



Filters Reduce Fine Particulate Emissions



Tri-Flow compact filters deliver high-efficiency particulate air (HEPA)-level performance with a MERV 16 rating. They have large filter surface areas, low operating pressure drops, and typical efficiencies of 99.999% for 0.5- μ m and larger particles. Seven filter media are available, including options for oleophobic, high-temperature, and anti-static applications. All media are pleated and continuously bonded for stability. Filter replacement can be done quickly from the clean-air side of the collector, which eliminates the risk of hazardous dust exposure.

Tri-Mer Corp. Booth 4136
www.tri-mer.com

Chemical Isolation System Prevents Dust Explosions



The Type IPD chemical isolation and suppression system provides explosion protection for manufacturing plants that handle combustible powders. It features a power supply with battery backup, a monitoring module that indicates system status, a unitized sensor to detect explosion onset, and cannons that deliver a sodium bicarbonate

suppression agent into the protected equipment. The cannons are compact and can be installed at any angle. The isolation system meets the requirements of the Occupational Safety and Health Administration's (OSHA) Combustible Dust National Emphasis Program, as well as the National Fire Protection Association's NFPA 654, NFPA 68, and NFPA 69 standards.

BS&B Safety Systems
Booth 3935
www.bsbsystems.com

Valve Simplifies Dust Collection



The DDV dust duty valve is suitable for use with baghouse and cyclone dust collectors. It is designed for applications where a quality air seal is necessary, and can withstand temperatures up to 300°F. The DDV features a robust cast housing that is available in round or square flange patterns. A split packing ring design allows for easy maintenance with no valve disassembly, and a direct-connected drive with a large gearbox eliminates the need for chain maintenance. Rotors can be customized with urethane seal strips.

William W. Meyer & Sons, Inc.
Booth 1356
www.wwmeyer.com

Mesh Sifter Provides Precise Separation

This cylinder mesh sifter is offered in four different sizes that use standard mesh screen in a segmented design. Customers can specify up to a six-

cylinder capacity. As product enters the rotating cylinders, the tumbling action facilitates product-to-mesh contact, and lifter blades separate the stratified product. The sifter is available in stainless- or mild-steel varieties.

Carter Day International, Inc.
Booth 2634
www.carterday.com

Gate Valve Utilizes Vibration for Easy Discharge



The Vibra-Gate valve uses vibration to dislodge materials, and can be used to control feed rates during filling operations. It moves stored granular material without the need for flushing, and is suitable for discharging sticky, cohesive, and high-moisture materials from bins and hoppers.

Posi-Flate Booth 1012
www.posiflate.com

Material-Handling Hose Incorporates Grounding Wire



The Voltbuster Volt Series hose by Tigerflex prevents static buildup by dissipating static charge to ground, which reduces the potential for electrostatic discharges during the transfer of powders, pellets, and other granular materials. The hose tube is constructed from highly abrasion-resistant polyurethane. A grounding wire is encapsulated in a rigid helix on the exterior of

the hose, which eliminates the risk of contaminating transferred materials.

Kuriyama of America, Inc.

Booth 2411

www.kuriyama.com

Newly Patented DeDuster Removes Product Contaminants



De-dusting systems are used in the bulk solids industry for cleaning granular products such as plastic pellets, regrind, dry bulk foods, and minerals. The RC-Series DeDuster with CentraCone technology uses an electromagnetic field to break the static bond between the electrostatically charged product and dust particles. Product flows through the inlet funnel and into the CentraCone, where a stream of wash air removes the dust particles. The RC-DeDuster can accommodate product flowrates between 10 lb/h and 600 lb/h.

Pelletron Corp. Booth 3725

www.pelletroncorp.com

Wireless Capabilities Upgrade Scale System

SnapStream is a digitally controlled wireless scale system that is NTEP legal-for-trade approved. Scale data can be transmitted wirelessly to an indicator, and subsequently sent to remote displays, printers, PCs, and



networks. SnapStream employs 802.15.4 Zigbee protocol for reliable and accurate weight and data transmission. The system can be configured with up to 16 load cells, and has a range of up to one mile.

Cardinal Scale Manufacturing Co.

