



Product News

Mobile Tilt-Down Flexible Screw Conveyor System for manual Dumping, Bulk Bag Discharging

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Bethlehem (PA), United States -

A new Tilt-Down Flexible Screw Conveyor System is mounted on a portable base with a multi-purpose hood and an integral dust collector. This allows manual dumping from handheld sacks, as well as discharging from bulk bags, subsequently transferring material to elevated downstream process equipment and storage vessels at multiple plant locations, dust free.



Mobile Tilt Down Flexible Screw Conveyor System with multi-purpose hood and integral dust collector allows manual dumping from handheld sacks, discharging from bulk bags, and transferring of material to elevated downstream equipment, dust-free. (Picture: ©Flexicon)

Corporation)

Discharging from bulk bags requires the user's forklift or plant hoist to suspend the bag above the dust hood, allowing the bag spout to be cinched by an iris valve, untied and then released gradually, preventing uncontrolled bursts of material from the bag.

Alternately, hand-held sacks can be rested on a fold-down support tray, slit open and manually dumped into the hopper. Airborne dust generated by either process is drawn away from the operator's area through the dust hood by a side-mounted BAG-VAC® dust collector vented from the hood. To maintain operational efficiency, reverse-pulse air jets on a timed cycle remove accumulated dust build-up on filter surfaces, dropping it to the bottom of the dust collector for later removal and disposal.

The flexible screw conveyor features an inner stainless-steel screw of specialized geometry to propel both free- and non-free-flowing bulk materials including products that pack, cake, smear, seize or fluidize, with no separation of blends.

The support boom and conveyor assembly can be tilted down to maneuver through standard doorways and aisles, and around corners for use anywhere in the plant. A low center of gravity maximizes stability during operation and when rolling the unit between multiple processing tasks and wash down stations.

When fully lowered, the tilt-down mechanism positions the clean-out cap of the conveyor tube higher off the plant floor, and the conveyor's discharge closer to the floor, allowing removal and re-insertion of the flexible screw from standing height during cleaning and inspection.

The unit is constructed of carbon steel with a durable industrial coating. All stainless steel construction with material contact surfaces finished to sanitary standards is also available.