



ORANGEREPORT

PROCESSING INDUSTRY

Eriez® Electromagnetic Feeder with Deflection Monitoring System Provides Controlled, Consistent Feeding



MODEL HD 36C FEEDER

Problem:

[Deloro Stellite](#) purchases raw materials such as cobalt and atomizes the material into a fine powder, which is either used by Stellite's hard-surfacing operation or packaged and sold to its customer base. Before the cobalt-based powder gets to the packaging point, the material flows through screeners with various opening sizes to get the proper gradation. Some customers want very fine powder, while others want powder that is coarser. Stellite was using an older feeder system to convey the powdered metal from small hoppers to the screeners. Because the flow rate could not be precisely controlled, the powder was flooding the screeners, causing inconsistent gradation and wasting valuable product.

Solution:

Deloro Stellite ordered several [Eriez® Model HD 36C Feeders](#). Each was installed with a 5" x 24" stainless steel tray, complete with quick-release cover and Model G30 solid-state control, which can vary the feed rate from zero to 100 percent. A deflection monitor was mounted to the feeder tray to provide continuous feedback of tray deflection back to the control.

Result:

The constant feed rate system allows a Deloro Stellite operator to set the feed rate at the beginning and the control system automatically compensates for the changes in head load and any voltage fluctuations during the production run. The Eriez Feeders ensure consistent gradation and reduce wasted product.

Note: Some safety warning labels or guarding may have been removed before photographing this equipment.

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