

PACKAGED HEADWORKS SYSTEMS

PORTABLE. RELIABLE. HIGH-PERFORMANCE SCREENING—ANYWHERE YOU NEED IT.

When traditional concrete headworks aren't practical, or aren't available, Duperon's Packaged Headworks Systems deliver the same effective preliminary screening as full-scale Duperon screens in a compact, stand-alone solution. Built around the trusted FlexRake® technology, these stainless steel tank systems provide reliable solids separation for municipal and industrial wastewater applications without the cost, complexity, or construction requirements of permanent concrete headworks. Ideal for construction projects, small or remote operations, or industrial sites that can't justify building full-scale inlet channels, Packaged Headworks Systems prevent debris from entering downstream processes, helping avoid equipment damage, clogging, and costly downtime.

THE DUPERON DIFFERENCE

FULL-SCALE SCREENING, ZERO CONCRETE REQUIRED

Provides the same preliminary screening function as a permanent headworks structure and handles flows from 400 gpm to 30 MGD

PORTABLE, MODULAR, & BUILT FOR REAL-WORLD CONDITIONS

Designed for outdoor operation with no building required, and can be relocated between installations of similar application types or repositioned on-site as operational needs change

CUSTOMIZABLE

Engineered to fit the unique needs of your site

FAST INSTALLATION & SIMPLE MAINTENANCE

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

IDEAL FOR TEMPORARY, PERMANENT, OR HYBRID USE

Perfect option for smaller plants, rural systems, construction bypass, or expansion



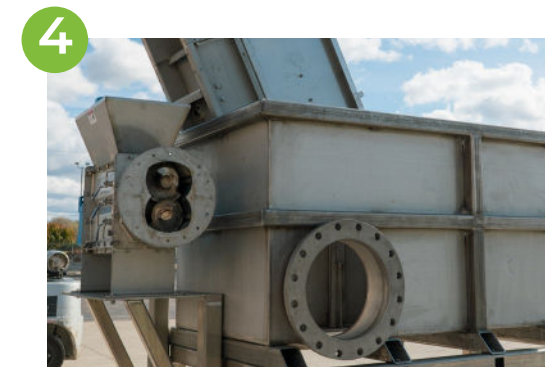
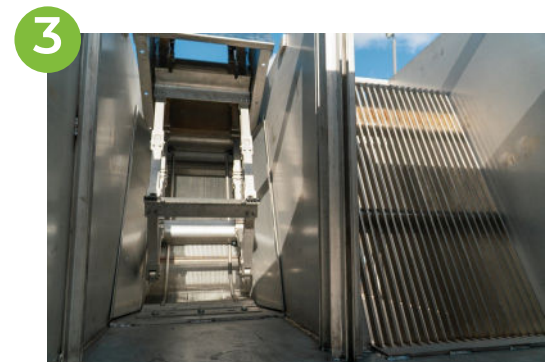
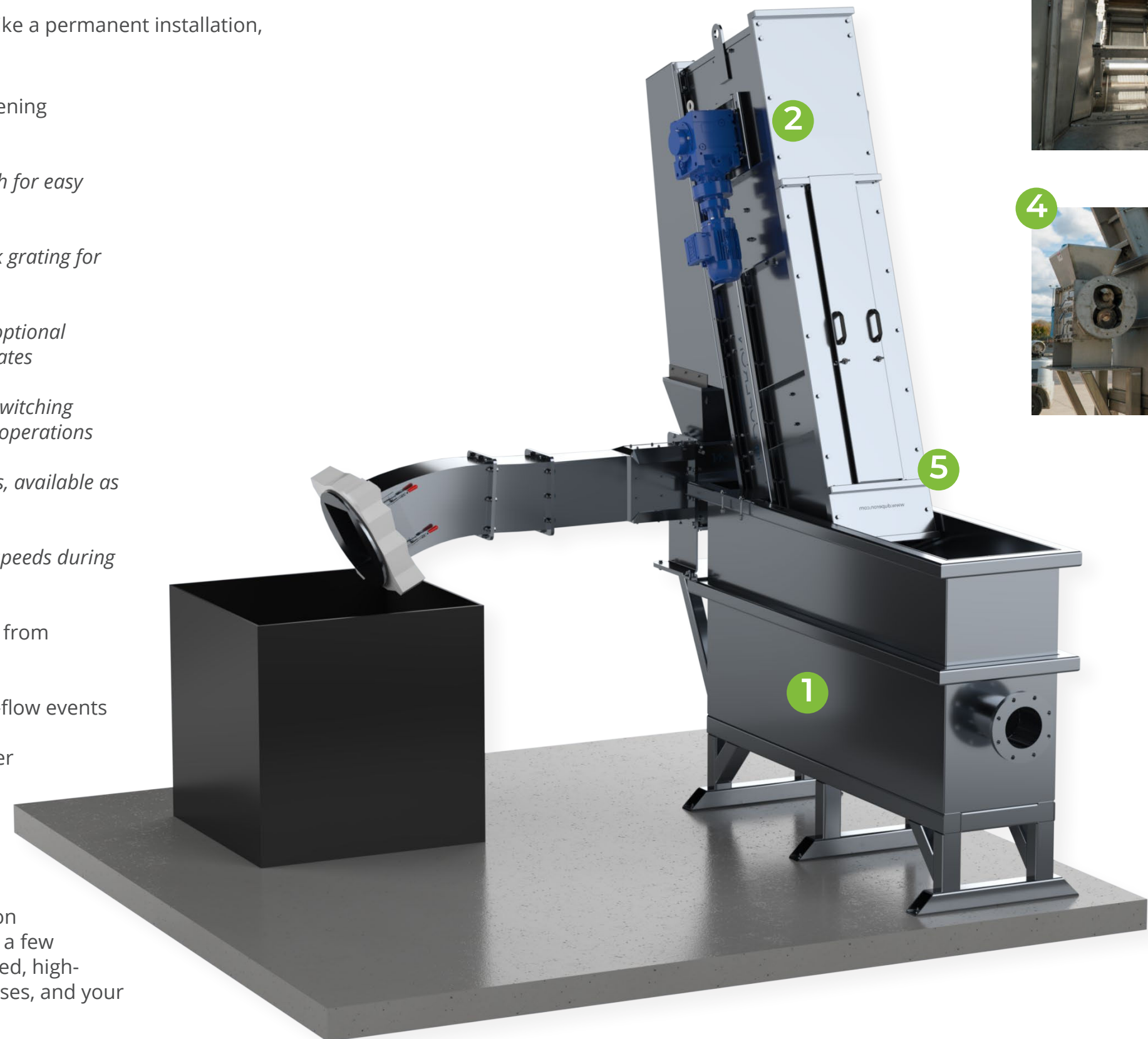
DUPERON®

