

VORTI-SIV

POWDER COATING RECLAMATION

THE APPLICATION

The continuous inline recovery of overspray Teflon and polyester-type powder coating for a manufacturer of automotive accessories.

THE PROBLEM

The need to continuously transfer and sieve 600 lbs. per hour of powder coating at 80 mesh/177 micron to remove all debris and break up any agglomerates. Additionally, the sieved powder needs to be uniformly fed to a fluidized hopper and re-circulated with virgin material. The current rotary sifter blinds too easily and is difficult to clean.

THE SOLUTION

The installation of a portable high-speed 3600RPM VORTI-SIV® gyratory model RVM-22E powder recovery system to reprocess the powder coating at 10 lbs./min.

THE BENEFITS

Minimal Clean-up -

The RVM-22E utilizes a removable 22" diameter stainless steel screen element and three (3) additional stainless steel product contact parts. The vibrating contact parts are secured by five (5) heavy-duty quick-release pan clamps, which enables quick changeover of the screen element.

Multiple Inlets -

Mounted above the RVM-22E is a special flexible inlet tower with a variable number of paint line inlets. These tangential fittings are attached to the inlet canister and enable the free flowing/non-compaction of powder. A powered vent is added to remove dust and prevent over pressurization.

Compact/Portable Sieve -

The RVM-22E reclamation unit has an overall height of 62" with a variable center or side product discharge height. An optional adjustable frame height version is available for applications using different size powder hoppers.

Benefits -

Inline reclamation enables efficient dust-free recovery of powder coatings. A significant cost savings is achieved by reprocessing the overspray coatings. Disposal costs are likewise reduced.

Ultrasonic Option -

Our VORTI-SIV® SFA® Ultrasonic Deblinding Kit is adaptable to any screen element for sieving at finer mesh sizes.



Model RVM-22E
Powder Coating
Reclamation Sieve



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