

INFILCO CLIMBER SCREEN®



WASTEWATER

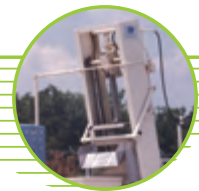
Invest in the leader: Maximize screenings capture, minimize problems. Climber Screen® reduces costs and complications for pump stations and wastewater treatment plants by removing channel debris before it can damage downstream equipment.

APPLICATIONS

- » WWTP headworks: protect downstream equipment
- » Pumping stations: flood control
- » Water intake: remove large debris
- » Ideal for both municipal and industrial use

MAIN FEATURES

- » Above water operation
- » No submerged moving parts
- » Flexible design
- » Heavy duty design
- » Wide range of opening sizes
- » Positive screening discharge
- » Machined parts



CLIMBER SCREEN® TECHNOLOGY

The Climber Screen® was developed to provide a low maintenance solution to previous screening technologies, which used permanently submerged rotating parts such as sprockets and bearings.

Engineered for years of severe duty service, Climber Screen® can tackle large obstructions with ease.

The rake simply disengages from the bar rack to clear the object until it can be removed on a subsequent pass.

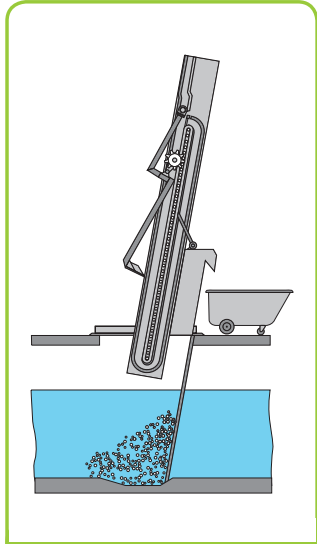
An object too large for the rake to clear will activate an alarm to reverse the unit, facilitating access for manual removal.



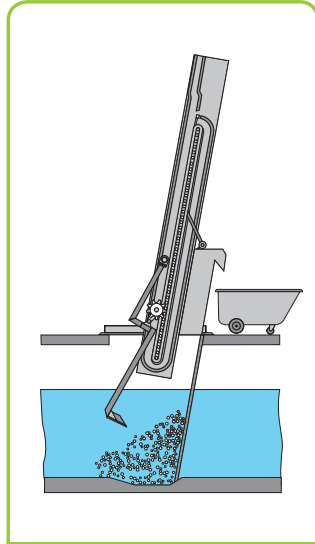
HOW IT WORKS

The smooth running, endless track system employs a gear-driven cleaning rake to carry screenings from the submerged

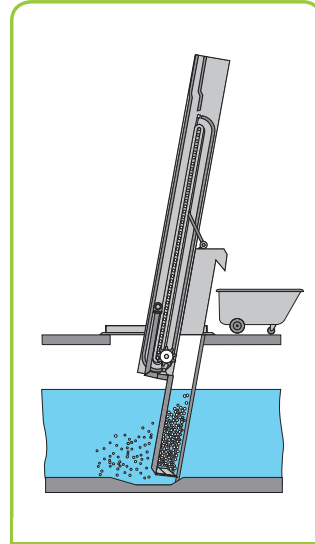
bar rack to a discharge chute for removal – without the use of chains, sprockets, cables or any underwater moving parts.



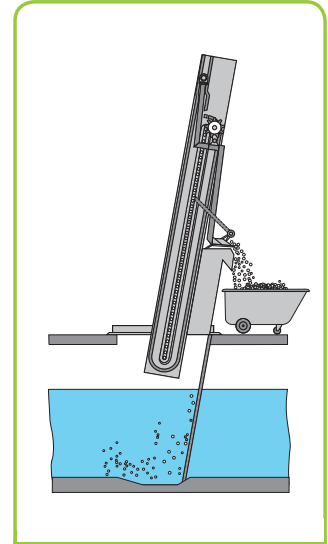
1 Cogwheels move the rake arm down the pin rack upon activation.



2 The rake arm enters the channel upstream from the screen.

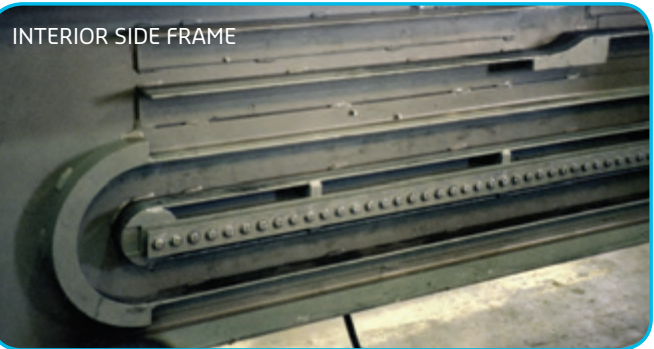


3 At the bottom of the pin rack, the rake engages the screen.



4 Cogwheels walk the rake arm up the pin rack, transporting screenings for removal.

From shallow to deep, narrow to wide, the Climber Screen® mechanical bar screen has a broad range of models to suit every application need.



