

SSI SINGLE

The universal modular overhead conveying system

The SSI Single by SSI Schaefer provides new possibilities for flexible transport of hanging goods. The universal usability increases efficiency especially when dealing with fashion and in laundry. High-quality materials ensure the stable mechanical design of this sophisticated modular system. SSI Single transports and sorts single garments on to hangers on horizontal and vertical conveyors. Depending on the requirements, the following conveyor types and functional units are used.

▼ Ladder conveyor as storage system and clip conveyor



Advantages

- ▶ Transport weight up to 5kg per hanger
- ▶ Transport of single hangers or special adapters
- ▶ Single item identification or formation of trains
- ▶ Horizontal and vertical conveyors
- ▶ Customized conveyors according to logistical requirements
- ▶ No empty carrier storage or buffer conveyor required
- ▶ High system performance

Special features

- ▶ Three dimensional application
- ▶ Accessable from both sides
- ▶ Hand-over to the front, left or right side
- ▶ Speed of up to 1 m/s
- ▶ Compatible, i.e. can be connected to all system components
- ▶ Can be used for storage or transport

Markets

- ▶ Retail, E-commerce
- ▶ Industrial laundries
- ▶ Textile industry

▼ Ladder conveyor as storage system



Simplicity and compatibility

Only 3 basic conveyor types fulfill all logistical requirements. The SSI Single modular system transports, accumulates and stores. The individual conveyors can be lined up or connected smoothly by means of standardized transfers.

Aluminium lightweight construction and the use of plastic injection molding parts reduce the total weight and thus the load on supporting structure and construction.

The slim and modular system simplifies and optimizes the spare parts management, service interventions and installation. The limited parts variety also reduces the required training effort.

Handling systems such as telescopes or packing machines can be ideally combined with our systems without modifications.

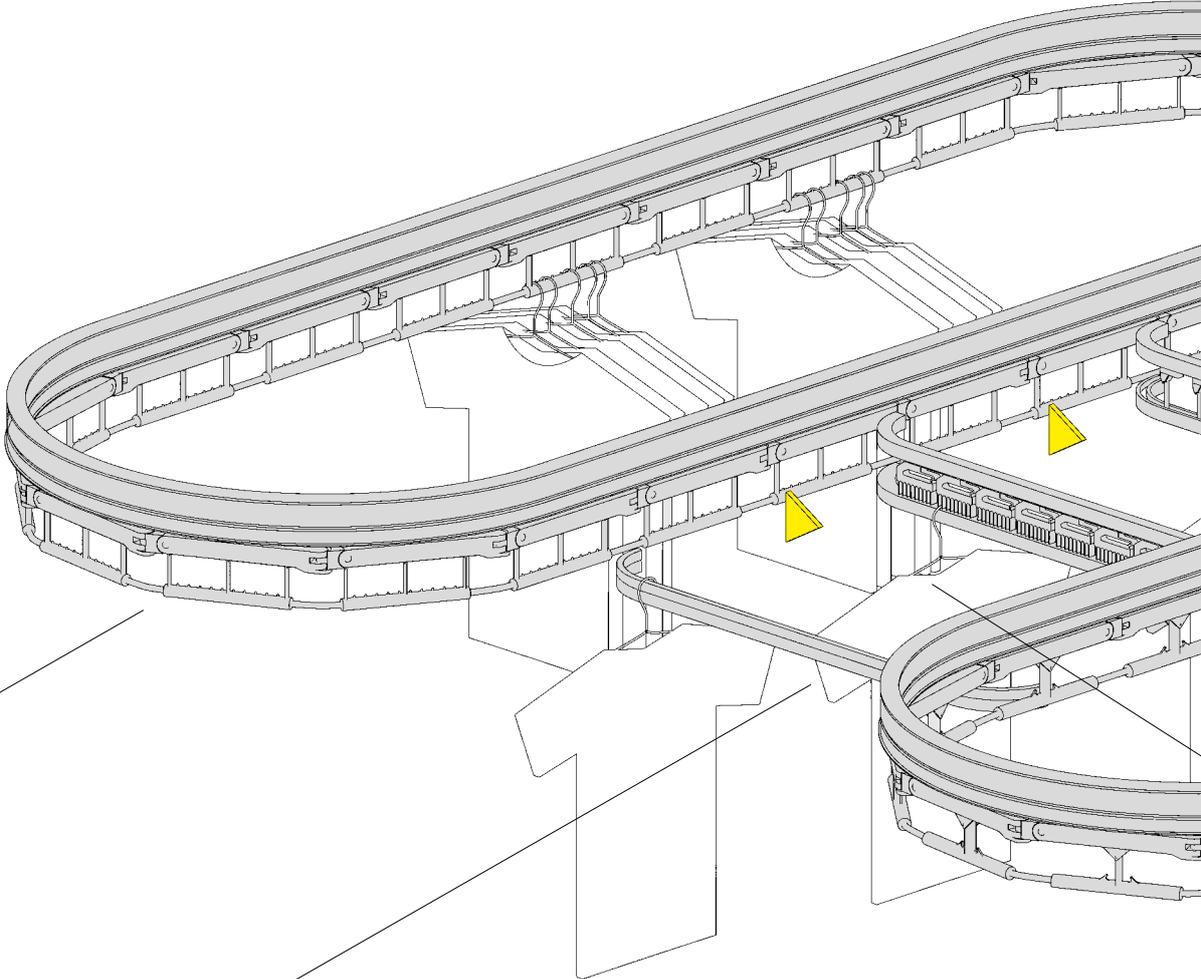
▼ Unloading trolley by a combination of lamella, finger and clip conveyor





