

Cylindrical Mandrel Bend Tester

BEVS 1603

User Manual



Version 201412

This manual shall be read carefully before starting. Directions included in this operation manual shall be strictly followed.

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1. Company Profile

BEVS Industrial Co., Ltd. is a leading manufacturer that specializes in coatings, ink, painting, resin testing instruments and laboratory whole solution.

We offer the complete and unique products in this field to meet customer's challenging demands of today and tomorrow, the products are complied with the standards of ISO, ASTM, DIN, BS, EN etc.

With strong supports and hard work by lots of end-users and worldwide agents, BEVS become more and more famous in the world and provides more competitive values for our customers.

2. Introduction

2.1 Product Introduction

A very robust mechanical unit for determining the elasticity, adhesion and elongation of dried paint on sheet metal. It can be used in accordance with: GB/T6742、ISO1519-93、EN 13523-7 and ASTM D522.

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, 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 2,3,4,5,6,8,10,12,13,16,19,20,25and 32 mm

2.2 Specifications

Size: 325*150*125mm (L*W*H)

Gross Weight: 6Kg (Include Mandrels)

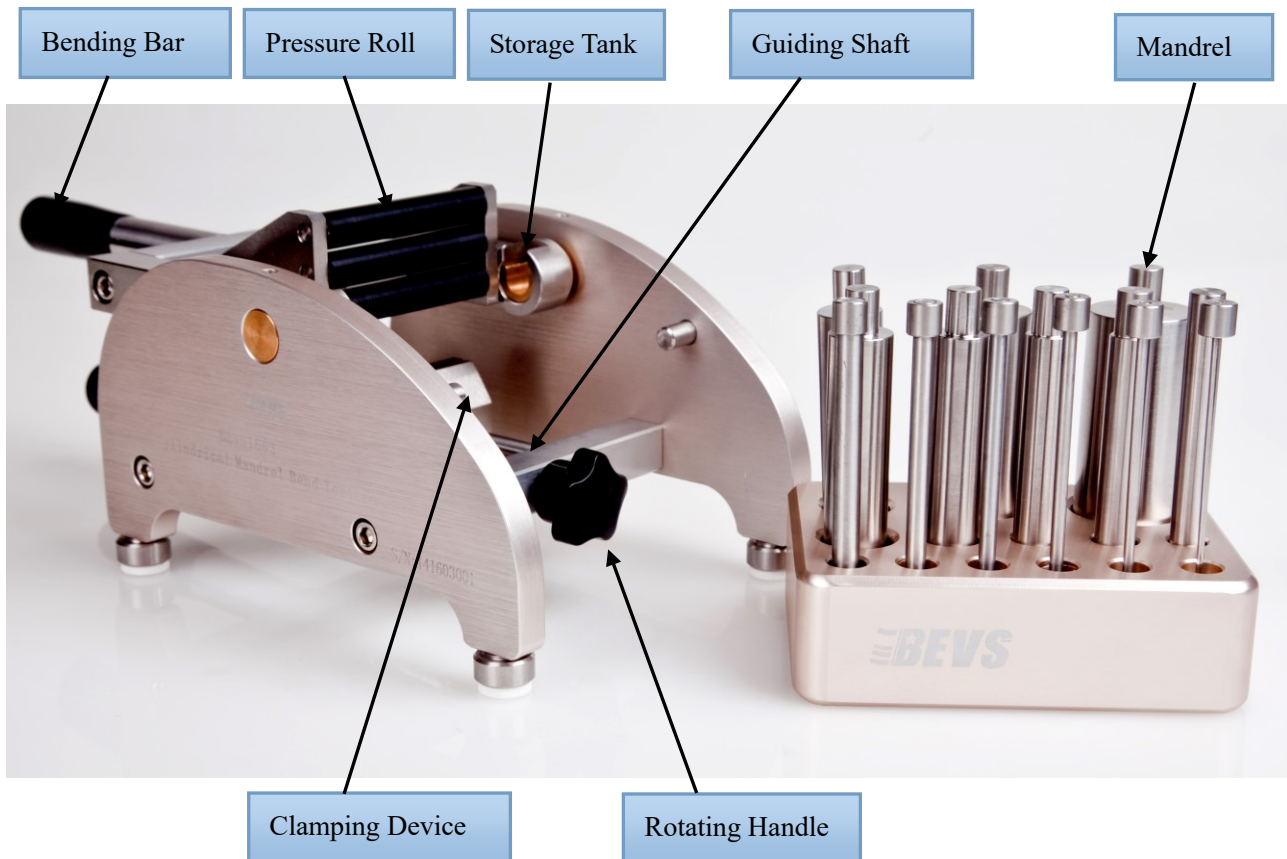
Sample Thickness: 0.3-1mm

(1mm sample only can use the mandrels which its diameter is more than 5mm)

Mandrels: 2/3/4/5/6/8/10/12/13/16/19/20/25/32mm

Max. Sample Width: 70mm

2.3 Construction



3. Product Usages

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

3.2 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.

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

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

4. Maintenance

BEVS 1603 Cylindrical Mandrel Bend Tester is designed to give many years reliable service under Normal operating and storage conditions.

Every 6 months or sooner if used regularly, grease the threads and guides of the specimen vice and the bending lever roller carriage.

The tester does not contain any user-serviceable components. In the unlikely event of a fault, the BEVS

1603 should be returned to your local BEVS supplier or directly to BEVS. The warranty will be invalidated if the instrument has been opened. Details of BEVS offices around the world are given on the outside cover of these operating instructions.

Alternatively visit the BEVS website, www.bevsinfo.com

5. Packing List

| | |
|---|-----------------|
| Main Machine | 1 Unit |
| Metric Mandrel: 2/3/4/5/6/8/10/12/13/16/19/20/25/32mm | 1 Unit for each |
| Mandrel Stand | 1 Unit |
| Conformity of Certificate | 1pc |
| User Manual | 1pc |

6. Order Information

BEVS 1603 Cylindrical Mandrel Bend Tester