

INTRODUCING THE DUPERON®  
INTERNALLY FED ROTARY  
**DRUM SCREEN**

The Duperon Internally Fed Rotary Drum Screen, the first of our Drum Line products, is now available to sites through our Pilot Test Program. Our Internally Fed Rotary Drum Screen applies proven Duperon simple adaptive screening technology to fine screening for municipal and industrial applications and is engineered for sites with both high flows and high solids content. The Rotary Drum Screen is designed to manage difficult-to-capture debris and protect sensitive treatment processes, such as MBR, from fine particles and fibers, making it ideal for both wastewater and industrial applications. As with all Duperon products, the Rotary Drum Screen combines mechanical simplicity, trouble-free maintenance, and long product life for treatment process reliability and increased efficiency. More information about our Pilot Program is available on the back page of this brochure.





# INTRODUCING THE DUPERON® INTERNALLY FED ROTARY DRUM SCREEN



## 1. NO MORE TRUNNION WHEELS

Our design eliminates the use of trunnion wheels and replaces them with stainless-steel shoes and UHMW polyethylene, water lubricated, wear strips which support the weight and balance of the drum. The wear strips require no special tools or removal of drum to replace



## 2. REMOVABLE PANELS

Quick change-out removable panels provide easy access to the inside of the drum

**Perforated Screens** provide a high capture rate of materials larger than the perforation size

**Wedge wire screens** minimize the risk of clogging and maximize permeability ratio



## 3. DIRECT DRIVE SYSTEM

The direct drive system eliminates chains and sprockets and is positioned outside the wet area to avoid corrosion. The drive gearbox helps support and balance the drum to eliminate need for lubrication and reduce wear and tear



## 4. QUICK RELEASE SPRAYERS

Individual sprayers are easy to remove for cleaning - no tools required or downtime of the drum screen - which ensures continuous debris screening



## 5. OVERFLOW PORT

A strategically placed overflow port prevents the Drum Screen from overflowing and draining out with the debris discharge



# THE DUPERON® DIFFERENCE

## LONG PRODUCT LIFE

- The unique design eliminates the need for trunnion wheels, sprockets, and chains, which reduces the wear and tear points and increases the product's lifespan

## TROUBLE-FREE MAINTENANCE

- All routine maintenance is done at chest level. Removal of the drum is not required to perform maintenance and manual clean in place (CIP)

## DESIGNED FOR DUTY

- Engineered to perform in fine screening applications that have high flows and high solids loading

## FLEXIBLE DESIGN

- Quick change-out screening panels, available in various opening sizes, allows for improved debris management

## LOW COST OF OWNERSHIP

- With few wear parts, a fractional horsepower motor, and minimal maintenance required, Duperon equipment is easy to install, own, and operate

## CUSTOMIZABLE

- The water inlet can be designed on either side of the drum screen, providing options for difficult installation scenarios



## PILOT TEST PROGRAM

Try out the Duperon® Drum Screen at your site with our Pilot Test Program. Both municipal and industrial sites may participate in this 2-6 week program to gain valuable information on the type and volume of debris your site manages.

Our portable, skid-mounted Drum Screen system comes with controls and multiple screen panel options. Participants will need to provide a power source, influent and effluent piping, influent feed pump, a water source for cleaning the screen, and a method to dispose of screenings that are removed during the process.

Duperon will deliver and assist with the set-up of the Drum Screen, provide operational training, sampling assistance, analysis of sample data, and a final test report. The data derived from the sample tests provides valuable information to ensure your site has the screening system in place to provide system-wide resiliency.

To learn more about the Duperon Drum Screen Pilot Program contact us at [sales@duperon.com](mailto:sales@duperon.com) or visit our website at [www.duperon.com](http://www.duperon.com).

## PRODUCT DATA

UNIT WIDTH	58"
UNIT LENGTH	69"
PANEL TYPE	<i>Wedge wire, perforated plate, and wire mesh. available as individual screen panels or single screen wrap</i>
PANEL OPENINGS	2mm
MATERIALS OF CONSTRUCTION	<i>Available in 304 SSSL</i>
SPRAY BARS	<i>Standard 1</i>
TYPICAL MOTOR	<i>1 hp</i>
CLEANING FREQUENCY	<i>Continuous</i>
DRUM ROTATION SPEED	<i>4-5 rpm</i>
FLOW CAPACITY	<i>TBD based on test. Estimates can be provided.</i>
STANDARD CONTROLS	<i>TBD based on test. Estimates can be provided.</i>
TYPICAL APPLICATIONS	<i>WWTP with MBR, industrial applications, IFAS, MBBR</i>
OPERATION OPTIONS	<i>Continuously/manual, automatic with timer, float, SCADA, differential/high-level sensing options with I/O as needed</i>