



October 2010



New Equipment Digest



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CIRCULATION EXCELLENCE AWARDS

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Status Indicators, Beacons & Call Points p. 12

Federal Signal's ATEX/IEC-rated products include three status indicators, three dual-function beacons, and a trio of call points. All items meet international safety standards.

▲ Circle 1 on card or visit www.nedinfo.com/28715-1



Holds Items in Place During Shipment p. 44

Korrvu Hybrid packaging from Sealed Air Corp. uses a retention frame and elastomeric film to hold items securely in place during shipment.

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Enclosure Air Conditioners p. 48



AutomationDirect's Stratus air conditioners, rated at 1,000 to 8,000 Btuh, are designed for enclosures as shallow as 12 in. The NEMA-rated units are suited for harsh environments or when there are washdown requirements, heavy dust and debris, or airborne chemicals present.

▲ Circle 3 on card or visit www.nedinfo.com/28715-3



Extractor Arm Has Less Resistance, More Suction p. 52

XA extraction arm from United Air Specialists has an obstruction-free internal design and large bell-mouth hood to provide greater suction and capture contaminants farther from the source.

▲ Circle 4 on card or visit www.nedinfo.com/287015-4



Low Noise, Sterilizable Brushless Motors p. 59

EC 22 motors from Maxon Precision Motors boast low vibration and noise levels, even at high speeds. They have preloaded ball bearings and permanent magnets.

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Plus: Special Industry Coverage

Manufacturing:
Electrical & Electronics p. 41

OEM/Design:
Material Handling p. 45

Plant Operation:
Hand & Power Tools p. 49



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Case History of the Month:

Low Cost Retrofit of Bag Dump Station to Bulk Bag Unloader

ArrMaz Custom Chemicals produces specialty chemicals for the mining, water treatment, fertilizer, asphalt, and construction industries at its 200,000-sq ft manufacturing facility. Since its beginning as a phosphate producer in 1967, the company has introduced numerous products and expanded its markets into 70 countries.

Adding bulk resin to an agitated tank

One ArrMaz product is a resin soap called ArrMuls that is used as an emulsifier in slow-setting asphalt and as an air-entrainment agent in masonry cements. The process uses heat and agitation to dissolve a solid resin into sodium hydroxide or potassium hydroxide to produce an aqueous soap solution.

To move the solid resin, which was purchased in 50-lb sacks, the company originally installed a Flexicon manual bag dump system consisting of a hopper with a dust collector and 22-ft flexible screw conveyor that discharges into a 6,000-gal tank. Each batch requires 20,000 lb of the resin, which required operators to lift, slit, and dump 400 of the sacks.

In late 2008, Flexicon representative Harry Orr suggested that ArrMaz consider a low-cost retrofit of its bag dump station to add bulk bag unloading capability. Plant Engineer Hernan Cortes liked the idea of preventing potential injury from repetitive lifting and slitting, and of eliminating the wasted product and handling associated with disposing of 400 empty sacks per batch.

Go to: newequipment.com to read the rest of this story on bulk bag unloaders. Simply click on "whitepapers."

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