

Applications of Fox Venturi Eductors

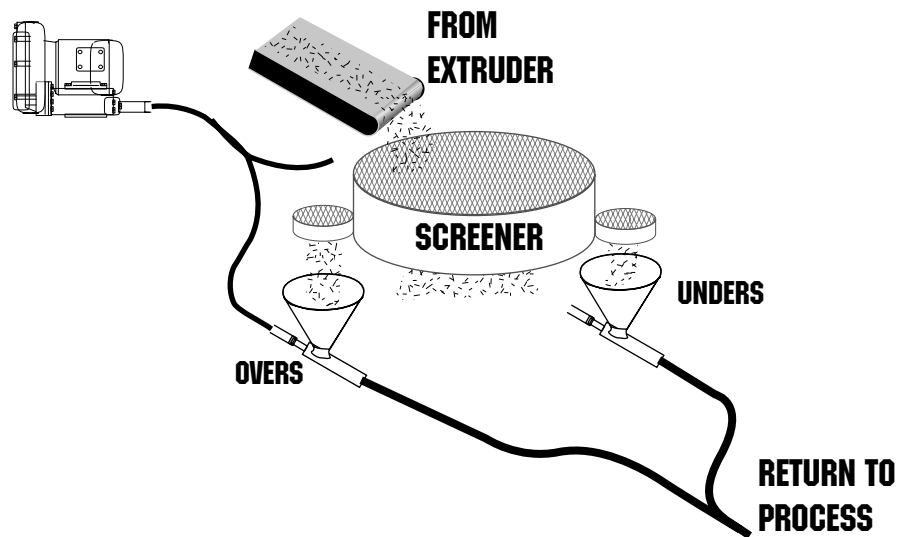
Case Study No. 44

Product: Plastic Pellets from an extruder, compounded with additives

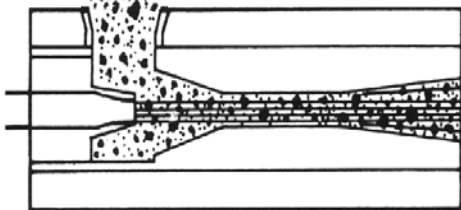
Problem: At the plant of a large specialty compounder, eight extruders deliver pellets to eight screeners; each of which produces an 'overs' and 'unders' output. This material is currently collected in drums, that are manually carted, transported, and dumped back to process. Sixteen drums must be manually handled, sometimes twice a day. Automating this process was considered to not be an option since a) airlocks would be too expensive, too cumbersome, and would jam with stringers; b) reclaim vacuum systems would require an additional receiver to be installed above each storage bin.

Solution: Each extruder was equipped with one small 4 HP Rotron blower (about 16" square footprint) which drove two small 1-1/2" eductors, which were merged into one common reclaim line. Since the silos and bins are already vented, no additional dust collector was necessary.

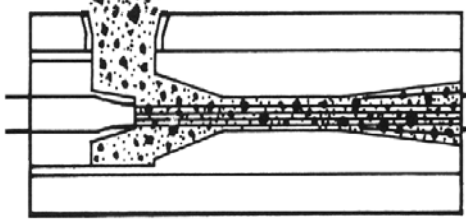
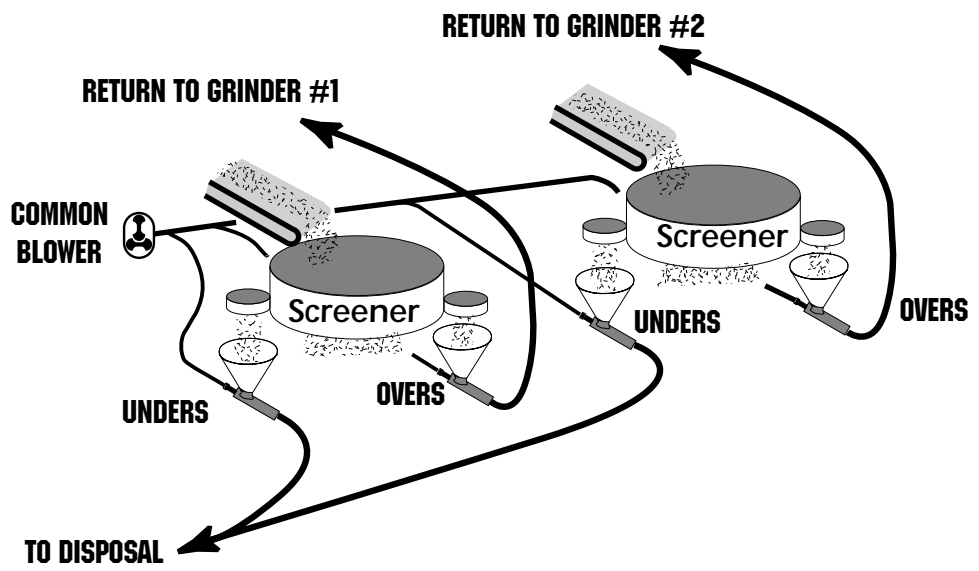
Automating Overs/Unders Reclaim from Screeners with Fox Eductors



ONE ROTRON BLOWER FEEDS TWO FOX EDUCTORS, WHICH CONVEY RECLAIMED PRODUCT BACK TO PROCESS IN ONE CONVEY LINE, WITH NO MOVING PARTS.
(See reverse side for application with two screeners)



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