

# Innovative & modern – advanced pallet conveyor system for greater efficiency



**ProMove is an efficient and fully-automated transportation system for palletized goods which can move pallets horizontally and vertically in any warehouse**

Swisslog's ProMove pallet conveyor system is based on proven, standard elements and can be configured to accommodate demanding requirements from a variety of customers. ProMove connects your warehouse – with its modular design and a standard interface – to other sub-systems, allowing fast and efficient warehouse processes.

## Designed for demanding market requirements

ProMove is designed for the rigorous requirements of transporting heavy loads. Due to its strong design, fewer elements are needed to building a system thereby leading to a lower overall investment and reduced maintenance costs.

Projects implemented with ProMove:  
Nortura, Brødrene Dahl, TINE, Almarai, MICHELIN

### Benefits

#### Energy-Efficient

ProMove uses high-efficiency motors controlled by frequency inverters. The motors only run when needed to transport pallets onto and off the conveyor.

#### Reliable

Each conveyor element comes with a Swisslog designed compact starter that controls the speed and the up/down ramps keeping the loads stable during acceleration/retardation, which reduces wear and prolongs the service life of the conveyor.

#### Plug&Play

ProMove offers easy installation and a short commissioning time thanks to precommissioned elements tested before delivery as well as remote monitoring on personal devices.

# A wide range of elements provided by ProMove pallet conveyor system

## Components – conveyor elements



### General

ProMove is highly reliable due to its rigid design, and gentle load handling is made possible by use of the compact starter concept. Delivered as a complete set of assembled elements, ProMove sensors and motors are pre-wired and each element is pre-tested to facilitate fast installation and commissioning.

### Chain & roller conveyor

ProMove is available with chain and roller conveyors. For mixed load sizes, heavy loads or assorted load carriers, the chain conveyors use multiple strands. The roller pitch is adapted to load weight and type of load carrier and has a wall thickness of 3 or 5 mm. Loads are safely guided by means of flange or discs.

### Turntable

The turntable can be equipped with roller conveyor, chain conveyors or transfer units and can rotate 45°, 90°, 180° or 360°.

## Facts

Load range	up to 1,500 kg
Standard operating speeds	0.2, 0.35 or 0.5 m/s (0.66, 1.15 or 1.64 ft/s)
Standard acceleration	0.4 m/s <sup>2</sup>
Throughput transfer unit	up to 300 load units/h
Throughput turntable	up to 200 load units/h
Shuttle car operating speed	up to 5 m/s
Conveyor operating speed	up to 2.0 m/s
Height of vertical conveyor	up to 40 m
Temperature range	from -30 °C to 50 °C (-22 °F to 122 °F)
Load carriers	all standard pallets, other load carriers upon request

## Components – conveyor elements



### Transfer unit

The transfer unit is designed to fit into tight spaces. It is available as both a 3-way and 4-way model. All rollers are powered to ensure operational reliability.

### Shuttle car

ProMove shuttle car is available for single or multiple loads and can be equipped with conveyors or forks.

### Vertical conveyor

ProMove vertical conveyors are available for different lifting heights and are capable of handling single, double or triple loads, using onboard conveyors or forks.

### Carrier dispenser / magazine

Pallet magazines are available for fully automated storing/dispensing of pallets or other types of load carriers.

## Components – software & controls



### Profile gauge

The profile gauge is used to control the height, width and length of the load as well as the weight. It can be equipped with different types of pallet control device to check tunnels and runners.

### SynQ Warehouse Management System

ProMove comes with a standard software application developed by Swisslog. Efficient storage and retrieval strategies trigger transport tasks for all movement of goods at the optimum time. In addition, the software application offers a number of general features including user management, pallet location management, and interfaces to integrate ProMove with complementary subsystems, such as pallet conveyors. Visualization and statistics functions complete the application.

### Electric & controls

The bus-based system featuring compact starter onboard each element, 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 automation controls concept.

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