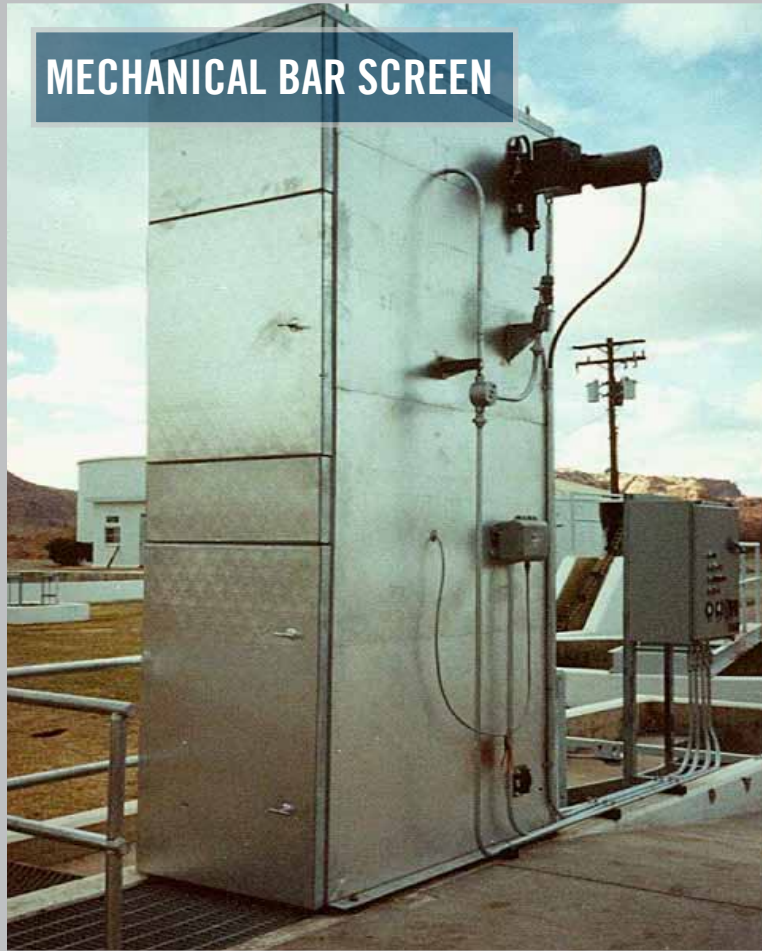




Smith & Loveless, Inc.

MECHANICAL BAR SCREEN



Application Data

Flow Ranges:	1 - 100+ MGD (44 - 4380+ lps) Single-Chain Mark IX-A™ (Up to 15 MGD / 657 lps)
Sizing:	Custom for Application
Channel Widths:	Min. 2' (610 mm) & larger
Angle:	Normally 75°, 80°, 84°, 90° avail.
Clear Openings:	1/4" & larger openings (6.4 mm)
Construction:	SST or CS & other Alloys

MARK IX™ Screens

Dependable, Low Maintenance Screens for Small to Large-Sized Plants

Designed for small and large-sized wastewater treatment facilities, the distinctive **S&L SCHLOSS™ Mark IX™** coarse bar screens deliver remarkably reliable screening performance with minimal maintenance. These front-cleaned, front-returned reacher screens incline to angles of 75° through 90° and can be pivoted to incorporate in plants with no bypass channel.

Numerous **S&L SCHLOSS™ Mark IX™** screens have been installed at municipal and industrial facilities, including military bases throughout the United States.

FEATURES AND BENEFITS

- Robust S&L Schloss™ engineering & assembly
- Uniquely designed for low maintenance / manpower
- Delivers incredibly reliable, dutiful performance
- No submerged chains, sprockets or bearings
- Pivoting option allows for simple inspection / O&M
- Standard & custom design options
- Complete array of enclosure options available
- Heated & Insulated available



Advanced
Headworks Technologies

Mark IX™ Bar Screens



Mark IX-A™ prior to a pump station

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.

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

Flexible enclosure & handling options:
(Near right): An inclined 75° **Mark IX-A™** Screen, hot dip galvanized construction with an integral screenings compactor provides odor and vector control. The compactor discharge flange can be fitted for an extension and/or bagging attachment. (Far right) Dual **Mark IX-A™** with integrated screenings conveyor.



Mark IX™ System Diagram

Depicted below is the popular **Mark IX-A™** model, designed for small and medium plants (up to 15 mgd/ 657 lps) and featuring extremely dutiful service combined with low maintenance requirements because of the unique **SCHLOSS™** single chain design. For larger sizes, use the **Mark IX™** model.

Diagram Details

1 Drive Motor

1/2 Hp (0.373 kW) C-Face motor, side-mounted on the enclosure. Fixed above water level.

2 Sprockets & Roller Chain

Drive chain mechanism for rake arm—never submerged. (Single & dual chains depending on size)

3a Rake Arm

Elastomeric and jointed design, guided by chain attachment and sliding guide blocks.

3b Rake Head

(Not shown) Positively engages into bottom of the lower bar rack and cleans off the bar rack as it moves upward.

4 Dead Plate

Available in various stainless steel and alloys.

5 Bar Rack

Bars are rectangular in cross section. Clear openings from 1/4" and larger. (6.4 mm)

6 Wiper Assembly

Removes collected screenings from rake and discharges out the back. Complete range of compactor and conveyor options are available.

7 Screen Housing

Complete enclosure options are available, including heated and insulated for safety and anti-freezing.

8 Controls

(Not shown). Depending on application and location, NEMA 4x, NEMA 7, NEMA 12, IP55 and IP65 panels are available.

