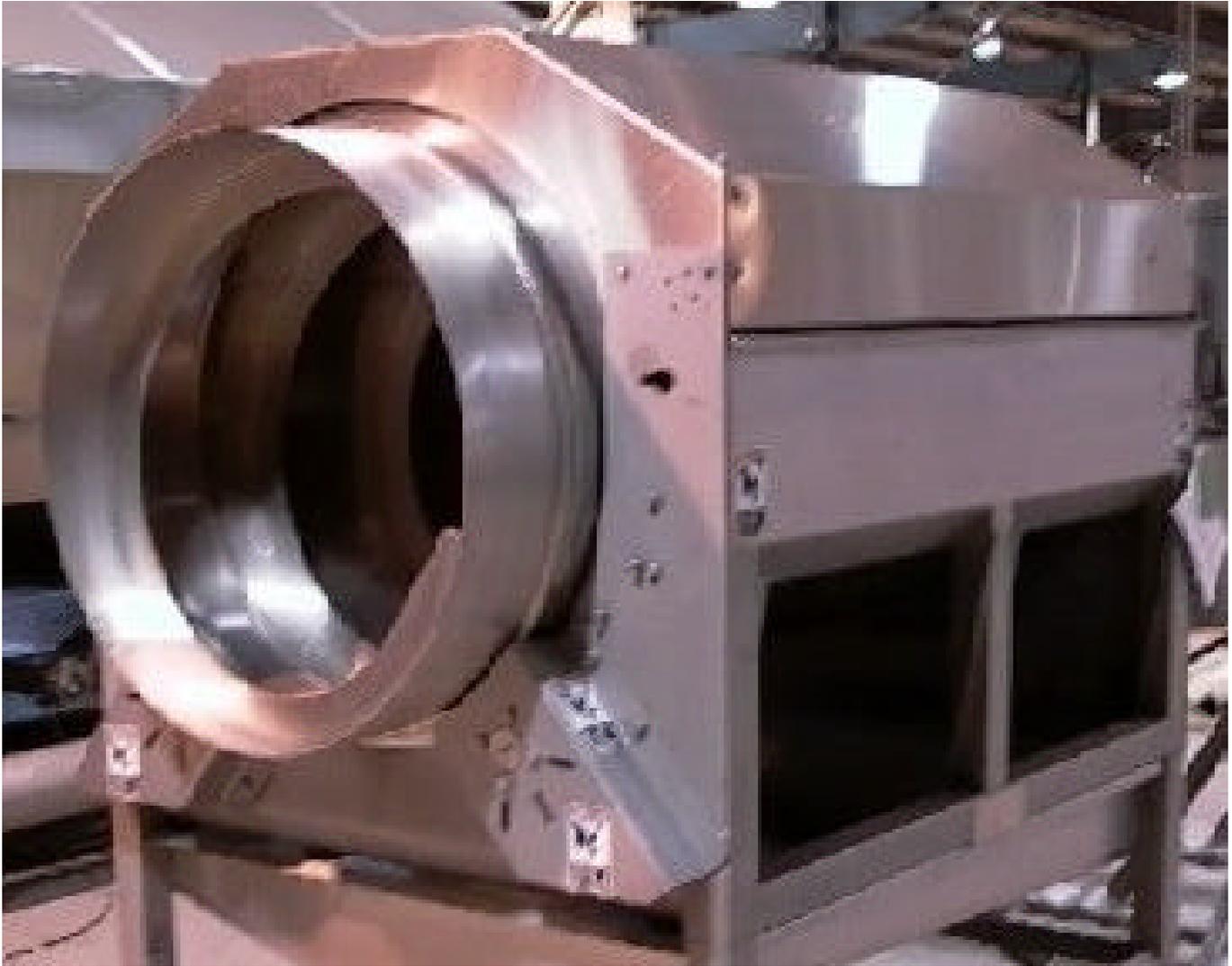


ROTOSCREEN

INTERNAL-FED GRAVITY DRUM TYPE



ROTOSCREEN Gravity Drum Type is an internal-fed screening device and is designed to handle stringy fibers, greasy solids and high concentrations of suspended solids without blinding. It is typically constructed of quality stainless steel, including the wedgewire drum screen, screen enclosure and overall support structure.

Screen drum opening sizes range typically from 0.01" (0.25mm) to 1/4" (6mm). The drum screen is backwashed by a spray assembly. The self-cleaning action built in the wedgewire, as washwater gushes through, prevents clogging and ensures reliable continuous performance. The screen is covered for safety and odor prevention. The drum drive system consists of a gearmotor, with optional VFD control.

METHOD OF OPERATION

ROTOSCREEN Internal-Fed Drum Screen is designed to operate with minimal attendance. Influent enters a headbox inside the screen drum. The headbox overflows and distributes the flow evenly onto the rotating screen drum. As water passes through the screen, solids are retained on the inside of the screen drum. Spiral diverter flights inside the drum intercept the solids along the length of the screen to discharge. No doctor blade is required in this design. The solids can drop off into a container, conveyor chute or solids washing/dewatering device for further processing to reduce the water content and increase the solids dryness.

The unit is equipped with water sprays to clean the screen drum as it rotates. Through the wedged openings, the spraying/backwash assembly, located on the upper half of the cylinder, will wash off any solids, grease and/or other materials sticking to the face of the screening media and thus keep the inside of the cylinder clean. The backwash can be set manually or timed or programmed to operate on an as needed basis.



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