

# TECHINCAL DETAILS

## OF

### *autoBOARD™*

### *(Motorised Yarn Appearance Board Winder)*

#### 1. INTRODUCTION

Visual determination of unevenness along the length of a yarn is carried out by wrapping it in equally spaced parallel wraps over a board and comparing the appearance of irregularities against STANDARD RATING PHOTOGRAPHS. PARAMOUNT **Yarn Evenness Tester** is a specially designed equipment to check the yarn evenness.

#### 2. EQUIPMENT

PARAMOUNT *autoBOARD™* (**Yarn Appearance Board Winder**) consists of a yarn wrap Board, and an arrangement to wrap the Yarn over it at equal spacing under a desired tension. The Board is rotated automatically to wrap yarn over it. The yarn is guided on to the board through a yarn guide, which moves parallel to the pivoting axis of the board giving uniformly spaced wraps. The guide is positively linked to the rotation of the board with the help of a belt and pulley drive. The belt is changed in a set of pulleys which gives six different spacing to the yarn for wrapping yarn of different counts. A spring loaded adjustable tensioning arrangement provides the desired tension to the yarn. A specially designed bobbin holder is provided for holding the yarn bobbin while testing.

The equipment is built on a rigid wooden base. It is finished in Grey & blue colour to give it a corrosion resistant finish.

One Tapered & One Rectangular Acrylic Board having one face White and the other Black to enable evaluation of both light and dark colored yarns are supplied as Standard Accessory.



