



THE MODEL 868 PRECISION WIND GLASS TOW WINDER.

Assures Reliable, Maintenance-Free Operation

The Model 868

This machine was specifically designed for Glass Tow Winding it can also be used for winding Heavy Industrial Tows and for Blending/Assembling Hybrid Fibers.

Automated winders and simple robotics virtually eliminate the size and weight constraints of packages. Accurate control of package quality is assured with exceptional repeatability by these rugged, heavy-duty winding machines.

Intelligent winders with easy operator and robotic interface, permits the use of less expensive robotics for automation and package handling.

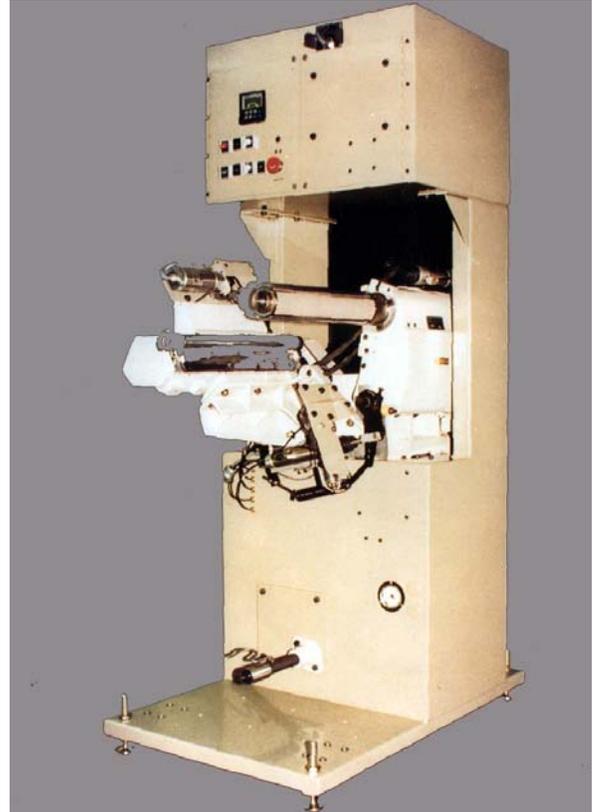
Four Easy Steps.

All done automatically and intelligently are initiated each time the machine reaches a predetermined package size.

1. Upon reaching the predetermined full package size, the power to the spindle is disengaged. The spindle brake is applied slowing the package to a controlled stop. The thread guide positions the strand to a home position, aligning the strand with the cutter / clamp mechanism.
2. The strand is cut and upstream end is held and retained for restarting a new package.
3. The spindle then releases the full package for removal by an operator or a robot.
4. The strand being held is automatically aligned with the spindle clamp. The frame closes to the run position and the strand is secured to the spindle clamp and a new package is started.

Design and Features.

- Automatically stops, cuts, holds and restarts.
- Precise package measuring, selectable to a predetermined metered length or diameter.
- Disk and dynamic braking isolate inertial forces from the transmission for total package control.
- PLC controls of all winding functions and can interface with other machines or host computers.



- Operator controls are designed and mounted for ease of use either by the operator or as a part of a total automated system with robotics
- Tapered head pressure improves uniformity of package build throughout the package and minimizes fiber damage.
- Heavy-duty winder delivers long life, low maintenance and low noise.
- Package sizes include 10" X 10" (254 X 254 mm) and 16" X 16" (406 X 406 mm).
- Increased bolt sizes and wider bearing stances reduce vibration.
- Cam housing can be air purged to reduce fiber migration into the cam housing assembly.
- Split cam housing permits easy access to the cam and traverse guide assembly.(operator change out, requires no special tools or maintenance personnel,

MODEL 868 TOW WINDER FEATURES

Maximum Package Diameter	16-inches	406 mm
Maximum package length	20 inches	508 mm
2.00 Horsepower PMDC Motor (Inverter controlled AC Motor available)	Standard	
Dynamic Brake	Standard	
Pneumatic Head Pressure	Standard	
Rotary Coupling Pneumatic Spindle	Standard	
Manual Jog Function	Standard	
Pneumatic Coreless Spindle	Standard	
Tension Device	Per Customer Specification	
PLC Function Control	Standard	
Heavy Duty Power Transmission Parts	Standard	
Creels.	Optional	
Broken end detection systems.	Optional	
Tension devices.	Optional	
Automatic Cut – Clamp –Restart.	Optional	
Variable head pressure in relation to diameter.	Optional	
Bladed tube holders.	Optional	
Spring controlled head pressure.	Optional	

PHYSICAL DIMENSIONS (with overhead controls)

Depth	46 Inches	1170 mm
Width	27 inches	680 mm
Height **	64 Inches	1630 mm
Approx. Weight	500 lbs.	230 Kgs



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