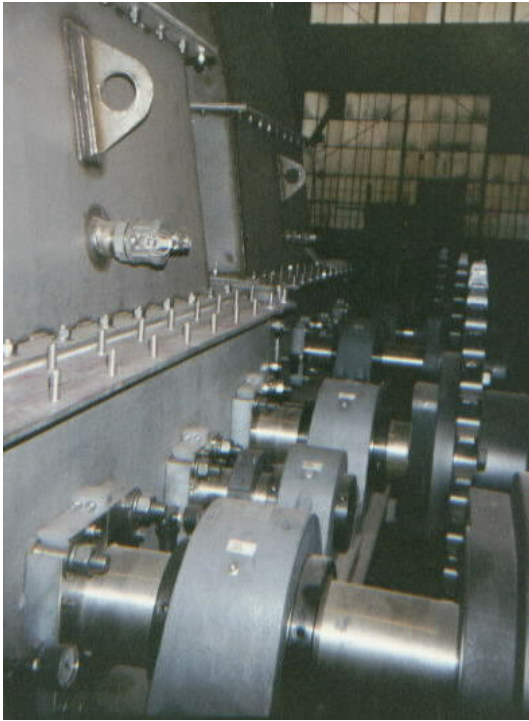


B. W. SINCLAIR INFORMATION UPDATE

MOIST POWDERS DISCHARGE FREELY FROM BWSi LIVE-BOTTOM FEEDERS

A Midwestern petrochemical manufacturer needed to expand production of a proprietary crystalline product and required an upgrade in the discharge system from his centrifuges to his rotary dryer. Material handling concerns included sanitation, product purity, material adhesion to the handling and storage equipment, and environmental protection. In conjunction with the client's engineering consultant, BWSi designed a totally enclosed system to collect the discharge from four centrifuges and meter the product into the dryer.



The special features of the equipment, selected to address specific material handling issues, include:

Our scope of supply included:

- Model 0216-3-LBB 16" dia. Triple-Screw Live Bottom Bins complete with "Negative Sidewall" surge hoppers, all T304L-SS construction, with Ribbon Flight variable-pitch feeder screws to prevent adhesion of product
 - Model 0124-SS 24" dia. Transfer Screw Conveyor, all T304L-SS construction, with Ribbon Flight full pitch screws, and final cantilevered helix to inject material into dryer barrel.
- Woodex-MECO™ nitrogen-purged elastomer gland seals at all shaft penetrations
 - BWSi S/N-7 120-140 grit surface finish to all product contact areas for sanitation and material release
 - Pedestal-mounted spherical roller bearing pillow blocks for shaft support
 - Glass-filled Teflon® internal support bearing on Transfer Screw
 - Special floating joint between Bin Bottoms and Transfer Screw to accommodate unequal thermal expansion
 - "Product Conveyability" testing performed at BWSi factory prior to final Engineering, witnessed by client and consultant
 - Initial Startup Assistance and Operator Training

Hard-to-handle powders and granules? See SINCLAIR for assistance.

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