



# STONER

## Model S-40-60A



### PRODUCT DESCRIPTION

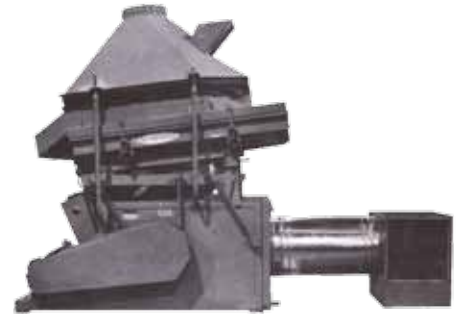
The Sutton Stoner derives its name from the application for which it was first developed: separating from wheat, corn, peanuts and beans the product-size stones, glass and non-magnetic metals which could not be removed by screening.

Many new applications for the Stoner have since been found, among them the beneficiation of kiln-burned lime by removal of 'core'; separation of contaminating nodular iron pyrites from ground clay for brick and tile; aluminum from copper granules; mudballs from ground harvested almonds; 'matchsticks' from wood flakes; metallic prills from crushed slags; and others too numerous to mention.

Stoners are recommended for applications requiring only a two-part separation into light and heavy fractions where the latter is a minor constituent in a closely-sized dry granular mixture and the density difference between the two components is about 1.5:1 or more. Under these conditions the Stoner exhibits phenomenally high separation efficiencies at high rates of throughput. Capacities range up to 16 tph, depending on the size and density of process material.

Like all Sutton Stoners, the Model Super S-40-60A features quick, easy internal access for inspection and cleaning and can be supplied in special epoxy finishes or in stainless steel where surfaces are in contact with the process material. The all-metal deck panel is retained with quick-release clamps, and slides out of the air chest like a desk drawer. Construction is all steel, with built-in high capacity blower to fluidize material loads of large particle sizes. Vibration is generated by a self-balancing inertia drive, attached to a deck support assembly mounted on laminated spring steel legs.

Also furnished as standard equipment are the V-belt drive and guard, convenient external motor mounting plates, and independent air intake filter housing with easy-to-clean filter panels. Matching full canopy exhaust hood, exhaust blower and dust collectors are optional.



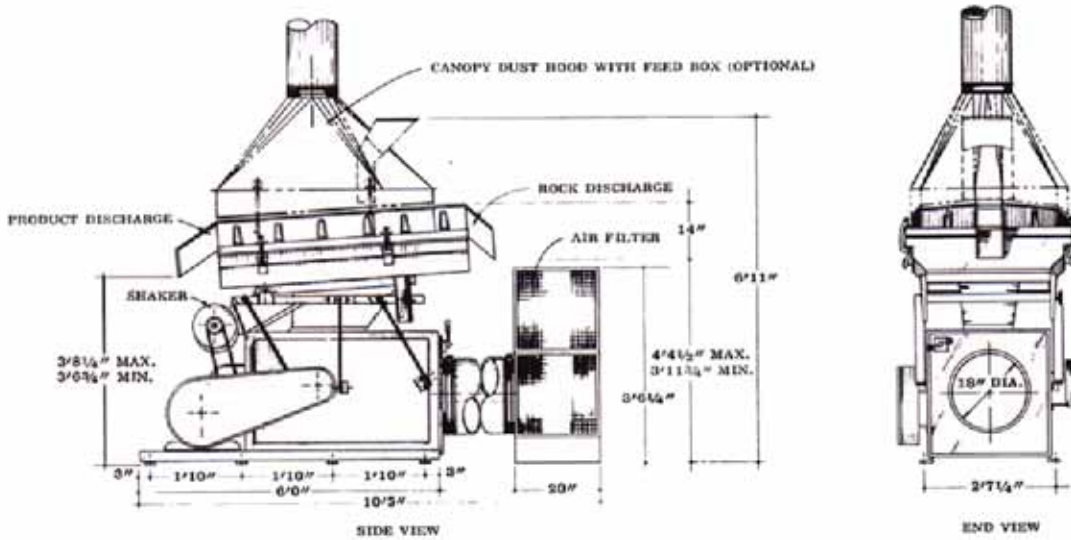
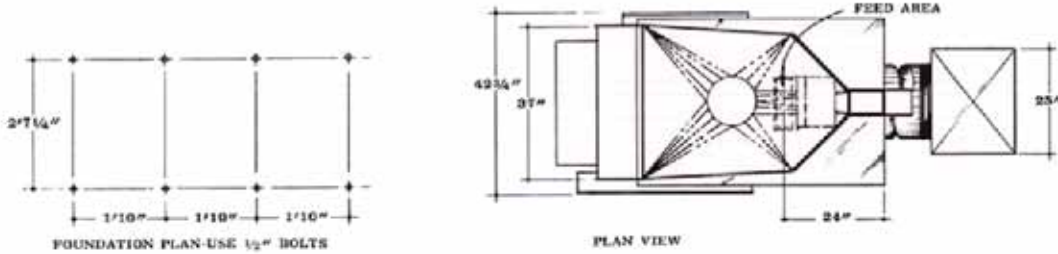
### HOW THE S-40-60A SYSTEM WORKS

Sloping in one plane only, the flat porous deck oscillates to convey material 'uphill' toward the high end. Air moving upward through the deck fluidizes the material bed, allowing the heavy particles to sink to the bottom where they are transported along the deck surface to a reject spout at the high end. The lighter product mass, in an expanded or fluidized condition, floats on a cushion of air down the slope to be discharged from a spout at the low end.



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