



VULCAN MACHINERY CORP.

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Engineering Makes The Difference™

**FLEXIBLE SHEET LENGTH SLITTER
SLS Series**



Model Number (1)	Max. Sheet Length (inches)	Max. Sheet Gauge (inches) (2)	Max. Cut Cycles/minute (3)
SLS36	36	.100	11
SLS48	48	.100	9
SLS60	60	.100	8
SLS72	72	.100	7
SLS84	84	.100	6

APPLICATION:

- Vulcan's Flexible Sheet Length Slitter has been designed for cutting flexible sheet as delivered by the draw roll stand from an on-line sheet manufacturing operation or as delivered by a powered let-off in an off-line operation.
- The cut-to-length slitting system consists of a set of servo motor powered nip rolls controlled by an ultrasonic dancer feeding the sheet extrudate through cross line traveling rolling slitter knife assembly onto a downstream conveyor traveling at a synchronized speed to the nip roll feed system. Upon sensing of the pre-programmed length by a digital encoder, the feed nip and the downstream conveyor are stopped and the rolling slitter knife traverses the sheet. Upon completion of the cut cycle, the downstream conveyor and the feed rolls are restarted ramping the sheet extrudate to above line speed to automatically return the amount of stored length in the dancer loop to the pre-cut value.
- (1) Standard slitters do not include the powered let-off unit, which is offered as an option. (2) The max. sheet gauge will vary from these specifications according to the stiffness and toughness of the materials being cut. (3) The max. cut cycles per minute will decrease from the values shown as the cut sheet length increases and the line speed decreases.

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
- Automatic/manual locking selector switch
- Manual counter override with counter reset
 - Pushbutton for reset after package

ULTRASONIC DANCER:

- Three-roll 6" dia. ultrasonic dancer assembly with tension adding capabilities
 - Located between draw roll stand and feed-nip rolls in on-line configurations
 - Located between let-off unit and feed-nip rolls on off-line configurations
- Ultrasonic sensor determines dancer roll position and adjusts the nip roll speed to maintain optimum storage of material in the loop
- Digital feedback system with touchpad entry for establishing length is included

NIP ROLLS:

- Nominal 10" dia.
 - Includes ½" thick layer of 45 A-55 A durometer natural rubber covering
- Lower nip roll is servo-motor powered and controlled for precise cut-length tolerance
- Upper roll is equipped with two each air cylinders to actuate the nip and maintain a closed position during operation
 - Max. operating – 25 lbs./lineal inch of roll width
 - Max. nip opening – 4"

DRIVE TRAIN:

- Drive Motor are class H, low inertia, brushless AC servo motors
- Slitter drives are geared in at customer's desired max. speed

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:

- Let-off units per outlined specifications
- Longer than 60" take-off conveyor
- Corner notching punches per customer radius



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