Kason Case History

SCREENING AT TEMPS TO -275°F/-170°C

Among varied techniques to pulverize materials on a toll basis, the Custom Services Group of Solvay Solexis cryogenically grinds and screens plastic resins at -50° to -275°F (-46° to -170°C), placing extreme demands on screening equipment.

“Sifter screens are more susceptible to breakage under cryogenic conditions due to embrittlement from the cold,” says Craig Davis, sales and marketing manager. “It is critical to minimize downtime when this happens because system components can freeze, and material left in the system can get wet.”

“Centrifugal screens...keep up with grinding processes with the same efficiency as a rectangular screener, but are easy to clean and maintain like circular vibratory screens,” he says.

Solvay Solexis recently added a Kason Quick-Clean Centri-Sifter separator equipped with three roller bearings located outside of the screening chamber instead of the normal two. The bearings on the hinged cover and the motor-end of the shaft provide the support needed for vibration-free operation at high speeds and loads. When the end cover is hinged open, a third bearing between the motor-end bearing and material feed point allows the shaft to cantilever for fast, easy removal of screens and/or paddles, minimizing interruptions, preventing ice formation from causing re-starting problems, and allowing fast, thorough wash-downs.

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Machine and Process Design Case History

The Lafarge Terminal in Spokane, WA, was having trouble with Portland cement caking in the silo and when it broke off they had large (up to 8”) lumps going through their system. They installed a Machine and Process Design Gravity Screener with Dual Rotor Crusher taking the oversized material from the screen decks and crushing it down to minus 3/4” and blending it back into the main product stream. They are now able to deliver a more consistent product to the load out area and ultimately their customers.

Pat Cunningham, the Terminal Manager wrote: “We have put approximately 140,000 tons of cement, flyash and slag cement through the system since the install and I have no buyer’s remorse whatsoever.”

For more information about these and the other MPD quality products, visit www.mpd-inc.com or call 763-427-9991.