



Completed **early**, on budget and incident free

20 km overland conveyor belt changeout project

Project Scope The ContiTech West Australian Service Team from Karratha had to set up and execute the replacement of a 20,548 m 1050 mm wide ST2786 9x5 DIN-X SLL overland conveyor belt in the Pilbara for a major iron ore miner.

Key Data

- Motive force provided was from the ContiTech belt puller and 100 t belt winder. The belt winder was operating in tension/slave mode behind the belt puller. This combination provided an efficient and controlled means of belt movement and winding. The maximum diameter of the racetrack reels was 6.8 m.
- 32 lengths of belt at 650 m were installed and reeled during the replacement work. The belt movement operations were completed continuously over 72 hours with an approximate belt speed of 17 m/min.
- The belt flake length was 450 m.
- The belt was guided safely and controllably onto the conveyor system from the flake through two ContiTech 90° turning frames.
- Lower than expected pulling forces were recorded during the replacement operations. The recorded values indicated a DIN friction factor of around $f=0.010$

Summary An additional, unscheduled conveyor job was also carried out by the team while their specially developed equipment was nearby. This was also completed early and incident free. The client advised they were extremely happy with ContiTech's safety and performance, indicating they would like to continue the working relationship moving forward.

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