

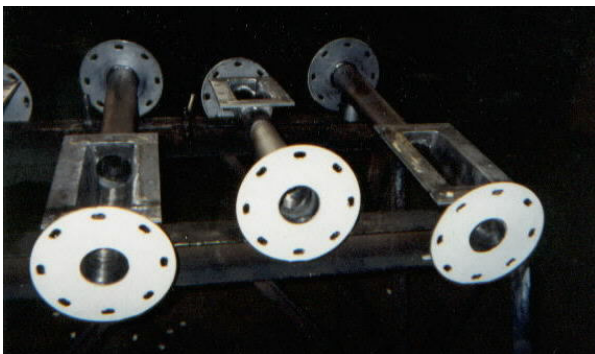
B. W. SINCLAIR INFORMATION UPDATE

VOLUMETRIC FEEDERS SUPPLY PLASTIC PELLETS TO EXTRUDERS FOR PIPE MANUFACTURING

A series of SINCLAIR Series 200 Volumetric Screw Feeders has been commissioned by a domestic manufacturer of plastic pipe to meter pellets and resin into high-pressure extruders.



The feeders, all AISI-304LSS construction, provide volumetric feed control of the materials from overhead storage hoppers. A variable-speed electromechanical drive module consisting of a Nord Corp. Unicase™ right-angle helical-worm drive gearmotor with a high efficiency inverter-duty electric motor powers each unit. The units handle varying volumetric rates, and were furnished in sizes from 3" to 10" diameter. The feeders are enclosed in tubular steel housings with integral inlet and discharge spouts. The inlets are rectangular mass-flow styles to match the discharge openings from the overhead storage hoppers.



The right-angle gear units allowed space saving installation, a feature that was critical to the client. SINCLAIR designed special trough end plates to mount the drives and carry a Teflon™ spring-loaded lip seal to prevent material excursion.

All product contact welds are continuous and ground to remove pits and crevices. Both weld and parent metal are polished and buffed to a Conveyor Equipment Manufacturers Association CEMA-IV surface profile to promote clean material release from the housing and rotating helix.

The feeders also feature variable-pitch feed screws to regulate the flow and to promote an even, or mass-flow, withdrawal across the face of the inlet throat.



In addition to Volumetric Screw Feeders, SINCLAIR also furnishes other systems to the plastics industry, including:

- Paddle or "cut & folded" flight Continuous Mixing Screws for resin and minor additives
- Bulk Bag Unloading Stations
- Series 300-700 Continuous Discharge Bucket Elevators
- Powder-Water Separator Screw Systems for dewatering
- Ribbon-flight Centrifuge Discharge Feeders, Hoppers, and Transfer Screw Conveyors

B. W. SINCLAIR, INC.

P. O. Box 1111 Wichita Falls TX 76307-1111 USA

www.bwsinclair.com 940-766-2556 voice 940-766-0430 fax sales@bwsinclair.com