

SWISSLOG PALLET TECHNOLOGY

ProMove Pallet Conveyor System



Innovative & modern!
A truly modular design concept offers unique flexibility and unrivalled quality in the overall conveyor system.

Swisslog's pallet conveyor system ProMove is based on proven standard elements and can be configured to accommodate customers' requirements.

Benefits

- > Frequency controls for high-speed operation and gentle load handling
- > Compact starter technology for easy commissioning and manual error handling
- > Easy installation and short commissioning time due to tested, pre-wired and pre-commissioned delivery
- > Easy access and maintenance
- > Elevated cable trays facilitate floor cleaning
- > Remote monitoring on PDA's

Areas of application

Wide variety of pallet transportation functions

- > Connect sources and destinations
- > Goods-in and goods-out areas
- > Warehouse front-end incl. pick-up and deposit stations to cranes
- > Profile gauges and weighing stations
- > Picking stations
- > Interface to other systems

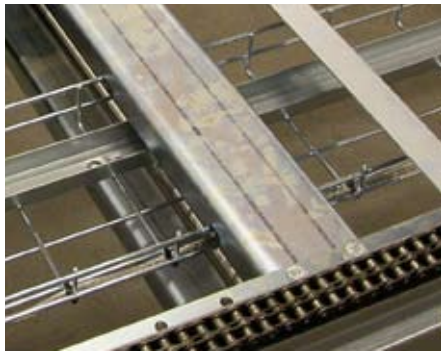
Typical application range

- > Distribution centers
- > Production facilities
- > Transports to different areas and/or buildings
- > Elements can be used as load-handling devices in other systems (i.e. monorails, AGV)
- > Modernization and expansion

ProMove - Facts

Load range	up to 1 500 kg
Standard speeds of operation	0.2, 0.35 or 0.5 m / s
Standard acceleration	0.4 m / s ²
Throughput transfer unit	250 - 350 load units / h
Throughput turntable	175 - 300 load units / h
Speed of operation shuttle car	up to 4 m / s
Speed of operation vertical conveyor	up to 1.3 m / s
Height of lift vertical conveyor	up to 40 m
Temperature range	from -28°C / -18° F
Load carriers	all standard pallets, other load carriers upon request

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Design & Range

In general

- > Conveyor elements are delivered ready for installation and connection
- > Steel structure made of cut and formed steel sheets with optimized profiles instead of heavy rolled steel for added strength and rigidity
- > Very accurate joining technology which uses shear buttons, taps and slots to guarantee a perfect fit and high rigidity
- > Compact starter technology - decentralized starter unit with bus I/O modules and a drive frequency converter

Electrical system and controls

- > Bus-based system. Compact on-board starter on elements, connected via ASi bus to an area starter including power supply groups, ASi gateways, and a monitor
- > The ProMove controls are an integrated part of the Swisslog standard controls concept AutomationControl™.

Elements



CHAIN CONVEYOR

- > Multiple strand conveyor for mixed load sizes, heavy loads or assorted load carriers
- > End profile allows a duplex chain-to-chain connection without bridging equipment



SHUTTLE CAR

- > Single or multiple loads
- > Used in a variety of functions i.e. feeding of multiple order-picking stations, marshalling area, at truck intersections traffic or in front of warehouses
- > High speeds and quick acceleration



ROLLER CONVEYOR

- > Roller wall thickness of 3 or 5 mm depending upon application
- > Roller pitch adapted to load weight and type of load carrier
- > Loads are safely guided via flanges or discs



VERTICAL CONVEYOR

- > Based on Vectura crane technology - strong design with a long service life
- > Single or multiple loads
- > Different load handling devices (roller/chain conveyors, telescopic forks)



TRANSFER UNIT

- > Compact design to fit into tight spaces
- > Available as both 3-way and 4-way intersections
- > All rollers are driven to ensure good functionality



PALLET CARRIER DISPENSER / MAGAZINE

- > Dispensers / magazines receive, store and dispense load carriers
- > For integration into fully-automated operations and can also be served by manual trucks
- > Different layouts



TURNTABLE

- > Can be equipped with roller or chain conveyors
- > Rotatable by 45°, 90°, 180° or fully
- > Safety guard included



PROFILE GAUGE

- > Measure pallet dimensions and weight without stopping the load to avoid bottlenecks
- > Tunnel clearance and runner
- > At system entry points to prevent incorrect load units from entering into the system

All elements can be supplied in different lengths, widths and pitches to suit the actual application.