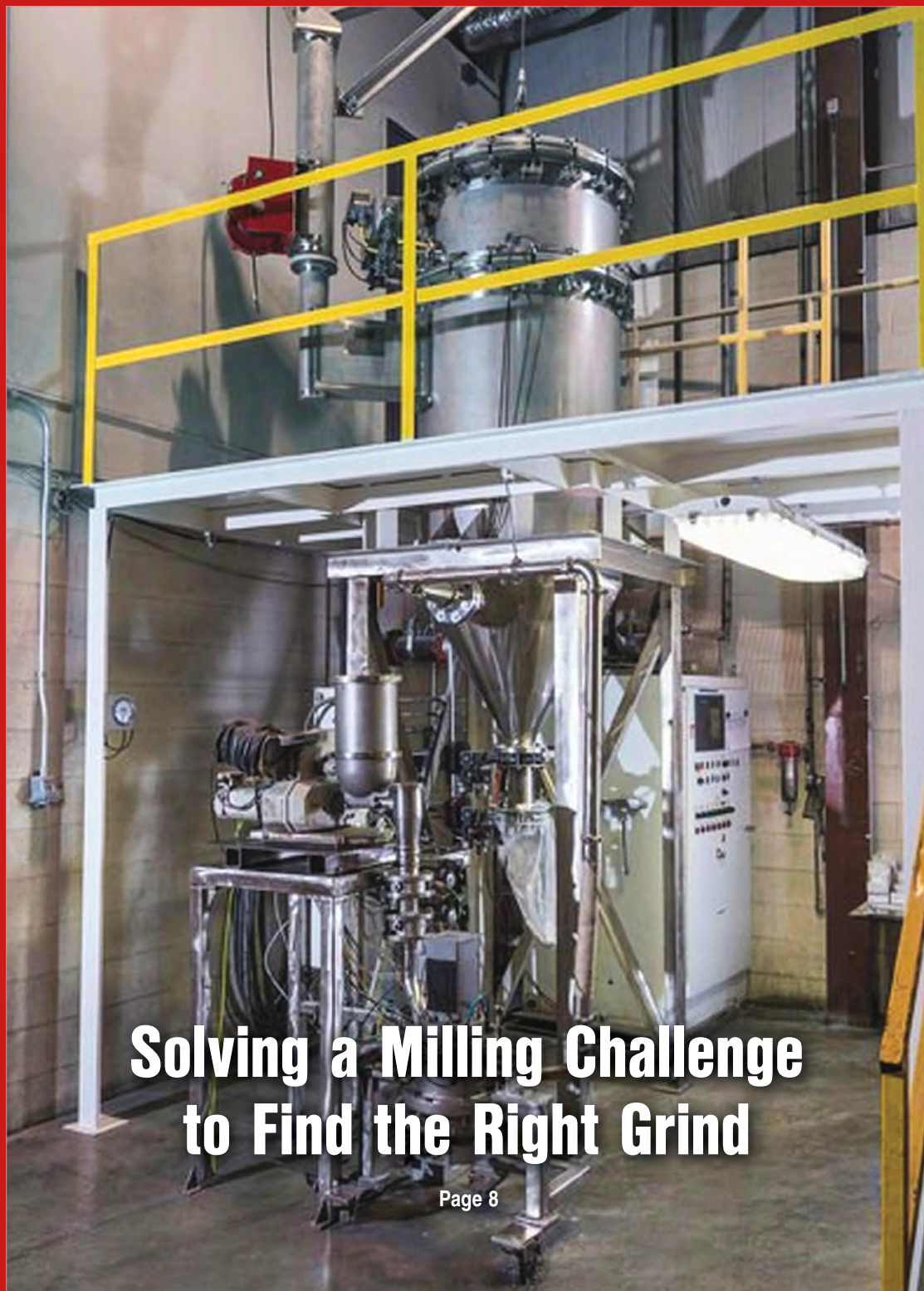


POWDER & BULK SOLIDS

The Source for Dry Processing and Bulk Handling Technology



Solving a Milling Challenge to Find the Right Grind

Page 8

Hammer Mills vs. Screen Classifying Cutters

Many specifiers are unaware of the many size reduction applications these machines have in common, or their relative strengths and weaknesses. Here are the similarities and differences of each machine and the best choice for various applications.

