



TRU-TRAC® ROLLERS APPLICATION CASE STUDY

The Tru-Trac® Taper Through Tracker eliminates belt tracking issues at this South American copper mine.

Industry

Copper Ore Mining

Application

#3 Overlander Crusher Belt
(High Tonnage - 8000 tons
per hour/6m per second)

Product

Tru-Trac® 1800mm Urethane Taper Trough
Tracker

Objective

To prevent belt tracking issues before the
critical curved areas of the belt, causing belt
damage

Problem

The challenge was to track a horizontally curved, overland primary crusher belt before it gets to a critical mis-tracking stage and eventually damages the belting system. This would be an exceptionally difficult challenge due to the harsh environmental conditions of the operation. They had been using conventional guide roller trackers which continually failed, causing belt damage.



[The Tru-Trac® Taper Trough Tracker](#)



Solution

Tru-Trac recommended a series of Taper Trough Trackers be installed before the curved section of the belt. This would centre the belt before those critical areas, avoiding the possible loss of material due to belt mistracking on these high speed and high tonnage loads on the overland crusher belts.

Results

This new generation of Tru-Trac® Taper Trough Trackers is very easy to install thanks to its' unique design concept. The center roller does all the belt's steering. It's quicker to react than conventional trackers with guide rolls. The internal sealed pivot was protected from the harsh elements and fugitive build-up in the copper mill. Tru-Trac®'s Taper Trough Tracker's superior belt tracking performance is saving the mine money due to less spillage, less downtime and less belt wear. And the customer was ecstatic with the number of units correctly installed in the minimal allowable time for their maintenance window.