

VORTI-SIV

POWDER CASE STUDY – DTM

THE APPLICATION

Recycling loose batches of SLS[®] powdered material after a parts build during the SLS process. Process rates of 1 – 2 Kg. / min. at #70 TBC (.0106) mesh are required. An additional #94 TBC (.0071) mesh is furnished with each system.

THE PROBLEM

The need to remove small contaminates and oversize powder from the process. This prevents streaks on the part bed.

THE SOLUTION

The installation of a high frequency 3450RPM VORTI-SIV Model RVM-15E with cover and sanitary stainless steel construction of contact parts.

THE BENEFITS

Minimum Clean-up -

Only two (2) stainless steel sanitary product contact parts enable faster powder clean up. An optional removable scoop feed or clear Lexan dome cover to enable dust-free screening is utilized.

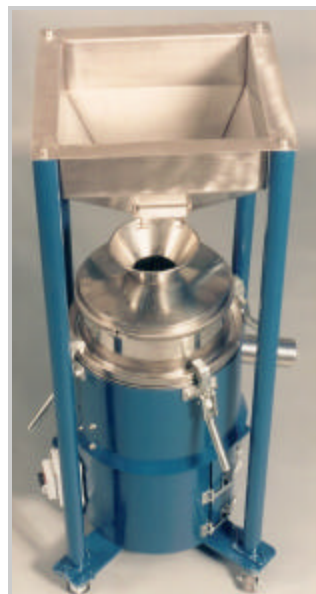
Compact Sieve -

The 34" high portable unit is typically mounted inside the BOS cabinet. Four (4) casters are supplied. A stand alone production version Model RBF-15 is available as shown below.

SFA Ultra-Sonic Deblinding Kit - Optional

A single phase 110/220 volt Ultra-sonic auto-tuned processor with a screen mounted aluminum transducer supplies an additional 50KHZ of high frequency energy to the 3450RPM mechanical gyrating mesh. Screen deblinding of SLS[®] powder is eliminated. Process rates increase up to 5 times.

Screen elements furnished with each system: #94 TBC (.0071) mesh & #70 TBC (.0106) mesh



Model RBF-15 with cover & steel self-feed hopper.



Model RVM-15E with SFA Ultra-sonic kit.



Stainless steel contact parts: scoop cover, discharge funnel & screen element.



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