

REMATRACK TTX stops production loss at NSW Coal Fired Power Generator



Tracking before installation of REMATRACK TTX

The Challenge

Every product that goes on your belt line has an impact. When a NSW Coal Fired Power Generator purchased a belt from an external supplier, they immediately faced tracking issues due to the poor quality of the belt.

When REMA TIP TOP's NSW service division performed a scheduled belt replacement on the site's overland conveyor system, it was found that one of the three belt cassettes reacted outside of Australian standards for tracking parameters.

The belt in question is a 1.75km long critical supply belt used to convey coal from the underground mine. The belt was 1050mm wide, running at 5m/sec with over 3,500 tonnes per hour loaded onto the belt.

Due to the critical nature of the conveyor, there was no time available to order and change out the sub-standard section of belt. The mistracking belt was already causing production loss, and if left unresolved would mistrack so severely the site would risk significant structure damage, which would cause disruptive and costly downtime and maintenance.

The Solution

Immediate action by the Rema Tip Top service team was taken to install four REMATRACK TTX units in multiple areas along the beltline. REMATRACK TTX is a premium trough tracker manufactured using a one-step casting method. This one-step casting method results in having no joins on the rolls, completely eliminating one of the most common causes of premature wear on lagged trackers. The tracker is also lagged using a specially formulated polyurethane that features high wear-resistance compounds.



Results

Four trackers were installed 150 meters apart along the 600 meters of mistracking belt. As soon as the tracking units were installed, the belt immediately aligned; putting a stop to the production loss. Although best practice would be to address the root of the mistracking issue by replacing the non-conforming belt, REMATRACK TTX presented a long-term rectification that immediately allowed the belt to operate to its designed capacity. This meant no future risk of structure damage and a complete stop to the production loss that occurred pre-installation.

4

REMATRACK TTX
units installed

24 months

of service life, and still
running

Thousands

saved by avoiding
belt replacement

Mistracking solved
with minimal
downtime



24 months after installation of REMATRACK TTX

“These trackers have now been installed for over 24 months and are still tracking the belt perfectly.”

Keeping your assets safely in motion.
Since 1923.