

TECHINCAL DETAILS

OF

digiTRA I[™]

(Digital Traverse Thread Counter)

1. INTRODUCTION

One of the most common measure of the quality of a fabric is the number of threads per unit length in both the warp and weft directions. These are determined normally with the help of an ordinary counting glass having a square or rectangular opening of specified size.

However, when a greater degree of accuracy in determination of Picks or Ends is needed or the weave is too fine to be checked with an ordinary counting glass, this counting is carried out with the help of *digiTRA I[™]* (**Digital Traverse Thread Counter**).

2. EQUIPMENT

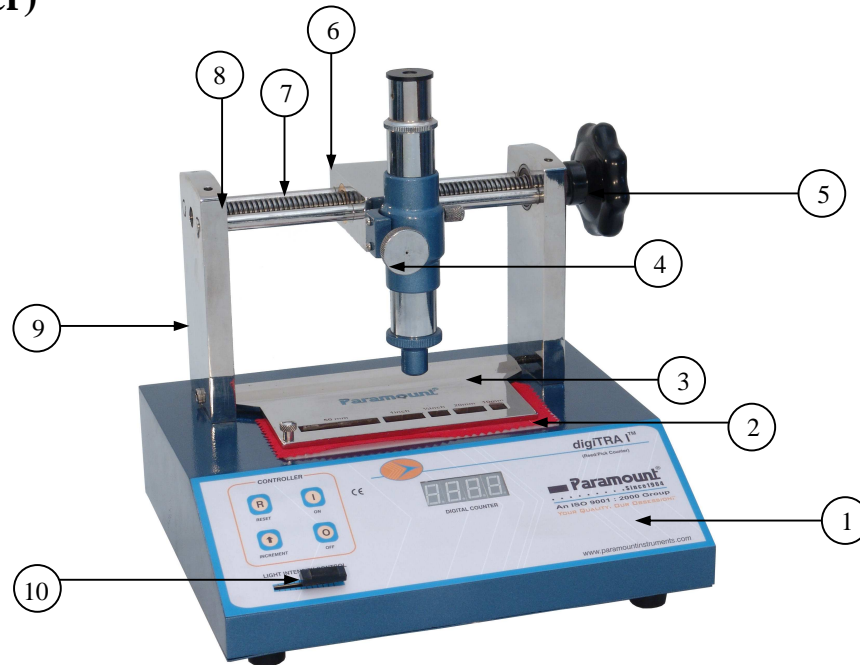
The PARAMOUNT *digiTRA I[™]* (Digital Traverse Thread Counter) consists of a traveling microscope fitted on a base having a translucent (White Acrylic) panel illuminated from below with Light with intensity control. The viewing arrangement consists of the microscope fitted on a traveling carriage, which can be moved over two guide rods with the help of a knob Handle. The unit has a microprocessor based Feather Touch Control Panel.

The microscope has a 10x Ramsden Eye Piece, an achromatic objective glass, a cross wire graticule in the Eye Piece. Focusing is done with the help of a Rack and Pinion arrangement.

The Fabric to be tested is placed below the counting plate (With Calibrated Slot) and over the (White) Acrylic plate. Press the Feather touch switch of the Digital Counter, (which registers the count by one with a Beep) as the cross line graticule of the microscope travels over them.

The base of the apparatus is meticulously finished in Metallic Blue Paint and all other parts are of Stainless Steel.

3. Details of the Main Unit of digiTRA I™ (Digital Traverse Thread Counter)



1. Feather Touch Control Panel.
2. Acrylic Plate (White) (Through which the light comes)
3. Counting Plate (With Calibrated Slots).
4. Microscope Focusing Knob.
5. Knob Handle.
6. Microscope Holder Block.
7. Guide Rods 02 Nos.
8. Lead Screw.
9. Vertical Arms (Both sides).
10. Light Intensity Control.

4. Details of the Accessories Supplied with *digiTRA I*[™] (Digital Traverse Thread Counter)



Main Unit



Main Lead with Plug



Dust Cover



This User's Manual



Calibration & Inspection Certificate

Unpack your *digiTRA I*[™] (Digital Traverse Thread Counter) and ensure that you have the following units :

Main Unit	:	01 No.
Dust Cover	:	01 No.
Mains Lead with Plug	:	01 No.
Detailed User's Manual	:	01 No.
Inspection & Conformance Certificate	:	01 No.
Calibration Certificate (Traceable to NPL)	:	01 No.



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5. SALIENT FEATURES

- Specialized equipment for determining reed & pick of very fine fabrics.
- Economic model with modern looks.
- Inbuilt cross wire graticule inside the traveling microscope helps in accurate checking.
- Smooth, precision-engineered components for exceptional performance.
- Powerful traveling microscope for sharp image of the fabric.
- 4 Digit resettable digital counter for counting the Reed / Pick.
- Feather touch control panel.
- Powerful light from bottom to view the sample.
- Complete with all accessories along with template
- Slot size: 10mm, 20mm, and 50mm
- Slot size: 1/4inch, 1/2inch, and 1inch
- Supplied with calibration & inspection certificates.

6. TECHNICAL DETAILS OF *digi*TRA I™ (Digital Traverse Thread Counter)

Fabric can be checked for	: 1/4inch, 1/2 Inch, 1 Inch, 10 mm, 20 mm, 50mm
Digital Counter	: 4 - DIGITS Re-settable DIGITAL COUNTER. (Registers each increment with a Beep) – 0-9999, L/C : 1.
Microscope magnification	: 10 x
Light Intensity Control	: Invariably setting of the Intensity of Light.
Overall Dimension of the Unit	: 300 (L) x 255 (W) x 340 (H) mm 12” (L) x 10” (W) x 13” (H) Inch.
Net Weight of the Unit	: 9.5 Kgs. (20.9 lbs)

7. RELATED STANDARD

ISO 7211

BSEN 1049

ASTM D3775 - 98

IWTO 39-87

IS 1963 : 1981

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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