

SI SYSTEMS LO-TOW®

IN-FLOOR TOWLINE CONVEYOR



Key Benefits: Rugged Design, Quiet Operation, Long Life

SI Systems LO-TOW is a low-profile, in-floor towline conveyor. Carriers of any size or design are pulled by the chain and transported to various destinations. Accumulation is available for non-synchronous operations. Switching and merging components allow carriers to divert into spurs or move efficiently from one loop to another. LO-TOW conveyors can also move materials vertically using ramps or lifts. Installations can occur in new or existing buildings. Systems have enhanced manufacturing and assembly operations as well as distribution centers requiring receiving, storage, and shipping functions. Control systems can range from simple relay logic to sophisticated PLC or PC controls. RF carrier identification is available.

Carriers can range from simple wheeled carts to mobile ergonomic work stations with product lift/lower and rotate capabilities. Distribution centers have utilized specially designed roller deck carriers to interface with AS/RS pickup and delivery stations, and also afford pallet off-loading "on-the-fly."

The rugged, proven design of towline system components, combined with sophisticated control systems, make SI LO-TOW a logical choice over other material transport systems. Simple and easy to maintain, SI towline systems require less initial investment, are low cost to operate, and provide a useful system life far greater than alternative technologies.

SI Systems is a full service supplier offering engineering, controls, manufacturing, project management, installation and aftermarket support.

Technical Specifications

Max. Product Weight	45,000 lbs. per cart
Standard Speeds	6" per minute to 90 FPM
System Configuration	Mainline, spurs, transfers, stops, turns (horizontal and vertical)
Optimal Stopping Repeatability	± 1/2" at towpin without external assistance

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Carriers can be provided that facilitate carrier-to-carrier accumulation. A mechanical linkage attached to a carrier bumper raises the towpin out of the chain when the moving carrier comes in contact with another carrier positioned at a stop.

Feature	Benefit
Rugged design, heavy load capacity	Transport up to 45,000 lbs.
High reliability, minimal maintenance	Best value capital investment
Accurate stopping repeatability	Easy integration with off-line automation
Variable carrier speeds	Maximize throughput
Proven controls	Easy to operate and maintain
Carriers with ergonomic assembly positions	High productivity and lower workers comp claims
Indexing or continuous movement operations	Progressive assembly options to match process requirements
Automated transportation	Decreased manpower requirements

Core Technologies

SI Systems is an ISO 9001 certified Systems Integrator and the world leader in design, manufacture and installation of horizontal transportation and automated order fulfillment solutions. Our diverse capabilities and experience are supported by our core technologies which consist of LO-TOW® in-floor towline systems used in manufacturing, assembly and distribution environments; CARTRAC® high-speed, precision accumulation and transport systems utilizing spinning tube technology; and DISPEN-SI-MATIC™ which provides high-speed automated order picking and fulfillment for less-than-full-case orders.



Regional sales offices and business partners located throughout the United States

The Performance and Throughput Experts



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