

## DUPERON® FLEXRAKE IQ® RESPONSIVE RESILIENCY™

### SMART RAKING™

Duperon created the FlexRake IQ with all the simplicity and reliability of the original FlexRake and added a new level of resilience for today's (and tomorrow's) challenging plant conditions. The FlexRake IQ focuses on Smart Raking™ enhancements and automated response to manage heavy solids loading events. The FlexRake IQ provides a new option for greater flexibility over a broader range of conditions.

## THE DUPERON DIFFERENCE

### AUTOMATED, REAL-TIME RESPONSE

- *Smart LogIQ™ sequence of operations automatically responds to changing flow and debris conditions*

### OPTIMIZED HYDRAULIC PERFORMANCE

- *Ideal during heavy solid loading or first flush events*

### INCREASED DEBRIS REMOVAL

- *Up to 4x the debris removal capacity*

### ENHANCED DEBRIS MANAGEMENT

- *Improved grit/rock handling*

### PROCESS RESILIENCY

- *With reliable continuous cleaning; Jam Evasion™ technology and rapid re-engagement, the FlexRake IQ can remove large debris without disruption and re-enter into the bar screen quickly to avoid blinding, flooding, and bypassing*

### LONG PRODUCT LIFE

- *Re-imagined FlexLink™ is designed for long life at higher speeds*



DUPERON®

# FLEXRAKE IQ®

RESPONSIVE RESILIENCY™

The original FlexRake technology transformed preliminary liquid/solids separation. The IQ Platform benchmarks the simple and reliable FlexRake design principles and adds next-generation smart features for a new level of adaptability.

## An INTELLIGENT

screening system that  
knows what to do  
& when to do it

The FlexRake IQ combines  
**TWO SMART FUNCTIONS:**

### 1 SMART LogIQ™

*Responds to current debris  
loading and hydraulic conditions  
by adjusting the operating speed  
and discharge rate automatically,  
without operator intervention.*

### 2 SMART RAKING™

*Proven FlexLink™ technology made  
its mark by eliminating lower  
sprockets, becoming its own frame  
and operating without shutdowns  
from large debris. Redesigned  
components enhance screen  
cleaning and solids handling.*



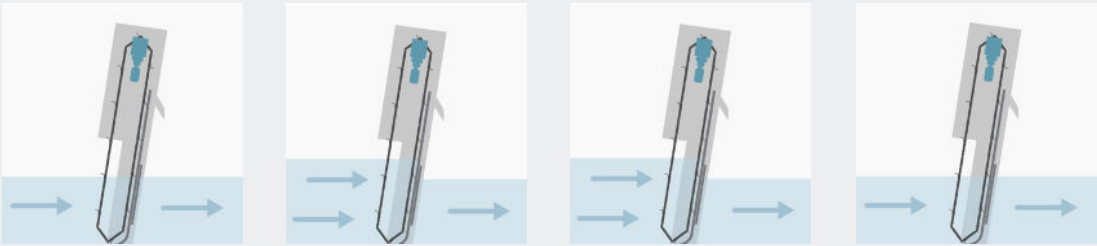
BACKED BY PROVEN PERFORMANCE IN OVER **1800 INSTALLATIONS AND 25+ YEARS** OF APPLICATION EXPERIENCE, THE FLEXRAKE IQ PROVIDES RESPONSIVE RESILIENCE.

## USACE DEFINITION OF RESILIENCE

Resilience is the ability to **ANTICIPATE, PREPARE** for and **ADAPT** to changing conditions and **WITHSTAND, RESPOND** to, and **RECOVER** rapidly from disruptions

(Executive Order 13563)

### 1 SMART LogIQ™ SEQUENCE OF OPERATIONS



SITE CONDITIONS	FLOW	average flow	increasing flow and debris load	decreasing flow/debris load	average flow
	HEADLOSS	in range	increasing	decreasing	in range
SMART RAKING™	SPEED	normal	increased as needed	reducing	low

### 2 SMART RAKING™ ENHANCED SCREEN CLEANING



**A**  
*Re-engineered scraper provides up to 4x debris removal capacity and increased strength*



**B**  
*Patent-pending re-engineered FlexLink™ is designed for additional speed capabilities and long product life*



**C**  
*Rapid re-engagement removes large debris without shutdown to return scraper into the bar screen faster*



**D**  
*Re-configured geometry of design allows for lowest possible engagement and better settled solids handling*

	FLEXRAKE®	FLEXRAKE IQ® RESPONSIVE RESILIENCY™
FLEXRAKE® DESIGN PRINCIPLES	Design simplicity	✓
	Multi-rake unit with no in channel sprocket, bearings or tracks	✓
	FlexLink™ Jam Evasion™ technology	✓
	25+ years of application experience	✓
	Low maintenance	✓
	Ease of operation	✓
	Long product life	✓
SMART LogIQ™	Automatically matches speed and discharge rate in real-time for changing channel conditions	✓
SMART RAKING™	Up to 4x increased debris removal capacity	✓
	Increased speed capability	✓
	Improved grit/rock handling	✓
	Rapid re-engagement returns scrapers to the screen faster	✓

## PRODUCT DATA

UNIT WIDTH	2 ft to 10 ft
UNIT LENGTH	Up to 100 ft
BAR OPENINGS	1/8 in or greater
ANGLE OF INSTALLATION	Vertical option with Flexor™
MATERIALS OF CONSTRUCTION	Standard 304 SSTL, available in 316 SSTL
TYPICAL MOTOR	1 hp
CLEANING FREQUENCY	Entire screening field cleaned every 7 seconds at max speed
CONTROLS & OPERATIONS	Base packages from float level control to sophisticated automation