



**BANBROS ENGINEERING PVT. LTD.**

The Precision Measurement People

# DIGITAL TORSION AND WRAPPING TESTING MACHINE



- *VALUE*
- *VERSATILITY*
- *PERFORMANCE*

**BDT-10M**



**DESCRIPTION:**

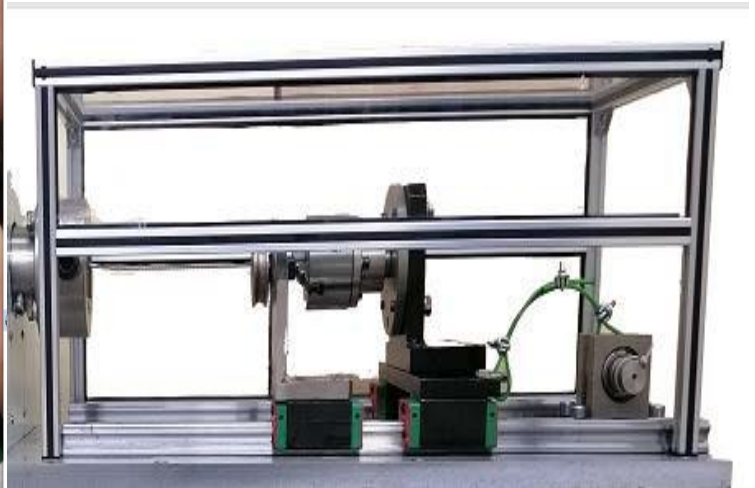
BDT series metallic materials wire wrapping testing machine used for determining the ability of wire of diameter or thickness 0,1 to 10 mm inclusive to undergo plastic deformation during wrapping. The test consists of winding a wire to a specified number of turns around a mandrel of the diameter specified in the relevant standard to form a closely wrapped helix. It may also include a specified sequence of windings and unwindings, or even rewindings. With the dynamic torsion encoder to measure the torque when wrapping the wire.

**FEATURE:**

**Can use 1:1 mandrel.**

In ISO 7802, clause 3: A piece of the wire to be tested maybe used as the mandrel, provided it is of the specified mandrel diameter and of sufficient hardness.

**2, with safety cover.**



Standard: ISO 7802: Metallic materials.

**TECHNICAL SPECIFICATION:**

Model No.	BDT-10M
<b>For Wrapping Test</b>	
Bending diameter	1-10mm
Wrapping speed	Random setting, 20r/min, 30r/min, max. 60r/min
Mass Weight	20N, 50N
Standard mandrel	4, 6, 8, 10mm
<b>For torsion test</b>	
Specimen diameter range	0.3-3mm; 3-10mm
Rotate speed (for steel/aluminum)	0.1~2 (Number of turns per S) / 1 ~ 120 Rpm
Rotate speed (for copper) (optional with extra cost)	0.1~5 (Number of turns per S) / 1 ~ 300 Rpm
Moving guide rail parallelism	<0.2mm
Distance between two jaws	500mm
Chuck hardness	55~65 HRC
Max. count circles	999999
Turning direction	Both directions
Power	220V, 50HZ, 1 phase
Dimensions	1400×370×1100mm
Weight	250Kg

