

SPRING WIRE TESTER BROCHURE

➤ Wrap Tester & Torsion Tester:



(Wrap Tester & Torsion Tester Setup)

- Wrap Tester is used to test the ductility of the Spring Wire. The Wrap Tester coils the wire in the spring form which is further checked for cracks and fractures.
- Torsion Tester is used to test the brittleness and other flaws of the Spring Wire. Also, the Reverse Torsion test can be performed on this setup.

General Specifications;

- a) Suitable for testing the Spring Wire from diameter range 0.15 mm. to 6 mm. along with required tooling (We can also manufacture the setup for testing Spring Wires for the diameter range upto 12 mm.)
- b) Drive Motor- 3 Phase SIEMENS make
- c) Gearbox- Bongiflioli make
- d) Wire Bender unit mounted on the setup
- e) M. S. Powder Coated Structure
- f) Adjustable Chuck speed
- g) AUTO/ MANUAL mode testing
- h) Safety Guard with interlock facility
- i) Quick and easy changeover of tooling from Wrap Test to Torsion Test and vice versa

➤ Bending Tester:



(Bending Tester)

- Bending Tester is used to bend the Spring Wire in U form around a mandrel of a specified diameter. The bent Wire is then inspected for the visual deformations.
- A hydraulic actuator is used for the bending of the Spring Wire.

General Specifications;

- a) Suitable to test Spring Wire from size 3 mm. to 6 mm. diameter
- b) Hydraulic Actuator- Delta or Equivalent make
- c) Manual Hydraulic Power Pack- Polyhydron make
- d) Suitable mandrel for the Spring Wire diameter range form 3 mm. to 6 mm.
- e) M. S. Powder Coated Structure
- f) Manual safety guard

➤ Helix Effect Tester:



(Helix Effect Tester)

- The Helix Effect tester is used to measure the helix within the closed loop of the Spring Wire.
- This test can be performed for different types of wire diameter.

General Specifications;

- a) M. S. Powder Coated structure
- b) Precise linear guide with linear bearing
- c) Adjustable hook position
- d) Precise measuring scale to measure the helix within the Spring Wire loop

➤ Coiling Tester:



(Coiling Tester)

- Coiling test is performed on the Spring Wires upto diameter 0.70 mm.
- This test is perform to access the uniformity of the Spring Wire under the coiling deformation.

General Specifications;

- a) M. S. Powder Coated structure
- b) Ball Screw with Guide Rod support for precise movement
- c) Acrylic safety cover
- d) Ergonomic operating handle.