

AUTOMATED WRAP REEL

The WR-01 has been developed with special and unique features to make the work of preparing a lea of yarn easy and reliable. The same machine can be used to wind 120 yards, 90 meters or 100 meters of yarn which correspond to Count, Denier or Tex Value. In addition the machine also has provision to define any length in yards or meters which can be used for non-standard lea preparation.

This model can be ordered with a circumference of 1 meter or 1.5 yards. The base model comes with 5 frames. However it can be extended to 10, 12, 15 or 17 frames based on requirement. The unit is also comes with yarn guides, a traveler arrangement and space for mounting bobbins of standard size.

SAFETY PRECAUTIONS

The winding wheel is operated by a powerful motor, hence it is important to keep away from its moving area to avoid any injuries. Also ensure no material is blocking the path of the winding wheel.

POWER SUPPLY

The WR-01 operates on a 220V, 50 Hz AC Supply.

OPERATING CONTROLS

1. ON/OFF SWITCH

This switch controls the main supply to the instrument. It is located on back of the main housing.

2. FUSE HOLDER

Located next to the ON/OFF Switch, it protects the motor from damage in case of a fault.

3. LCD DISPLAY

This 16-Bit Alpha-Numeric Display is used for indication and setting parameters for the machine.

4. KEYBOARD

The Keyboard has 4 soft keys, the function of which is defined below:

START/INC Key: This key is used to start the motor or increase the value in M4 or M5 mode.

OPERATING MANUAL

- STOP/DEC Key:** This key is used to stop the motor or decrease the value in M4 or M5 mode.
- ENTER/ZERO Key:** This key is used to set zero before starting a test or for entering a new mode.
- MODE SELECT:** This key is used to change the operating mode of the machine. These modes are explained later.

OPERATING MODES

The WR01 is designed to operate in five different modes, namely M1 to M5.

M1: This mode is set to wind 120 yards of yarn which corresponds to prepare a lea or find COUNT.

M2: This mode is set to wind 90 meters of yarn which is used to find DENIER.

M3: This mode is set to wind 100 meters of yarn which is used to find TEX.

M4: This mode is set to wind any length of yarn in Yards, the desired length can be set using INC/DEC Keys.

M5: This mode is set to wind any length of yarn in Meters, the desired length can be set using INC/DEC Keys.

OPERATING PROCEDURE

1. Turn on the mains supply to the instrument. The LCD display shows “WRAP REEL WR-01” for 1 sec after power ON. The machine turns ON in the same mode as it was turned OFF.
2. Change the mode if needed. (Procedure to change mode is described later)
3. Place the yarn cone, pass it through the guide and tie it to the screws on the winding wheel.
4. Press Enter/ZERO to set the reading to zero.
5. Start the test by pressing START/INC key. The motor starts slowly for a few turns before achieving full speed. The display continuously updates showing the winding length and stops when the set length is reached. This is accompanied by a long Buzzer Beep.
6. The winding process can be stopped at any time using the STOP/DEC Key and can be restarted using the START/INC Key.
7. Once machine stops, cut the yarn from the spool and tie the loose end in a loop. Similarly cut it from the screw end and tie in a loop.
8. A spring loaded mechanism is provided on one of the arms of the winding wheel so that loop can be taken out easily.

MODE SELECTION PROCEDURE

The following procedure describes the process to carry out mode changes

1. Each time MODE SELECT key is pressed the machine moves to the next mode. For example by pressing MODE SELECT key in M1 Mode we enter M2 Mode. By pressing the MODE SELECT Key repeatedly we scroll through all modes from M1 to M2 to M3 to M4 to M5 and back to M1.

2. In each mode the length of the lea and its unit (YARDS or METERS) is displayed. In Mode M1, M2 and M3 length of the lea is fixed. However, in Mode M4 and M5 the cursor starts blinking indicating that length can be changed. These values can be set in a range of 0 to 999.9.

2.1 To change the length in M4 or M5 mode use the INC or DEC Key when the cursor is blinking. (Factory default for these values is 840 Yards and 900 Meters in M4 and M5 mode respectively.) Once required length is reached press ENTER key to set the value.

3. Once the desired mode is reached press ENTER/ZERO Key to select that mode. On pressing ENTER the display shows zero length which means the machine is ready to start the process of winding.

NOTE: Before starting the test, press ENTER to ensure zero reading on the display

PROGRAMMING PROCEDURE FOR ENGG PARA

Press ENTER/ZERO and MODE SELECT key simultaneously to access engineering parameter mode. The value shown is a factory default setting. It is used to account for motor inertia after a stop command is issued. For example if the parameter shows 20, the motor stop command will be issued 2 meter before completing the required length. The remaining will be completed by motor inertia. This value has to be set after some trial and error as it depends on the properties of the yarn. Once in engineering Mode, press INC/DEC key to change the value and ENTER/ZERO to accept it.

MAINTENANCE

The WR-01 has an AC Motor and rotating cage which need to be lubricated regularly. All the other electronics and mechanical parts however, do not need any maintenance. Care must be taken to make sure that the machine is not operated in areas with high humidity.

OPERATING MANUAL

GUARANTEE

The WR01 is sold with a guarantee for a period of 12 months. This covers free repairs for any manufacturing defects. The guarantee is void in case of physical damage or attempted repairs from the customer end. The instrument must be sent to our facility to for repair works.

SPECIFICATIONS

Model:	WR01
Loop Circumference:	1 Meter (Can be supplied with 1.5 Yard based on order)
Operational Modes:	M1: For COUNT, Auto Stop after 120 yards M2: For DENIER, Auto Stop after 90 Meters M3: For TEX, Auto Stop after 100 Meters M4: Adjustable in Yards (Default 840 Yards) M5: Adjustable in Meters (Default 900 Meters)
Drive:	Single Phase AC Motor
Display:	16-Bit Alphanumeric Backlit LCD
Control Keys:	START, STOP, ENTER, MODE, ZERO, INC, DEC
Power Supply:	230V AC, 50 Hz
Number of Frames:	5 (Extendable up-to 17 based on order)
Size:	800 mm * 800 mm * 500 mm (L *W *H)
Weight:	25Kg approx.

CONTACT INFORMATION

Office

D-218 ANSA Industrial Estate
Saki Vihar Road, Andheri East
Mumbai – 400 072
Tel: +91 89990 65546
Website: www.sncmumbai.in

Works

M/S. Systems and Controls
C-15 MIDC Malegaon – Sinnar
Nashik – 422 103
Tel: +91 70281 33547
Email: info@sncmumbai.in