

Economical, Efficient Material Transport

Towline Conveyors



Towveyor® Conveyors

Shallo-Tow® Conveyors

Jervis B. Webb Company

MATERIAL HANDLING SYSTEM SPECIALISTS





High-volume, unattended transport

Towline Conveyors

For decades, towline systems have played a significant role in the successful automation of warehouse and distribution facilities, factories, freight terminals, and newspaper printing plants. Towline conveyor systems can reduce operating costs, enhance productivity, improve inventory control, and increase work flow efficiency. Towline systems may also be linked with host computers for even greater versatility and productivity.

Webb Towveyor and Shallo-Tow conveyors provide high-volume, unattended material transport via tow carts, which move above in-floor tracks. Cart load surfaces can be customized to hold roller beds, turntables, tilt tops, and racks.

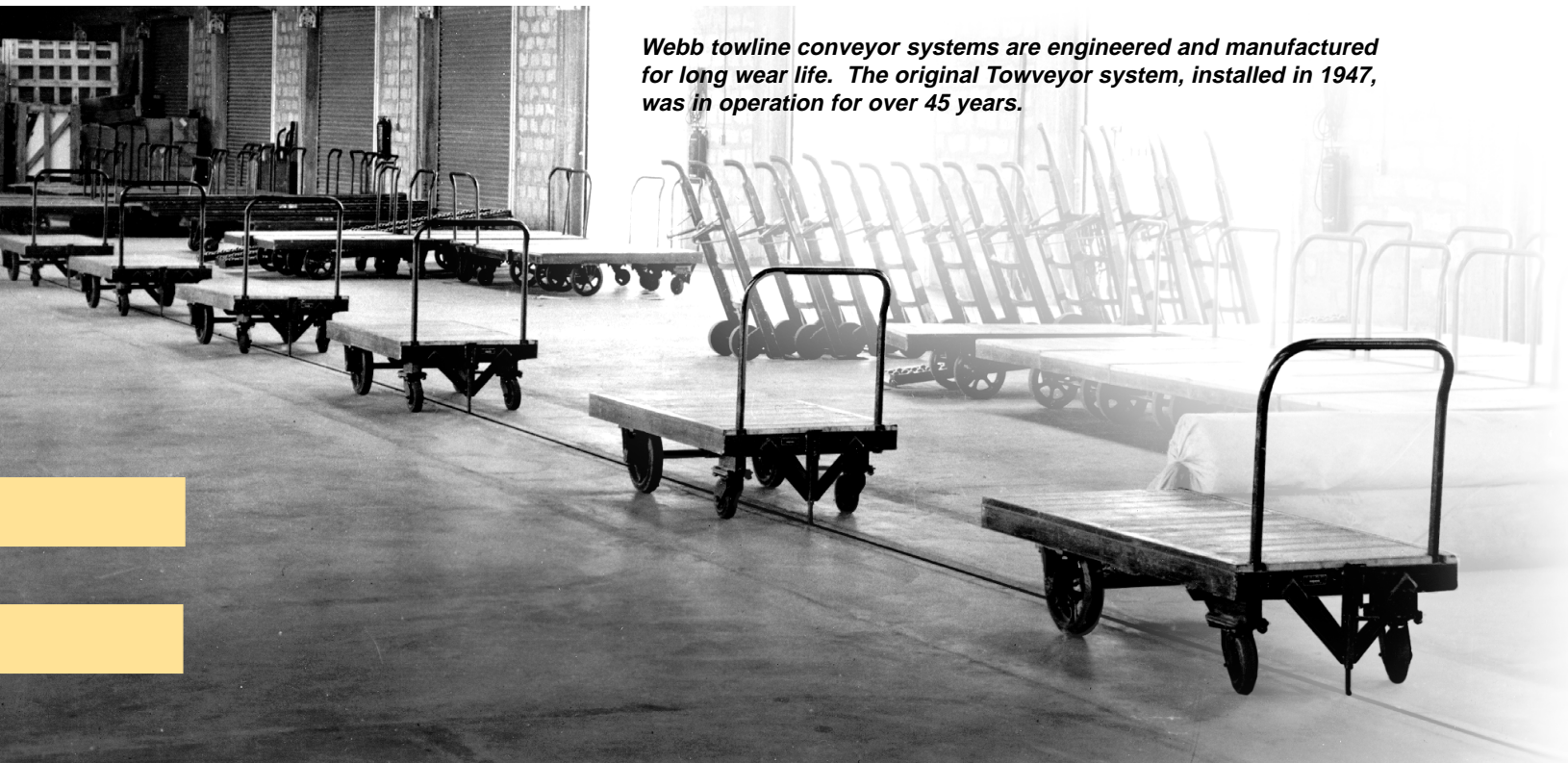
Webb towline systems offer accumulation features, live storage, and automatic dispatching to accommodate a wide range of production-oriented environments. Applications include sorting, transporting, order picking, automatic loading/unloading, storage and retrieval interface, and assembly operations.



Towveyor truck axle assembly line



Truck freight terminals rely on Towveyor system.



Webb towline conveyor systems are engineered and manufactured for long wear life. The original Towveyor system, installed in 1947, was in operation for over 45 years.

