

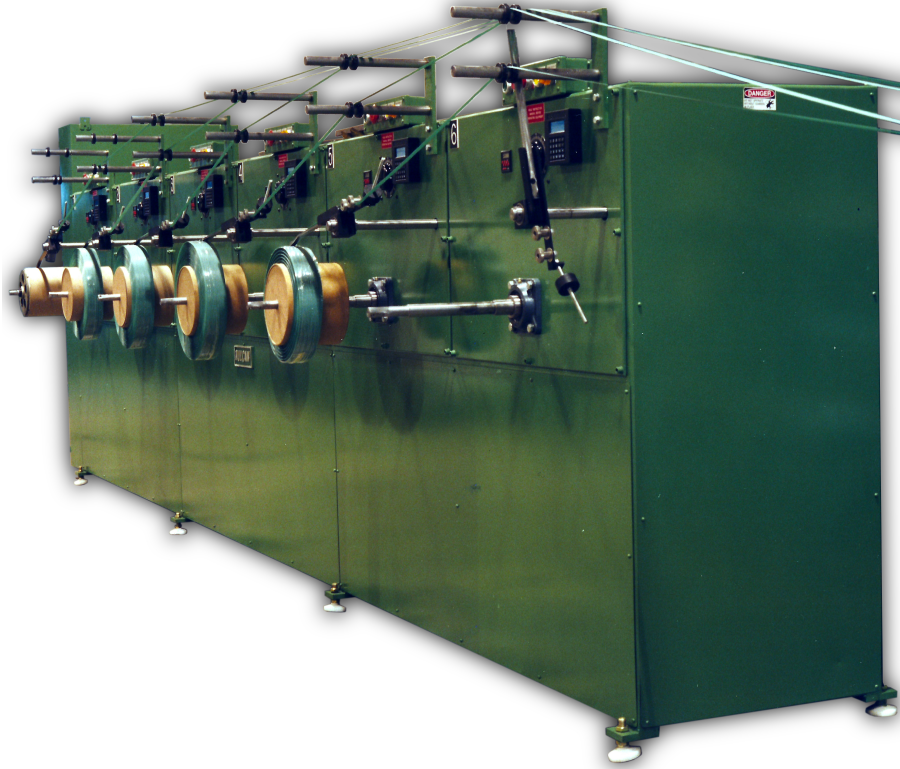


VULCAN MACHINERY CORP.

20 N CASE AVE AKRON OH 44305
PH: 330.376.6025
F: 330.376.2172
info@vulcanmachinery.com

Engineering Makes The Difference™

VULCAN STRAPPING TAPE COILER STC-PS Series



APPLICATION:

- The STC Series Coiler is an extension of Vulcan's high speed coiling technology. The implementation of Geometric End Point Control traversing patterns is accomplished through a winding duty motor driven coiling spindle, set up in a tension mode, and fully programmable AC servo motor-driven traverser axis. Electronic integration of the coiling spindle and lay-on arm traverser provides reliable, precise communication within the system, the modular design enables Vulcan to provide various multiple spindle arrangements based on customer's requirements. This traversing pattern is available with all Vulcan coiling systems.
- Vulcan's approach provides preselected circumferential end (contact) point spacing for each product layer delivering precision control throughout the traversing pattern. With this method, the accumulation of unsupported areas on the coiled package will be eliminated. These unsupported areas often result in trapped ends, thus prohibiting smooth unwinding, or the tendency for either edge wrap to slip off the coiled package.
- This feature provides increased Vulcan coiler performance using existing programmable controls without adding cost. The digital implementation of Geometric End Point Control provides rapid set-up change capabilities when variation in the precise placement of the reversal point of an extrudate, such as strapping tape or other flat profile is desired.

PROGRAMMABLE CONTROLS:

- 4.1" LCD touch screen HMI
- Proprietary software driven display
 - Guides operator through set-up and prevents input errors
- Start pushbutton
- Emergency stop pushbutton
- Single turn line speed potentiometer (for manual operation)
- Reset traverser pushbutton
- Automatic/manual locking selector switch
- Manual counter override with counter reset
 - Pushbutton for reset after package

TRAVERSER:

- Traverser drive is servo motor driven
- Servo motor traverser is electronically coupled to spindle drive via integrated LAN communications network
- Traverser automatically slows down proprietary as RPM of spindle changes with package build-up or line speed changes
 - Pitch infinitely adjustable throughout range
- Multiple traversing patterns include instantaneous and delayed reversal, pancake winding and geometric end point control

PRODUCT GUIDE:

- Product guide system provides close coupling to spool, resulting in precise lay-on with low tension
- One set of product guides furnished with coiler
 - Provisions for tensioning and tension control offered as optional features

SPINDLE CONFIGURATION:

- Winding duty servo motor-driven coiling spindle set-up in a tension mode

DRIVE TRAIN:

- Drive Motor are class H, low inertia, brushless AC servo motors
- Coiler drives are geared in at customer's desired max. speed
 - Max. to min. coiling speed is over 2000 to 1

FRAME:

- Heavy wall tubing, steel plate and structural sections
- Two rigid and two swivel casters and hold-downs
- Screw type floor jacks
- Fully guarded drive train and electrical components

ELECTRICAL:

- Standard Electrical is 230 Volt/3 Phase/60 Hertz
 - Electrical other than the above is available as an option

OPTIONS:

- Custom winding heads for reeless packages
- Fully programmable cut length system
- Incoming line transfer for electrical requirements other than 230/3/60
- Tension adding and controlling system for applications requiring tension
- Automatic storage and retrieval of process parameters based on part numbers
- Extra product guides



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