PRODUCT HIGHLIGHTS

- » Precision engineering
- » Low maintenance
- » Easy installation
- » Decades of proven performance
- » Machined parts
- » Experienced product team
- » Hydraulic drive option
- » Sanitary or CSO models



TYPICAL 60 MGD CLIMBER SCREEN



TYPICAL 120 MGD CLIMBER SCREEN



STORM DRAINAGE PUMP STATION



TYPICAL 30 MGD CLIMBER SCREEN

TECHNICAL FEATURES

- » Flow rates: 1.5 to 300 MGD
- » Machine widths: 18" to 30'-0"
- » Machine depths: up to 90'-0"
- » Bar clear openings: ¼" to 6"
- » Rake speed: 20, 30 and 40 fpm

TECHNICAL DATA

A RELIABLE INVESTMENT WITH YEARS OF RETURN

- Maximizing screenings capture reduces downstream equipment loading, thus lasting longer and with fewer mechanical problems.
- The Climber Screen® consists of a smooth, vibration-free bilateral, endless pin rack system. The roller and bushing system is designed specifically for this linear track application.
- The Climber Screen® unit is engineered to last and to be virtually maintenance-free. Finely-tuned components such as the pin racks, bearing design, and close tolerance cam tracking pay for themselves in longevity and reduced maintenance costs.

MECHANICAL ADVANTAGES

- Positive Screenings Discharge – Hinged wiper assembly with smooth cushion return.
- Precision Engineering – Machine components and removal of loose tolerance components such as chains and sprockets.
- Above Water Operation – All moving parts remain above maximum water level during operation.
- Flexible Design – Custom manufactured units for retrofit or new designs to suit nearly any size application.
- Easy to Install, Control and Maintain – Shipped in as few parts as possible, automatic control, integral brake motor to stop the unit at any level to maintain from the easiest access point.

GENERAL REQUIREMENTS

Minimum Approach Velocity	Maximum Through Velocity	Desired Upstream Channel Length	Minimum Upstream Channel Length
1.5 fps	5.0 fps	4 x Channel Width	2 x Channel Width

STANDARD DUTY

CLIMBER SCREEN® Model	Application Range		Max. Water Level	Available Bar Rack Spacing
	Channel Width	Flow Type		
MODEL I	1' 6"-3' 0"	Sanitary	8' 6" (without special construction or submergence protection)	1/4" to 6"
MODEL II	3' 1"-5' 6"	Sanitary		
MODEL IIA	5' 4"-6' 6"	Sanitary		
MODEL IIIA	6' 7"-12' 0"	Sanitary		

SEVERE DUTY

CLIMBER SCREEN® Model	Application Range		Max. Water Level	Available Bar Rack Spacing
	Channel Width	Flow Type		
MODEL IIS	3' 6"-7' 0"	Combined	recommended max. not to exceed 2 times the channel width	1/4" to 6"
MODEL IIIS	7' 4"-12' 0"	Combined		
MODEL IIIBS	12' 0"-16' 0"	Combined Flood Control		
MODEL IIVS	16' 0"-30' 0"	Combined Flood Control		

INFILCO QUALITY

Major Cities and consultants alike have specified and approved the Climber Screen® for a wide spectrum of projects. The continued acceptance of the Infilco Climber Screen®

as the leader in mechanical screens for severe duty applications is a direct result of more than 1,600 successful installations with more than 25 years of operating history.

PILOTING SERVICES

PRECISION DESIGN AND FABRICATING

With state-of-the-art engineering tools and a trained staff available, Infilco can offer detailed solid modeling for ease of installation into existing structures as well as complete new designs.

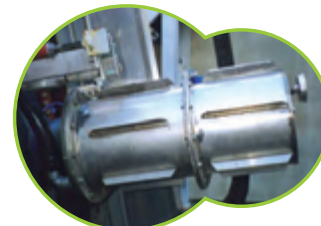


OPTIONS



FIBERGLASS ODOR ENCLOSURE

PATENTED SUBMERSIBLE MOTOR ENCLOSURE



HYDRAULIC DRIVE SYSTEM

COMPLETE TREATMENT SOLUTIONS

Infilco Degremont offers an array of water, wastewater and industrial treatment solutions for any size client. Headworks, clarification, filtration, biological and disinfection systems are several of the product disciplines in our portfolio.

If interested in this product, check out some of the complementary HEADWORKS products:

- Helico® Screenings Press
- Vortex Grit Remover
- Traveling Bridge Grit And Grease Removal System

SERVICES - INFILCARE™

PART SALES

Infilco Degremont sells parts and components for most INFILCO brand equipment as well as parts for demineralizers, thickeners, nozzles, pressure filters, and valves. We offer reliable spare parts at competitive prices. We maintain records of previous installations to quickly identify your requirements. Many items are shipped directly from stock for quick delivery.

REBUILDS, RETROFITS AND UPGRADES

Infilco Degremont offers cost-effective rebuilds and upgrades for INFILCO provided systems, no matter what year they were built. If you are interested in an economical alternative to installing a whole new system, contact us for a proposal.

CONTACTS

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