



# PACE STONER

## Model S-25



### PRODUCT DESCRIPTION

Stoners are recommended for efficient two-way separations of small amounts of heavy material from sized dry granular mixtures where a sharp density difference exists between the light and heavy fractions.

### APPLICATIONS

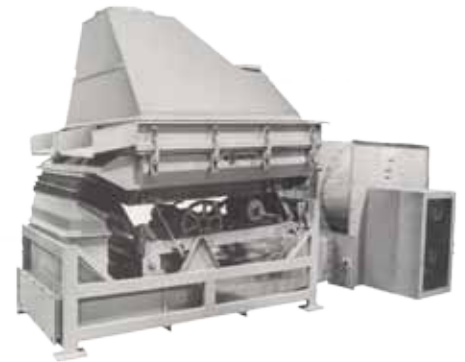
The S-25 Pace Stoner is the newest addition to the line of precision air classification equipment manufactured by Triple/S Dynamics. Designed with 25 sq. ft. of deck area for high volume processing, the S-25 may be used for the removal of:

#### Agricultural

- Product-size stones, glass and non-magnetic metals (which cannot be removed by screening) from wheat, corn, peanuts, beans, seeds and coffee beans
- Stones from ground-harvested almonds
- Unexpanded from 'puffed' food products, such as wheat, puffed rice, etc

#### Industrial

- Stones from wood chips to prevent refiner plate damage
- Coarse particles (shives) from wood flakes for particle board
- Glass from sized or composted solid waste
- Metallic prills from crushed slag and foundry sand
- Unexpanded from expanded vermiculite following expansions furnaces
- Nodular iron pyrites from ground clay for brick and tile
- 'Core' from kiln-burned lime



### HOW THE S-25 WORKS

The material is introduced onto a flat porous deck, sloped in one direction, and vibrated with a straight-line reciprocating motion. Low-pressure air, blown upward through the deck, fluidizes and stratifies the material according to differences in the terminal velocity of particles.

Light particles, lifted by the fluidizing air, float downslope toward the light-end discharge, while heavy particles sink to the bottom of the stratified bed and are conveyed toward the high or 'heavy' end by the deck's vibration. Narrowing towards the heavy discharge end, the deck's configuration concentrates the reject discharge and retains an inventory of heavy material to prevent product from being discharged with the rejects.

### S-25 DESIGN FEATURES

**Dynamic Counterbalance** - absorbs inertia forces at all speeds for smooth operation. Reduces strains in the support structure and extends life of all moving parts.

**Open Chassis Construction** - wide-open chassis design allows quick and complete access for cleaning. Reduces risk of product contamination from hidden dirt. Open construction also facilitates servicing of interior components if necessary.

**Slide-Out Deck Construction** - Allows quick, easy removal for cleaning or inspection.



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**Air and Speed Controls** - Precise adjustment for positive, sensitive control of air flow and eccentric speed. Free of drift.

**Deck Slope Adjustment** - Hand wheel controls deck slope in two planes. Adjusts easily. Slope is infinitely variable within the adjustment range.

**Wide-Span Toggle Plate Deck Suspension** - Precisely controls the motion track of all points on the stoner deck.

**Forced Air Supply** - Air supply system provides improved air distribution. Independent pressure blower with radial blades assures necessary air for even the toughest separations.

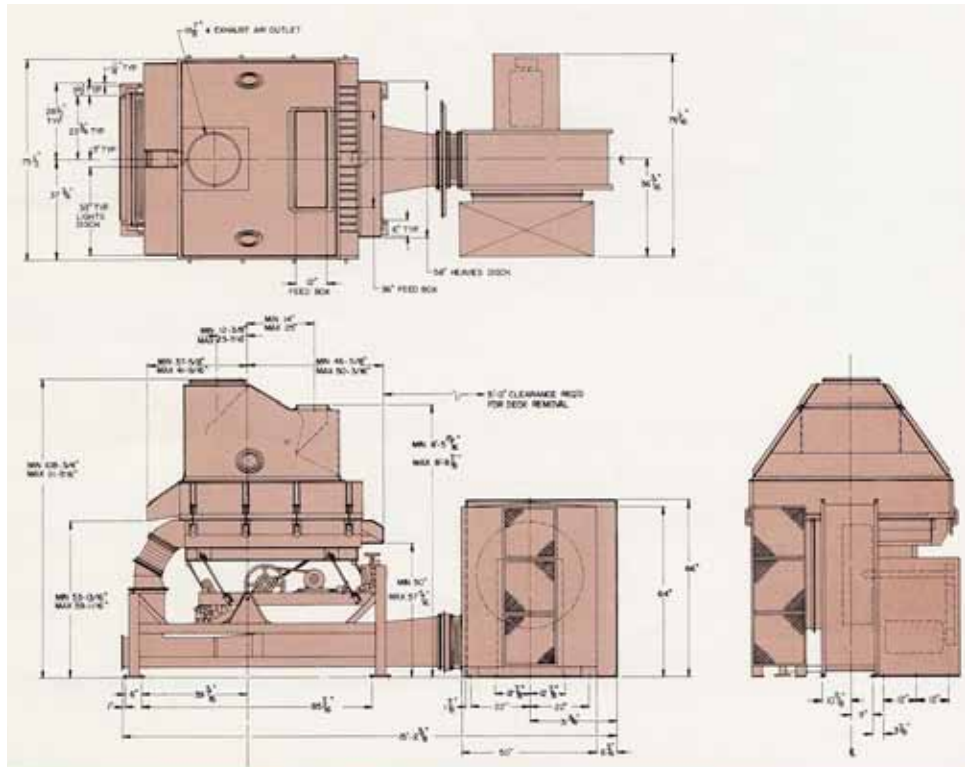
**Heavy-Duty Clamping Arrangement** - Secure locking arrangement prevents drift. Clamps are strong, sturdy and built to last.

**Aluminum Exhaust Hood** - Integrally mounted, lightweight exhaust hood encloses the separation chamber for dust control. Power requirements are divided between the inlet and exhaust sides of the system. Dust collectors are available to meet environmental control requirements.

## SPECIFICATIONS

■ Installed weight (with hood)	6000 lbs. (2724 kg)
■ Deck drive motor	2 HP, 1800 rpm
■ Blower motor	10-20 HP*
■ Fluidizing air flow	2250 - 11500 ft <sup>3</sup> /min. (63.7 - 325.6 m <sup>3</sup> /min.)
■ Exhaust air flow	2750 - 12000 ft <sup>3</sup> /min. (77.9 - 339.8 m <sup>3</sup> /min.)

\*Horsepower, fan size and air flow vary to meet the requirements of the specific application.



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