SIFT / GRIND / DE-CLUMP / BAG DUMP

# WARTHOG PROCESS SYSTEM

*The Warthog is an advanced version of the LS4 Process System. It is designed for minimum residence time and minimal frictional energy input to the product. It may be configured for declumping of cohesive materials and also is an excellent high volume grinder for friable materials.*

## APPLICATIONS

For use on clumpy, cohesive materials, firable materials, dry powders, flours and granular materials in the food, chemical, plastics, consumer products, and allied industries. Process operations include:

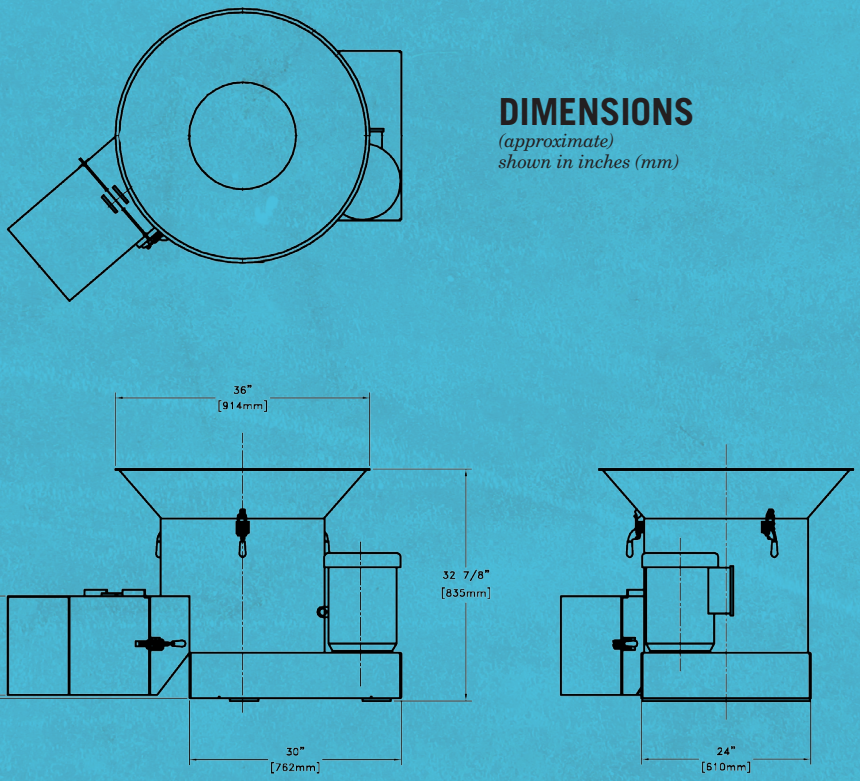
- Gentle De-Clumping of Cohesive Materials
- High Volume Grinding of Friable Materials
- Bag Dumping
- Power Sifting
- Scalping of Foreign Material

## WORKING PRINCIPLE

Material is loaded into the feed hopper which may be customized to suit incoming product size. A spinning feed plate is used to precondition the material before entering the vertical sieve unit or vertical bar basket. A rotating impeller throws the material tangentially through the basket with centrifugal action. The material then drops down the outer sifter body wall and is swept by the lower impeller through the discharge.

## FEATURES AND BENEFITS

- Minimum Residence Time and Heat Generated/Frictional Energy Input to Product
- The Ultimate High Volume Grinder for Cookies, Crackers, Snacks, Expanded Products, Cereals, etc. Handles high fat and filled products
- Power Sifts ground materials and captures tramp and packaging materials.
- High Capacity Grinding with rates in excess of 100 lbs/min. possible
- Ultra Efficient with drive size of only 7.5 HP reduces energy costs
- Compact Footprint saves floor space
- Simple Design and Maintenance/Easy Clean Out
- Low Cost/Quiet Operation




## DIMENSIONS

*(approximate)*
*shown in inches (mm)*

## DESIGN ENHANCEMENTS

Stainless Steel Construction
Quick Disassembly
Wash Down Design
Made in U.S.A.

## TESTING

Product samples may be submitted for testing at the Whirlwind Technical Center in Grand Rapids, MI. Demonstration and rental equipment is also available for field testing.

## MATERIAL OF CONSTRUCTION

Loading hopper, sifter body, internal components, and frame fabricated from stainless steel. Sieve mesh available in woven or perforated stainless steel.

## STANDARD SERVICES

*(other options available)*

- **Electrical Supply:** 208, 204, 480, 575 V, 3ph, 60 Hz
- **Main Drive:** 7.5 hp (5 kW), 1740 rpm, T.E.F.C., Wash Duty, AC motor
- **Gross Weight:** Approx. 400 lbs. (181 kg)

## ELECTRICAL CONTROLS

*(other options available)*

Start/stop push buttons mounted in wash duty, NEMA 4X/IP 66 stainless steel enclosure. Manual motor starter with Class 10 overloads, phase loss protection.

## GUARDS AND SAFETY FEATURES

*(other options available)*

Loading hopper safety grate. Loading proximity switches to ensure loading hopper and discharge extension in place.

## OPTIONS

- **Sieve Unit** – Basket and impeller used for most applications. Offers maximum versatility and throughput. Mesh sized to meet application.
- **De-Clumper Basket and Impeller** – Used for gently de-clumping cohesive blocked materials.
- **Tailing Unit** – Spinning conical perforated screen used to control feed rate and prevent large contaminants from entering sieve unit. Protects against accidental downtime and ensures maximum screen life.
- **Feed Control Plate** – Spinning plate used to control feed rate and distribute product evenly to sieve unit.
- **Hopper Cover** – Used for dust containment during loading operations.

*Specifications subject to change without notice.*