APPLICATIONS
Applications For use on dry powders, flours, and granular materials in food, chemicals, plastics, consumer products, and allied industries. Process operations include:

- Bag Dumping
- Sieving/Scalping of Foreign Material
- Power Screening
- Grinding/De-Clumping

WORKING PRINCIPLE
Dry material is loaded into the tapered hopper and feeds into a vertical sieve unit with closed bottom. The sifter uses multiple rotating vanes, instead of brushes, to throw and blow the powder tangentially through the mesh with centrifugal action. After passing the screen, the material drops down the outer sifter body wall and is swept by a bottom impeller into the gravity discharge tube.

The tailing unit prevents large contaminants from entering the sieve unit. The refuse material remains in the bottom of the sieve unit which can be vacuumed or removed by hand and cleaned periodically.

FEATURES AND BENEFITS
- Simple and Reliable – Thousands of installations world-wide, many of which have been in service for decades.
- Value and Versatility – A single machine capable of performing several unit operations as efficiently as specialized machines. The most versatile dry process machine available.
- Modular Construction – Internal components are readily interchangeable to meet process requirements.
- Ease of Operation – Internal components may be swapped in minutes with hands only. Sifter is self-emptying. Dry cleans with vacuum. Quick disassembly for wash down.
- Ease of Maintenance – No need for expensive factory service reps.
- Free Standing, Self Contained and Portable
- Compact Footprint – Saves floor space.

No machine has proven more versatile than the LS4, the culmination of almost 70 years of process experience. This process system has successfully handled hundreds of materials and applications.

The adaptability of the LS4 is demonstrated in its wide-ranging capabilities from tough duty grinding of friction materials to gentle de-clumping of raisins. The machine can be easily and quickly configured to carry out a variety of operations, from simple sifting of chemicals or food ingredients to de-clumping and grinding of caked powders or friable dry products.

Because it is free-standing, self-contained, and portable, the LS4 can be easily moved to where it’s needed without rigging, framework, etc. The self-regulating feed control mechanism automatically adjusts feed rate and prevents overloading.
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, 240, 480, 575 V 3ph, 60 Hz
- **Main Drive:** 5 hp (3.7 kW), 1740 rpm, T.E.F.C., Wash Duty, AC motor
- **Gross Weight:** Approx. 400 lbs. (181 kg)

ELECTRICAL CONTROLS
(other options available)

GUARDS AND SAFETY FEATURES
(other options available)
Loading hopper safety grate. Proximity switch to ensure loading hopper in place.

OPTIONS

- **Sieve Unit** – Basket and impeller used for most applications. Offers maximum versatility and throughput. Mesh sized to meet application.
- **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.
- **De-Clumper Basket and Impeller** – Used for gently De-Clumping cohesive blocked materials.

*Specifications subject to change without notice.*

DIMENSIONS
(approximate)
shown in inches (mm)