Booth 2649

www.cardinalscale.com

Dump Station Allows for Dust-Free Container Opening



Containers of fine powders and solids can be safely opened and discharged in the RNT-CON enclosed rip-and-tip dump station. Contamination-free and hygienic material handling is ensured, meeting operator safety and environmental regulations. Containers are fed through a dust lock into the RNT-CON isolator. The operator uses the glove box to manually open and discharge the solids into the feeding hopper. The material is then vacuum-transferred to the next stage in the process. The unloading chamber can be flushed from within using a hand-washing gun.

Volkman Booth 2415

www.volkmanUSA.com

Rotary Paddle Facilitates Level Sensing

This insertable two-vane collapsible paddle can be used with Safepoint failsafe and Model KA/KAX rotary-paddle level switches. It has a turning diameter of 8.66 in., and can be used with level switches that are mounted vertically or horizontally. The paddle may be inserted from the outside of a bin or silo through a 1-1/4-in. NPT or 1-1/2-in. BSPT coupling. A spring-action feature allows the paddle to be removed, if necessary.



Monitor Technologies LLC

Booth 2407

www.monitortech.com

Pleated Filters have a No-Ledge Profile



The Free Flow design of the iPleat line of pleated filter elements features a molded star-shaped bottom with a no-ledge

profile, which limits dust buildup and allows the dust cake accumulated during filtering to freely drop into the collection hopper during pulse cleaning. The Free Flow design is available on top- and bottom-load style filters with diameters ranging from 2.8 in. to 5.5 in. and pleat counts from 35 to 70 pleats. Various filter lengths and media styles are offered.

iFIL USA

Booth 2143

www.ifilusa.com

Spout Magnets Remove Tramp Metal



These vertical spout magnets separate fine to large ferrous contaminants from high-volume, gravity-fed product streams. Tramp metal is removed from moist, lumpy, granular, and powdered products by two powerful opposing magnets mounted on the outside of the housing. A center diverter on the housing inlet helps direct product toward the magnets. The system's single trap-face design ensures that tramp metal is not washed back into the product stream before it is discarded into collection trays.

Puritan Magnetics, Inc.
Booth 2719

www.puritanmagnetics.com

Weighbelt Feeder is Designed for Sanitary Processes



The sanitary DEA open-frame weighbelt feeder provides weight-controlled feeding and weight indication for fragile materials such as cereals, snack foods, and pasta. It features Type 316 stainless steel product-contact surfaces, and is offered in 12-in. and 24-in. belt widths with belt-weight influence compensation (BIC) to accommodate feed rates up to

2,660 ft³/h. The belt can be removed without the use of tools. A gravity-assist head pulley scraper and an internal plow automatically clean the belt.

Schenck AccuRate

Booth 1673

www.accuratefeeders.com

Agitators Boast Enhanced Mixing Capabilities



These ribbon and paddle agitators are designed to reduce mixing time to 2 min. They are said to be easier to clean than traditional ribbon agitators and capable of handling higher-density fluids and mixtures. The agitators are sized to fit the company's standard mixers, and their 1/8-in. clearance at the bottom of the tank ensures good mixer cleanout. Ribbon and paddle agitators are available in carbon steel and stainless steel varieties. Double ribbon agitators, flat paddle agitators, and standard paddle agitators are also offered.

H. C. Davis Sons Manufacturing Co.
Booth 2311

www.hcdavis.com

Discharger/Feeder Eliminates Ratholing Complications



The GYRO EX bin-activating discharger/feeder produces a controlled gyratory motion to withdraw granular materials from bins, storage silos, and hoppers at any desired feed rate. It

uses radial force to create a uniform circular motion on both the upper activation cone and the lower discharge cone. Because the material load is completely supported by the upper cone, product is not compacted within the lower cone. This, coupled with the steep angle of the discharge cone, prevents ratholing.

Dynamic Air, Inc. **Booth 1304**

www.dynamicair.com

Vacuum Cleaner Features Manual Filter Shaker



The SS-35L EX RE HEPA single venturi vacuum cleaner safely recovers combustible and conductive dusts. It features a 9-gal. detachable tank, as well as static-dissipative cart, toolkit, and suction hose. The system incorporates a manual filter shaker (MFS) that dislodges the dust that is caked on the filter. This allows the operator to clean the main filter without having to open the vacuum. The unit is equipped with a high-efficiency particulate air (HEPA) filter, but ultra-low penetration air (ULPA) filters are also available. All vacuums are aerosol leak-tested before they are shipped.

Tiger-Vac., Inc. **Booth 2720**

www.tiger-vac.com