

TECHINCAL DETAILS OF

*count*TESTER I Nx™

1. INTRODUCTION

The count of yarn is defined as a number indicating its Weight. In **DIRECT SYSTEM**, the count is the weight of a Unit Length of yarn. For example – “TEX” is number of grams in one Kilometer Length of yarn; “DENIER” is number of grams in 9000 meters of yarn.

In indirect system, the count is the number of unit of fixed length of yarn that makes a fixed weight: For Example “COTTON” is number of hanks of yarn in a Pound, “METRIC” is number of Kilometers of yarn in one Kilogram.

Irrespective of the system of count, two basic requirements for determining count are:

- An accurate determination of Sample Length, and
- An accurate determination of its Weight.

The method of determination of count depends to a large extent on the form in which the yarn is available for testing. The Instrument used for this is called *count*TESTER I Nx™.

2. EQUIPMENT

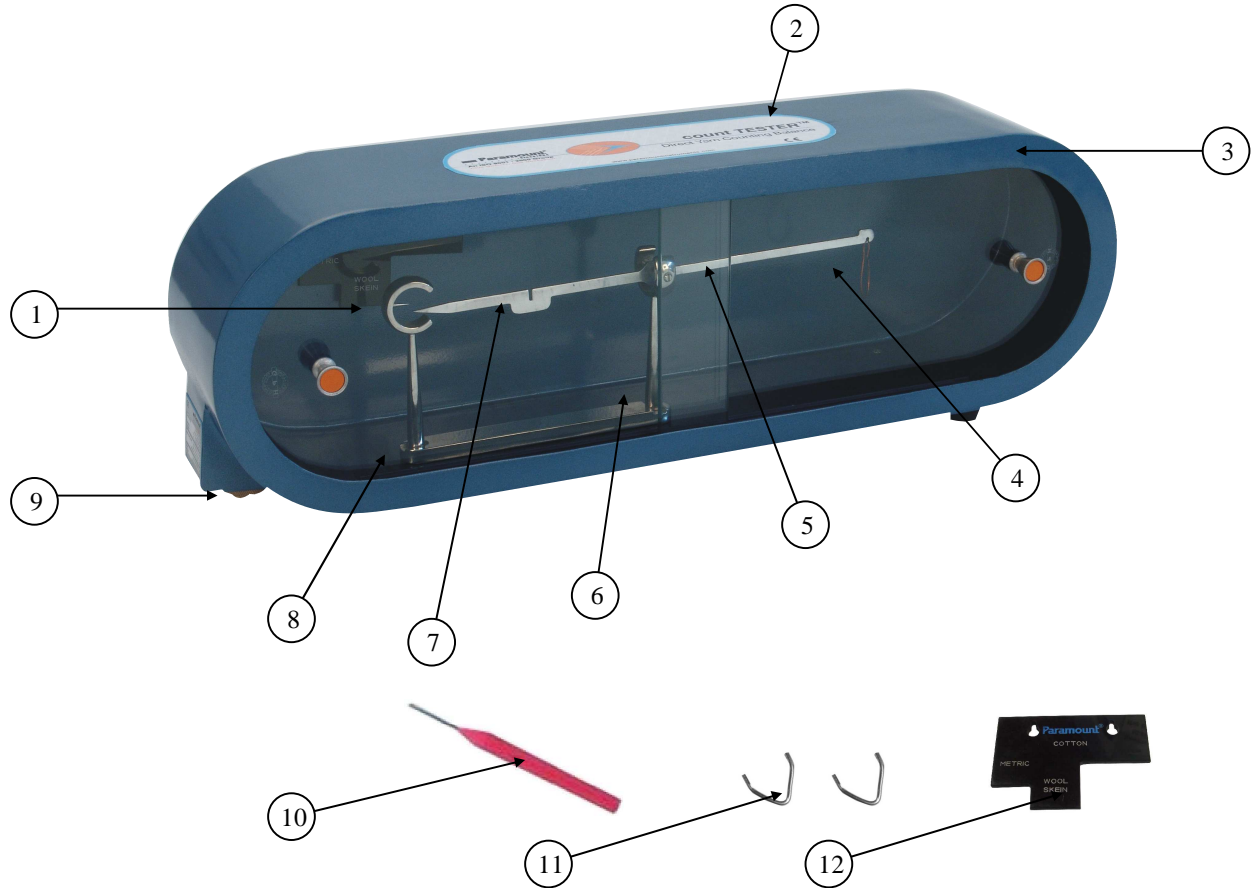
PARAMOUNT *count*TESTER I Nx™ is the latest model direct yarn count balance to evaluate yarn count in indirect system. This specially designed equipment consists of a lightweight beam pivoted on Jewel Bearings with a suspender hook at one end and a pointer at the other. The beam is initially leveled with the help of the Leveling Screw to bring the pointer against a Datum Point.

