



Smith & Loveless Inc.
Above All Others.™

CATENARY BAR SCREEN



Application Data

Flow Ranges:	Up to 75 MGD (3286 Ips)
Sizing:	Standard or Custom
Channel Widths:	Min. 1' (305 mm) & larger
Angle:	75° (typical)
Clear Openings:	1/4" (6 mm) & larger
Construction:	SST or CS & Other Alloys

MARK CT™

Advancing Catenary Screening Through Superior Engineering

Catenary screen technology offers proven performance for small to large flow applications with large, bulky material. What separates the **S&L SCHLOSS™ Mark CT™** Catenary Bar Screen originates from our detailed engineering in the critical elements: exclusive chain design, superior component materials of construction, and rakes that combat problem flushables and large material.

By definition, the catenary style features less wearing parts than other kinds of bar screens because there are no lower sprockets. Combined with other **S&L SCHLOSS™** design features, the **Mark CT™** proves to be the industry's most durable.

FEATURES AND BENEFITS

- Precision **S&L SCHLOSS™** engineering & assembly
- Catenary design eliminates need for lower sprockets
- Patent-pending chain limits articulation linearly
- Heavy-Duty design provides superior durability
- Special rake designs for flushable wipes
- Maintenance easily performed at floor level
- Multiple options for enclosures & screenings



Mark CT™ Catenary Screens



Mark CT™ in shop before shipment

Front-Cleaned, Coarse
(Catenary) Bar Screen
Complete options for compacting /
washing and enclosure,
including heating and insulation



For project inquiries, visit
SmithandLoveless.com



Smith & Loveless Inc.
Above All Others.™

Online: SmithandLoveless.com
Phone: 913-888-5201
FAX: 913-888-2173



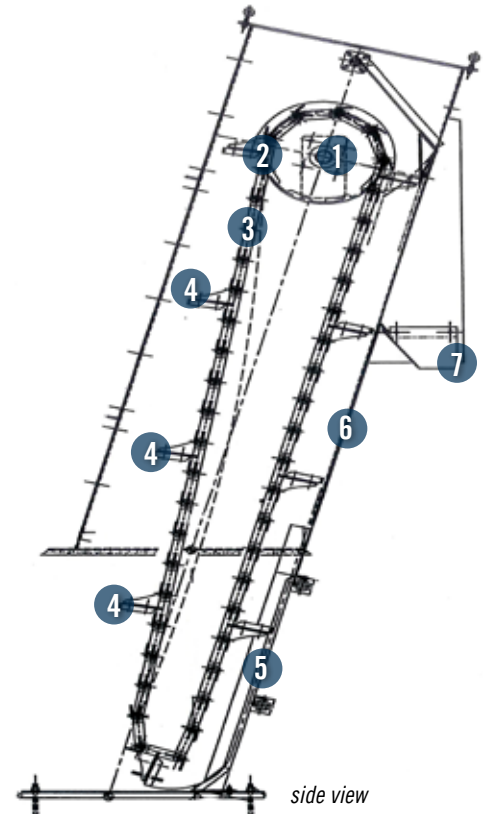
Complete Compacting / Washing / Conveying Options:
S&L SCHLOSS™ Advanced Headworks Technologies offers the water industry one of the most comprehensive arrays of screening technologies, including complete screenings compacting and washing equipment selections: washing presses, shafted screw compactors and hydraulic ram presses. Pictured at right is a hydraulic ram press serving a **Mark CT™**.



Mark CT™ System Diagram

Diagram Details

- 1 Brake Motor**
Face mounted to hollow shaft speed reducer, mounted on the side. VFD typically employed to extend life of chain.
- 2 Sprocket(s)**
Only located at top as catenary design eliminates need for lower sprocket(s) resulting in less wear.
- 3 Chain**
ANSI design, short pitch, high-strength malleable iron chain, heat treated and corrosion protected. Patent-pending link design limits articulation linearly in one direction.
- 4 Rakes**
Connected to one or two chains, multiple rakes follow race track shaped path. Engages bottom of rack, moves & drags screenings up rack and dead plate to discharge opening. Different rake options available, including sharp teeth and sharp straight edge.
- 5 Bar Rack**
Bars are rectangular in cross section. Multiple clear openings available from 1/4" (6 mm) and larger.



- 6 Dead Plate**
Available in various stainless steel and alloys.
- 7 Discharge Chute**
(Optional) Complete range of compactor and conveyor options available. Can be optionally enclosed for weather protection.
- 8 Controls**
(Not shown). Depending on application and location, NEMA 4x, NEMA 7, and NEMA 12 panels are available. IP55, IP65.