Towline Conveyor Features

- **Cleaner operation.** No unpleasant fumes, oil deposits, or batteries to recharge.
- **Reduced aisle congestion.** Moving along set paths, tow carts lessen traffic snarls, confusion and product damage while carts move to predetermined destinations.
- **Increased productivity.** Tow carts pace material flow evenly and smoothly throughout the plant, reducing manual handling.
- **Heavy-duty load capacity.** Cart capacities usually range from 400 to 2,000 pounds, but greater loads can be accommodated. Contact our engineers for design options.
- **Live storage.** Tow carts continually circulate to provide live storage during peak operating periods.
- **Economical installation/operation.** Towline systems can be installed either in new or existing facilities and require minimal construction time. System maintenance does not require highly trained technicians, your own plant personnel can easily handle normal maintenance requirements.

Roller Turns - Roller turns are used for horizontal changes of direction. Our chain design allows for a smooth transition through turns without the need for special escort chains. Featuring removable cover plates that allow easy clean out, maintenance, and inspection. The wear surface of the top bar of the roller turn is made with specially treated high carbon steel.

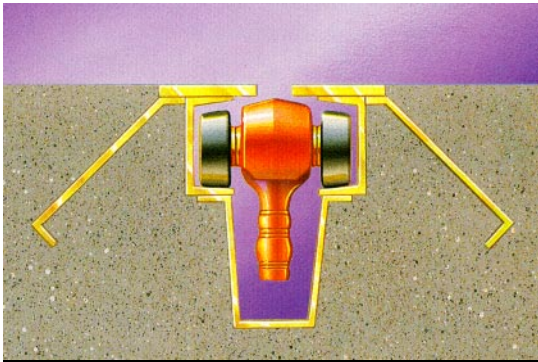


Push-Button Control - Lock-out type start/stop push-buttons are wired into the electrical circuit at appropriate intervals along the towline conveyor path. The conveyor cannot be re-started except at the station at which it was stopped.

Towveyor Drive - Constant speed or variable speed rotary caterpillar type drives feature high carbon heat-treated steel caterpillar dogs. The caterpillar chain is RC-60 roller chain with a patented anti-back flex design.



Towveyor Conveyors



The Towveyor track is of welded construction with two 3" channels and high carbon steel top bars. The track is especially designed for many years of reliable service. Standard pusher and idler trolleys operate in 3-inch channels for most applications.

The pusher trolley frame and counterweight dog are of malleable iron with a specially hardened pushing surface for long wear life.

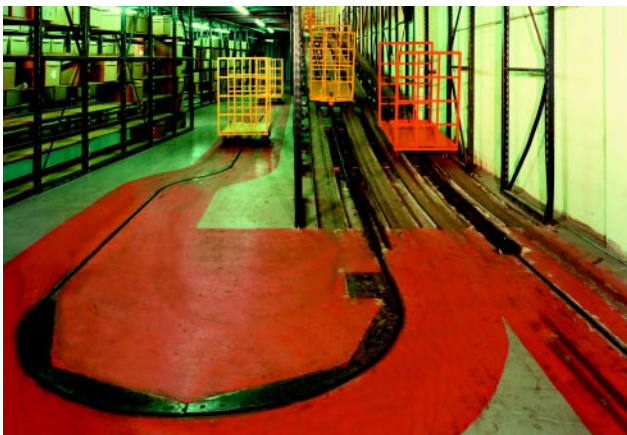
Powered and non-powered spurs divert carts a short distance into the spur. Succeeding carts advance them by low-impact bumping. Pushing bumpers are installed on carts to protect both the tow-pin and IMP probes when contact is made, and lockouts are included to prevent jams. Spring bumpers are recommended to reduce shock and noise. Fully powered spurs convey carts to the last empty position where they are disengaged from the chain by an air-operated "stop" device.

Individual carts can be stopped while the power chain continues to run. This allows carts downstream from the point of stoppage to continue on their way.

The conveyor chain is Microloy® 658 rivetless chain. The high-carbon, heat treated chain components can be assembled by hand, without tools, and can accommodate practically any desired spacing of load-carrying carts. The telescoping feature of Webb chain eliminates the need for take-up, reducing pit requirements.



Towveyor Pusher Trolley and
Webb-X® Rivetless Chain



Mass distribution center and warehouse.



Towveyor newsprint roll handling systems



The Shallo-Tow track is formed of alloy steel and has replaceable wear-bars. It is adaptable to most industrial applications except those where grit and abrasive materials are encountered.

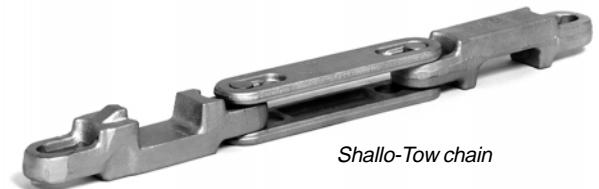
Shallo-Tow Conveyors

Shallo-Tow conveyors are low-profile conveyors designed for use in facilities where track depth and economy of installation are of prime importance.

Shallo-Tow conveyors have a track depth of approximately 3 inches and function without trolleys. The chain assembly slides along lubricated wear-bars within its low-profile track.

The standard Shallo-Tow track is self-anchoring, eliminating the need for concrete anchors.

Shallo-Tow chain is made from heat treated, forged steel. The Shallo-Tow chain consists of four basic parts: center, side and pusher links, and chain pin. The chain requires no special tools and can be assembled or disassembled by hand. Like the Towveyor chain, the telescoping feature of the Shallo-Tow chain eliminates the need for take-up, reducing pit requirements.



Shallo-Tow chain



Shallo-Tow furniture finishing system





The Jervis B. Webb Company can custom design, manufacture and install complete Towline systems, including simple or sophisticated controls, to suit your production requirements.

Jervis B. Webb Company

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