

# Solution Guide



uni MPB 22% open  
Straight Running Belt

- Industry > **Snack Food**
- Application > **Peeler Infeed**
- Description > **Whole Potatoes are Conveyed up an Incline to the Peeler**

*These belts have 3 in. or 4 in. tall product supports (flights/cleats/pushers). The potatoes are usually in a water bath so an open belt is preferred for drainage. Breakage due to impact and belt stretch due to pin wear is usually the biggest issues.*



uni MPB in PP material with PA6.6 pins and Product Supports for a Incline Conveyor to the Peeler.

## Problems

### > Problem 1

Potatoes are pulled up out of the hopper by the product supports on the belt and they are subjected to some impact. This causes breakage of the product supports and they need to be replaced often.

### > 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 2

These conveyors are usually very heavily loaded and belt slippage on the sprockets can be a problem due to the high load this creates.

## Solutions

### > Solution 1

The uni MPB belt has thicker product supports than the competitors' to give it superior resistance to breakage.

### > Solution 2

The 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 PA66 pin material is a more wear resistant option than the PP or POM material typically offered by competitors.

### > Solution 2

Higher product load than those with competitor's belts are possible with the unique sprocket engagement system of the uni MPB.