

**\$23,988**  
SAVINGS AFTER YEAR ONE

**\$119,944**  
SAVINGS AFTER FIVE YEARS

**CHALLENGE:**

High Temperatures  
Severe Contamination

**SOLUTION:**

ANSI 120 triple strand

 the CHALLENGE:

An industry leader in specialty steel solutions was experiencing premature wear on its billet straightening machine. The nature of this particular application includes high temperatures and severe contamination. The competitor chain initially being used could not hold up to either of the extreme elements, and was only lasting for 15 weeks.



 the SOLUTION:

As a solution, Diamond Chain recommended its Standard Series, triple strand chain. With the strict standards of the Diamond Difference, Diamond's Standard Series chains are an industry leader. From materials to post-assembly, 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 reduces initial “stretching” to extend chain wear life

 the RESULTS:

The switch to Diamond Chain increased service life by 60%, from 15 weeks to 24 weeks. Factoring in both downtime and the cost of the replacement chain and kits, after the switch to Diamond Chain this company saw a savings of \$23,988 over one year, and is projected to see a savings of \$119,944 over five years.

