

# VORTI-SIV

# POWDER COATING CASE STUDY

## THE APPLICATION

Sieving 50 lb. boxes of several varieties of powder coatings for a U.S. powder-coating manufacturer. The material needs to be sieved within 5 minutes through mesh openings ranging from 80 to 150 mesh.

## THE PROBLEM

Most of the boxes contain debris and powder agglomerates and are of multiple colors. This requires a great deal of extra sieve processing and color changeover time.

## THE SOLUTION

VORTI-SIV Model RVM-15E center discharge gyratory small production sieve utilizing a gyratory speed frequency of 3600RPM. Additionally, our SFA® Ultrasonic deblinding kit is utilized for screen sizes finer than 80 mesh.

## THE BENEFITS

### Minimum Clean-up and Product Changeover-

Only two (2) stainless steel product contact parts enables fast changeover. Four (4) quick release clamps secure both contact parts in the RVM-15E main housing. An optional removable scoop feed cover or feed hopper enables dust-free sieving.

### Optional De-Agglomerating Sieve-

Four (4) highly polished stainless steel 2" diameter disks are put on the screen surface to break the agglomerates. The RVM-15E mechanical gyration causes the disks to randomly impact agglomerates, reducing all lumps to fine powder.

### Optional SFA® Deblinding Kit-

A single phase 115/230 VAC ultrasonic auto-tuned generator along with an externally mounted 37 KHZ removable transducer supplies high frequency energy into the sieve frame via the main rim clamp band. Screen blinding is immediately eliminated. Commonly used for difficult powder coatings such as clears, epoxies, & Teflon.



Heavy-duty clamp band with removable SFA ultrasonic transducer.

Model RVM-15E with SFA® removable Ultrasonic deblinding transducer and generator, shown mounted to a 200 mesh stainless steel screen. Two stainless steel contact parts including: center discharge funnel & 1 screen element.



Model RVM-15E shown with portable mounting frame. Stainless steel contact parts, discharge funnel & screen element



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