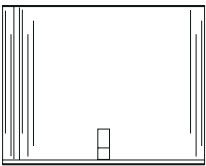
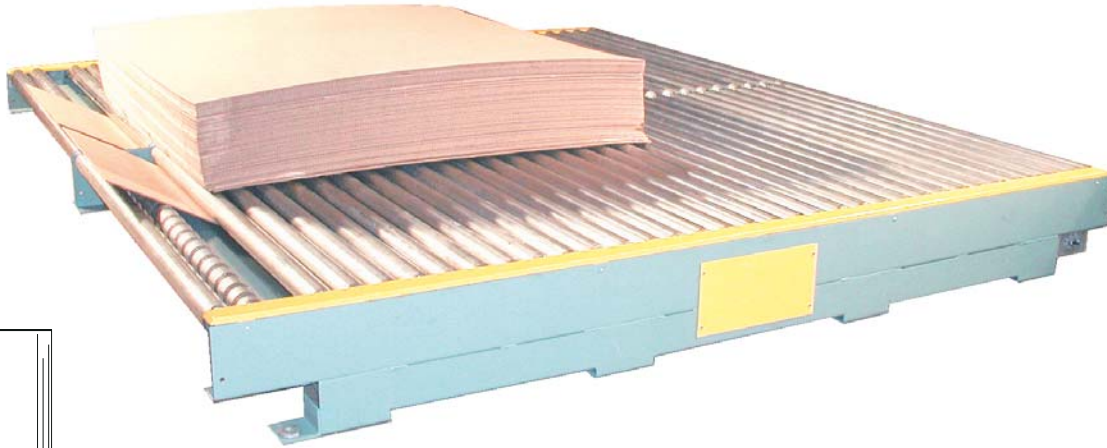


Sheet Insertion Device (SID)



Sheet insertion devices may be paired with conveyor drives accessible from either side.

PRODUCT DESCRIPTION

The Sheet Insertion Device is a chain driven live roller conveyor that includes an internal cavity for housing a bottom sheet to be inserted under a load as the load passes over. The conveyor itself is a standard chain driven live roller conveyor with 2-1/2" diameter rollers on 3" centers. The conveyor is typically driven by a 1 HP gearmotor mounted beneath the load carrying rollers.

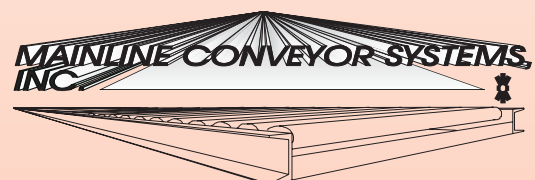
The sheet insertion mechanism consists of a cavity beneath the roller bed that can hold one or more bottom sheets for application to a single load. The bottom sheet is inserted into the cavity, by the operator, through a void in the roller conveyor surface. An operator inserts the sheet into the cavity with the leading edge exposed at the conveyor surface. The sheet, once in the cavity is held in place by the friction between the sheet and the cavity and adjacent roller surfaces. As the conveyor drives the load forward over the exposed edge of the sheet, the sheet is extracted from the cavity by the friction between the load and the sheet.

APPLICATION

The Sheet Insertion Device (SID) takes the place of the Sheet Gripper Device (SGD) and eliminates the need for a pusher device to force the load onto the bottom sheet. The device can be used as a single unit or in pairs, with each conveyor of the pair containing individual conveyor drives.

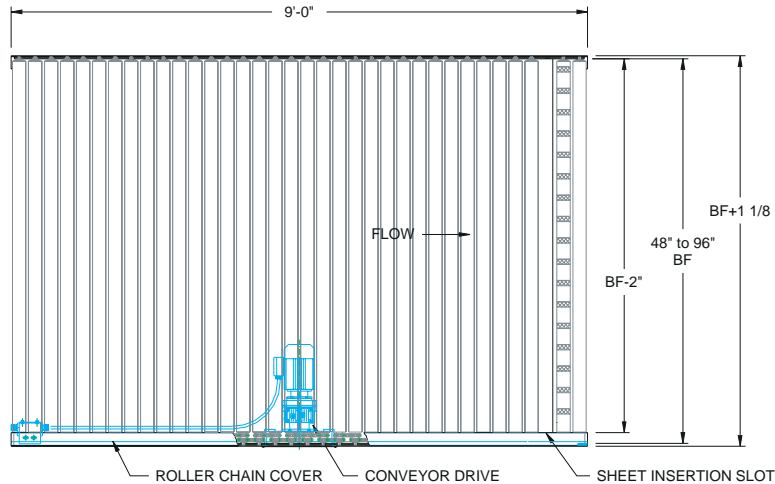
FEATURES

- Fully enclosed cavity provides protection to bottom sheet in cavity.
- Full width cavity and entry slot allows widest possible bottom sheet.
- Slim, formed angle sideframes allow dual arrangement with minimum gap between paired sheets for larger loads.
- Removable slot filler roller provided to allow use of conveyor without inserting bottom sheet.
- Chain driven rollers insure positive load movement.
- Standard 12" TOR configuration.
- Inboard conveyor drive, out of operators way.
- Laser cut shaft supports improves accuracy of assembled unit.
- Low profile chain, sprocket, and guard assembly reduces interference with overhanging loads.
- Self contained, preassembled construction simplifies installation.



SHEET INSERTION DEVICE (SID)

Dimensions



GENERAL SPECIFICATIONS

Nominal Conveyor Width	48" through 96" BF
Conveyor Length	9'-0" (other lengths upon request)
Height	12" TOR
Load Capacity	4,000 lbs.*
Conveyor Speed	45, 60 FPM (other speeds upon request)

POWER REQUIREMENTS

Electrical Supply; Amperage	230-460V/3ph/60hz; 1.85 Amps(460V) @ full load
Drive Gearmotor	1 HP @ 45 or 60 FPM

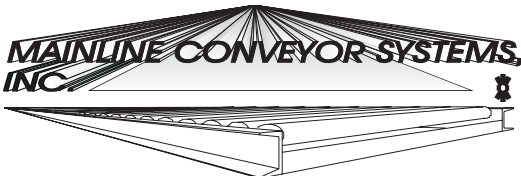
CONSTRUCTION

Frame	Standard Integral weldment includes: Sideframe: FL6 formed angle (C5x6.7# structural channel also available) Shaft Supports: Formed Flat, 3/16" thick x 2-7/8" width w/laser cut support slots Tie Braces (cross supports): 4x2x1/8 rectangular tubing at max 4'-0" centers Legs: Formed Flat, 3/16" thick x 6" width, 2 per tie brace
Rollers	Standard lift-out style chain rollers mounted in frame on 3" centers includes: Tube: 2.5" diameter x 11 gauge steel (flow coat galvanized) Shaft: 5/8" solid CR hex retained in roller Bearings: Precision and Commercial grade, grease packed, sealed for life Sprockets: Two 10 tooth #40, 1/2" pitch per roller
Drive	Flange mounted helical gearmotor concealed beneath the rollers and accessible from the conveyor side

CONTROL OPTIONS *

Manual Operation	Pushbutton operator-actuated conveyor drive Manual single sheet insertion per load
Automatic Operation PC Controls	Combines with load detecting sensors and control logic to advance loads to a position just upstream of the sheet slot

* Contact Mainline Conveyor Systems, Inc. for additional control or capacity information.



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