



Smith & Loveless Inc.
Above All Others.

PIN RACK SCREEN



Application Data

Flow Ranges:	1 - 100+ MGD (44 - 4380+ lps)
Sizing:	Three Sizes / Custom for Application
Channel Widths:	Min. 2' (610mm) & larger
Angle:	80°, 84°, or 90°
Clear Openings:	3/8" & larger (1/4" avail.) / 9.5 mm (6.4 mm)
Construction:	SST or CS & Other Alloys

MARK-CI™

Provides Effective Coarse Screening for Medium to Large Plants

Multiple rake arm selection, precision pin rack assembly design, and customized system options make the **S&L SCHLOSS™ Mark CI™** Pin Rack Screen the cost-effective choice for efficient coarse screening for mid-size to large treatment plants and industrial applications with bulky material.

Designed to minimize submergence of moving parts, the **Mark CI™** handles flows from 1 MGD (44 lps) to 100+ MGD (4380 lps). Materials can be discharged utilizing multiple conveying, compacting and washing options. An optional, patented telescopic arm ensures performance against large clogging objects. Multiple housing options ensure operator safety and protect against freezing.

FEATURES AND BENEFITS

- Precision S&L Schloss™ engineering & assembly
- Heavy-duty design yields robust performance for large flows
- Standard & custom designs offer choice
- Single & double rake arms
- Rigid, telescopic (patented), & articulated arms
- Submersible motor enclosure option
- Operator-safe, freeze-protection enclosures



Mark CI™ Pin Rack Screens



Mark CI™ with Double Arms

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



For project inquiries, visit
SmithandLoveless.com



Smith & Loveless Inc.
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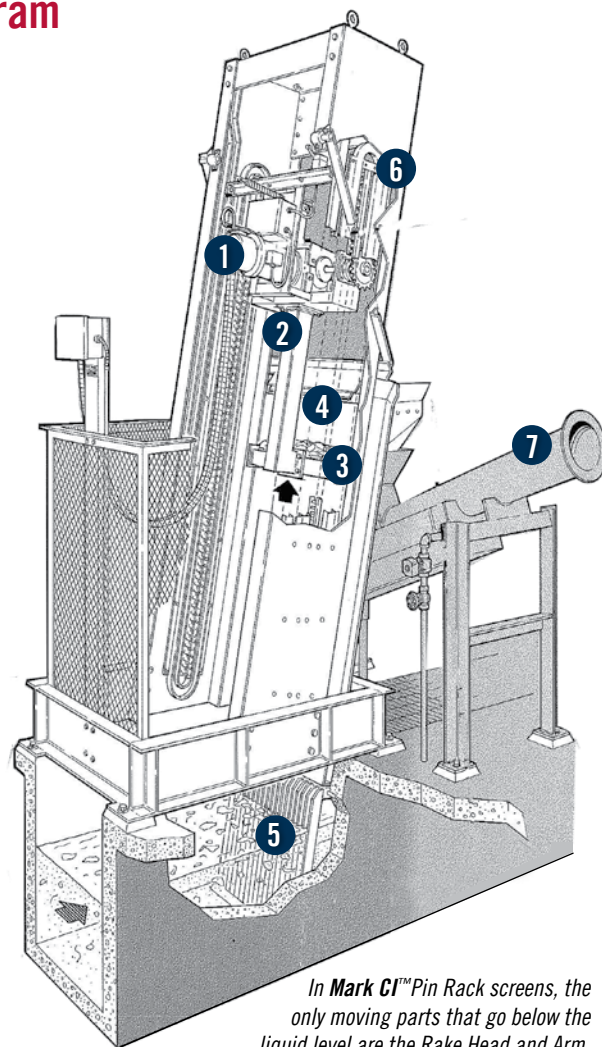
Above: Mark CI™ with full enclosure. At right: Three Mark CI™ Screens serve a large plant in the Middle East.



Mark CI™ System Diagram

Diagram Details

- 1 Brake Motor**
Face mounted to hollow shaft speed reducer. Enclosure optional.
- 2 Rake Arm**
Single and double arms available. May be rigid, telescopic (patented) or articulated (jointed) depending on channel flow, width, and solids.
- 3 Rake Head**
Transports the removed solids for washing, dewatering and disposal.
- 4 Dead Plate**
Available in various stainless steel and alloys.
- 5 Bar Rack**
Bars are rectangular in cross section. Multiple clear openings available from typical 3/8" (9.5mm).
- 6 Pin Rack Assembly**
Specially-designed cog wheels (sprockets) and guide rails flank each side of cold-finished shaft passing through speed reducer. The cog wheels move rake arm along pin rack.
- 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.



In Mark CI™ Pin Rack screens, the only moving parts that go below the liquid level are the Rake Head and Arm.