Model 448 Steel Cord Slice Press

Side Opening Type

The Model 448 Splice Press is employed in the steel cord calendering process, and is used for splicing the trailing ends of steel cords from a completed creel run to the leading ends of cords from a newly started creel run. The side opening feature allows the splice press to be moved onto or off centerline of calender while the steel cords are in place.

Splicing is done by use of uncured rubber strips to bind the cords to each other by pressing the rubber/cord assembly between the electrically heated platens of the splice press.

The rubber strips become vulcanized and adhere to the steel cords, thereby joining the many wires sufficiently to allow the calendering operation to continue.

The splice press is installed in the process line between the forward end of the creel (after the master organizing board, if one is used) and the calender. One side of the splice press may be opened so the splice press is manually moveable between operating position (on centerline of calender) and idle position. Sensors are activated at operation or idle positions and may be used to provide a signal at the calender PLC.

Each platen of the press is energized by turning on separate switches located at the operator panel.

Each platen is individually controlled by its own temperature controller, thermocouple sensed, and in event of control failure, is protected from overheating by a temperature limit switch which shuts off power to the platen when the pre-set temperature limit is reached. The temperature limit is factory set at approximately 400°F (204°C), and may be adjusted to a different value if desired, but in no case should be set higher than 480°F (250°C).

The guard is closed by holding the CLOSE Guard button until it is completely closed. The Safety Edge Guard System, if tripped when the guard is moving, will stop movement until reset by push button at operator panel.

The press is closed by pressing the CLOSE Platen button at the operator panel. The press is unable

to close until the guard is completely closed. Two hooks prevent deflection of frame when pressing. The movement of the hooks and press are interlocked.

Upon pressing the CLOSE Platen button, an alarm light flashes until the press is completely closed.

Automatic opening of the press is controlled by an adjustable timer, which, when timed- out, causes the press to open.

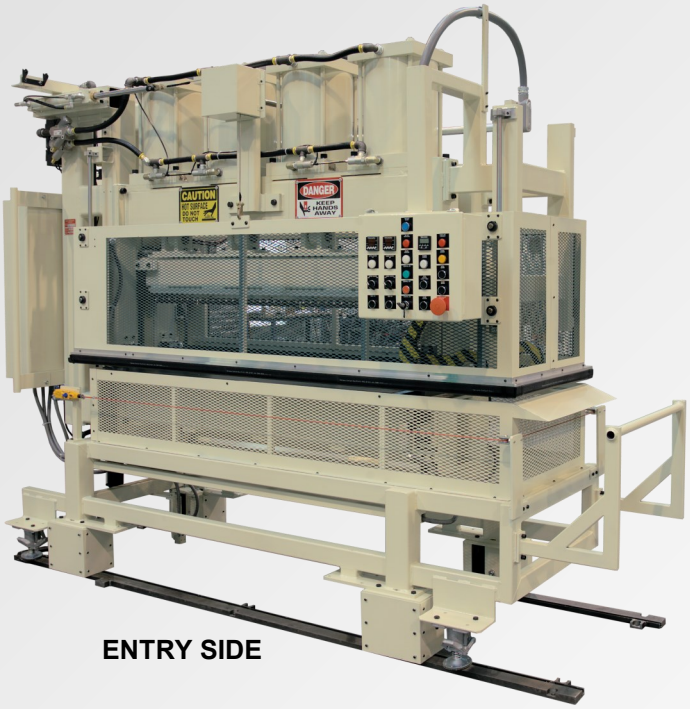
Apart from the timer, the press can be opened by pressing the Platen OPEN button located at the operator panel.

Customer may select right hand (RH) or left hand (LH) machine, which indicates open end and operator panel side.

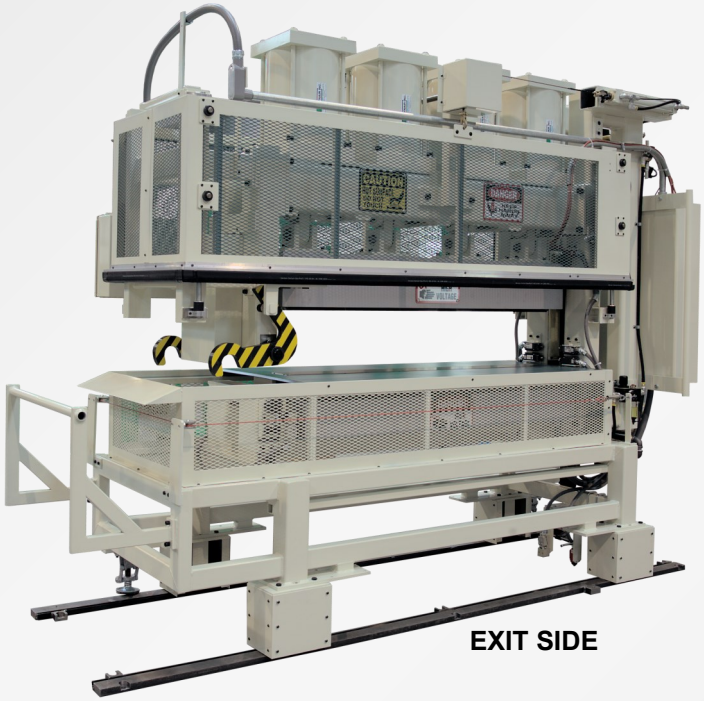
A Safety Rope is located at the base of the Splice Press.

The Splice Press may optionally be provided with steel cord combs and magnetic cord retainers to aid in the organizing of the cords over the platens.

SP-448-2106



ENTRY SIDE



EXIT SIDE

Platen Size, Clear Opening, and Pressure

Platen Size:	60 IN (1524 mm) x 5 IN (127 mm)
Platen Clear Opening:	12 IN (305 mm)
Platen Interface Pressure at 100 PSI (7 KG/CM2):	150 PSI (10.6 KG/CM2) based on platen area

Power Requirements

Air Pressure: 100 PSI (7 KG/CM2) maximum

Compressed Air Volume (at atmospheric pressure): 47 cubic FT (1.3 M^3) per close/open cycle

Electrical - choice of:

a. 480 volts, 3-phase, 60 Hz

b. 380 volts (heating elements operating at 220 volts by connecting from each leg to neutral), 3-phase, 50 Hz

c. 240 volts, 3-phase, 50/60 Hz

Electrical Power Requirement: Both platens, approximately 36,000 watts total

Machine Size, Overall Dimensions
(Length x Width x Height)

130 x 44 x 95.5 IN (330 x 112 x 243 CM)

Net Weight: 5700 LB (2585 KG)

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