

Solution Guide



uni MPB 22% Open
Straight Running Belt

Industry > **Fruit & Vegetable**

Application > **Hydro Cooler**

Description > **Water is used to pre-cool vegetables to preserve freshness and extend shelf life**

Cold water is sprayed over the product, either individual cartons or bulk product, to bring its temperature down to between 34 to 41 degrees F (2 to 5 degrees C).



uni MPB 22% on an asparagus hydro cooler



Problems

> Problem 1

Wire mesh belts can mark and damage the delicate loose products and also damage the plastic crates.

> Problem 2

Crates can be dropped directly on the belt causing problems with breakage due to impact.

> Problem 4

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.

Solutions

> Solution 1

The uni MPB 22% open belt provides a consistent surface with no sharp points to damage the product.

> Solution 2

The uni MPB 22% in impact resistant Polyethylene (PEI) material is recommended to provide a gentle conveying surface for the product and provide excellent resistance to breakage due to impact.

> Solution 4

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. SS pin material is often chosen, not only to make the belt sink in water, but also for the wear resistance.