

CASE STUDY

No More Belt Burn: Smart Skirting Solves a Costly Mining Problem.



ABOUT TSGLOBAL

"At the forefront of innovation for over a decade, we have been revolutionising the way businesses move. With a steadfast commitment to delivering premium quality, our custom solutions have become the cornerstone of efficiency for enterprises big and small.

Driven by a passion for excellence, our mission is to continuously design and manufacture cutting-edge conveyor and polyurethane solutions that stay ahead of the curve and drive industry standards."

GRAHAM HOLFORD

General Manager



CLIENT OBJECTIVES

A major mining operation in Western Australia was facing ongoing challenges with conveyor belt damage caused by hard steel skirts.

Their objectives were to:

1. Eliminate belt wear caused by abrasive skirt contact
2. Reduce frequent belt replacements and associated downtime
3. Minimise spillage and dust issues at transfer points
4. Improve safety and efficiency during maintenance
5. Source a solution aligned with their sustainability targets

Benefits of Partnering with

TSGlobal
Conveyor & Polyurethane Specialists

- Custom Engineered Systems: Every skirting solution is tailored for performance and longevity.
- Labour & Cost Efficiency: Lower man-hour requirements for install and upkeep.
- Improved Safety: Lightweight polyurethane makes manual handling safer.
- Extended Equipment Life: Reduced belt wear extends operational life and reduces replacements.
- Sustainability: Polyurethane skirts are recyclable and have a lower environmental impact than traditional alternatives.



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SOLUTIONS

TS Global supplied and installed custom-engineered polyurethane hard skirt systems as a direct replacement for traditional steel skirt liners.

The solution included:

- High-performance polyurethane compound: Softer than steel, it eliminates belt damage from hard skirt contact.
- Layered skirting system: Featuring steel mounting plates, high-wear liners, and dust-sealing skirts.
- Tailored design: Skirts were supplied in various sizes and configurations to suit the client's specific equipment.

Key design innovations included:

- Direct belt application to eliminate gaps and the "Washing Machine Effect"
- Reduced need for soft skirts while still containing material effectively

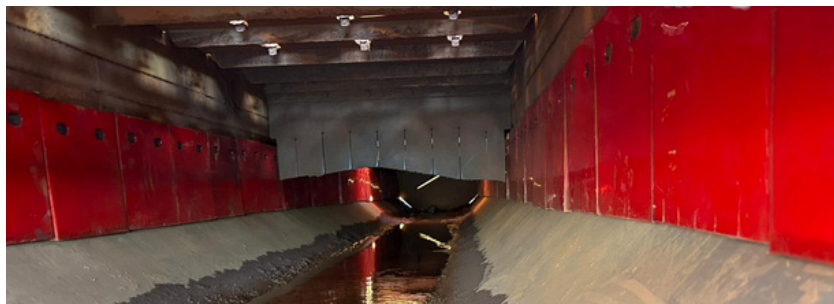


RESULTS

The implemented solutions resulted in substantial improvements:

- ✓ Zero belt damage post-installation from skirt interference
- ✓ Improved dust suppression and material control at the transfer point
- ✓ No spillage issues, eliminating clean-up costs
- ✓ Reduced labour due to simpler skirt height setting and maintenance
- ✓ Increased operational uptime, with less frequent shut maintenance

This case study highlights how TS Global's engineered polyurethane skirting systems resolved persistent belt damage and spillage issues at a high-throughput mining operation. By replacing traditional hard steel skirts with a fully integrated polyurethane solution, the site eliminated frequent belt wear, improved dust suppression, and reduced manual maintenance requirements. The outcome demonstrates TS Global's capability to deliver practical, site-ready solutions that enhance safety, reduce downtime, and support long-term operational efficiency across the mining sector.



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