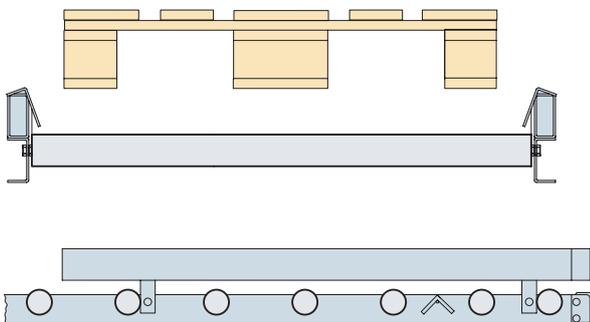
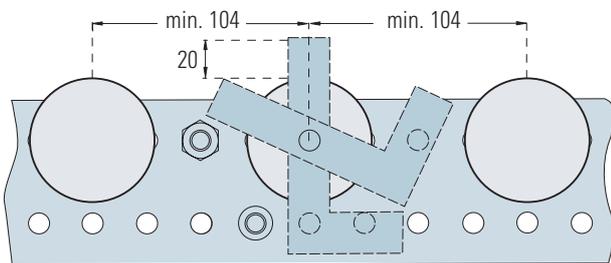
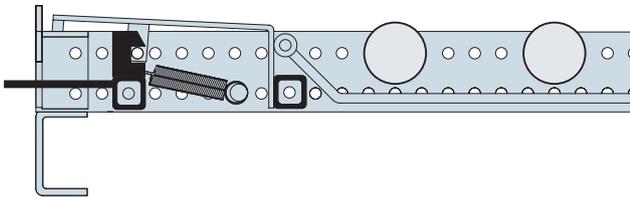
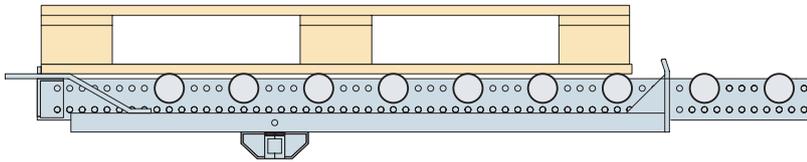


EUROROLL-PALLET ROLLER CONVEYORS

Safety Devices



Balance Separator:

Especially for Roller Tracks with only 2, 3 or 4 pallets a Balance Separator can be fitted instead of a conventional automatic Pallet Separator. When this method is used the length of the roller conveyor is only 50 mm longer than the number of pallets x pallet length. One or more brake rollers are necessary at a roller track length of 3 pallets and more. The Balance Separator is operated either by hand or foot pedal.

Locking of the Separator with a catch:

This arrangement is useful when a pallet is picked empty. After the empty pallet is removed the separator is unlocked by operating the catch, the next pallet rolls forward to the first pallet spot. When the first pallet stops at the end stop the catch is locked again.

Push-back Stop:

The push-back stop **SKR** avoids, that the pallet is pushed back again against moving direction.

Entry Guides and Roller Protection Profile:

At the loading side a heavy duty angle profile is fitted to avoid a damaging of the rollers by fork lifts, while the entry guides ensure a central positioning of the pallets. These are not useful, when the installation is fully automated. However, then a heavy duty roller is recommended.

SAFETY

Pallet separator and sliding end stop:

A fully automatic pallet separator is fitted at the picking side, which controls:

1. The separation of the pallet to be picked from the other pallets avoiding line pressure and assuring safety of the picking operation.
2. The stopping of the other pallets until the forklift operator has completely removed the unloaded pallet from the channel.
3. A sliding deceleration in front of the end stop ensuring, that the next pallet is gently stopped.

The end stop protects the rollers from being damaged by the forks of the fork lift.

Pallet Separation:

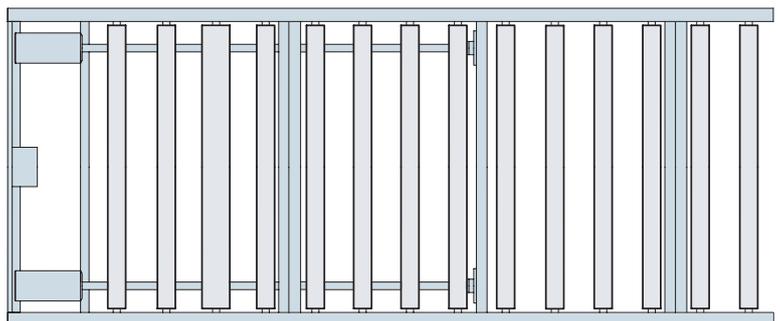
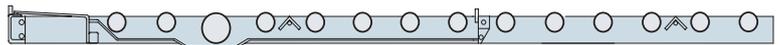
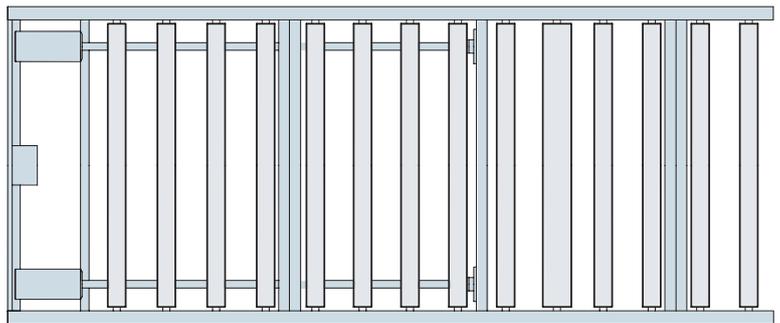
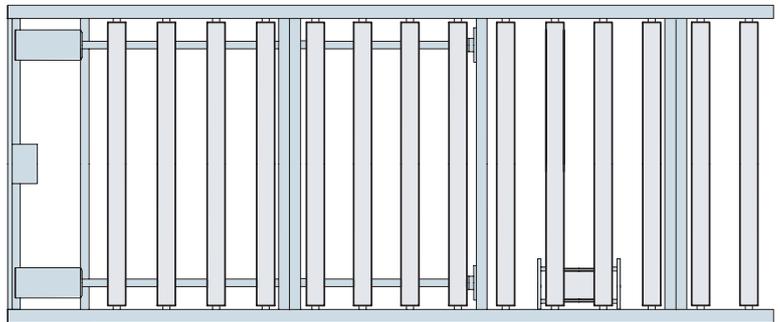
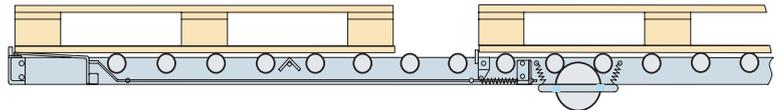
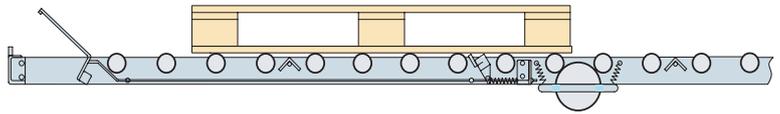
The separation of the first two pallets is carried out by means of accelerating the first pallet for a short time over a defined distance, i.e. getting the pallet out from the speed control of the Brake Rollers. This acceleration energy has to be nullified again, which can be achieved by means of the below-mentioned methods:

Separator with normal braking:

This method is used in connection with a sliding end stop (usually when fork lift picking is used).

Separator with dynamic braking:

With dynamic braking a brake roller is just in front of the end stop. This ensures, that the pallet reaches an exact defined end position, which is required in an automated warehouse.



ROLLER CONVEYOR PROFILES

Roller Conveyor Profiles

The standard profiles used for conveyors are U-shaped 40/80/40 x 3 mm zinc-plated. If required, they can also be lacquered.

EUROROLL-Variofix

C-shaped profile 40/80/40 x 3 mm: **C 80-40**

Wx = 2.5 cm³

Wy = 10.8 cm³

Ix = 7.0 cm³

Iy = 43.1 cm³

EUROROLL-Standard

U-shaped profile 40/80/40 x 3 mm: **U 80-40**

Wx = 2.5 cm³

Wy = 10.8 cm³

Ix = 7.0 cm³

Iy = 43.1 cm³

L-shaped profile 40/80/ x 3 mm: **L 80 x 3** (Pallet weight till 400 kg)

L-shaped profile 40/80/ x 4 mm: **L 80 x 4** (Pallet weight till 1200 kg)

Roller Specification

Gravity Roller Conveyors for Euro-Pool-Pallets as per DIN 15146, page 2 or similar pallets are equipped with steel rollers dia. 60 x 2 mm, the carrying capacity per roller is 175 kg. To achieve a long life, steel ball bearings are fitted with a dust shield. The ball bearings are maintenance-free. For special executions different type of rollers can be supplied. The standard roller is supplied in bright steel, but can also be delivered zinc-plated. The normal roller pitch is 156 mm. The total height of the EUROROLL-Roller Conveyor is 90 mm with rollers dia. 60 mm.

When using Variofix-C-shaped profiles rollers with continuous axis are fitted in the profile.

Width of the Conveyors

For 800 mm wide pallets, the standard width of the conveyor is 952 mm. For 1000 mm wide pallets the width of the conveyor is 1152 mm. Other widths for conveyors can, of course, be supplied as required.

