



### **TurboDrum IF™**

Headworks® Internally-fed horizontally-operating drum screen, with dual overflow headbox with clean-out/drain connection



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Internally Fed Drum Screen



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### MUNICIPAL WASTEWATER

The treatment of municipal wastewater is experiencing tremendous change today with the development of advanced treatment systems such as Membrane Bio Reactors (MBR), Moving Bed Biofilm Reactors (MBBR) and Integrated Fixed-Film Activated Sludge (IFAS) processes. These processes have performed exceptionally well in achieving the new higher levels of treatment required today but also require higher levels of screenings removal (liquid-solid separation) in front of the processes. Headworks Internally Fed Drum Screens are a cost effective way to achieve these removal challenges. This equipment is available in a wide range of hydraulic and separation capacities to allow customizing for the most effective solution for your unique application.

- 304 or 316 stainless steel
- 0.25 to 4 mm wedgewire, 1 - 6mm perforated plate, or wire mesh
- Dual spray screen washer system
- Adjustable speed control
- Internally fed
- Dual discharge inlet headbox
- Helicoid arranged discharge blades
- Wedgewire slot transversal to flow
- Flows up to 2400 m<sup>3</sup>/d or 15.2 MGD

### Primary Municipal and Industrial Treatment

Maximum process efficiency of these advanced treatment processes is best achieved with fine liquid-solid separation. Removal of hair, fibers and suspended material from wastewater also minimizes operation and maintenance costs. Headworks' Drum Screen's efficiency in these applications- where they sometimes operate at near nominal flow capacity – is due to high fiber concentration in the solids load. These fibers agglomerate and absorb grease as they tumble towards the discharge end of the screen, cleaning the openings, allowing liquid to drain, and enhancing the effectiveness of the rotary screens dual spray wash system.

The screened solids are easily compressed to a dry screenings content of 35%, significantly reducing their volume and making them easy to transport. The Headworks Screwfactor™ line of screw presses are especially designed for this application.



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#### Municipal Applications

- MBR fine screens
- Package treatment plants
- Piped influent applications
- Process screening
- Sludge dewatering
- Sludge thickening

#### OPTIONAL EQUIPMENT



The turbulent zone of influence created by the optional patented **TurboWash™** agitator loosens and emulsifies the organic BOD material on screenings.