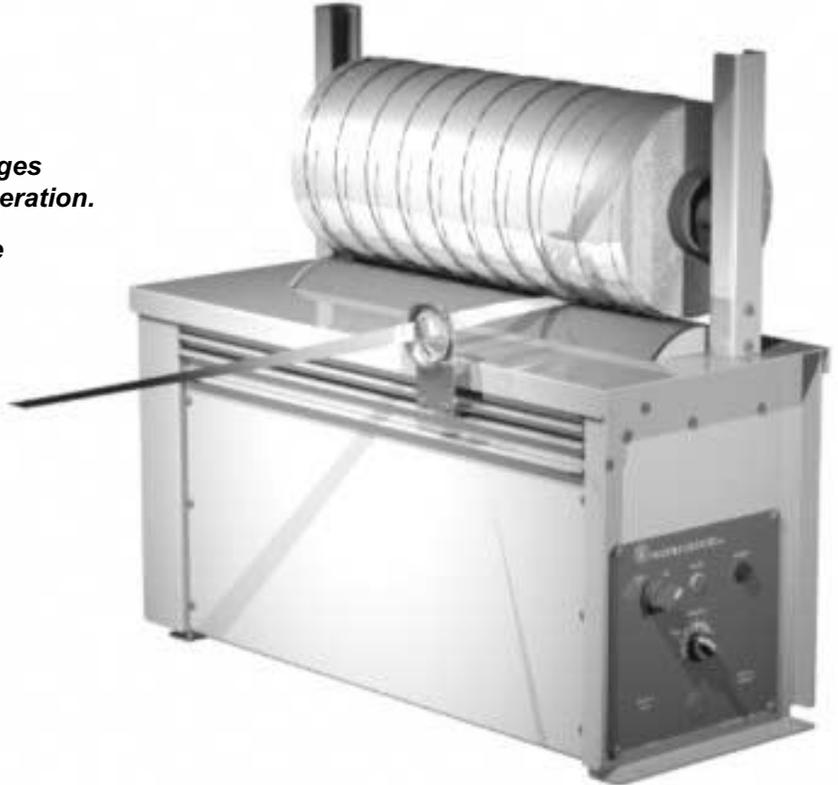


## TW3-SERIES TRIM WINDER

- ▶ **Automatically Adjusts to Line Speed Changes with Constant Tension for Self Tending Operation.**
- ▶ **Adjustable Tension Accommodates a Wide Range of Web Materials.**
- ▶ **Compact Design Requires Minimal Space.**
- ▶ **Operates on 120VAC, Single Phase for Simple Installation.**
- ▶ **Standard and Custom Configurations Available.**



### **Economic Solution for Managing Edge Trim Waste**

#### **Rugged Level Wind Machine Handles a Variety of Web Materials**

The TW3 Series Trim Winder provides a convenient means to wind narrow webs into neat, easily handled packages. The web is wound onto inexpensive cardboard cores which are placed on a supplied mandrel. The core and mandrel are driven by contact with a 6-inch diameter roll, which is covered with a cork/rubber composition friction material.

#### **Precision Transversing Mechanism Provides Reliable and Consistent Performance**

The web is spooled into a package that is 18 inches in diameter by 18 inches long by an oscillating guide ring with an inside diameter of 1.5 inches. The oscillating guide ring is driven by a protected ball reverser with hardened steel components. The principal is the same as a level wind fishing reel.

