

Case Study No 9

UNLOADING, FEEDING, CONVEYING, STORAGE, SECURITY SIEVING AND DRUM FILLING OF LACTOSE

Subject Expansion of the existing facility in Nörten-Hardenberg to enable the production of Direct Compression Lactose (DCL).

Client DMV International in Nörten-Hardenberg (Germany).

Gericke Technology A Gericke Pulse Flow transport vessel type PTA 80 is used to convey the raw material from big-bags to a feeding hopper.

The Gericke Vibrating Bin Activator TXF 900 and Rotaval HDR 200 rotary valve control the discharging of product from the storage hopper.

A special Gericke feeder GAC 133F, ensures high capacity and accurate filling of the drums and Intermediate Bulk Containers (IBC's).

Application Raw materials are unloaded from bigbags and pneumatically conveyed to a feeding hopper. From the feeding hopper the material is metered into an agglomerator. After agglomeration the product is stored in a day bin. The product is then sieved and checked for metal contamination before accurate filling into drums or IBC's.

Materials handled Lactose and DCL15.

Bulk density Lactose: 560 g/l
DCL15: 500 g/l

Dosing Capacity 4000 kg/h



Gericke delivered the complete powder handling system from the incoming raw material in big-bags up to the packing in drums and IBC's.



Gericke vibrating bin activator and rotary valve for feeding product into the sieve



Drum filling line