



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.

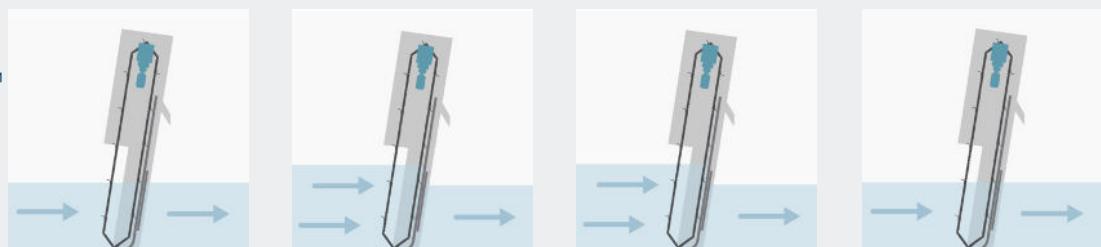
USACE DEFINITION OF RESILIENCE

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



SMART RAKING™ SITE CONDITIONS

FLOW	average flow	increasing flow and debris load	decreasing flow/debris load	average flow
HEADLOSS	in range	increasing	decreasing	in range
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	✓
SMART LogIQ™	Long product life	✓
	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