

Solution Guide



uni MPB C
Straight Running Belt



uni MPB Rubber Top
Straight Running Belt

- Industry > **Meat**
- Application > **Box/Tote Handling (straight running)**
- Description > **Boxes or totes are conveyed from one location to another on a plastic modular belt**

In the meat industry boxed meat can weigh up to 150 lbs (70 kg). A heavy duty belt is required to convey these heavy packages to the storage or shipping area and often accumulation can occur.



uni MPB conveying boxes in a meat plant

Problems

> Problem 1

These conveyors are made as long as possible with one drive. Tensile overload is a common problem due to heavy boxes and long length with belt breakage being the worst case result.

> Problem 2

Belt slippage on the sprockets is a problem when the belt is heavily loaded.

> Problem 3

For inclines sometimes a rubber top belt is needed. Most belts with rubber 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.

Solutions

> Solution 1

uni MPB Single Link® in POM-DI is recommended in this application. The combination of the 8 mm (0.315 in.) diameter pin, which is larger than competition, and single link modules allowing for fewer gaps across the width makes the uni MPB the strongest food belt for long and heavily loaded applications.

> Solution 2

The unique sprocket engagement with uni MPB increases sprocket pull by up to 30% compared to competition. This allows the MPB to carry more load or to solve sprocket engagement problems that are common with other belts.

> Solution 3

For incline conveyors 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.