

Using Horizontal Motion Conveying to Reduce Product Build-Up

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CASE HISTORY

A solid particles processor switched to X-Force horizontal motion conveyors from screw conveyors because using the screw conveyors caused product build up and maintenance issues with the blended chlorine based powder. Chlorine powder sticks to metal surfaces and builds up over time and gets inside hanger bearings and destroys them.



Triple/S Dynamics installed two, X-Force conveyors with UHMW pans and gates. The X-Force is ideal for flakes, blended materials and coated products because of its slow advance, quick-return conveying action which significantly reduces material damage, coating loss, segregation and stratification. UHMW completely encapsulates a stainless steel core which provides the laminate with strength and stiffness. UHMW has proven its resistance to build up from agglomerated powders, oils and sugars.

The low impact motion preserves the integrity of the product conveyed, while the elimination of external springs, belts, and rollers ensures safer and sanitary operation. UHMW pans and gates eliminated product build up issues and with no bearings in the product stream, eliminated bearing maintenance. The use of natural frequency vibratory conveyors is a concern when conveying blended chlorine powder because of segregation.

The two conveyors measure, 15" W x 8" D x 72'-3" L and the other measures at, 15" W x 8" D x 33'-9" L, created significantly longer production runs with minimal downtime for cleaning and maintenance. This processor was successfully able to increase productivity, decrease downtime and reduce labor requirements.



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