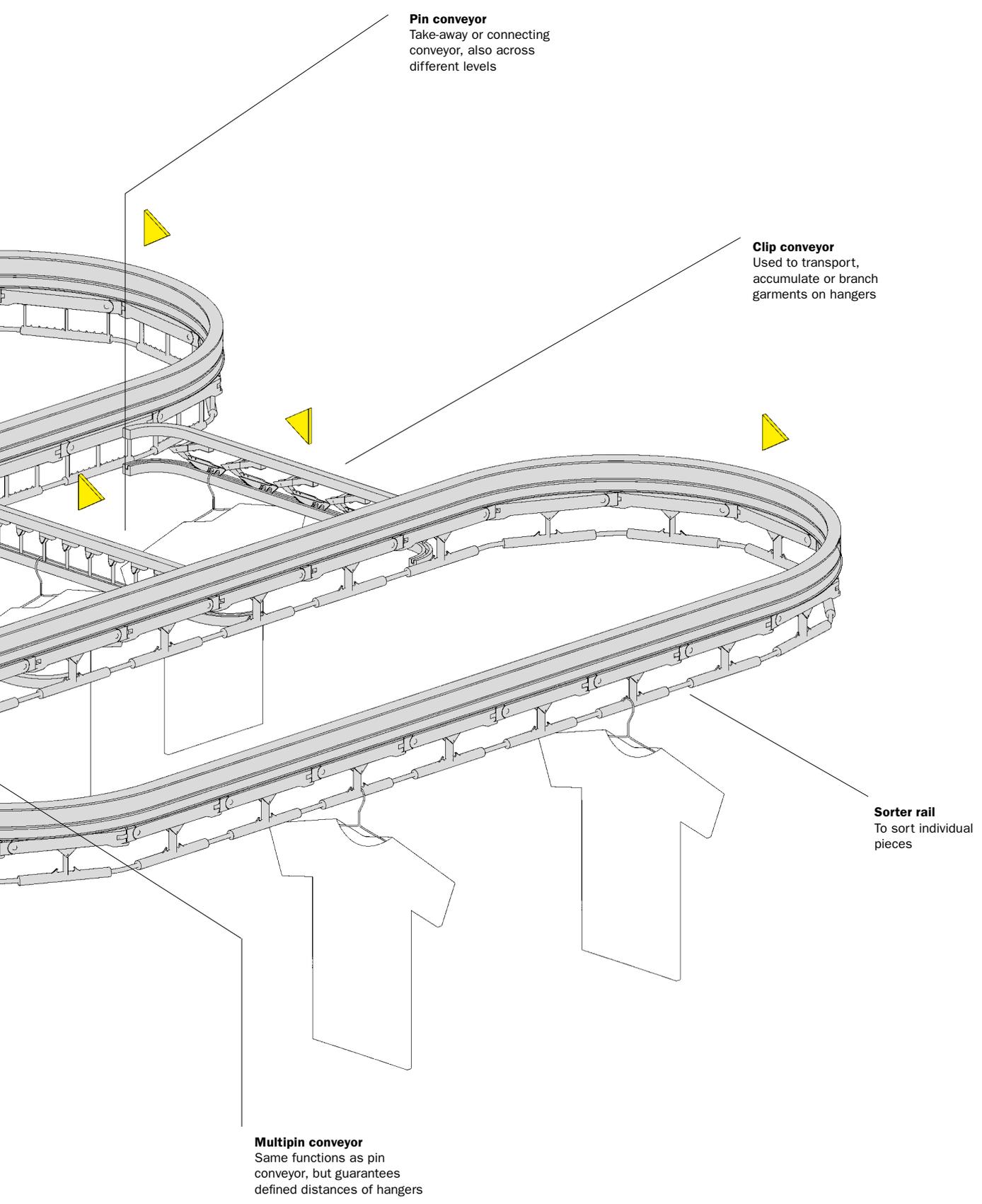
System overview and function of the various conveyors

