

# Applications of Fox Venturi Eductors

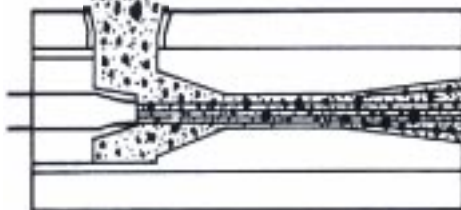
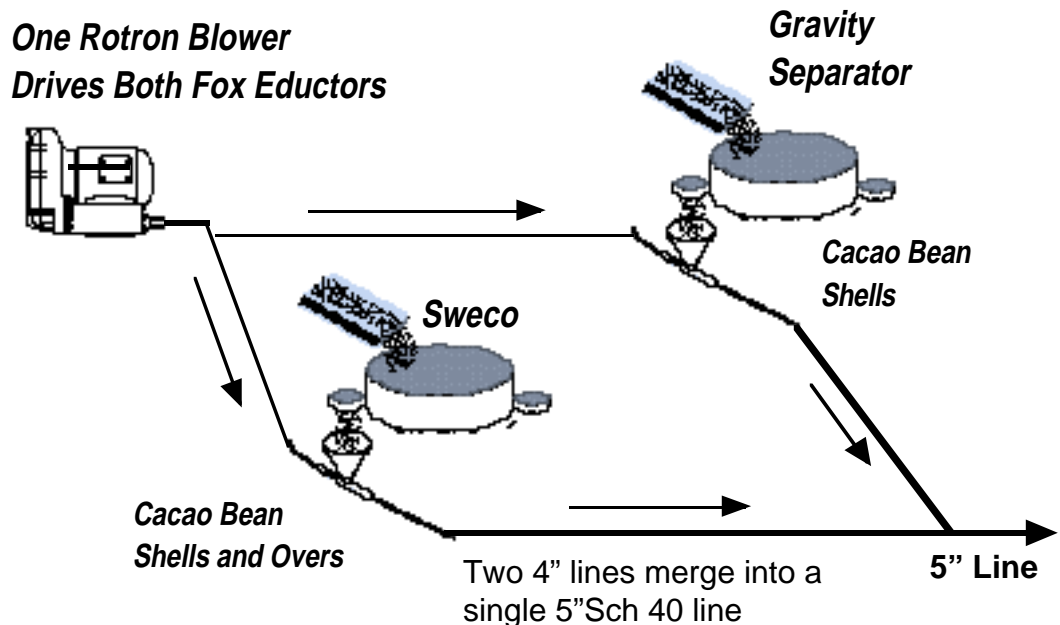
## Case Study No. 57

**Product :** Cacao bean shells, Bulk density - 5 - 8 lbs/ft<sup>3</sup>, Very abrasive

**Problem:** This large chocolate producer sells cacao bean shells in bulk as a fragrant mulch for gardeners. The very light, fragile bean shells are, like rice hulls, extremely abrasive. The plant originally used airlocks to convey shells from winnowers and screeners, resulting in a number of major problems: a) Shearing by the airlock's rotor reduced the product to mostly dust, making it unsaleable as mulch; b) Wear in airlocks required frequent maintenance, and c) Blowback from airlocks affected screener performance with this very light material.

**Solution :** After successful degradation trials at Fox Valve's test lab, the airlocks were replaced with 4" ceramic lined Fox eductors, both driven by a single, small Rotron blower. Degradation has been reduced to acceptable levels, blowback has been eliminated, and no ceramic liners have yet to show signs of wear.

### ***Cacao Bean Shell Conveying with no wear, no maintenance, and minimal degradation of mulch product***



  
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