PACKAGED HEADWORKS SYSTEM

The Duperon Packaged Headworks System performs like a permanent installation, but with greater flexibility. Each system includes:

- 1 A **custom-fabricated tank** that serves as the screening structure, with options for:
 - *Lifting lugs on tank top or fork tubes beneath for easy handling*
 - *Stainless steel cover lids or walk-on FRP deck grating for access and safety*
 - *Single or dual channel configurations, with optional overflow bypass and under/overflow weir plates*
 - *Repositionable stop gates in dual tanks for switching between mechanical and manual screening operations*
 - *Influent and effluent pipe flange connections, available as bolt-on or quick-disconnect*
 - *USWL monitoring devices to adjust scraper speeds during high-flow events*
- 2 A **FlexRake mechanical screen** to separate solids from influent
- 3 An **integrated overflow bypass channel** for high-flow events
- 4 **Optional solids handling features**, such as washer compactors or conveyors
- 5 **Pre-wired controls** ready for quick integration

Duperon Packaged Headworks Systems use the same durable, low-maintenance design and reliable operation found in every FlexRake installation. Whether used for a few months or decades, these systems deliver uninterrupted, high-quality screening that protects your plant, your processes, and your community.





PRODUCT DATA

TANK DATA:

APPLICATIONS	Wastewater, Raw Water, Pulp & Paper Mills, Food & Beverage, and Wineries
MATERIAL OF CONSTRUCTION	Available in both 304 and 316 stainless steel (SSTL) welded construction, fabricated from plate stock, structural tubing, and C-channel beneath the tank for handling and anchoring to the floor
SCREENING TANK SIZE	Width = 2–8 ft; Height = 3–6 ft; Length = 6–12 ft. Add 6 in. to the length for each inlet or outlet pipe connection on the side of the tank where it is located
FLOW CAPACITY	From 100 gallons per minute and up to 30 MGD
FLANGED PIPE CONNECTION	8 in. to 36 in. pipe diameters sized for maximum flow rates
SOLIDS HANDLING	Tanks can be designed to interface with a debris bin, washer compactor, or conveyor, including shaftless screw or belt conveyors

TANK DESIGN & OPTIONS:

SINGLE OR DUAL CHANNEL LAYOUTS	Configured for separate mechanical and manual screening channels
MANUAL BAR SCREEN	Integrated into the manual/bypass channel, with a hand rake and removable horizontal perforated panel for manual screenings collection
OVERFLOW PROTECTION	Channel-integrated overflow bypass weir or external tank bypass piping
STOP/SLIDE GATES	Removable or repositionable SSTL panels to regulate flow between tank channels
TANK COVERS FOR ODOR CONTROL	SSTL lift-off panels with handles or FRP (fiberglass-reinforced plastic) stand-on grating panels
WATER LEVEL MONITORING	Mounting brackets and conduit runs for floats and transducers can be accommodated upstream and downstream

Screening & Solids Handling Options: Packaged Headworks Systems are available with Duperon FlexRake® bar screens, including the FlexRake® Full Penetration Fine Screen, FlexRake® Low Flow, FlexRake IQ®, and FlexRake IQ2®. Systems can be configured with or without downstream solids handling equipment, including a Washer Compactor or shaftless screw conveyor.