ASGCO® Tru-Trainer® Dual Return Urethane Idlers Save the Day at This Copper Mine.

**Industry:** Copper Ore Mining  
**Application:** Copper Tripper Shuttle Head Belts at Ore Crushing Plant  
**Product:** ASGCO® 96” Urethane Dual Return Tru-Trainers®  
**Objective:** To track and align the conveyor belt on the return side of the belt before the loop take-up section, while leaving the 6 series deflector pulley system with double speed reducers.

**Challenge**
The challenge involved an extreme incline conveyor belt 96” wide, with tandem drives and a 6 pulley take-up system. Due to the nature of this Drive system design, along with the speed of the belt and together with the high tonnage that this system sees during each shift, severe belt mis-alignment was a serious problem. The conveyor belt had tracking problems on the return side of the conveyor, especially through the 6 pulley take-up system. This was exaggerated because of the incline and belt speed of this system.

**Solution:**
ASGCO® recommended that two Tru-Trainer® Dual Return Urethane Idlers (96”) be installed before and after the counter weight systems, while leaving the 6 series deflector pulleys in the loop take-up system. The current trainer was an 84” modified unit brought over from another conveyor system. The Tru-Trainer® Dual Return Urethane Idlers being installed would simplify the installation process and improve the tracking conditions in that section. This would center the belt before those critical areas, avoiding the possible loss of material due to belt mis-tracking on this long high speed, high tonnage conveyor belt system.

**Results:**
The damages to the belt since the installation of the Tru-Trainer® Dual Return Urethane Idlers have been completely eliminated. There was also a significant improvement in the overall production average for the month following the installation. Due to the excellent performance of the Tru-Trainer® Dual Return Urethane Idlers, the customer is purchasing several additional units as a new preventative maintenance implementation.

**Tru-Trainer® Dual Return Urethane Idler**
- Designed for High Speed/PIW Conveyors  
- Accommodates Excessive Force  
- Enhanced Sealing/Bearing System  
- Heavy Duty Rolls - 5/8” Polyurethane Lagged  
- Central Pivot with Two Individual Rollers  
- Total Satisfaction Guarantee (TSG)  
- Excellent for Reversing Belt Applications