9mm (0.6") punch; 3mm (0.12") hexagonal wrench; 4mm (0.16") hexagonal wrench



STANDARDS:
ASTM D 2794, BS EN ISO 6272, DIN EN ISO 6272-1, EN 13523-5, ISO 6272, Qualicoat 2006, SN EN ISO 6272-1

Part Number	Description	Certificate
KT001615KITG	Elcometer Impact Tester Kit G	○

Kit G: Falling 1kg (2.2lb) weight with a 15.9mm (0.62") static indenter with handle and punch; 12.7mm (0.5") static indenter with handle and punch; 16.3mm (0.64") die with fixing screw; guide bracket with two fixing screws; 3mm (0.12") hexagonal wrench; 4mm (0.16") hexagonal wrench

Additional 1kg (2.2lb) weights are available as an optional extra.



STANDARDS:
BS EN ISO 6272-2:2011

For a full range of kits, dies and other accessories to meet a wide range of National and International Standards see page 4



○ Optional Calibration Certificate available.

Elcometer 1615

Variable Impact Tester Accessories



The following range of accessories have been designed to help you evaluate the resistance of a coating to impact (elongation, cracking or peeling) when used in conjunction with the Elcometer 1615 Variable Impact tester.

Punches are universal and can be used either fitted to a falling weight or as a punch resting on the sample.

Accessories

		Suitable for Kit						
		A	B	C	D	E	F	G
KT001615N201	Additional 1kg (2.2lb) Falling Weight, 24.6mm (0.97) Diameter				■			
KT001615N221	Additional 1kg (2.2lb) Falling Weight, 25.0mm (0.98) Diameter	■					■	■
KT001615N226	20mm (0.79") Diameter Punch (Outside Diameter 25mm)	■					■	
KT001615N215	12.7mm (0.5") Diameter Punch		■				■	
KT001615N205	15.9mm (0.6") Diameter Punch		■	■			■	
KT001615N206	20mm (0.79") Diameter Punch (Outside Diameter 24.6mm)				■			
KT001615N207	23mm (0.9") Diameter Punch					■		
KT001615N216	Static Indenter with 12.7mm/0.5" Diameter Punch							■
KT001615N217	Static Indenter with 15.9mm/0.6" Diameter Punch							■
KT001615N208	Stop Ring Collar	■			■		■	
KT001615N209	Sample Clamp Mechanism	■			■		■	
KT001615N210	Weight Release Mechanism	■	■	■	■	■	■	■
KT001615N211	Replacement Graduated Tube	■	■	■	■	■	■	■
KT001615N212	16.3mm (0.64") Die		■	■			■	
KT001615N232	16.3mm (0.64") Die (with 1.5mm Radius)							■
KT001615N213	22mm (0.87") Die					■		
KT001615N214	27mm (1.06") Die	■			■		■	

Elcometer 1506 Cylindrical Mandrel Bend Tester

The Elcometer 1506 is similar in use to the Elcometer 1510, being a very robust mechanical unit for determining the elasticity, adhesion and elongation properties of cured coatings on sheet metal.

The frame has a bending lever with height-adjustable rollers and a sliding vice for clamping the sample which means the test pieces are bent perfectly and regularly on decreasing mandrels until the desired effect can be observed.

The instrument can be adjusted to the diameter of the mandrel used as the mandrels are easily changed.

A wide range of metric and imperial mandrels are available. Mandrel sets or individual mandrels should be ordered separately - please see page 2.



STANDARDS:

AS/NZS 1580.402.1, ASTM D 2485, ASTM D 522-B,
ASTM D 1737, ISO 1519-2, JIS K 5600-5-1

Elcometer 1506 Cylindrical Mandrel Bend Tester

Technical Specification

Part Number	Description
K1506M201	Elcometer 1506 Cylindrical Mandrel Bend Tester
Test Piece Width	Maximum: 64mm (2.5")
Test Piece Length	Maximum: 80 to 100mm (3.15 to 3.93") depending on the size of the mandrel used
Dimensions	320 x 135 x 130mm (12.6 x 5.3 x 5.1")
Weight	4.3kg (9.5lb)
Packing List	Elcometer 1506 Cylindrical Mandrel Bend Tester and operating instructions

Accessories

KT001506P201	Elcometer 1506 Metric Mandrel Set, 2 to 32mm (one of each of the Metric Mandrels below)		
KTUS1506P201	Elcometer 1506 Imperial Mandrel Set, 1/8 to 1" (one of each of the Imperial Mandrels below)		
	Metric		Imperial
KT001506F002	2mm Mandrel	KTUS1506F022	1/8" Mandrel
KT001506F003	3mm Mandrel	KTUS1506F023	1/4" Mandrel
KT001506F004	4mm Mandrel	KTUS1506F024	3/8" Mandrel
KT001506F005	5mm Mandrel	KTUS1506F025	1/2" Mandrel
KT001506F006	6mm Mandrel	KTUS1506F026	5/8" Mandrel
KT001506F007	8mm Mandrel	KTUS1506F027	3/4" Mandrel
KT001506F014	10mm Mandrel	KTUS1506F028	1.0" Mandrel
KT001506F015	12mm Mandrel		
KT001506F016	13mm Mandrel		
KT001506F017	16mm Mandrel		
KT001506F018	19mm Mandrel		
KT001506F019	20mm Mandrel		
KT001506F020	25mm Mandrel		
KT001506F021	32mm Mandrel		

Elcometer 1620 Cupping Tester

This robust and user-friendly tester is used for assessing the cupping ability of coatings applied to metal sheets up to 1.2mm (0.05") thick.

