

Solution Guide



uni MPB C
Straight Running Belt



uni SNB M2 Rubber Top
Straight Running Belt

Industry

> **Meat**

Application

> **Box and Tote Handling, Incline & Decline conveyors**

Description

> **Boxes or totes are inclined from one level to the next on a plastic modular belt**

To better utilize the space in a meat plant, overhead conveyors are used to move boxes or totes around to different processing areas. Several different belts can be used for these incline and decline conveyors.



Uni SNB M2 20% Rubber Top conveying totes



Problems

> Problem 1

For steep angles a belt with product supports is required to stop the totes or boxes from sliding back. However the way the totes are placed on the belt can cause breakage of the product supports.

> Problem 2

For smaller incline angles a rubber top belt can be used to prevent slide back of the product without having the risk of breaking the product supports. Cleanability can be a problem for a closed rubber top belt.

> Problem 3

If the conveyor must be made as long as possible the highest tensile strength is required. Most belts with rubber top are only available in PP material because of the way the rubber is bonded. PP is a softer and weaker material than POM so the rubber top belts wear out more quickly and cannot pull as much load as POM.

Solutions

> Solution 1

Ammeraal Beltech Modular recommends the uni MPB belt. Typically a 2 in. high product support is used for heavy load and steep inclines/declines. The uni MPB belt has standard product supports that are extra thick compared to the competition made specifically to resist breakage and to handle heavy boxes.

> Solution 2

uni SNB M2 20% open in PP material with rubber top is a very cleanable rubber top belt. The hinges and the belt surface are open for easy spray through.

> Solution 3

If the highest load capacity is needed the uni MPB POM-DI with rubber top is recommended. Ammeraal Beltech Modular uses a different process to make the rubber top on uni MPB which allows the belt with rubber inserts to be made in POM-DI material which can increase belt life and belt pull significantly.