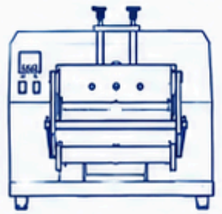
BENNEWART FLEX TESTER

Footwear Outsole Flex Resistance Testing Machine

A precision testing instrument used to determine the flexing endurance and resistance to cut growth of footwear outsoles and sole materials under repeated bending.



ENGINEERING VIEWS (Illustrative)



Front View



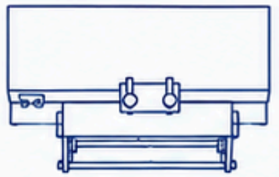
Rear View



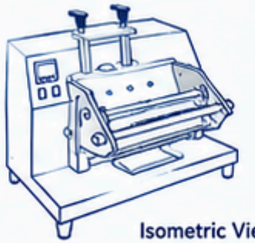
Left Side View



Right Side View



Top View



Isometric View

KEY FEATURES

- Robust and durable construction
- Motorized, repeatable flexing mechanism
- Digital counter for test cycle setting
- Secure and precise specimen holding
- Suitable for various outsole materials
- Compact, stable and lab-friendly design

KEY BENEFITS

- Accurate and consistent flex testing
- Evaluates cut growth and durability
- Helps in material selection and quality control
- Improves product reliability and service life
- Simple operation and low maintenance

COMPONENTS & FUNCTIONS



Digital Control Panel & Cycle Counter
Sets and displays the number of flexing cycles.



Fixed Specimen Gripping Fixture
Holds one end of the outsole specimen firmly.



Movable Specimen Gripping Fixture
Holds the other end and moves in a reciprocating manner for flexing.



Bending Mandrel
Precision mandrel on which the specimen is bent during the test.



Specimen Holding Arrangement
Ensures proper alignment and secure clamping of the outsole.



Machine Base & Enclosure
Rigid and stable structure for vibration-free operation.

WORKING PRINCIPLE (3 STEPS)



1. Mount the outsole specimen between the fixed and movable grips.



2. The specimen is repeatedly bent over the mandrel through a set flexing angle for the predetermined number of cycles.



3. Inspect the specimen for cut growth, cracks or damage after the test.

TESTING APPLICATIONS



Rubber Sole



PU Sole



PVC Sole



Synthetic Sole

Suitable for footwear outsoles and sole materials such as Rubber, PU, PVC and other synthetic compounds.

TECHNICAL SPECIFICATIONS

Parameter	Specification
Machine Name	Bennewart Flex Tester
Mandrel Diameter	TBD
Flexing Angle	TBD
Test Speed	TBD
Clamp Spacing	TBD
Number of Stations	TBD
Counter Range	Digital, TBD
Power Supply	TBD
Overall Dimensions (L × W × H)	TBD
Weight (Approx.)	TBD

TESTING METHODS

- SATRA TM161
- ISO 17707

(Subject to machine configuration and verified compliance)



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