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Food Process Equipment Sales, Engineering & Service

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TNT TUMBLE WASHER

The TNT Tumble Washer is designed and fabricated to provide years of dependable service and is one of the highest quality, most rugged units available in the marketplace, maximizing your efficiency and return on investment.

Overview: Designed to batch wash tangled roots (up to 1,500 pound batches) containing varying amounts of sand and soil. Product is loaded into a rotary drum and tumbled to break up clumps and separate debris from the product. Internal lifters agitate the product during the wash cycle. The quality of washing, dwell time, and water use will be determined and controlled by the user. The fresh water rinse cycle will be regulated by the user.

Operation: Product is loaded into the drum by a tote dumper or forklift. Approximately 30 percent of the product in the drum is under water during the washing process. The operator fills the water tank and manually starts the machine. During the washing process the water continually circulates in and out of the perforated sides as the drum slowly rotates and the product tumbles. Washing is achieved by product to product contact. A small amount of fresh water is introduced to the system during washing to prevent excess dirt buildup in the water by allowing dirty water overflow to the drain. Water washes the product and takes the soil out of the rotating drum into the water tank where it settles out. After washing the water is drained, the tank is refilled, and a rinse cycle is run. The drum is then hydraulically lifted to dump the product from the drum. All controls are manually operated and a NEMA 4X VFD is provided for drum rotational speed control.

Specifications:

All T304 stainless steel construction (except drive, cylinders and trunnions)

Heavy duty 10 Ga drum weldment with 60" diameter rolled channel opening support

Five toothed product lifters to agitate and separate product

Water Capacity: 700 gallons

5 HP, 10 rpm wash down drive system with NEMA 4X VFD

5 HP self contained hydraulic power unit with 30 gallon reservoir mounted on stainless base

Large 4" bore hydraulic cylinders with sturdy 2-1/2" diameter shafts, painted stainless steel

Dual hydraulic cylinder design with pilot operated check valves for operator safety

Cylinders plumbed to manually operated lever valve for easy installation

Overall unit size is 112" wide x 155" long x 113" high

42" infeed/discharge height

Minimum headroom requirement is 160"



Options:

- Elevated load/dump heights with sub frame
- T316 stainless steel construction for salty or acidic products
- Glass bead finish for ease of sanitation
- Product discharge chute to direct washed product to next equipment in line
- Stainless steel hydraulic cylinders
- Stainless lift off cover with sight windows for power unit protection
- Up/down push button controls and starter mounted in a NEMA 4X SS enclosure in place of manually operated lever valve
- PLC operated control system to automate fill, run, drain and rinse cycles
- Cyclone system to remove dirt from wash water minimizing cleanup labor

Unwashed Product



Washed product

