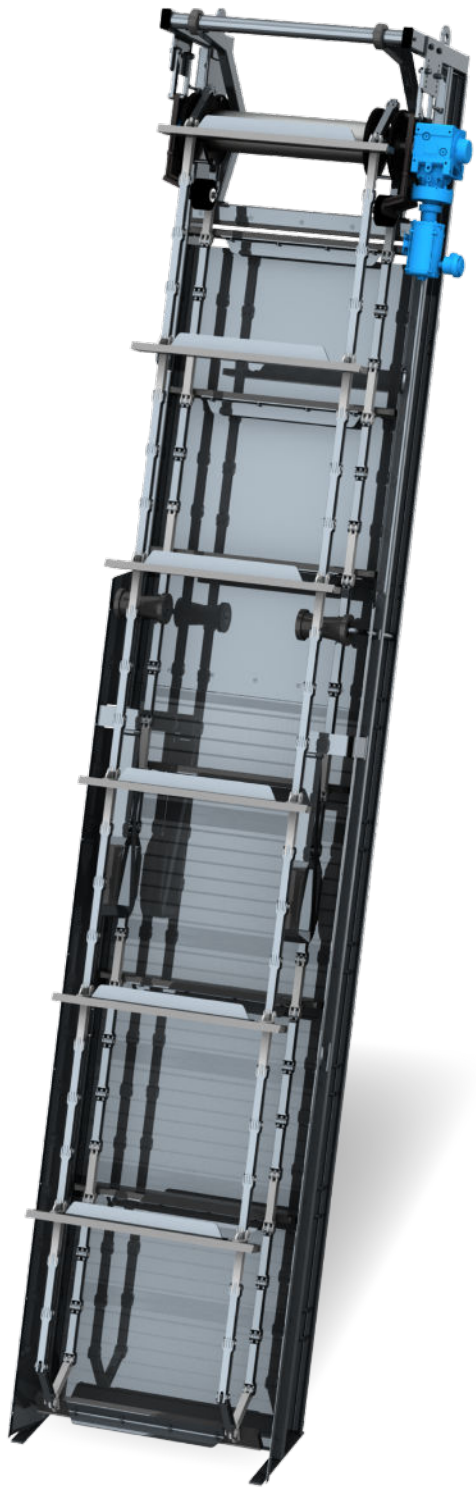
DUPERON®

INDUSTRIAL FINE SCREENING



DUPERON®

FLEXRAKE® FS

FINE SCREEN

The FlexRake FS applies proven Duperon Adaptive Technology™ to a fine screen for specialized industrial applications. The FlexRake FS combines mechanical simplicity, trouble-free operation, and long product life for treatment process reliability, increased efficiency, and regulatory compliance.

THE DUPERON DIFFERENCE

REDUCES TREATMENT COSTS

- *Effective fine solids removal lowers BOD (biological oxygen demand), the amount of treatment chemicals needed, debris loading on downstream processes or surcharges for high-strength wastewater*

NO PROCESS WATER REQUIREMENTS

- *The FlexRake FS is a simple alternative to drum screens when water usage and/or costs are prohibitive*

ADAPTABLE DESIGN

- *Flexible design adapts to planned batch processing and peak variations, as well as, high organic loading, various debris, temperature, and PH levels*

SIMPLE

- *With few parts and minimal maintenance, Duperon equipment is easy to install, own, and operate*

EFFICIENT

- *Uses fractional horsepower with low energy consumption (solar power options available)*

1200 Leon Scott Court, Saginaw, MI 48601 F 989.754.2175 TF 800.383.8479 www.duperon.com

DUPERON®

FLEXRAKE® FS

ADAPTIVE TECHNOLOGY™

The FlexRake® Fine Screen (FS) model is a front-cleaning, front-return simple mechanical device designed to remove solids in food and beverage and other industrial applications. It utilizes a T-shaped Wedgewire screen that can filter from 0.020 inches to 0.125 inches and is specifically engineered to manage process wastewater and its byproducts.

PROVEN STANDARD OF
SIMPLICITY

In 1995, Duperon invented the FlexRake and transformed the water and wastewater industry

HOW THE FLEXRAKE WORKS

1

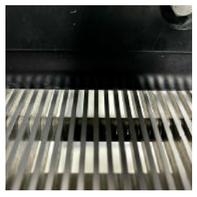
The FlexLink™ articulates to a 90 degree angle, closing on the drive pin. Once closed, the sprocket drives the link system forward.

2

As it leaves the drive sprocket, the FlexLink™ locks into a solid bar, forming its own frame.

