

ASGCO[®]

Complete Conveyor Solutions

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ASGCO[®]'s Heavy Duty Wash-Box[™] Belt Cleaning System Reduces Airborne Dust by Over 90% at Trona Mine!

CHALLENGE:

This Trona mine lent itself to high concentrations of extremely irritable dust. The mine was over 1500 ft deep, going through the waterline. The existing cleaners were not heavy duty enough to handle the high speed belt and high pressure water.



SOLUTION:

ASGCO[®]'s engineering department listened to their concerns and recommended designing and installing a customized stainless steel Mine Duty Wash Box[™] system with a wider, deeper box that included specialized high pressure nozzles and plumbing to withstand 750 psi, Retractable Razor-Back[®] secondary cleaners with Spring-Shoc tensioners and custom designed mounting brackets to meet the customers special requirements. The self-contained belt cleaning system also contained heavier duty pillow block bearings for high speeds and work loads.

RESULTS:

The ASGCO[®] Wash Box[™] provides the highest degree in belt cleaning technology. Air quality tests performed, have proven that the airborne dust levels in the plant showed a huge reduction and are almost normal fresh air quality. The Residual Materials test showed how well the customized system worked. In addition the underground mining support and service ASGCO[®] provides is second to none!

Wash Box[™] Secondary Belt Cleaning System

- Complete belt cleaning system that incorporates a series of spray bars, belt cleaners and pressure/deflection roll to maximize effectiveness and virtually eliminate all carry-back.
- Fully enclosed system that contains the wash waste fluid and carry-back



DUST PARTICLE TESTS BEFORE/AFTER WASH BOX[™] INSTALLATION

