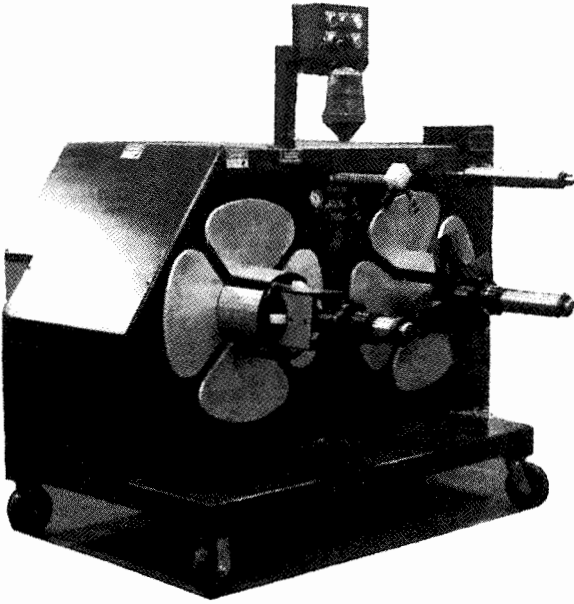
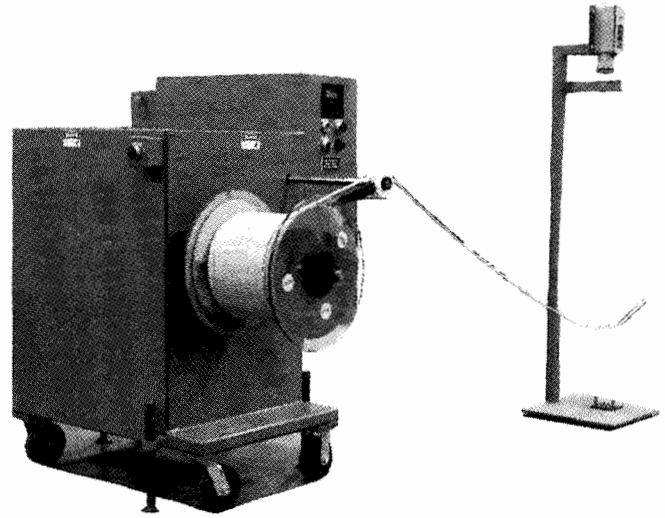


HSC Series Coilers



Dual Spindle Coiler with Reeless Winding Head Option



Single Spindle Coiler Winding on Reel

MODELS AVAILABLE:

Single Spindle Model Number	Dual Spindle Model Number	Max. Package O.D. (Inches)	Max. Package Traverse (Inches)	Standard Arbor Dia. (Inches)	Max. Package Wt. (Pounds)	Drive Spindle Horse-power
SHSC16	DHSC16	16	14	1	75	1
SHSC24	DHSC24	24	14	1-1/2	125	1
SHSC32	DHSC32	32	14	2	200	1-1/2
SHSC40	DHSC40	40	14	2	200	1-1/2
SHSC48	DHSC48	48	14	2-1/2	250	2

APPLICATIONS:

The HSC Series Coiler has been designed for those on-line coiling applications where either the line speed is sufficiently low that the extrudate can be manually transferred from spindle to spindle, or with higher line speeds, where manual transfer will not adversely affect the quality of the coiled package of the product. The Single and Dual Spindle HSC Coilers are designed to have the extrudate fed to the coiler under an ultrasonic sensor/dancer that locates position of the extrudate loop and adjusts the speed of the servo motor driven spindles to maintain a virtually tensionless coiling operation. The addition of low or high levels of tension can be provided if required. The spindle and traverser control is a coordinated two-axis, fully programmable AC servo system. This allows for unprecedented accuracy and flexibility in the coiling of profile, tubing, and hose. An important feature that the servo spindle drive adds to the Vulcan HSC Series Coilers is the ability to operate the coilers as let-off Units. This is accomplished by a program change of the drive.

DESCRIPTION:

- Dual spindle configuration
 - the HSC coiler, in its dual configuration, features an ultrasonic loop sensing dancer system for precise control of the coiling speed without contact with the extrudate. A servo motor-driven and digitally controlled traverser provides very precise control of the pitch with quick change capability touch pad entry of the desired pitch.
 - other important features are a close-couple let-off and the ability to automatically index the traverser to a position over each spindle that is necessary to give optimum winding performance.
- Single spindle Configuration
 - the single spindle version includes the same features as the dual spindle version, except the traverser does not index.

FRAME:

- Heavy wall tubing, steel plate & structural sections
- 2 each rigid & swivel caster & hold-downs

PROGRAMMABLE CONTROLS:

- The HSC series coilers are equipped with programmable logic controls
 - easily programmed using operator friendly, software driven menus
 - functional capabilities include relay logic, timing, counting, sequencing and shift registers
- LED display of machine functions and sequencing provides for easy trouble-shooting of input and output controls
- The PC allows for rapid change-over and set-up from product to product

DRIVE TRAIN:

- Drive motor are class H, low inertia, brushless AC servo motors
- Coiler drives are geared in at customer's desired maximum speed
 - maximum to minimum coiling speed is over 500 to 1

TRAVERSER:

- Traverser drive is servo motor driven
- Servo motor traverser coupled to main spindle drive
- Traverser automatically slows down proportionally as RPM of spindle changes with package build-up or line speed changes
 - pitch infinitely adjustable throughout range

ELECTRICAL:

- Standard Units are wired for 230/3/60
 - electrical other than the above is available as an option

SPINDLE CONFIGURATION:

- Spindles flanged 1" from machine housing
- Flange is 6" O.D. with 4 ea. 3/8"-16 NC holes on 5" bolt circle
- Flange has 1.75" dia. by 1/8" deep female pilot for attaching standard or special package arbors
- One set of standard-size arbors for 14" traverse furnished

ULTRASONIC DANCER AND PRODUCT GUIDES:

- Loop detection by ultrasonic dancer making no contact with product
 - sensors determine amplitude of loop by reflection of time-sequenced ultrasonic tones
 - microprocessor computes loop position and adjusts coiler speed instantly, as required
- 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 feature

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