

**TQC CYLINDRICAL BEND TEST 100MM INCL IMPERIAL MANDREL SET
SP1822****MANUAL****1 SAFETY PRECAUTIONS**

- Make sure to keep fingers and other body-parts clear from the bending area when performing a test.
- Make sure all actions such as the clamping and bending are carried out without using any heavy forces
- Don't exceed the max. Panel thickness.
- Check the mandrel visually for mechanical damages or marks.

**2 PRODUCT DESCRIPTION**

The TQC Cylindrical Bend Test is a very robust yet elegant testing instrument to indicate the elasticity, elongation and adhesion of a paint film at bending stress. The TQC Cylindrical Bend Test Imperial is designed to perform tests according to the latest ASTM standards. D522, assessing the resistance of a coating, paint, varnish or related products to cracking and/or detachment from a surface when, subjected to bending around a cylindrical mandrel under standard conditions.

3 STANDARDS

ASTM D522

4 WHAT'S IN THE BOX?

- TQC Cylindrical Bend Test 100 mm
- Desk holder with 7 mandrels with a diameter of 1/8", 1/4", 3/8", 1/2", 5/8", 3/4", 1"

5 PREPARATIONS

- Apply the paint film on a test panel of max. 100 x 150 mm, and a thickness of max. 1mm. Coat and dry film carefully.
- Install the apparatus on the table with the clenching wheel on the left side.

6 PERFORM A MEASUREMENT**Remarks**

- The test results strongly rely on the selected test panel, thickness of the coating, drying conditions and ambient conditions (See ASTM D522)
- Note any deviations for a reproducible test result.



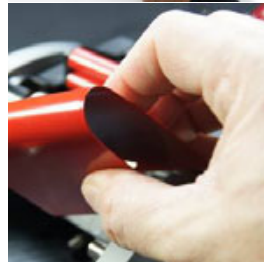
1. Sufficiently open the apparatus to insert the mandrel with the correct dia. turning the handle of the pressure rollers anti clockwise.



2. Place and secure a test-panel in the apparatus, positioned against the mandrel. Fix it upright into the clamp. The coated side of the panel should face outwards once the bend has been made.



3. Pull the handle, and with a smooth movement, taking 1 - 2 seconds, make an even 180° bend.



4. Release the test-panel from the test-apparatus and examine results immediately.

7 MAINTENANCE

- Though robust in design, this instrument is precision-machined. Never drop it or knock it over
- Always clean the instrument after use.
- Clean the instrument using a soft dry cloth. Never clean the instrument by any mechanical means such as a wire brush or abrasive paper. This may cause, just like the use of aggressive cleaning agents, permanent damage.
- Do not use compressed air to clean the instrument.

8 DISCLAIMER

The right of technical modifications is reserved.

The information given in this manual is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this manual without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. Whilst we endeavour to ensure that all advice we give about the product (whether in this manual or otherwise) is correct we have no control over either the quality or condition of the product or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability whatsoever or howsoever arising for the performance of the product or for any loss or damage (other than death or personal injury resulting from our negligence) arising out of the use of the product. The information contained in this manual is liable to modification from time to time in the light of experience and our policy of continuous product development.