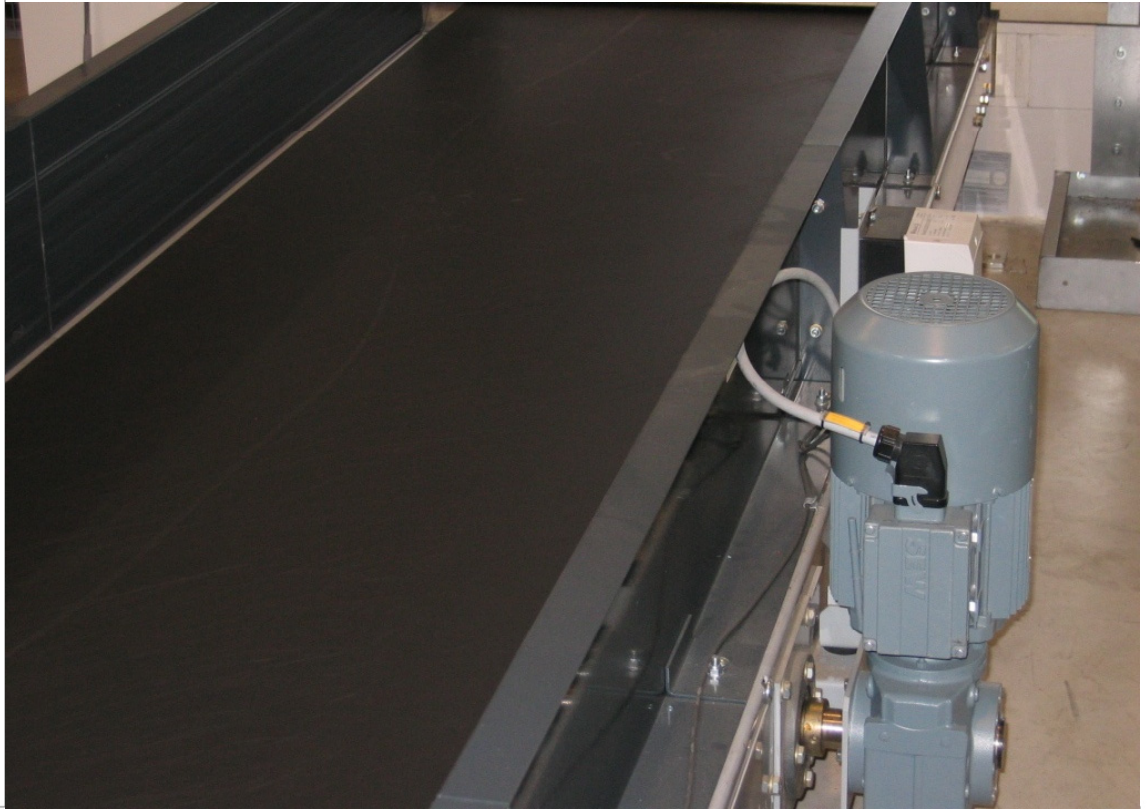




BELT CONVEYOR GREEN

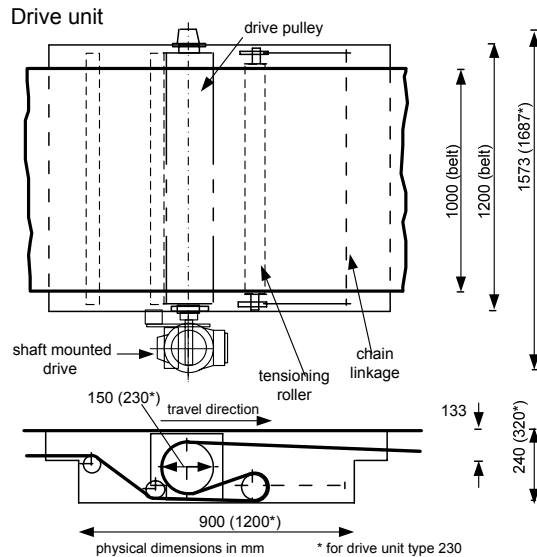


Meets all international standards
Maintenance from one side only
Lowest industry noise level: Leq 65 dB(A)
Low energy consumption green



Baggage Handling

BELT CONVEYOR GREEN



Inspection of belt tension can be done by means of a visual read-out on both sides of the conveyor without dismantling parts or covers. Adjustment of the belt tension is possible from either side of the drive section.

Guarding

In the non-public area the conveyors are guarded with 300-mm high epoxy coated guarding panels, where applicable.

Supports

Belt conveyors will be supported on adjustable stands with adequate braces. In some cases ceiling hangers will be used.

Belt types

Belts applied shall be endless vulcanised, antistatic, low noise, black PVC and have an running surface for low friction. Belts are flame retardant according to ISO 340.

Energy efficient belt conveyor

The belt conveyor green is the energy efficient baggage conveyor that significantly contributes to a lower energy consumption baggage handling system in operation.

Energy saving

Mechanical optimization

- Low friction un-coated running surface
- Less dynamic weight by lighter pulleys
- Optimal belt tension by force based tension unit adjusting.

Electric optimization

- Drive is a motor IE2 with a helical bevel, energy efficient gearbox

Controls

- Efficient software controlled energy saving after the baggage has left the conveyor

Construction

A drive unit, bed sections and end pulleys are assembled to form a belt conveyor. Frames are fabricated from 3 mm steel sheet (drive frame 4mm), formed into box channels. Cross members are included for strengthening and to minimise vibrations.

Speed

Preferred standard speeds: 30, 45 and 60 m/min (90 and 120 m/min frequency controlled)

Drive

The motor reducer is mounted vertical on the shaft of the crowned drive-pulley.

Tensioning

Tensioning of the belt is done in an optimal way (by a spring tensioning device) meaning no losses due to over- or under tensioning and minimal re-tensioning required by maintenance personnel.

Pulleys

Drive pulley diameter will be 100, 150 or 230 mm, depending upon the conveyor load and length. All pulleys are dynamical balanced according to VDI 2060 170 rpm, Q6.3. Life greased bearings with L-10h for 50.000 hours under operational conditions are applied. Drive pulleys and end-take-up pulleys are constructed in such a way to minimize weight, contributing to energy saving, and to minimize steel used.

Noise level

Leq 65 dB(A). Value for individual equipment at 60 m/min under free field conditions. Measurements done according to EN-ISO 11204: 2009, average at 1m drive sections. Value does not include the noise caused by (un)loading of baggage.

Finish

Frames and supports are finished with an epoxy coating RAL 7001 (grey), guarding panels in a standard selectable colour.

Safety

The construction has been designed in accordance with CE directives.

Controls

At the end of each conveyor, a photocell with die-back, jam detection and energy saving detection is incorporated within the guarding panel. A local motor starter is standard.

Options

- Low friction belt
- Other widths (800 and 1300 mm belts)
- Bi-directional operation
- Full tracking by mounting of PPI
- Under guarding