Graphic presentation



Rail
To transport large quantities of goods over long distances

Push rail system
For manual process steps such as quality check, labeling or putting garments on hangers; or as head of sorter



Pin conveyor
Take-away or connecting
conveyor, also across
different levels

Clip conveyor
Used to transport,
accumulate or branch
garments on hangers

Sorter rail
To sort individual
pieces

Multipin conveyor
Same functions as pin
conveyor, but guarantees
defined distances of hangers

SSI Single: conveyor types

Manual push conveyor – push rail system

The manual push conveyor is the manual component of the system and is used in case of low performance requirements. Manual push conveyors can cover short distances with garments on hangers. Thanks to a bearing layer, the hangers can be moved by hand independent of the direction – even over longer distances. This conveyor type is applied in particular for manual process steps such as quality check, labeling of hanging garments on hangers. The system can be easily connected to automatic conveyors.

Pin conveyor

The pin conveyor transports goods by means of pin ledges that are mounted on roller chains. It is used as a take-away or connecting conveyor. Other fields of applications of the pin conveyor are:

- ▶ Cycle conveyor
- ▶ Buffer conveyor
- ▶ Telescope conveyor

The pin conveyor is extremely space-saving because the chain moves forwards and backwards on the same profile. This conveyor can be applied horizontally and vertically. The pin conveyor is especially suitable as a take-away conveyor for storage areas as almost all standard hangers can be hung from the side. Part of the standard layout are functional units such as transfers to the right and left as well as intersections.

▼ Push rail system



▼ Separating hanger



Multipin conveyor

The multipin conveyor ensures gentle product transport. Defined intervals prevent the hangers from moving during transport. It is completely compatible with the clip conveyor and the pin conveyor, i.e. all basic elements such as drives, deflections and transfers are the same as in the other conveyor types.

Clip conveyor

The clip conveyor is a zero-pressure conveying system. This conveyor transports, accumulates and diverts single garments on horizontal and vertical conveyors.

