

ASGCO Return Roll Changers provide a safe and productive time savings for maintenance crews performing return idler change out.

Industry Copper Mining Operation

Application Hard to Access Return Idlers

Material Copper Concentrate

Product Return Roll Changers

Objective Reduce down time with easy idler change out

Detail 36" wide belt located approximately 110' above the ground in an A-frame building with access to only one side of the conveyor.

Challenge

The only way to change the return idlers on this 36" wide belt located in the A-frame building was to clear out all of the material on the ground and rent a 135' man lift to access the return idlers. This was a very costly and time consuming procedure in both, lost production time and maintenance resources. The area also had to be barricaded off so that during the replacement process employees and equipment were to stay out of harm's way of potential falling debris and equipment. This prevented work to be done on the ground below.

From this:



To this:



Solution

Replacing the standard return roll brackets with the Return Roll Changers allowed the maintenance personnel to safely remove the return idler from the catwalk. The Return Roll Changer also provides pinch point protection between the idler and the belt while the conveyor is running.

Results

With the addition of the Return Roll Changers, no pry bars or hammers are needed to replace return idlers, reducing the possibility of injury. The maintenance worker replacing the idler does not have to put on a harness/ lanyard and put themselves in harm's way by crawling out on to the frame work of the conveyor structure in order to access the idlers. Utilizing the design of the idler hold down clips that are bolted in place, idlers are not able to pop out of the brackets and fall onto personnel or mobile equipment on the ground. The result is that the Return Roll Changers provide a safe, reliable, and ergonomic way for maintenance crews to change out return idlers.