

\$487,900

SAVINGS AFTER YEAR ONE

**CHALLENGE:**

Pins Breaking

**SOLUTION:**

ANSI Standard Chain



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CHALLENGE:

A leading meat processing company was experiencing continual pin breakage on its pork de-hairing line. The pins were cracking in the center as a direct result of the abrasive pork hair getting stuck in the chain joints. An additional issue included occasional shock loads experienced during line stops and restarts. Due to these circumstances, the chain on this line was being replaced every five weeks at a cost of \$60,000 per downtime hour.



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SOLUTION:

To solve the issue, Diamond Chain recommended its Standard Series chain. With the strict standards of the *Diamond Difference*, from materials to post-assembly, Diamond's Standard Series chains are able to endure higher shock loads and can guarantee longer wear life than competitors.

**Materials** – high quality steel with minimal impurities offers increased tensile and fatigue strength

**Fabrication** – exacting dimensional standards offer optimal performance by ensuring components fit together as precisely as possible

**Heat Treatment** – strict atmosphere and quench control optimizes material properties to increase strength, durability, and wear resistance

**Shot Peening** – consistent shot peen intensity and coverage adds a layer of compressive stress that helps components resist fatigue failure when exposed to repeated high loads

**Lubrication** – proprietary lubrication enhances corrosion protection and lessens the effects of friction to increase chain life

**Preloading** – pre-stressing the finished product reduces initial “stretching” to extend chain wear life



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RESULTS:

The switch to Diamond Standard Series chains increased wear life from five weeks to 20 weeks, saving the company \$487,900 over one year. Additionally, the company is projected to see a savings of \$2,440,000 over five years.

