

# TECHINCAL DETAILS

## OF

### *twist*TESTER™ (Single Yarn)

#### 1. INTRODUCTION

The strength of a yarn depends to a great extent on the amount of twist imparted. Accurate determination of this physical property is very importance in assessing the quality of a yarn. The amount of twist given to a yarn is usually determined by untwisting a known length of yarn and finding the number of rotations of one of its ends relative to the other by remove the twists completely. Paramount *twist*TESTER (Single Yarn)™ is the appropriate equipment for the determination of twists of a single yarn.

#### 2. EQUIPMENT

Paramount *twist*TESTER (Single Yarn)™ having a set of clamps; one of which rotates and the other is fixed. The rotating clamp is driven by hand gear assembly. A specially designed five-digit re-settable revolution counter is provided to count the number of twists. The fixed clamp has a push up plate by which yarn can be carried through to pass it over the pulley hang to a desired weight to give the desired tension to the yarn. The fixed clamp assembly can be moved over a guide bar for setting the required test length of yarn. The Test Length is indicated on a calibrated strip scale fixed to the base against a pointer attached with moving assembly. A magnifying glass is provided to check the opening of the twists in the yarn during untwisting process. The equipment is meticulously finished in Blue PU paint.



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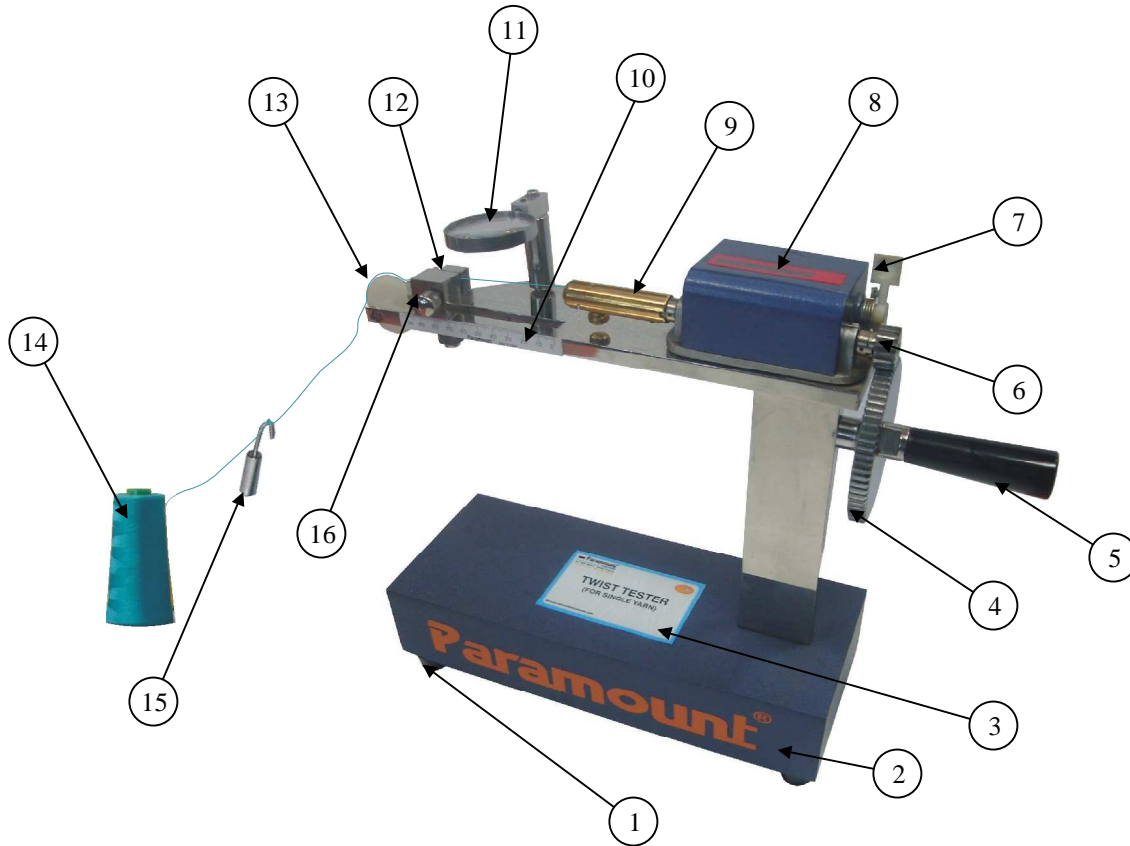


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### 3. DETAILS OF THE MAIN UNIT OF *twist*TESTER™ (Single Yarn)



1. Foot Rests.
2. Base of the Unit.
3. Name Sticker.
4. Bigger Gear.
5. Handle for Rotations.
6. Small Gear.
7. Zero adjustment Knob.
8. Mechanical Counter.
9. Rotating Yarn clamp.
10. Scale for test length.
11. Magnifier Glass to view yarn.
12. Stationery Jaw (Yarn Clamp).
13. Pulley for Hanging Load.
14. Yarn Cone.
15. Dead Weight (10/20 Gms.).
16. Knob for Stationery Jaw.

**Paramount<sup>®</sup>**  
 . . . . . Since 1964  
 An ISO 9001 : 2000 Group  
 YOUR QUALITY. OUR OBSESSION.™

#### 4. DETAILS OF THE ACCESSORIES SUPPLIED WITH *twist*TESTER™ (Single Yarn)



Main Unit



Dead Weight (10 Gms.)



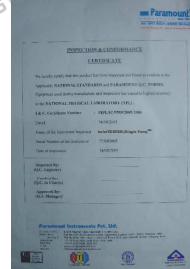
Dead Weight (20 Gms.)



Allen Key 2 mm



This User's Manual



Inspection & Calibration Certificate

*twist*TESTER™ (Single Yarn) is Supplied Complete with below Accessories:

- |   |               |
|---|---------------|
| 1) Main Unit                                  | : 01 No.      |
| 2) Dead Weight (10 Gms. & 20 Gms.)            | : 01 No. Each |
| 3) Allen Key (2 mm)                           | : 01 No.      |
| 4) This User's Manual                         | : 01 No.      |
| 5) Calibration Certificate (Traceable to NPL) | : 01 No.      |
| 6) Inspection & Conformance Certificate       | : 01 No.      |

## 5. SALIENT FEATURES

- Specially designed equipment to determine the twist per inch/cm.
- Ergonomically design with modern aesthetics.
- Smooth precision-engineered mechanism.
- Specially designed only for single yarn.
- 10 & 20gms weight supplied to give proper tension during testing.
- Complete with all accessories.
- With analog re-settable twist counter.
- Magnifying glass is attached to ease in testing.
- Supplied with calibration & inspection certificates

## 6. TECHNICAL DETAILS OF *twist*TESTER™ (Single Yarn)

Test length	:	0 to 75 mm
Counter	:	Five digit revolution counter to give twist directly
Dead Weight	:	10 Gms. / 20 Gms.
Scale for the test length	:	0 – 100 mm
Overall Dimensions	:	420 (L) x 125 (W) x 330 (H) mm. 16.5” (L) x 5” (W) x 13” (H) Inch.
Net Weight	:	8 Kg. (17.6 lbs)

## 7. RELATED STANDARDS

ISO 2061.

BS 2085.

ASTM D 1422 / D 1423.

DIN 53832.

IWTO 25-70.

**NOTE : With our constant endeavour to improve & excel, we reserve the right to alter the specification or modify the appearance without notice.**



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