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Tech Challenges & Milling Strategies in Rare Earth Materials Size Reduction

Rare earth minerals are difficult to extract and process. Challenges persist through downstream powder processing stages, where high reactivity, sensitivity to contamination, and narrow operating windows complicate size reduction operations.

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6 Methods for Explosion Mitigation & Protection

Explosion mitigation and protection come in many forms, many of which are not costly. Mitigation and protection methods should be a standard part of the process at any facility that handles combustible dust.

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Battery Electrode Dry Coating

The new RF400 roller feeder is designed to optimize electrode dry coating material feeding in battery manufacturing. It mounts directly over the calender and ensures consistent, uniform distribution of electrode blends. The RF400's grooved feed roller and smooth scraper roller offer gentle, consistent feeding without material bridging in the outlet, as well as uniform material distribution on the calender roller.

Coperion K-Tron LLC, Niederlenz, Switzerland
+41 62 885 71 71 www.coperion.com



Bag Leak Detector

Designed for harsh industrial environments, the TriboPro Model L1 (Loop-powered) sensor by TriboTech Solutions utilizes dual-intensity (AC + DC) processing to capture the full spectrum particulate signal. Whether measuring flow / no-flow in pneumatic conveying, or minuscule picoamp (pA) background signals from a dust collector, the L1's stable circuitry can be used in all monitoring locations. They require no onsite calibration or zero-checking.

TriboTech Solutions, Manchester, NH 603-912-7702
tribopro.com



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ProductFocus

Size Reduction



Multiple Processes in One Machine

Frewitt's FlexMill combines multiple milling processes in a single milling platform dedicated to the pharmaceutical, chemical, and food product industries. The platform allows users to alternate, depending on production requirements,

between five milling heads for size-specific crushing, fine grinding, deagglomeration, or controlled sifting. The technology also allows you to adapt your milling platform easily and quickly, to suit current or future production requirements, regardless of the manufacturing environment or production site. Enhanced by a factor of 5: FlexMill proves its capabilities with the same degree of flexibility across the entire range of your processing needs, from small batch to large-scale production. Integrating three milling processes into a single platform allows up to five different heads to be used and reduces investment costs by 70%.

Frewitt USA Inc., Hillsborough, NJ 908-829-5245 www.frewitt-usa.com



Low Capacity HPGR

The KR-450 from K.R. Komarek is designed for production operations ranging from 11-21 TPH and for delivery of reliable comminution and size reduction for pilot plants and low-capacity production environments. Built for durability and ease of use, the KR-450 incorporates tungsten carbide studs, forged steel shafts, and spherical roller bearings to maximize reliability and reduce main-

tenance. Its gravity-fed feeder, adjustable slide gate, and removable access panels simplify operation and service. Compact dimensions and a fully mounted, aligned system make installation and transportation straightforward. The KR-450 is an efficient solution for controlled high pressure grinding rolls (HPGR) test work and pilot-scale processing.

K.R. Komarek Inc., Wood Dale, IL 847-956-0060 www.komarek.com



Cumberland T50 Central Granulators

Available in a full range of sizes and designs, Cumberland's T50 Series granulators are the best choice for applications ranging from large injection or blow molded scrap, furniture components and appliance parts. The T50's tangential design offers the capacity to process many types of scrap with improved ingestion while using less power. The offset design allows for higher throughput of lower density parts. The T50 series offers exceptional regrind quality and uniform-sized regrind with minimal dust, rugged knife assembly with precise tolerance, and knives are fixed and adjustments performed at the bed knife. Ease of maintenance and safety with easier bed knife maintenance, front and rear door access with zero-speed solenoid, and linear actuator on rear cutting chamber door. Easier knife changes: Tangential and offset cutting chambers available.

Cumberland, New Berlin, WI
262-641-8600
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