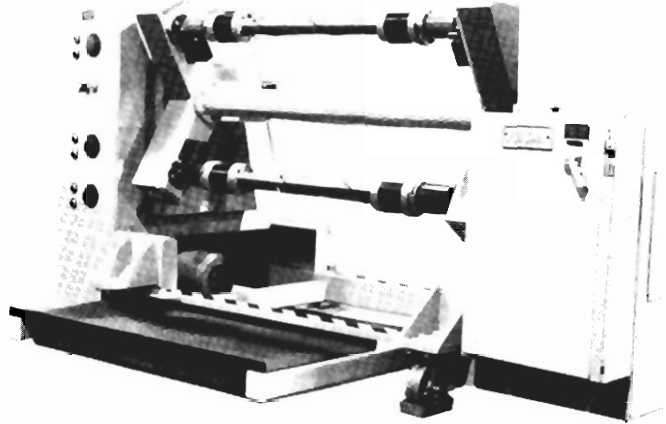


TURRET WINDER TWQ Series

APPLICATIONS:

Vulcan Turret Winders are designed for the winding of sheet as delivered from a sheet line draw roll stand or any other let-off of plastic or rubber sheet. In general, Vulcan recommends a turret winder to have one more spindle than the number of webs being wound. With multiple web applications this will provide an empty spindle for transferring a web once it has completed a full roll. Automatic cut-and-transfer is available, as an option, only on two spindle winders. Other options are powered assistance in the removal of the full roll from the winder and shaftless spindle operation.



Model Shown: TWQ523

MODELS AVAILABLE:

No. of Spindles	Max Package OD (ins.)	Sheet Widths					
		24"	36"	48"	60"	72"	84"
2	24	TWQ222	TWQ322	TWQ422	TWQ522	TWQ622	TWQ722
3	24	TWQ223	TWQ323	TWQ423	TWQ523	TWQ623	TWQ723
2	36	TWQ232	TWQ332	TWQ432	TWQ532	TWQ632	TWQ732
3	36	TWQ233	TWQ333	TWQ433	TWQ533	TWQ633	TWQ733
2	48	TWQ242	TWQ342	TWQ442	TWQ542	TWQ642	TWQ742
3	48	TWQ243	TWQ343	TWQ443	TWQ543	TWQ643	TWQ743

FRAME:

- Heavy wall tubing, formed plate, and structural section weldment
- Two rigid v-groove casters and two swivel v-groove casters
- Screw type floor locks
- Guarding completely covering all moving parts except winding spindles

LOAD CAPACITY:

- The TW series of Turret Winders are designed for maximum spindle capacities of 3000 pounds/spindle
- Spindle capacities higher than 3000 pounds/spindle can be furnished as an option

DRIVE TRAIN:

- **Standard** - separate constant tension winding duty motor for each spindle
 - Tension level remains constant as roll builds from core to O.D. of the roll
 - Tension level is adjustable by variable transformer to a maximum level of 2 PLI unless otherwise specified
 - Four speed transmission allows maximum to minimum spindle range of 50 to 1
- **Optional** - fully programmable closed loop AC brushless servo drive and control clutched from one spindle to another
 - Maximum to minimum spindle RPM range in excess of 1000 to 1
 - Four speed transmission to amplify motor torque for thicker, heavier sheet
 - Normal maximum tension level of 2 PLI; higher levels available

SPINDLE CONFIGURATION:

- Spindles furnished with safety type chucks with 1-1/2" square openings as standard on 6" or above; 1-1/4 square openings for 3" cores
- Separate electrical and mechanical interlocks prevent spindle or turret from rotating before chucks are closed
- Winders are furnished for operation with optional inflatable rubber membrane, sleeve, lug, or button type spindles

TURRET ARRANGEMENT:

- Turret rotates at 2 RPM
- Turret rotates both clockwise and counter-clockwise
- Turret full roll places web over empty spindle to provide easy manual transfer of the web
- Brake on turret drive prevents back-driving by full roll

CONTROLS AND ELECTRICAL:

- **Winding Duty Motor Driven Units**
 - Motor On/Off push buttons for each winding spindle
 - Forward/Reverse turret index push buttons
 - Single turn rotary knob for tension control - each spindle
 - Variable AC transformer with single turn rotary knob selects the voltage on the motor which, in turn, controls the winding tension
 - 460 Volt, 3 Phase, 60 Hertz
- **AC Brushless Servo Driven Units**
 - All parameters are adjustable "on the fly" via a 4-line LCD operator control station with key pad input
 - Drive can be programmed for constant tension, torque taper, dancer control, constant torque, or position error, depending on application requirement

OPTIONS:

- On Two Spindle Turret Winders - automatic cut-and-transfer unit will transfer web from full roll to empty spindle without manual assistance
- Optional powered unloading yoke provides for semi-automatic removal of full roll from winder at the unload station
- Button type, leaf type, or expandable rubber sleeve core spindles
- Shaftless spindle configurations
- Four spindle winders
- Spindle capacity in excess of 3000 pounds
- Electrical other than 460 Volt, 3 Phase, 60 Hertz
- Servo driven spindles

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