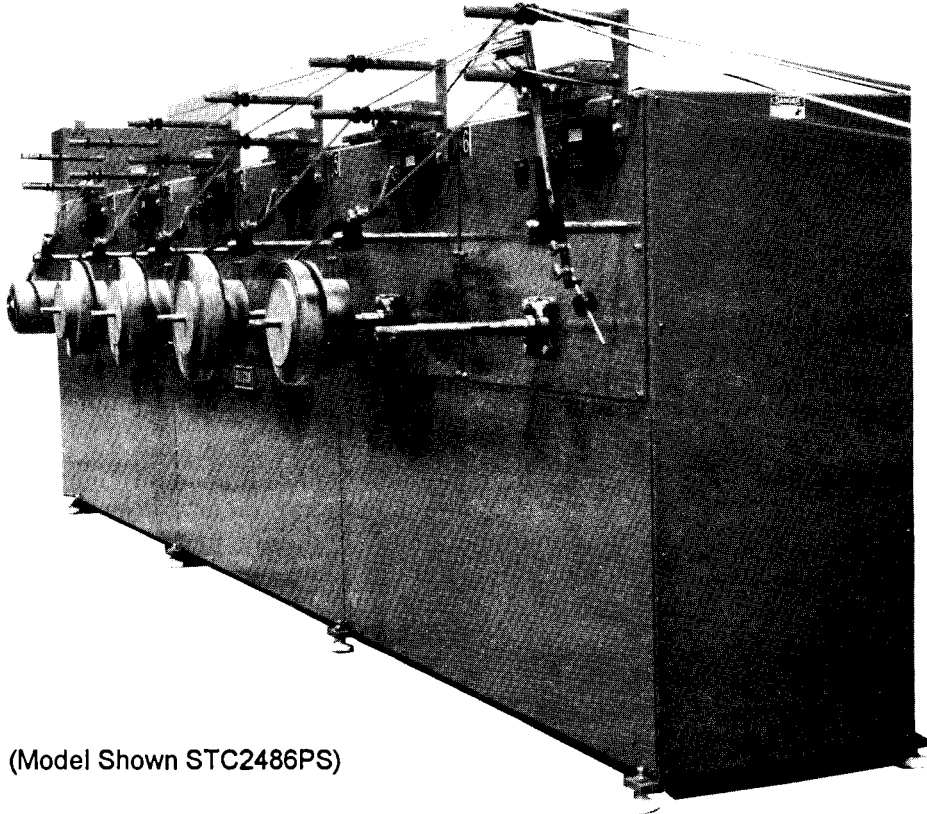


Vulcan Strapping Tape Coiler STC-PS Series



(Model Shown STC2486PS)

APPLICATION:

The modular Strapping Tape Coiler is an extension of Vulcan's current 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 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 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.

FRAME:

- Heavy wall tubing, steel plate & structural sections
- Depending on spindle quantity, two rigid/two swivel casters or anti-vibration floor locks provided

STRAPPING TAPE COILER CONTROLS (one complete set per spindle):

- Vulcan Strapping Tape Coilers are equipped with a winding duty motor driven coiling spindle, set-up in a tension mode, and fully programmable AC servo driven traverser axis
- Program is easily modified using a Basic programming format - complete software and documentation is provided
- Proprietary software driven display guides operator through set-ups with automatic input error prevention
- Four line LCD machine function display with soft touch key pad entry provides simple system I/O trouble shooting
- Servo controller enables operator to perform rapid set-up changes when processing multiple products
- Emergency Stop, Stop, Start, and Reset push buttons; Reset Indicator Light and Audible count reached alarm
- Single turn line tension rheostat and counter display

SPINDLE DRIVE and CONFIGURATION:

- Spindle drive is a winding duty motor set up to function in a TENSION mode
- Coiler drives are geared in to process at the customer's maximum desired line speed
- Maximum to minimum coiling speed accommodates over 500 to 1 package build-up
- Direct coupled fixed spindles are standard
- Number of spindles is determined by customers' requirements

TRAVERSER DRIVE:

- Traverser brushless AC servo motor is driven by a fully programmable AC servo controller
- Traverser servo is electronically coupled to the spindle drive via PWM encoder
- Traverser pitch is infinitely adjustable throughout the range - speed is directly proportional to the coiling spindle RPM, line speed and package build-up
- Multiple traverse patterns are easily initiated

PRODUCT GUIDES:

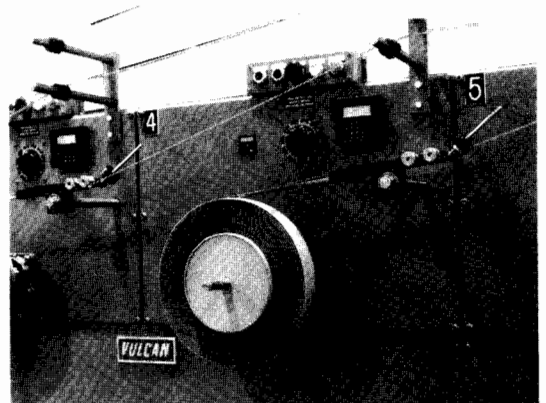
- Product guide system provides close coupling to spool resulting in precise lay-on with low tension & counterbalance
- One set of product guides provided with each coiler - provisions for tension control are offered as optional features
- All necessary product guide fixtures required for threading product to multiple spindles are included

OPTIONS:

- Custom winding heads for reeless packages
- Electrical other than 230Vac/3Ph/60Hz
- Fully programmable cut length indicator
- Tension control system for processes requiring tension
- Additional product guides

ELECTRICAL:

- Standard units are wired for 230Vac/3Ph/60Hz



Vulcan Machinery Corporation

20 North Case Ave., Akron, Ohio 44305
Phone: (330)376-6025 Fax: (330)376-2172