

# solutions *to improve efficiency, safety and productivity?*

Providing the World Material Handling Industry with Productive, Safe and Reliable "Complete Conveyor Solutions."



## ASGCO® Troughing Tru-Trainer® Conveyor Belt Tracking System Solves Belt Tracking Problems at this Copper Mill Process Facility.

### Problem:

This copper mill facility was processing crushed ore the consistency of sand. (1000 TPH / Belt Speed: 750 FPM) They were using conventional guide roller trackers that kept failing. Due to the design of the guide rollers they continually came in contact with the belt's edge which made them slow to react and caused premature "side wear" on the belt. The operators were prone to "tying the guide rolls off" which eliminated "the ability for it to train/align the belt". Also "build-up" of carry-back on the external pivot caused freeze-up (stop working) making it vulnerable to the elements of the harsh environment.

### Solutions:

To solve the problem they we needed to provide a belt tracking idler that reacted quicker without freezing up or causing belt damage in the harsh environment. ASGCO® 36" Tru-Trainer® Troughing Idlers were installed prior to where the problem of miss alignment occurred on the "load-carrying side of the belt". Conventional training devices utilize "guide rolls" that cause premature belt wear and are slow to react to belt miss tracking. At no time does the ASGCO® Troughing Tru-Trainer wing's contacts the belt's edge.

ASGCO®'s Tru-Trainer® Troughing Idler's unique center roller does all the belt's steering. It's quicker to react than conventional trainers with guide rolls. The internal sealed pivot was protected from the harsh elements and fugitive build-up in the copper mill, which caused the other conventional guide roller pivots to "freeze up" and not perform. ASGCO®'s Tru-Trainer® Troughing Idler's superior belt tracking performance is saving the mine money due to less spillage, less downtime and less belt wear.

### Tru-Trainer® Troughing Idler

The Tru-Trainer® Troughing Idler is based on an enhanced load carrying design which features quicker activation, increased swing and overall better performance. There is no edge damage and the troughing angle is now adjustable.

- **Load Carrying Side Conveyor Alignment** - The Tru-Trainer® Troughing roller was specifically developed to accommodate a different training configuration.
- **Activating Wing Rollers** - are set to have a maximum effective contact between the belt edge and the wing roller of 25°-55°
- **Internal Pivot** - The Tru-Trainer® Troughing Idler pivots on its internal pivot and steers the conveyor belt back to center with minimum force.
- **Unique Steering Roller** - the center roll, where the most effective steering forces are exerted, does all the steering and not the wing rolls.



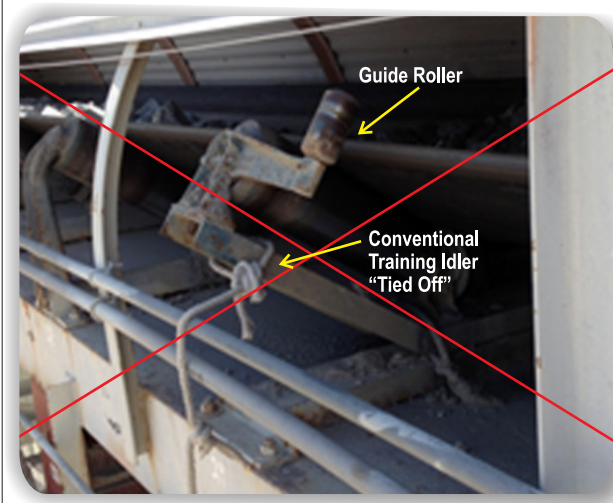
Activating Wing Roller "No belt edge contact"

Unique Steering Roller - Internal Pivot

For more information and benefits of ASGCO® Tru-Trainer Troughing Idler™ contact us at [www.asgco.com](http://www.asgco.com)

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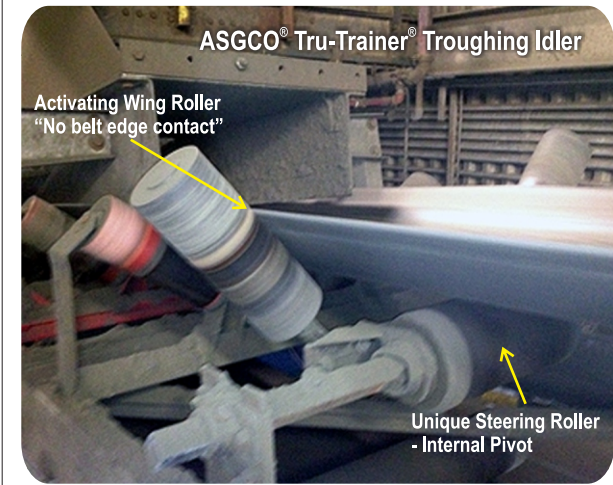
**PROBLEM:** The design of the guide rollers that they were using continually came in contact with the belt's edge which made them slow to react and caused premature "side wear" on the belt.



Guide Roller

Conventional Training Idler "Tied Off"

**SOLUTION:** ASGCO®'s quick activating 36" Tru-Trainer® Troughing Idlers were installed on the "load-carrying side of the belt".



ASGCO® Tru-Trainer® Troughing Idler

Activating Wing Roller "No belt edge contact"

Unique Steering Roller - Internal Pivot