

MODEL 448

**STEEL CORD
SPLICE PRESS**

**SIDE OPENING TYPE,
MANUALLY MOVEABLE**



***3400 MASSILLON ROAD
AKRON, OHIO 44312 USA***

TEL: +1 330-896-2387

FAX: +1 330-896-3282

sales@rjscorp.com

www.rjscorp.com

RJS MODEL 448

STEEL CORD SPLICE PRESS

SIDE OPENING TYPE, MANUALLY MOVEABLE

General Description

This machine 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 centreline of calender while the steel cords are in place.

Operation

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 centreline 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.

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 cubic meter) 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.

Controls

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 optional 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.

Safety

There are several safety features employed including the Guard (which must be down for the press platen to move), the Safety Rope and E-stops. All wheels are mechanically guarded. A Safety Edge Guard System is optionally available.

Accessories

The splice press may optionally be provided with steel cord combs and slit rubber cord retainers to aid in the organizing of the cords over the platens.

Power Drive (To move Splice Press on steel rails)

A power drive is offered in lieu of manually moving the Splice Press, employing a gear motor to drive two wheels. Actuation is accomplished by operator rotating and holding a selector switch in the direction of desired travel. Releasing switch stops travel. The output speed is approximately 30 Ft./min (9.2 Meters/min) and is adjustable.

The power drive unit is easily retrofitted onto an existing machine.

Machine Size, Overall Dimensions:

Length:	130 in.	(330 cm)
Width:	44 in.	(112 cm)
Height:	95.5 in.	(243 cm)
Net Weight:	5695 lbs.	(2583 kg.)

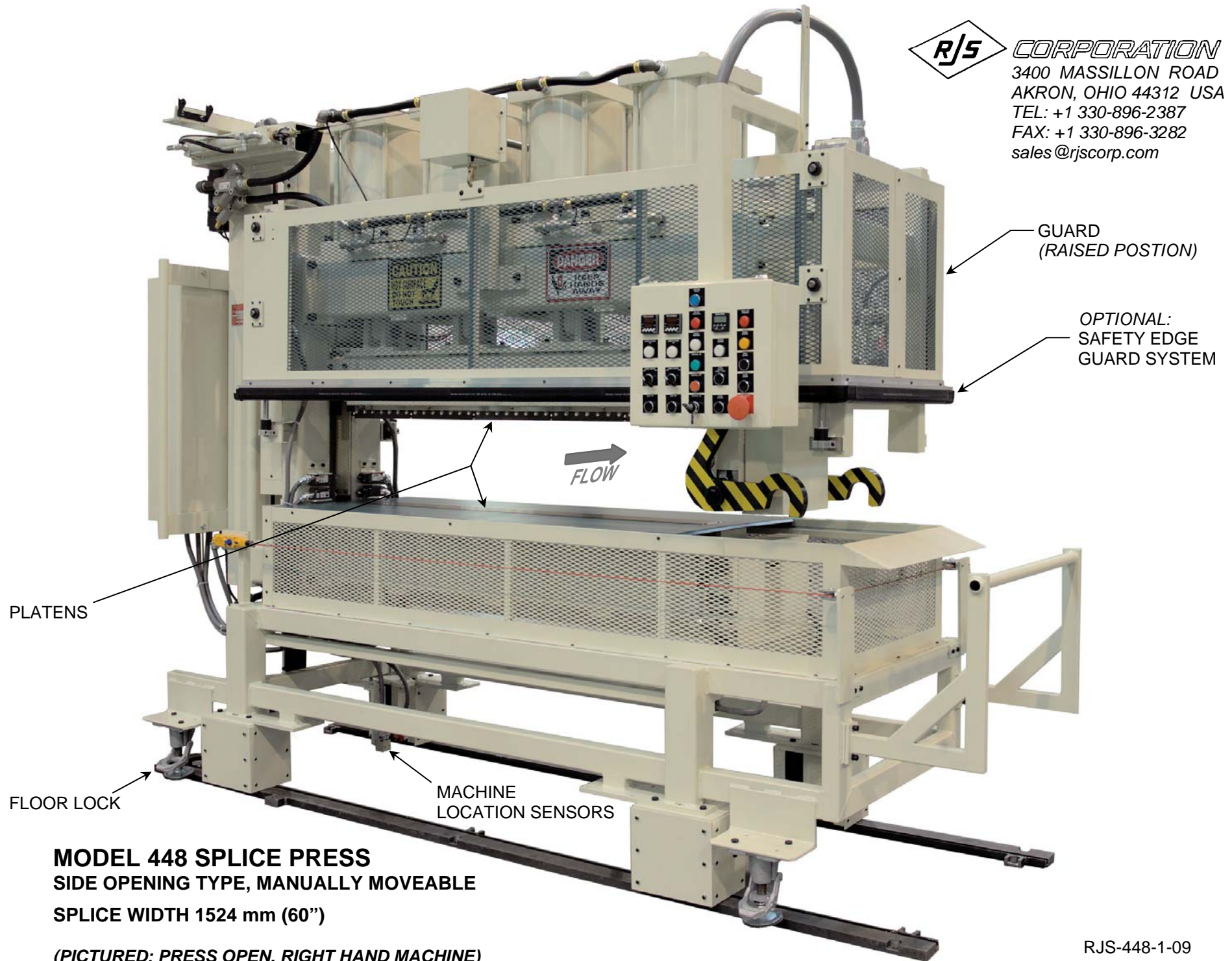
Box Size (wheels and push bar removed):

Length:	125 in.	(318 cm)
Width:	55 in.	(140 cm)
Height:	96 in.	(244 cm)
Gross Weight:	6905 lbs.	(3132 kg.)