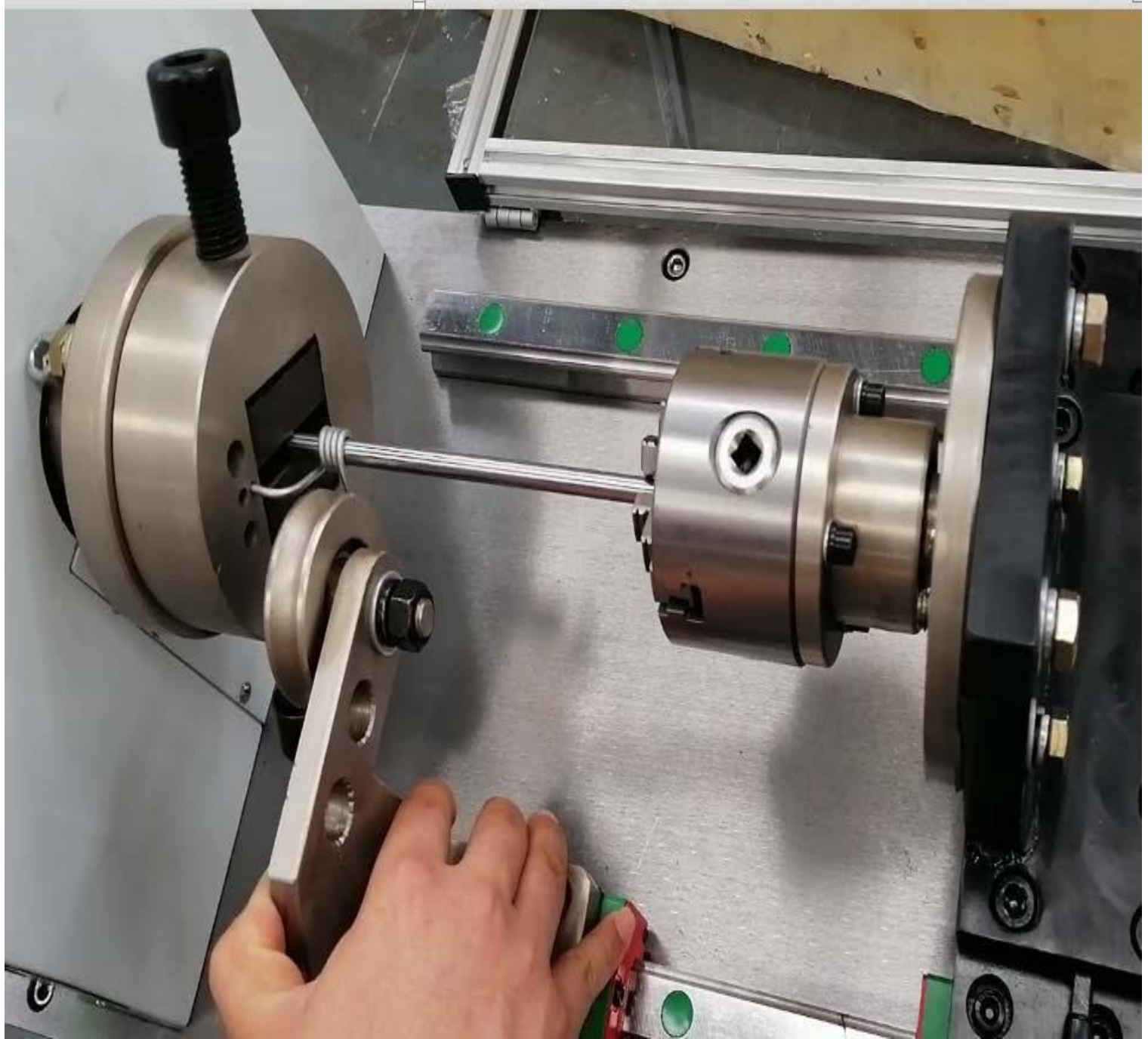
**STANDARD ACCESSORIES:**

Mainframe	1 set
Moving guide rail	1 set
Motor	1 set
Dynamic torsion encoder	1 set
Display system	1 set
Standard mandrel (4, 6, 8, 10mm)	Each 1 pc
Chuck for torsion test (0.3~3mm, 3-10mm)	1 set
Torsion test fixture	1 set
Wrapping fixture	1 set
Documents (Manual, packing list, certificate)	



**BANBROS ENGINEERING PVT. LTD.**

The Precision Measurement People



49/39, Site IV Ind Area, Sahibabad, Ghaziabad - 201010,

Uttar Pradesh, India

[www.banbrosindia.com](http://www.banbrosindia.com)