

B. W. SINCLAIR INFORMATION UPDATE

SPECIAL SANITARY SCREW FEEDER METERS MATERIAL FROM IBC UNLOAD STATION

SINCLAIR has recently commissioned the first in a series of sanitary stainless steel screw feeders that are mated to special tote-dumping stands for an international food and beverage processor.

The special screws, polished to CEMA V 150-180 grit sanitary finish on all product contact surfaces, meter cocoa powder from the IBCs into the customer's process lines.



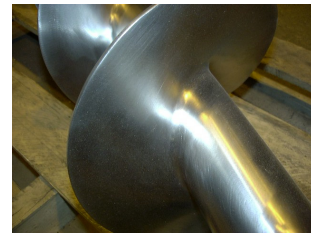
The units feature a custom-designed combination U-trough-to-tubular housing to mate to the dump station. The tubular transport section eliminates any crevices or pockets where the fine powders could build up and contaminate the flow. A BWSI CamLock™ quick-access inspection port tops the discharge spout, featuring a square-to-round transition terminating in a Hoffman™ flange. For personnel protection, the removable door is interlocked with an Allen-Bradley 802T® pushbutton limit switch.



The systems, fabricated from T304L-SS, are rated to deliver a maximum of 24,000 lbs/hr of cocoa powder weighing 24-lbs/ cu ft. They feature a 10" dia variable-pitch helix continuously welded to a center pipe; the end shafts are pinned and welded into the pipe to eliminate internal fasteners. After fabrication, the pieces are mechanically ground and polished to achieve the specified surface profile. As always, this is a multi-step process progressing from coarser to finer grits.



Rockwell-Dodge Type E-xtra® double row tapered roller bearing flange blocks support



the rotor, and Cinchseal Series 7500™ purged elastomer gland seals provide dust containment and satisfy the

client's sanitation requirements. Power is supplied by a Nord Gear Right Angle Helical-Bevel Model SK9016.1™ gearmotor with an integral 3 HP inverter-duty IEC 460-volt electric motor. The maximum operating speed is ~ 65 RPM, with slower feed rates available via the variable frequency inverter controller.

A second quick-access cover section behind the rectangular inlet flange allows a fast inspection of flow and sanitation conditions.

Sinclair's engineering and manufacturing flexibility resulted in another custom solution to the customer's needs, a hallmark of BWSI.

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