

Solution Guide



uni X-MPB
Straight Running Belt

- Industry > **Poultry**
- Application > **Offal Lines**
- Description > **Head, feet, giblets, intestines and feathers are conveyed to further processing**

A dirty and abrasive application that requires a belt with good wear resistance, strength and sprocket engagement to pull product through.



uni X-MPB on Offal Conveyors



Problems

> Problem 1

This is a very abrasive application so belt wear is a primary concern. The thickness of the belt and the ability to spray the product out of the belt are important to extend the life.

> Problem 2

Belt stretch is a problem due to pin wear. Eventually the belt will stretch to a point where it does not engage with the sprockets properly. Diameter of the pin and material choice are important.

> Problem 3

Maintenance time and ease of maintenance are important. The belt should be easy to disassemble if links need to be removed and also easy to assemble if a section must be replaced.

> Problem 4

These conveyors can have high concentrated loads and product can get between the belt and sprockets. Belt slippage on the sprockets can be a problem because of these factors.

Solutions

> Solution 1

The 2.5 in. pitch uni X-MPB belt is recommended because it is thicker than the 2 in. pitch uni MPB. POM DI material is used for its hardness and wear resistance. The X-MPB still has the cleanable features of the uni MPB which are desired in this application so product does not build up in spots on the belt and contribute to wear.

> Solution 2

The 8 mm (0.31 in.) pin diameter is 20-30% larger than the competitors' pins. This projects a larger surface contact area for the wear surface and reduces the stretch over time due to pin wear. In addition nylon PA6.6 pin material is a more wear resistant option than the PP or POM material typically offered by competitors.

> Solution 3

The unique molded lockpin system on the uni X-MPB belt makes belt assembly/disassembly very easy. The pin can be removed from one side of the belt and reused for re-assembly. Downtime and maintenance time is greatly reduced by this locking system.

> Solution 2

The uni MPB sprocket engages with a more positive angle on the belt compared to competitors which allows for longer lengths and higher possible loads and better ability to pull with product