

The application

Safety-Screening 50lb. Bags of various food ingredients for a Texas-Based Nutritional Snack Food Manufacturer. Quality Control requires that all ingredients be pre-screened for contaminants and agglomerates at US18mesh/1000um openings before mixing and blending.

The problem

The customer has several mix stations that require a portable and compact center discharge sieve unit. The sifter must be sanitary grade and easy to clean plus sieve the powder in 10 seconds. A Dump Tray is required to support the bags while the operator carefully opens each bag. The Dump Station must be adaptable to a Dust Collector System.

The solution

A Center Discharge Low- Profile Model RVM-15E with a 15" diameter sanitary sieve/screen element, a portable support frame, a removable mini-bag Dump Station and Cover to connect to a Dust Collector.

The benefit

Minimum Clean-up and Dust-Free Security Screening -

Three (3) all SS Sanitary Electro-Polished Product contact parts enable fast Product change-over. The contact parts are secured by four (4) adjustable quick-release clamps. The removable Dump Hopper and Cover are secured by quick-release clamp bands.

Low profile sieve -

The portable 4-legged support frame is custom made as specified to a feed and discharge height acceptable for safe operator usage. Optional designs are available with telescoping legs.

SFA Ultra-sonic Deblinding Kit -

A 1Phase 115/230VAC x 50 or 100 watt x 33-37 KHZ auto-tuned transducer along with an externally mounted removable converter supplies high frequency energy to the sieve mesh via a waveguide connected to the internal resonator frame. Finer mesh screen blinding is eliminated. Sweep-Frequency software is provided to optimize screen efficiency from a variety of particle and mesh surface tensions.



VORTI-SIV®
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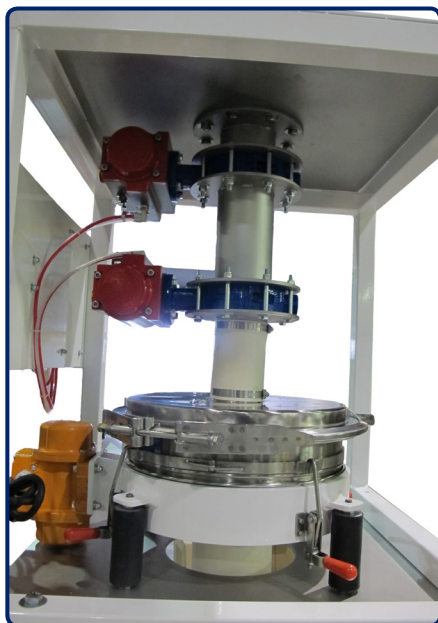
**Model RVM-15E Mini-Bag
Dump Station**



Adjustable Twin Motor Model

TECHNICAL DATA:

- Electric Vibrating Motor 1/6, 1/3 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: Four(4) Sanitary Heavy-Duty or Toggle/Pan. Nickel Plated Carbon Steel or all Stainless Steel.
- Contact Parts: 304/316 Stainless Steel with brush finish or 15ra/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 with Clip. Stainless or Nylon Mesh.
- Ultra-sonic fine mesh de-blinding kit available on all types.
- Dimensions: 20" x 20" 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: 105-200lbs. depending on options or motor size.



Inline sieve model mounted with Vac-U-Max vacuum transfer feed system

Product Contact Parts



Sieve with waveguide and resonator.



Sieve

Funnel



Center discharge Model RVM-15E with cone-feed hopper



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