This conveyor can be used as mere transport or as a take-away conveyor or a sorter; as an accumulation conveyor it is designed so that the accumulation pressure is minimal. Accumulation of goods is also possible in horizontal bends. Transfers to the front or the sides facilitate flexible conveyor layout.

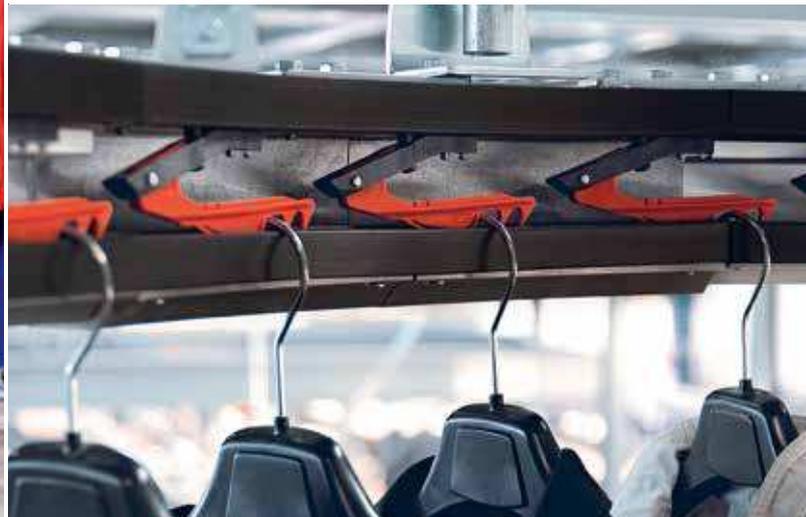
▼ Declining sorter drop-off bar



▼ Clip conveyor – accumulation function when clip is open



▼ Clip conveyor – transport when clip is closed



Ladder conveyor

The universal ladder conveyor can be used as a transport or storage conveyor or even as a high-speed sorter – by only changing the ledge. The conveyor length is almost unlimited due to the use of friction roller drives. There is also no need for tensioning elements. The conveyor is 3 dimensional and thus every spot can be reached. The connecting rod chain with friction roller drive ensures a clean transport. Typical characteristics of the ladder conveyor are low maintenance and are in no need of chain grease/oil.

The ladder conveyor facilitates automatic loading and unloading of goods. A special feature of this conveyor is the reversible operation – made possible by intelligent plug and screw connections. The closed system ensures high operation safety and a low noise level.

Lamella conveyor

Lamella conveyors are used in front of accumulation conveyors or branch rails to ensure a smooth horizontal or vertical transfer. A chain wheel drive actuates a link chain with lamellas. By means of the lamellas individual hangers can be automatically loaded and unloaded, taken over and transported – independent of timing. This conveyor is used for transporting single garments on hangers horizontally and vertically.

