



On the cover: Vacuum conveying system at a plastics recycling facility conveys shredded post-consumer plastics waste from an agitated feed bin. System sends the non-free-flowing materials to six different destinations. System features an adjustable air-bleed device on each 4-inch conveying line to control the air-to-material ratio and prevent stoppages, which were occurring several times per day when the original pickup device (foreground) was being used. Courtesy of Vac-U-Max, Belleville, NJ, 800-822-8629 (www.vac-u-max.com).

INDUSTRY PERSPECTIVE

8 Reducing bulk solids equipment hazards

Dan Donovan

PNEUMATIC CONVEYING



19 Pneumatic points to ponder...

Columnist Jack Hilbert looks at pneumatic conveying line design and explains how a variety of factors affect material flow in dilute-, two-, and dense-phase conveying.

26 Case history: Company sticks with a proven pneumatic conveying solution

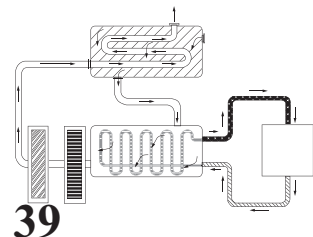
30 Test center: Finding a vacuum conveying system for your material

34 Product summary

64 Suppliers' tips

Suppliers discuss clues that show the rotary valve feeding your pneumatic conveying system is wearing.

GENERAL FEATURES



39 Preventing moisture problems in your dust collector

Brian Mathews

46 Nanotechnology

EPA publishes final rule for nanoscale material reporting and recordkeeping requirements; nanoparticles improve metal melting and solidification behavior; dormant viruses and nanoparticle exposure; and more.

48 Trade show preview: IAOM Conference & Expo

DEPARTMENTS

10 Industry news

16 Markets update

25 Special section:
Bin level indicators

48 Calendar

52 Continuing education

55 What's new

58 Supplier notes

58 People news

59 Product news

62 Classified advertising

63 Advertiser index