

Solution Guide



uni MPB C
Straight Running Belt



uni X-MPB
Straight Running Belt

Industry

> **Meat**

Application

> **Bone Handling Lines**

Description

> **Conveyor to handle large bones and other waste parts**

Bone handling conveyors are found in several areas of the meat plant. The bone handling conveyors take bones away from the primary cut. The bones are usually transferred several times and conveyed up inclines to the rendering area of the plant.



uni MPB for bone handling

Problems

> Problem 1

Impact is a major problem. Sharp edged bones can break the hinges as they are dropped onto the belt.

> Problem 2

On incline conveyors weak product supports will often break – especially under high loads.

> Problem 3

The belt will stretch out due to pin wear and need to be replaced.

> Problem 4

Under high loads the belt loses sprocket engagement and “jumps” off the sprockets.

Solutions

> Solution 1

uni MPB Single Link or uni X-MPB belts are recommended for this application. PE Material is good for impact resistance, but it cannot be used here because sharp bones will cut or puncture the material. Ammeraal Beltech Modular offers a special impact resistant POM material for these applications – POM-DI (I=impact). This gives a good combination of impact resistance and hardness/cut resistance.

> Solution 2

The uni MPB belt has standard product supports that are extra thick compared to the competition made specifically to resist breakage.

> Solution 3

uni MPB and uni X-MPB are assembled with a molded 8 mm (0.315 in.) diameter lockpin. The larger diameter creates a larger wear surface for increased and belt life compared to competitors’ belts.

> Solution 4

The unique sprocket engagement increases sprocket pull by up to 30% compared to competition allowing higher loads on the belt.