

VORTI-SIV

PHARMACEUTICAL LAB CASE STUDY

THE APPLICATION

The sieving and de-agglomeration of 5 kg batches of Magnesium Stearate powders for a large pharmaceutical manufacturer. The material needs to be sieved in 20 minutes through U.S. 40 mesh.

THE PROBLEM

Most of the samples have agglomerates. The coarse particles need to be removed from the samples continuously. The operator needs to run the batch unattended and requires an accurate feed system.

THE SOLUTION

VORTI-SIV Model RBF-10 gyratory lab unit with a 10" diameter sieve which utilizes a variable speed frequency control and continuous oversize discharge outlet. In addition, a stainless steel self-feed hopper is used to meter the powder.

THE BENEFITS

Minimum Clean-up and Product Changeover-

Only two (2) stainless steel sanitary product contact parts enables fast changeover. An optional removable dome or scoop feed cover enables dust-free sieving.

De-Agglomerating Sieve-

Four (4) optional highly polished stainless steel 2" diameter disks are put on the screen surface to break the agglomerates. The RBF-10 mechanical gyration causes the disks to randomly impact agglomerates, reducing all lumps to fine powder.

Self-feed Hopper –

The all stainless steel 5 kg capacity hopper with adjustable slide gate enables the material to be properly metered to the screen surface. Efficiently controlling the feed rate decreases the amount of agglomerates.

Variable Speed –

The RBF-10 utilizes a 3450RPM electric motor. A digital frequency inverter enables the mechanical vibration to be controlled from 800 to 3450RPM. This feature improves the processing flexibility of each product sample.

All stainless steel Model RBF-10 with stainless steel hopper and variable frequency drive. →



← Two stainless steel contact parts including: screen element & discharge funnel



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