

# Solution Guide



uni MPB C  
Straight Running Belt

- Industry > **Snack Food**
- Application > **Potato Chip Inspection Conveyor**
- Description > **Chips are inspected for blemishes and sorted**

*Inspections can be done by hand or with the help of photo eye equipment.*



uni MPB closed Top in PP material with PA6.6 pins



## Problems

> **Problem 1**  
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 2**  
Product contamination due to the fraying of the fabric belt as it makes contact with the frame. Fabric pieces were found in a retail bag of chips undoubtedly from the damaged fabric belt.

> **Problem 3**  
Maintenance and downtime is time consuming and costly.

## Solutions

> **Solution 1**  
The uni MPB belt has an 8 mm (0.31 in.) pin diameter that 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 2**  
The positive tracking of the uni sprocket system eliminates tracking issues which lead to product contamination.

> **Solution 3**  
The unique molded lockpin system on the uni 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.