

# elcometer® 1506 Cylindrical Mandrel Bend Tester

Can be used in accordance with:

ASTM D 1737  
BS 3900 E1  
DIN 53152  
DIN EN ISO NF 1519  
ECCA T7  
NF T 30-040



A very robust mechanical unit for determining the elasticity, adhesion and elongation of dried paint on sheet metal.

The frame has a bending lever, with height adjustable rollers and a sliding vice for the sample. Thanks to its design, the instrument can be adapted to the diameter of the mandrel used.

The coated specimens, up to 70mm wide, and 80mm long (for a mandrel 2mm diameter to 100mm) (for a mandrel of 32mm diameter) are bent perfectly and regularly on decreasing mandrels until cracks can be observed.

Each instrument is supplied with a kit of 14 stainless steel mandrels with diameters of:

**Metric Version:** 2, 3, 4, 5, 6, 8, 10, 12, 13, 16, 19, 20, 25 and 32mm.

## Test Method

1. Insert the appropriate Mandrel.  
*(If not carried out as a "pass/fail" test start with the largest diameter. Use successively smaller mandrels until the coating cracks)*
2. Move the Handle with the Bending Piece to the front of the apparatus.
3. Slide the Clamp of the Test Panel Holder so it becomes visible between the Mandrel and the Bending Piece.
4. Insert the test panel and turn the Handwheel to clamp it firmly.
5. Slide the Clamp of the Test Panel Holder until the test panel just touches the Mandrel.
6. Turn the Handle until the Bending Piece just touches the test panel.
7. Lift the Handle without jerking over 180° in 1 to 2 seconds.
8. Remove the test panel from the apparatus.
9. Immediately after testing examine the test panel for cracking or detachment. Use a **10x magnifier glass** if needed.

## Part Numbers

Model	Description	Part Number
Elcometer 1506/1	Elcometer 1506 Cylindrical Mandrel Bend Tester ISO-DIN-ASTM	K0001506M001
<b>Accessories</b>	Elcometer 1506 Spare Set of 14 Mandrels	KT001506P201