

VORTI-SIV

Nutraceutical Powder Case Study

The application

Security –Screening 50lb. batches of vitamin ingredients for a Southern CA Nutraceutical manufacturer. The bags need to be sieved and de-agglomerate using a 10mesh screen at a rate of 10 bags per 1-2 minutes. The client has asked for continuous discharge of any foreign/plus 10mesh materials. The system must be dust-free.

The problem

The ingredients are made and packaged in a foreign country. The company's Safety Policy requires a quality control pre-screening for agglomerates and/or debris. The sieve unit must also be portable to relocate at various processing stations and mount over a Vac-U-Max Feed Bin unit.

The solution

A VORTI-SIV Model RVM-40E with a Mini-Bag Dump Station. This includes an ALL Stainless OSHA approved mobile and textured Work Platform for the operator to store and load the Bags into the 62" wide x 6"high Bag Dump Tray. The Tray is sloped through a large opening in top deck section. An all stainless enclosed 1800RPM Vibratory Electric Motor is utilized along with a 1/2" pre-screen.

The benefit

A removable Cover with a 6" male port allows a direct connection to a Dust Collection System. Likewise, an FDA flexible white rubber discharge boot connects to the feed bin unit which enables a complete dust-free sieve process. The motor with variable degrees of amplitude adjustment enables any large particles to exit immediately without an operator assistance. The process rates are easily and safely met by a single operator.



VORTI-SIV®
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*Model RVM-40E Portable
center discharge
Mini-Bag Dump Station*



*Model Shown with Pre-Screen
Deck, Dust Cover and
Side Outlet for Debris*

TECHNICAL DATA:

- Electric Vibrating Motor 3/4 or 1/2HP, 1 or 3 Phase, continuous duty, DIV II or XP, ATEX Zone 20-22, 50/60HZ, 1800 or 3600RPM.
- Variable Frequency Drive-Optional
- Clamps: Quick Release Vee-Band Type Stainless Steel.
- Contact Parts: 304/316 Stainless Steel with brush finish or 25ra/electro-polish.
- Non-Contact Parts: Carbon Steel Powder Coated Finish or all 304/316 Stainless Steel.
- Motor: All 304 Stainless Steel Enclosure or Powder Coated Safety Orange or FDA White Epoxy.
- Screens: Pre-tensioned epoxy bonded or silver solder. Removable Mesh Ring. Stainless or Nylon Mesh.
- Ultra-sonic fine mesh de-blinding kit. 1PH 115 VAK 33-37KHZ Censeator
- Dimensions: 40" x 40" x 2" high square tube base only, 3/8" plate base only or Four-legged portable support frame with discharge height as required. Optional telescoping legs.
- Weight: 305-400lbs. depending on options or motor size.



Sieve Model shown with open cover. Ultrasonic wave guide and resonator ring, with converter mounted externally.

Product Contact Parts



Mini-Bag Dump Model with removable feed tray assembly and dust cover. Available with optional magnet deck Section. Center or side discharge.



Sieve Model with Vac-U-Max® vacuum feed recovery system.



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