

CASE STUDY**REDUCING BELT FAILURES AND MAINTENANCE COSTS IN A HIGH-HEAT AGGREGATE APPLICATION WITH BANDO HEAT CARRY™ BELTING****SUMMARY**

An aggregate operation struggling with frequent conveyor belt failures in a high-temperature environment partnered with Motion Conveyance Solutions for a new solution: Bando Heat Carry belting. During a field test, the Bando belting outlasted a competing product by four months, significantly reducing maintenance requirements and lowering overall operating costs. The result was a reduction in annual belt changes from 12 to just 3, delivering substantial cost savings and improved equipment uptime.

THE CHALLENGE

A customer operating in a demanding, high-heat aggregate application was experiencing excessive conveyor belt wear and frequent belt replacements. Elevated material temperatures and harsh operating conditions caused premature belt failure, resulting in:

- Frequent production interruptions.
- Increased maintenance labor requirements.
- Higher replacement belt costs.
- Reduced overall operational efficiency.

The operation was replacing conveyor belts approximately 12 times per year, creating a significant maintenance burden and increasing total cost of ownership.

THE SOLUTION

To address these challenges, the customer implemented Bando Heat Carry conveyor belting in a field trial. Designed specifically for high-temperature material-handling applications, Bando Heat Carry provides enhanced heat resistance and durability in demanding operating conditions.

The belt was installed alongside a competing product to evaluate performance under the same working environment.

RESULTS & BENEFITS

- **Extended Belt Life**

The Bando Heat Carry belting outperformed the competing belt by four additional months, demonstrating superior durability in a high-heat aggregate application.

- **Reduced Maintenance**

The longer service life dramatically reduced the frequency of belt replacements, cutting belt changes from 12 per year to just 3.

- **Increased Uptime**

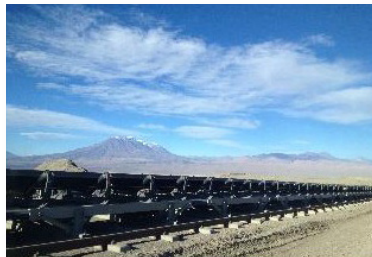
With fewer belt failures and replacement events, the operation experienced less unplanned downtime and improved production continuity.

- **Significant Cost Savings**

Reducing belt replacement frequency lowered maintenance labor, replacement part costs, and production disruptions, resulting in substantial annual cost savings.

Key Results

- 4-month longer service life than a competing belt
- 75% reduction in annual belt changes (12 to 3)
- Reduced maintenance labor and downtime
- Improved operational reliability
- Significant annual cost savings



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