



Overland Conveyor Belt Changeout

One Source, Many Solutions



Date:
January 2018

Client:
Pilbara Iron Ore Producer

Product Solution:
FlexSteel™ Steel Cord

Industry:
Iron Ore Port Facility

Service Solution:
Belt Installation

Case Study: **Conveyor Changeout**

Collaboration cuts shutdown time

Replacing conveyor belts is an essential requirement for the safe and efficient operation of any business that handles bulk material. But productivity and profits almost always suffer because such tasks invariably require a complete conveying system shutdown. So naturally, any way of reducing this shutdown time will always be eagerly welcomed for this reason. Not surprisingly, a maintenance team at a Major Pilbara Iron Ore Producer was very happy to proceed with a jointly-developed process when ContiTech Conveyor Belt Group said they could complete a required major belt changeout in 48 hours instead of the previous 144 hour shut down period.



Belt Puller and 100° Turn Frame



Continental 100t Belt Winder

Case Study Overview

Summary / Key Success Factors;

- > Creative thinking
- > Collaborative effort
- > Hazard elimination
- > Technology solutions
- > Detailed equipment design
- > Job completed ahead of schedule
- > Belt movement works completed in 11 hours
- > ZERO incidents
- > Increase customer productivity

The Challenge

- > The project scope required the installation and splicing of 5,460m of 1500mm wide ST3150 17mm x 7mm conveyor belt on major port feed conveyor system.
- > Consider several scenarios for the belt replacement program to be executed, involving different shutdown options with various methods and scopes of work.
- > Jointly develop detailed and collaborative solution for the safe and efficient replacement of the entire conveyor belt within a defined installation window.
- > Reduce shutdown period and maximise production for the customer operations.

Smart Solutions

- > Creative thinking
- > Hazard elimination
- > Collaborative effort
- > Fresh and innovative approach
- > Detailed planning
- > Equipment & machinery fit for purpose
- > Flake and pre-splicing
- > No crantage during install

Customer Benefits

- > Works completed with ZERO incidents
- > Risk reduction strategy
- > Engineered solutions
- > Engagement and consultation
- > Installation reduced to 48hrs
- > Belt movement reduced to 11hrs
- > No major lifts during shutdown
- > Increased productivity

ContiTech



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ContiTech. Engineering Next Level

As a division of the Continental Group, ContiTech is a recognized innovation and technology leader in natural rubber and plastics. As an industry partner with a firm future ahead of us, we engineer solutions both with and for our customers around the world. Our bespoke solutions are specially tailored to meet the needs of the market. With extensive expertise in materials and processes, we are able to develop cutting-edge technologies while ensuring we make responsible use of resources. We are quick to respond to important technological trends, such as function integration, lightweight engineering and the reduction of complexity, and offer a range of relevant products and services. That way, when you need us, you'll find we're already there.



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