Specifications subject to change without notice.

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MODEL 448 SPLICE PRESS
SIDE OPENING TYPE, MANUALLY MOVEABLE
SPLICE WIDTH 1524 mm (60")

(PICTURED: PRESS OPEN, RIGHT HAND MACHINE)

RJS-448-1-09



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GUARD
(RAISED POSITION)

OPTIONAL:
SAFETY EDGE
GUARD SYSTEM

FLOW →

PLATENS

FLOOR LOCK

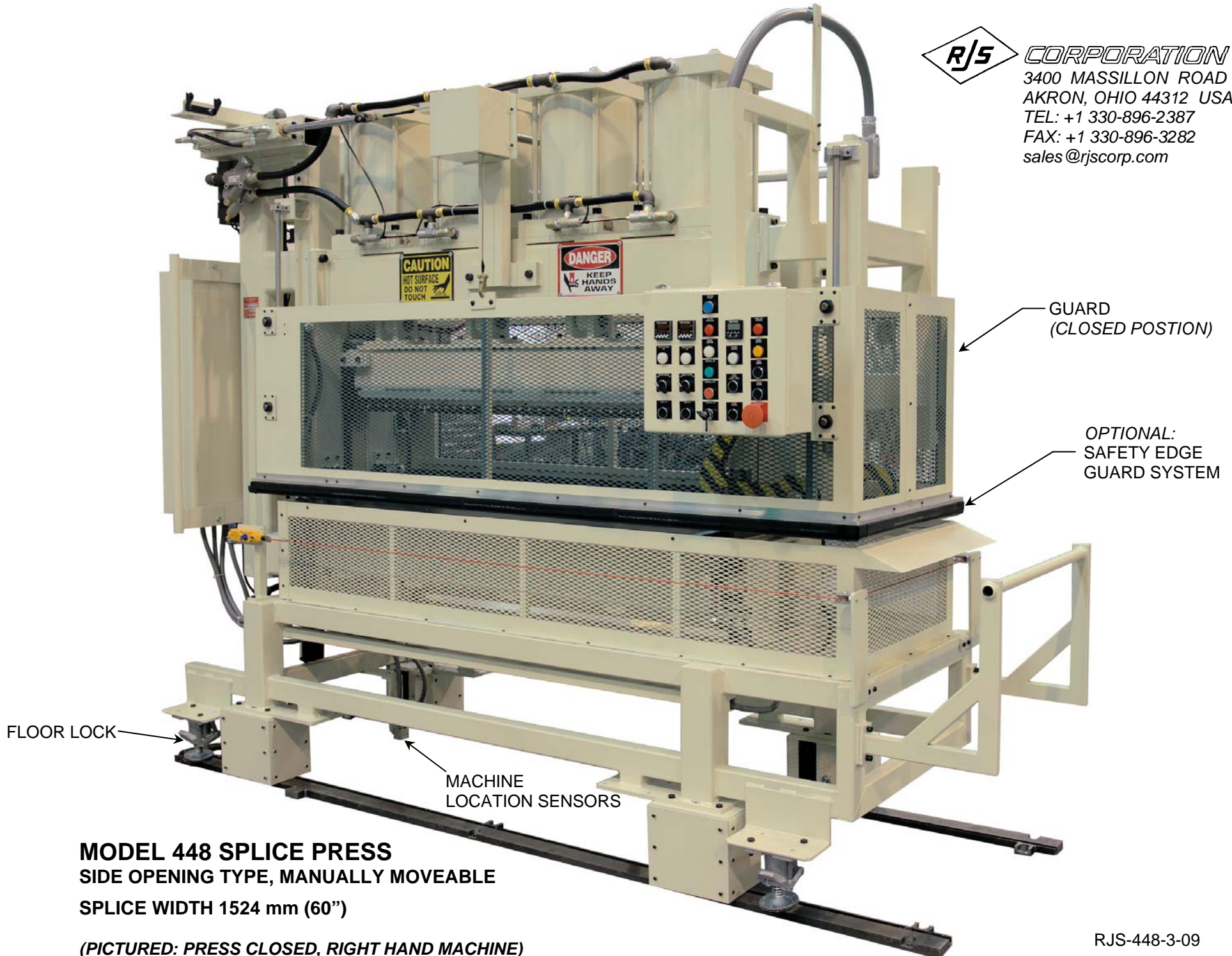
MACHINE
LOCATION SENSORS

MODEL 448 SPLICE PRESS
SIDE OPENING TYPE, MANUALLY MOVEABLE
SPLICE WIDTH 1524 mm (60")

(PICTURED: PRESS OPEN, RIGHT HAND MACHINE)

RJS-448-2-09

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(PICTURED: PRESS CLOSED, RIGHT HAND MACHINE)

RJS-448-3-09