

**\$21,300**  
SAVINGS AFTER YEAR ONE**\$106,800**  
SAVINGS OVER FIVE YEARS**CHALLENGE:**  
Premature Wear**SOLUTION:**  
Diamond Standard Series Roller Chain the  
CHALLENGE:

A leading manufacturer of engineered wood products was experiencing premature wear on various conveying lines throughout its factory. Failures were occurring every 15 weeks on each conveying line, which cost the company \$6000 per line, per incident.

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SOLUTION:

As a solution, Diamond Chain recommended its Standard Series chain. With the strict standards of the *Diamond Difference*, Diamond's Standard Series chains have proven themselves to have superior performance. From materials to preloading, the *Diamond Difference* ensures a high quality, long lasting product.

**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 sets the pins and bushings, reducing initial “run-in” and extending chain wear life.

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RESULTS:

The switch to to Diamond Standard Series chains increased wear life by five weeks. Factoring in both downtime and replacement costs, after the switch to Diamond Standard Series chains this company saw a savings of \$21,300 over one year, and is estimated to see \$106,800 in savings over five years.