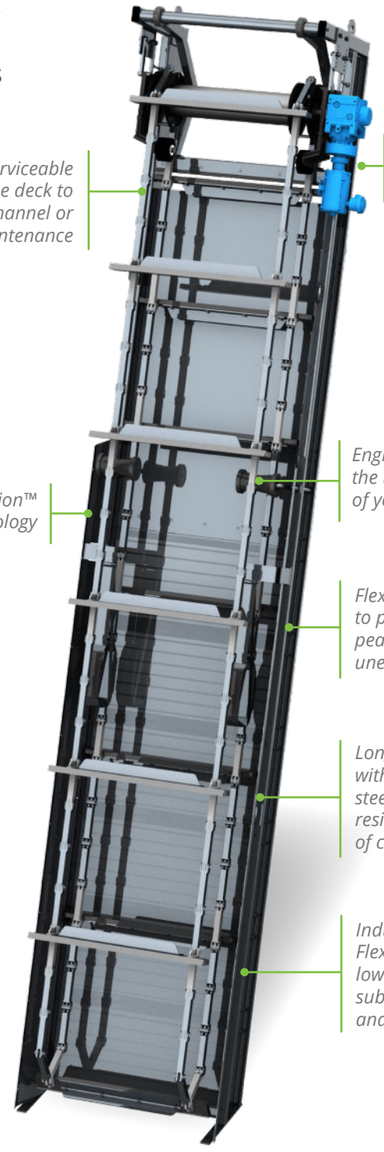
3

The FlexLink™ forms its own rotating framework at the bottom of the channel.



4

Scrapers remove debris from the face of the wedgewire screen.



DUPERON®

FLEXLINK™

The achievement of mechanical simplicity requires the design of one part doing more. The simplicity of the Duperon FlexRake™ is possible through the multi-functioning action of one part: the FlexLink. This innovative design allows the link to function as a frame, lower sprocket, and connection point for scrapers, driven by a single sprocket. The FlexLink assures reliable, adaptable, and trouble-free plant protection through its long product life cycle.

HIGH-QUALITY EFFLUENT FLOWS TO THE BOTTOM LINE

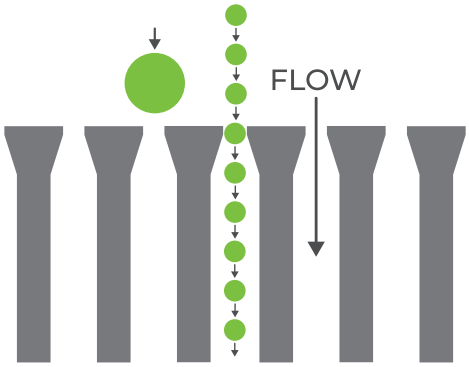
Duperon helps customers achieve a high-quality effluent and reduces operating expenses in food and beverage wastewater processing.

- It begins with simple, reliable screening that handles the unique conditions of your plant, with minimal downtime or maintenance.
- By removing the bulk of the solids loading, it allows the downstream treatment processes to operate as they should; problem-free, reducing costs and ensuring uninterrupted production.
- Screening improves the efficiency of process water treatment to meet regulations, product quality demands and maintain environmental compliance.
- All of which allows you to focus your resources on production rather than treatment.

LOW COST OF OWNERSHIP FOR

INCREASED PROFITABILITY

- Reduces secondary treatment costs
- Reduces surcharges for high strength wastewater
- No process water required
- Low energy consumption
- Uses durable materials for long product life
- Minimal maintenance and downtime
- No spare parts inventory



B6 PROFILE WEDGEWIRE

Duperon utilizes a B6 profile wedgewire screen which combines column strength while maximizing open area for flow.

Due to the B6 Profile wedgewire bars, large items are captured at the face of the bar screen to be removed by a scraper. Smaller debris passes through without getting lodged between bars.

PRODUCT DATA

UNIT WIDTH	*2 ft to 12 ft, single strand unit available 18 in to 25 in*
UNIT LENGTH	*10 ft to 50 ft*
WEDGEWIRE SCREEN OPENINGS	*0.020 in, 0.040 in, 0.060 in, 0.100 in, or 0.125 in*
ANGLE OF INSTALLATION	*15 to 45 degrees from vertical, dependent upon site conditions*
MATERIALS OF CONSTRUCTION	*Available in 304 or 316 SSTL*
SCRAPER CONFIGURATION	*UHMW scrapers consist of beveled edges, squeegees, or brushes depending on application*
TYPICAL MOTOR	*½ hp inverter duty, explosion proof*
CLEANING FREQUENCY	*1 discharge/minute on low , 4 discharges/minute on high*
LIFTING CAPACITY	*1000 lbs*
FLOW CAPACITY	*Designed to your site and velocity requirements*
STANDARD CONTROLS	*Packages range from simple start/stop to sophisticated automation. Motor overload protection provided.*
OPERATION OPTIONS	*Continuously/Manual, Automatic with timer, float, SCADA, differential/high-level sensing options with I/O as needed*
TYPICAL APPLICATIONS	• *Wineries* • *Food and beverage processing plants* • *Other industrial processes*

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