The Elcometer 1620 has a 27mm (1.06") diameter hardened steel die in a clamping device and a 20mm (0.79") diameter punch. A hand-rotated crank and reduction drive moves the punch progressively into the sample.

The Elcometer 1620 has a digital gauge with an illuminated magnifier to accurately view the resultant damage and provides accurate readings of the cupping depth on an integrated gauge. Direct viewing of the fissures, cracks and tears in the coating of up to 10µm (0.4mil) can be viewed through the supplied x10 illuminated magnifying glass.



STANDARDS:
BS 3900 E4, DIN 53156, DIN 53232, ECCA T6, [EN 13523-6](#),
[ISO 1520](#), [JIS K 5600-5-2](#), NBN T22-104, NF T30-019

Technical Specification C

Part Number	Description	Gauge Type	Certificate
K0001620M004	Elcometer 1620/4 Manual Cupping Tester	Digital (mm, mils)	C
Dimensions	300 x 240 x 500mm (12 x 10 x 20")		
Weight	24kg (53lb)		
Packing List	Elcometer 1620 Cupping Tester, gauge, gauge holder, zero setting sheet, illuminated 10x magnifying glass with magnet and operating instructions		

Elcometer 1510 Conical Mandrel Bend Tester

The Elcometer 1510 Bend Tester is a mechanical tester used to determine the effects of bending on the elasticity, adhesion and elongation properties of cured coatings on sheet metal.

The frame has a bending lever with a roller which pivots on a steel conical mandrel with a diameter from 3.2 - 38.1mm (0.12 - 1.5"). A graduation indicates the mandrel diameter in both mm and inches.

The specimen can be bent on part of, or along, the entire length of the mandrel, and the results (cracks) corresponding to different test diameters can be observed in a single operation. This is ideal for use in conjunction with the cylindrical mandrel, as it identifies the stop point for more focused testing.

As the instrument is machined out of a solid block of steel, the particularly robust and rigid construction provides excellent resistance to wear and provides long service life. A large, sturdy anodised base, which can be permanently fixed to a workstation, ensures stability during testing.

**STANDARDS:**

ASTM D 522-A, BS 3900-E11, ISO 6860

Technical Specification

C

Part Number	Description	Certificate
K0001510M001	Elcometer 1510 Conical Mandrel Bend Tester	o
Diameter Range	3.2 - 38.1mm (0.1 x 1.5")	
Sample Size	180 x 100 x 0.8mm (7 x 4 x 0.03")	
Dimensions	325 x 350 x 100mm (12.8 x 13.8 x 4")	
Weight	9kg (20lb)	
Packing List	Elcometer 1510 Conical Mandrel Bend Tester and operating instructions	

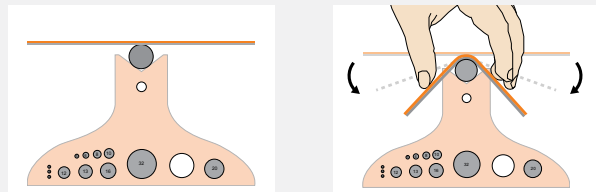
Elcometer 1500 Cylindrical Mandrel on a Stand

The Elcometer 1500 is a simple instrument for determining the elasticity, adhesion and cracking of dry paint on flat specimens, consisting of a mandrel support which also serves as a test stand.

Coated metal sheets, maximum 150mm (5.9") in length x 100mm (3.93") wide, are manually and successively bent around mandrels of decreasing diameter until cracks appear.



How to use the Cylindrical Mandrel on a Stand



STANDARDS:

AS/NZS 1580.402.1, ASTM D 2485, ASTM D 522-B, ASTM D 1737, BS 3900-E1, DIN 53152, ISO 1519-1, JIS K 5600-5-1, NF T30-040

Technical Specification

Part Number	Description
K0001500M002	Elcometer 1500/2 Metric Set of 13 Cylindrical Mandrels on a stand from 2 to 32mm
K0US1500M001	Elcometer 1500/1 Imperial Set of 7 Mandrels from 1/8" to 1"
Mandrel Size	Metric Version: 2, 3, 4, 5, 6, 8, 10, 12, 13, 16, 20, 25, and 32mm Imperial Version: 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 1"
Dimensions	178 x 138 x 145mm (7 x 5.3 x 5.7")
Weight	3.3kg (7.26lb)
Packing List	Set of 7 mandrels (Elcometer 1500/1), Set of 13 mandrels (Elcometer 1500/2) and operating instructions

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