AATCC  
CORPORATE MEMBER

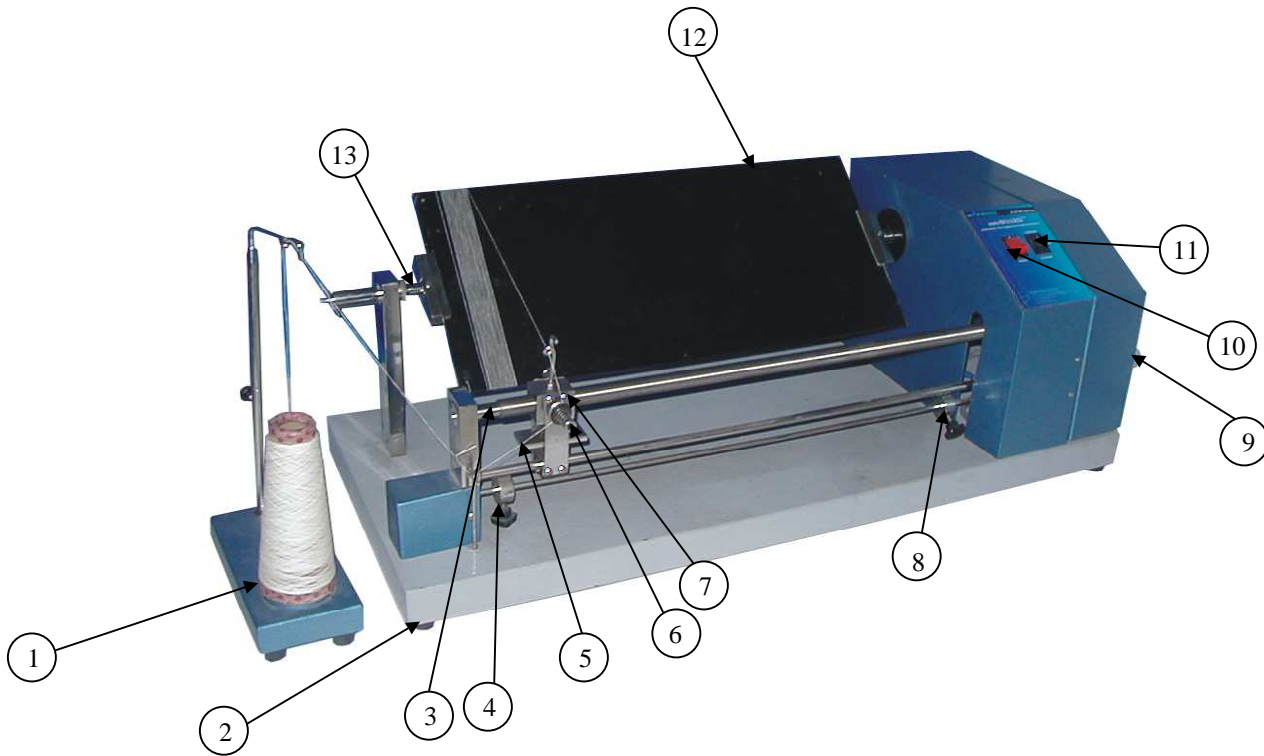


Patron Member



Member Bureau of  
Indian Standards

### 3. DETAILS OF THE MAIN UNIT OF *autoBOARD™* (Motorised Yarn Appearance Board Winder)



1. Bobbin Holder.
2. Foot Rest.
3. Guide Lead Screw.
4. Auto Stopper Unit (Left Side).
5. Release Plate Unit (To shift thread Guider manually).
6. Thread Guide (Adjustable).
7. Tension Device (Spring Tensioner).
8. Auto Stopper Unit (Right Side).
9. Knob to open side cover.
10. Control Panel.
11. Reverse / Forward Switch.
12. Parallel Board (Fitted).
13. Jaw to fix the Board (On Both Side).

#### 4. DETAILS OF THE ACCESSORIES SUPPLIED WITH OF *autoBOARD™ (Motorised Yarn Appearance Board Winder)*



Main Unit



Bobbin Holder Stand



Tapered Board 575 (250 x 160) mm  
(Made of Aluminum)



Parallel Board (575 x 250) mm  
(Made of Aluminum)



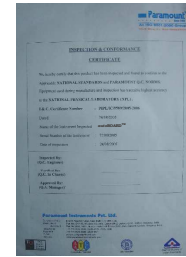
Main Lead with Plug



'O' Ring Belt for Pulleys



This User's Manual



Inspection & conformance Certificate

*autoBOARD™ (Motorised Yarn Appearance Board Winder)* is Supplied Complete with below Accessories:

- |    |   |   |        |
|----|---|---|--------|
| 1. | Main Unit   | : | 01 No. |
| 2. | Bobbins Holder Stand                                  | : | 01 No. |
| 3. | 'O' Ring Belt for pulley                              | : | 01 No. |
| 4. | Tapered Board (Made of Aluminum) 575 x (250 x 160) mm | : | 01 No. |
| 5. | Parallel Board (Made of Aluminum) 575 x 250 mm        | : | 01 No. |
| 6. | Mains Lead with Plug                                  | : | 01 No. |
| 7. | This User's Manual                                    | : | 01 No. |
| 8. | Calibration Certificate (Traceable to NPL)            | : | 01 No. |
| 9. | Inspection & Conformance Certificate                  | : | 01 No. |

## 5. SALIENT FEATURES

- Specially designed equipment to access the appearance of yarn irregularities (like thick place, thin place, slubs etc.) against standard rating photograph.
- Two different types of boards, one parallel, other tap end, supplied for winding the yarn.
- A Special Separate unit for holding yarn bobbin.
- Yarn wrapped on the board can have 20,22,26,32,38 & 48 ends per inch.
- Six traverse speed options for fine to coarser count of yarn.
- complete with all accessories.
- Supplied with calibration & inspection certificates.

## 6. TECHNICAL DETAILS OF *autoBOARD*<sup>™</sup> (Motorised Yarn Appearance Board Winder)

Size of Tapered Board	:	575 x (250 x 160 ) mm
Size of Paralleled Board	:	575 x 250 mm
Standard Yarn Spacing	:	20, 22, 26, 32, 38 & 48 Per Inch. 8, 9, 10, 13, 15 & 19 Per Cms.
Electrically Operated.	:	Motor Drive having fine Gear's with Reverse/Forward
Over all Dimension of the Instrument	:	920 (L) x 395 (W) x 350 (H) mm 36" (L) x 15.5" (W) x 14" (H) Inch
Net Weight of the Instrument	:	32 Kg. (70.4 lbs)

## 7. RELATED STANDARD

ASTM D 2255-02	:	Standard Method for Grading of Spun Yarns for Appearance.
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**NOTE :** With our constant endeavour to improve & excel, we reserve the right to alter the specification or modify the appearance without notice.