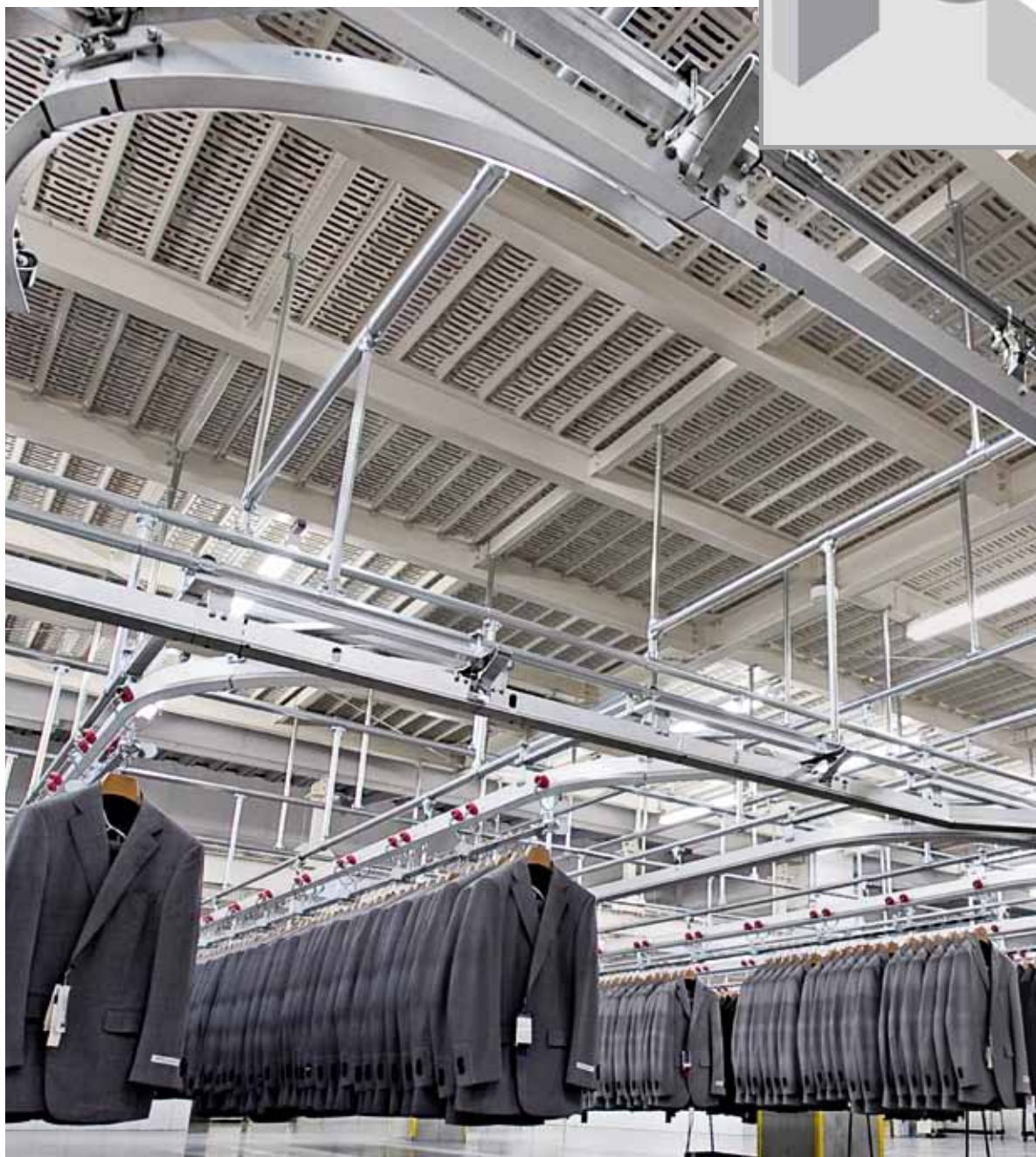


GTT Trolley Conveyor Systems

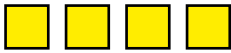
Trolleys – Conveyors – Switches

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Technical Information





Trolley loading station

The GTT overhead trolley transport system allows for a fast transport of goods. The basic installation consists of tracks, switches, conveyors and trolleys. The system can be extended further, with a variety of components, depending on the specific requirements.

In warehousing and distribution operations, and in production, as well, receiving, buffers, storage areas, workstations, machines and dispatch are connected with each other. Trolley telescopes and loading loops are utilized for loading and unloading the trucks. Internal transports are carried out manually, semi-automated or in fully automatic fashion. By linking the trolleys, they can be pushed and/or pulled in a »train-like« manner. The trolleys are guided symmetrically and safe of any kind of »derailment«. In semi-automated systems, areas located on the same level are connected with each other by special-design conveyors, as brush, chain and belt conveyors.

With brush and belt conveyors, the trolleys are buffered according to the Power&Free principle and assigned according to request tasks. Different levels are connected by diagonal tracks, spiral conveyors or lifts.

Chain conveyors allow for reversible transport operations, i.e. trolleys can be moved in both directions, on the same



Transport suspension gear



Linked trolleys



Transport suspension gear with four-fold moving gear



Automatic outfeed of gravity buffer

conveyor tracks, to various different levels in the building. In automated systems, trolleys are precisely transported, buffered and diverted. The entire distribution process is monitored by our *selektron* material flow control system.

The rail system is either suspended from the ceiling, or installed with a support structure from the floor. Major components of the modular system are curves as well as manual and automatic switches. The equipment can be changed or extended, according to the respective system requirements.

Garments, on coat hangers, are conveyed with a standard trolley, which can be loaded and unloaded both, manually and automatically. For flat-pack items and industrial applications, a large variety of suspension gears and adapters of different shape and form, and for different weights, are available. These, too, can be customized or extended.

For identification, the trolleys can be equipped with a barcode, matrix code or RFID tag/transponder. Empty trolleys are kept available at the receiving, in the storage and picking area, and/or at the workstations, in the automated empty trolley magazines or in manual empty trolley buffers.



Manual transport



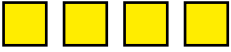
Diagonal track



Spiral conveyor

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Turntable switch

Technical Data

GTT Trolley Conveyor System

Trolley buffer length (standard)	L	=	22"
Weight capacity (standard)	G	=	70 lb
Weight capacity (HD)	G	=	140 lb
Weight capacity (SHD) (with four-fold moving gear)	G	=	230 lb

GTT Trolley Transport System

Max conveyor speed	v_{max}	=	30 ft/min
Throughput	max	=	1,000 trolley/h
Incline	max	=	30 degrees
Conveyor height	H	=	6.3"



Loading boom for truck loading/unloading



2-way switch



3-way switch



psb has extended its overhead product range by the system elements of »Gärtner Transporttechnik«. For the existing Gärtner system installations in operation, psb provides service support and maintenance, as well as comprehensive advice for any system extensions.



Manual switch

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