▼ Storage – ladder conveyor



▼ Sorter – ladder conveyor



▼ Lamella conveyor



Data and characteristics of a powerful system

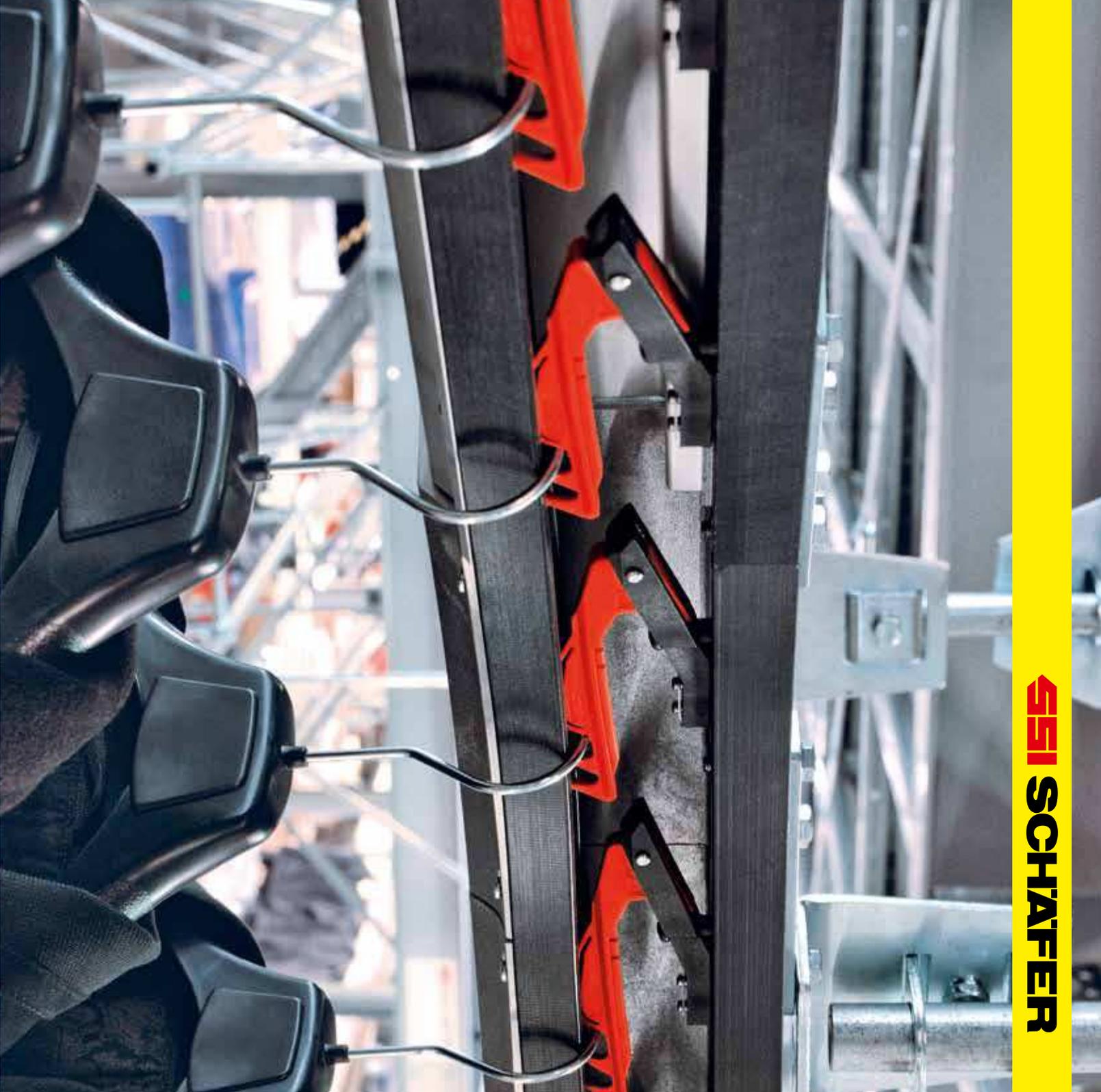
- ▶ High system performance of up to 30,000 parts per hour possible
- ▶ Flexible usage of the main guiding profile for several drive types
- ▶ Tried and tested components ensure extremely high durability
- ▶ Stable guiding profiles guarantee low-wear operation
- ▶ Simple spare parts management due to modular design
- ▶ Optimum height structure
- ▶ Flexible system design
- ▶ Modular system based on a limited number of standard components
- ▶ Low-maintenance conveying system
- ▶ Fully-automatic handling of all standard hanger types
- ▶ Easy to install
- ▶ Motorized inclines and declines of up to 60° depending on hanger type
- ▶ Standardized software by HSP
- ▶ Connection to existing systems, even third-party systems
- ▶ Easy integration of handling systems
- ▶ Coherent conveying system
- ▶ Different hanger materials can be transported and sorted simultaneously
- ▶ Different automation steps possible



▲ Multipin conveyor

▼ Pin conveyor





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