A (Calibrated Rider) is suspended in the slot provided on the beam. A template is used to size the lengths of the yarn. (The Length depending upon the count system required). These sort lengths required to balance the Beam gives the count of the yarn DIRECTLY.

A TEMPLATE is provided to give lengths of yarn in ‘METRIC’, ‘COTTON’, ‘LINEN’, ‘WOOLSKIEN’, and ‘WORSTED’ counts.

The Balance is housed in a beautiful Metallic Blue painted metal case having Sliding Glass doors.

3. DETAILS OF THE MAIN UNIT OF *count*TESTER I Nx™



Sr. No.	Part Name	Name Function
1.	Datum Point	The Center Point at which the Beam is Levelled.
2.	Jewel Bearings	On both sides of Center Rod the two Jewel Bearings hold the Pins of the Center Beam.
3.	Main Body	Main Body of the <i>count</i> TESTER™
4.	Suspender Hook	To hold the yarn during Testing.
5.	Center Beam	This needs to be balanced to check yarn count.
6.	Center Rod ('Y' Bracket)	This Unit holds the Center Beam.
7.	Slot	Meant for keeping Calibrated Rider While Testing
8.	Indicator Rod ('E' Bracket)	Unit which has datum point.
9.	Leveling Screw	To level the Beam.
10.	Pointing Needle	To take yarn from fabric.
11.	Calibrated Rider	Standard Rider for checking the yarn count.
12.	Sizing Template	To size the length of the (Made of Acrylic.)



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4. DETAILS OF THE ACCESSORIES SUPPLIED WITH *count*TESTER I Nx[™]



Main Unit



Black Acrylic Sizing Template
 (For Marking & for yarn size)
 (Fitted Inside)



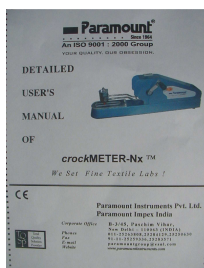
Calibrated Riders
 (02 Nos.)



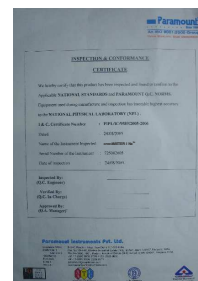
Pointing Needle
 (To Take Our Yarn from Fabric)



Dust Cover
 (Folded)



This User's Manual



Inspection & Calibration
 Conformance Certificate



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countTESTER I Nx[™] is Supplied Complete with below Accessories:

1) Main Unit	:	01 No.
2) Black Acrylic Sizing Template for the Yarn	:	01 No.
3) Calibrated Riders	:	02 Nos.
4) Pointing Needle to take out yarn	:	01 No.
5) Dust Cover	:	01 No.
6) This User's Manual	:	01 No..
7) Inspection & Conformance Certificate	:	01 No.
8) Calibration Certificate (Traceable to NPL)	:	01 No

5. SALIENT FEATURES

- Meticulously designed equipment to determine fineness of any type of yarns directly in indirect system.
- Most simplest & user-friendly instrument for count determination.
- Smooth, precision-engineered components for exceptional performance.
- Cotton, Half Cotton, Worsted, Metric, Linen count can be directly calculated on this equipment.
- A specially designed black acrylic template is supplied to prepare sample for testing.
- Complete with all accessories.
- Supplied with Inspection & calibration certificates.

6. TECHNICAL DETAILS OF **countTESTER I Nx[™]**

Balancing	:	Precision Jewel Bearing's
Sampling	:	With Template
Leveling	:	Leveling Screw
Template Specification according to material	:	Cotton : 100mm
	:	Metric : 56 mm
	:	Wool Skin : 30 mm
	:	Half Cotton : 50 mm
Overall Dimension of the Unit	:	610 (L) x 127 (W) x 216 (H) mm.
	:	24" (L) x 5" (W) x 8.5" (H) Inch.
Net Weight of the Unit	:	6.1 kg (13.42 lbs.)



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7. RELATED STANDARDS

- It adheres to ASTM D 2260-96, ASTM D 3776, and BS 2865, ISO 7211 standards

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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