#### **Robust Design and Quality Manufacturing for Dependable Service**

The drive roll and oscillating guide ring are driven by a direct current motor. Industrial ball bearings are used throughout. The drive is controlled by a unique electronic controller with a potentiometer to adjust tension from 0-5 pounds of force

#### **Simple Setup and Operation**

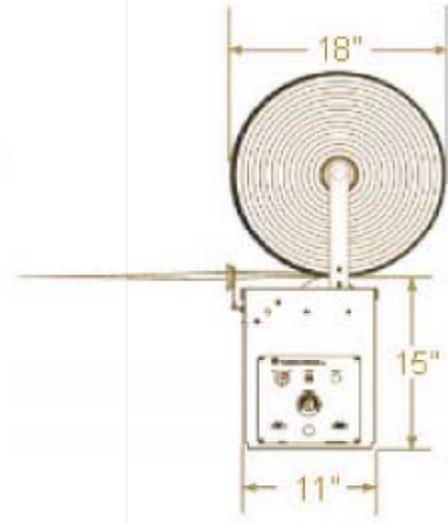
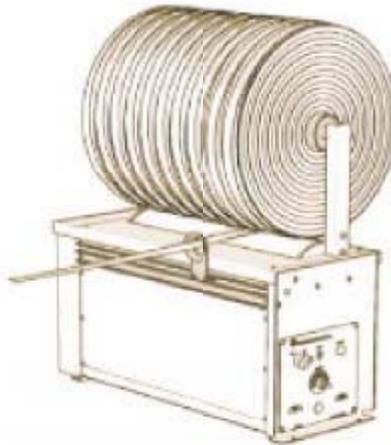
In operation, the unit is threaded-up, the tension is dialed in, and turned on. The winder then follows the slitter or other upstream device, increasing or decreasing speed as required without constant attention. When the slitter stops, the winder stops, maintaining tension until motion resumes. The standard winder can operate at speeds up to 500 ft/min. and high speed versions can operate at speeds up to 1500 ft/min.



**Phoenix Designs, Inc.**

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# TW3-SERIES TRIM WINDER



## Technical Specifications

**Description** Compact level winder designed to follow the upstream slitter by automatically adjusting speed to maintain constant tension on the web trim. A high-friction drive roll is driven by a permanent magnet DC motor with electronic torque control. Torque is adjusted during setup by a potentiometer on the end panel. The surface drive maintains consistent torque regardless of trim roll size.

Edge trim is wound on disposable cardboard cores inserted on a rugged mandrel which is centered on the drive roll by two vertical guide rails. Unloading is accomplished by lifting the core mandrel up and out of the guide rails. Sturdy steel construction and industrial sealed ball bearings are used throughout. Sheet metal covers enclose the drive components, electrical parts and traversing mechanism.

**Web Capacity** The standard unit creates a package 18" wide with a maximum diameter of 18". Other widths and diameters available by special order. Maximum recommended package weight is 100 pounds.

**Web Speed** 0-500 ft/min Standard. Optional speed capacities of 0-700 ft/min, 0-1000 ft/min and 0-1500 ft/min available by special order.

**Web Tension** User adjustable from 0 to 5 pounds. Tension is maintained by a unique electronic torque controller. Other tension ranges are available by special order.

**Guide Ring** 1.5" ID. stainless steel guide ring is standard. Larger stainless Guide Rings (up to 4") and Teflon Guide Rings for adhesive coated webs are available as options.

**Core Mandrel** Standard mandrel is sized for typical 3" cardboard tubes. Other sizes to accommodate customers cores are available by special order.

**Physical** 27" wide X 11" deep. Height (without trim roll) is 26". Center of the guide ring is 15" from the mounting surface. Four 3/8" holes are provided on the end flanges for mounting. Standard finish color is Industrial Mocha Brown. Shipping weight is approximately 125 pounds.

**Electrical** Standard - 120VAC, 1PH, 50/60 HZ, 300VA, NEMA-15 plug on a 12-ft cord.  
Optional - 220VAC, 1PH, 50/60 HZ, 300VA

**Options** The following options are available by special order:

- Custom roll widths and diameters.
- Custom speed and torque ranges.
- Custom colors and OEM configurations.
- Custom stainless steel and Teflon Guide Rings.
- Lockable casters for versatile setup and reconfiguration.
- Polyurethane coated drive roller for abrasive web materials.

**Warranty** Limited 1-year parts and labor.

**Designed and manufactured with pride in the USA**