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Using vacutum to comvey prodect from a lower level to an upper level presented challenges, but substantial benefits as well.

Packaging hot-melt lays flat with a cone at the top, similar to a droplet.

After about four months, a damper was installed to smooth valve operation and relieve stresses that otherwise led to fytigue.
and up another 25 feet 50 as to clear the various packaging containers. A conveying powerhouse would be needed to meet this grueling schedule and transfer the uniquely shaped adhesives effectively without damage.
Volkmann, headquartered in Bristol,
Pennsylvania, uses high-vacuum-rated pumps in its conveying systems, which can transport material with a higher negative pressure than alternative pump technologies, pulling up to $28{ }^{\circ}$

Hg of vacuum. As a result of this high negative pressure, the specified vacuum system easily and quickly draws the irregularly shaped glue chips through the conveying pipeline without damaging them.
"We specified the VS450, our largest receiver, to meet the Jowat conveying requirements," Nick Hayes, president, Volkmann, says. "This equipment has successfully transported powders, granulates and tablets at rates up to eight tons per hour."
Installation included identification of a "quick exchange" filter best suited to cope with the unusual properties of an adhesive. All went well in production. The VS450, specified for 500,000 cycles, runs a "convey-discharge-filter clean-convey" 20 -second cycle.

One little fix
Running 20-hours a day and seven days a week, the unit reached its initial design limit after four months of operation at Jowat and suffered a fatigue-related valve failure as a result of the continual loading and unloading operation. Even though the expected life had been exceeded, Volkmann engineers subsequently configured a unique solution to handle Jowat production levels day-in and day-out.

A new damper smoothed valve operation and eliminated the excessive stresses that led to the valve replacement. The part was factory tested and then installed at Jowat in a live production environment.
"Not only did Volkmann improve our production, they were quick to react to the fatigue situation and developed a solution that has kept us going strong and at no cost to us," states Kuhn.
That was nearly three million cycles ago.
Rapidly responding to customer issues is critical to improving Volkmann products and maintaining its philosophy of manufacturing the highest quality vacuum conveyor available today. Listening and partnering with its customers has been a key element to the company's growth over the past 40 years.

Volkmann engineers and manufactures vacuum conveyors, bag-dump stations, unloaders and other powder-handling equipment. To see Volkmann conveyors in action visit booth \#4953 at Pack Expo 2014 at Chicago's McCormick
Place, November 2-5. In addition, see Volkmann equipment convey Jowat adhesives at Jowat's Pack Expo booth, Booth\# 4828.
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