

# SI LO-TOW<sup>®</sup>

IN-FLOOR TOWLINE CONVEYOR



Figure 1: Dallas Morning News - Automated Roll Delivery System.

SI Lo-Tow<sup>®</sup> in-floor towline systems provide reliable and efficient transporting of newsprint rolls from laydown storage to the reel stands.

Lo-Tow Systems have proven beneficial to the newspaper publishing industry because of their ability to transport rolls to reel stands in any desired sequence, interface with other roll handling equipment, integrate key areas of the operation and provide valuable management information reports on roll consumption.

### Controls

SI Computer Control Systems can provide automation of your entire delivery system operation with visual tracking and real time reporting. Roll tracking and inventory management software captures critical manufacturer roll ID information at receiving, and monitors each roll through consumption. Valuable information regarding paper damage waste and paper quality can be captured for each press run and is available for management review.

### The Smart Choice

The rugged, proven design of SI Lo-Tow in-floor towline components, combined with state-of-the-art controls make towline a more logical and economical choice than AGV systems for roll delivery. Simple and easy to maintain, SI towline systems require a lower initial investment cost, are less costly to operate once installed, and provide a useful system life far greater than any alternative technology available today.

## Features - Benefits

- **Reliable and Efficient**
- **High Throughput Capabilities**
- **Low Cost Alternative to AGV**
- **Minimal Maintenance**
- **Outstanding System Longevity**
- **Can be installed in existing facilities without disruption to production activities.**

### SI SYSTEMS

600 Kuebler Road, Easton, PA 18040

Phone: 610•252•7321

Fax: 610•250•9677

[www.sihhs.com](http://www.sihhs.com)

**800•523•9464**

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## Automated Roll Delivery Systems

### Automated Roll Delivery

SI Handling is the world's largest supplier of automated in-floor towline systems. SI Lo-Tow In-Floor Towline Systems provide highly reliable, efficient, and a low maintenance means of transporting newspaper rolls from laydown areas directly to reel stands. These systems can be combined with state-of-the-art computer controls that automatically dispatch carts to precise laydown lanes. This is accomplished through a press to laydown interface. Prepared rolls are transported directly to the reel stand locations servicing the press that called for a new roll. Rolls may be prepped before or after the laydown area, depending on your operational preference. Roll inventory management and precise consumption reports can also be generated for each press run.



Figure 2: Rolls automatically switch into spurs for reel loading.

### Roll Preparation

Automated strip/de-head/weigh equipment provided by SI assists in improving production efficiency. Using Panelview™ technology and bar code scanners, complete roll information from the paper manufacturer is transferred to the SI information management



Figure 3: Strip, de-head, and automatic roll weighing devices with controls can be provided prior to or after laydown areas.

system. Backup manual input of roll data is also provided. The SI control system gathers the following information:

- Roll Manufacturer
- Roll ID
- Roll Size and Type
- Full Roll Weight
- Brown Waste Weight
- White Waste Weight

All data collected from each roll is held in memory and can be printed and/or uploaded to a host computer at your discretion, immediately following each roll prep or at the end of a press run.

### Laydown Area

SI Handling's complete capabilities also extend to the roll laydown area. Control of fixed or traveling kickers for removing newspaper rolls from conveyors to designated laydown lanes can be directed by the SI Controller or through push-button control at the laydown

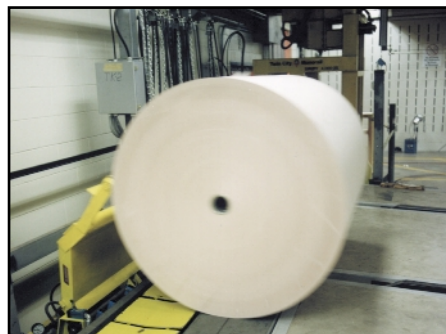


Figure 4: Roll conveyor with kickers position rolls in the correct laydown lanes.

area's operator control panel. Each lane is assigned a specific type of roll for each press run by the operator.

The SI uniquely designed, cushioned stop feeder provides greatly increased laydown storage capacities of up to 10 rolls with only one stop feeder in the lane. This system, which ensures the gentler handling of newspaper rolls, reduces damage potential to them while further safeguarding the laydown area equipment.



Figure 5: Stop feeder devices automatically load rolls onto dollies for transport to reels.

### Retrofit of Non-SI Systems

Because towline continues to be one of our core businesses, SI has specialized in expanding, modifying, replacing or retrofitting towline systems originally installed by other towline companies. Call us for a no-charge consultation.



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