

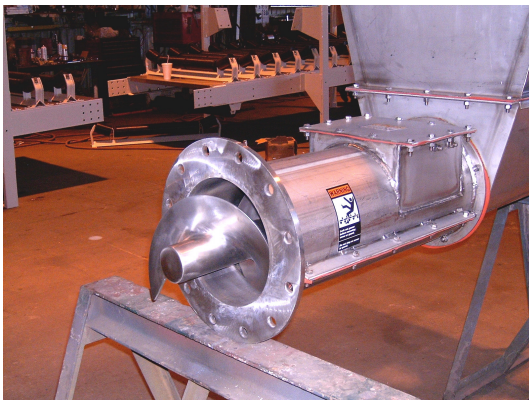
B. W. SINCLAIR INFORMATION UPDATE

SPECIAL SCREW CONVEYOR SERVES AS STEAM VENT TO CAPTURE SOLIDS PARTICULATE

B. W. SINCLAIR, INC. recently completed a project to furnish a stainless steel Screw Conveyor with integral hopper and vapor vent. The unit is used to vent steam from a processing line while collecting the solid rubber particles for re-injection into the process stream.



The unit features a tubular discharge section flanged to mate to a riser spout on the client's processor. Steam used in the manufacturing process exits the riser and back-flows through the conveyor and out the stub connection at the top. Some crumb rubber material has traditionally been lost in this flow, so the new unit is fitted with a 9" dia screw to reinsert that product. The discharge end of the new screw has to mount integral to the existing equipment, and the machine features a cantilevered design to eliminate the support bearing on the discharge end. The opposite end features a DODGE TAIL™ helical shaft mounted drive reducer and a premium-efficiency TOSHIBA motor.



Clamped "flush-mount" side access doors allow operator access for cleanout and inspection, and the tubular discharge section has a dropout port as well.



Internal, product contact surfaces of the hopper, vent hood, and rotor are cleaned and polished to a CEMA IV surface profile to minimize surface adhesion of the moist particles and allow wash-down between campaigns.



The user produces a synthetic rubber petrochemical, and our partnership resulted from Sinclair's ability to offer a custom designed solution to a material-handling problem.

B. W. SINCLAIR, INC.
ENGINEERING
INNOVATION
MANUFACTURING

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