SCRENNING 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 screeners... keep up with grinding processes with the same efficiency as a rectangular screen, but are easy to clean and maintain like circular vibratory screeners,” 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.

Contact Kason Corporation, 67-71 East Willow St., Millburn, NJ 07041-1416 USA, 973-467-8140, info@kason.com, www.kason.com

Lachenmeier Case History

New patented Lachenmeier stretch hood technology

Top Stretch Film Unwinding System on a Lachenmeier Multi Flex stretch hood machine eliminating thin and fragile film on the corners of the stretch hood wrapped product.

Lachenmeier has developed a new system eliminating thin and fragile film on the corners of the load. During stretching of an undersized film hood to a dimension that matches the exact outer circumference of the load a controlled amount of film is wound off the stretching units.

Benefits:
- Down gauge film thickness and reduce costs.
- No thin or fragile film / no thin spots on the corners of the load
- Significantly reduced risk of tearing film during application
- No formation of "pouches" on the corners of the load.
- Reducing the risk of the film developing haze.
- Flat top allowing for easy product stackability
- Secure wrapping of products with sharp edges

The Lachenmeier stretch hood technology offers the following advantages over traditional spiral stretch-wrapping and heat shrink-wrapping:
- Improved stability.
- Load can be stored outside without taping.
- Film with UV inhibitor/blocker available.
- Printed film available.
- Capacities of up to 150+ pallets/h.
- Increased up-time (1000+ pallets between film change).
- Fully automatic operation. Even with different pallet sizes.
- No gas installation needed.
- Designed for operation in dusty environments.
- Film savings of up to 40% over heat shrink-wrapping.

For further information please contact info-us@lachenmeier.com