



Smith & Loveless, Inc.

FINE SCREW SCREEN



Application Data

Flow Ranges:	Up to 12 MGD (525 lps)
Sizing:	Standard or Custom
Channel Widths:	Up to approximately 30" (760 mm)
Angle:	35°
Clear Openings:	1 mm & larger
Construction:	SST or CS & Other Alloys

MARK XV-A™

Gets the Screening Job Done for Small to Medium Size Plants

Designed for smaller in-channel flows, the **S&L SCHLOSS™ Mark XV-A™** cost-effectively achieves superior fine screening. Its robust design combines an inclined, stationary screen basket with a conveying screw featuring an outer spiral brush for cleaning. The screen basket incorporates perforated sheet (recommended) or wedge wire screening, while the higher efficiency shafted screw design provides increased durability and service life when compared to imported, shaftless designs. Screenings are washed and dewatered uniquely in a trouble-free plug-type compaction zone. Built in the USA, the **S&L SCHLOSS™** way of design emphasizes the optimal materials of construction to reduce stress cycling and fatigue while guarding against jamming

FEATURES AND BENEFITS

- Fine screening system designed for flows up to 12 mgd (525 lps), depending on openings
- Perforated screen basket design for high capture
- Preferred incline of 35° to maximize screening area while minimizing head loss through the system
- Screen basket cleaning provided by reliable brush design
- Durable material options, including stainless steel, carbon steel, and other alloy material options



Mark XV-A™ Fine Screw Screen



Mark XV-A™ shown in-channel

Fine Screening for Small to Medium Flows with perforated or wedge wire composition. Complete options for compacting / washing



For project inquiries, visit SmithandLoveless.com



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Pictured at left: The S&L SCHLOSS™ Mark XV-A™ perforated screen basket design is efficiently cleaned by the outer spiral brushes connected to the screw.

Mark XV-A™ System Diagram

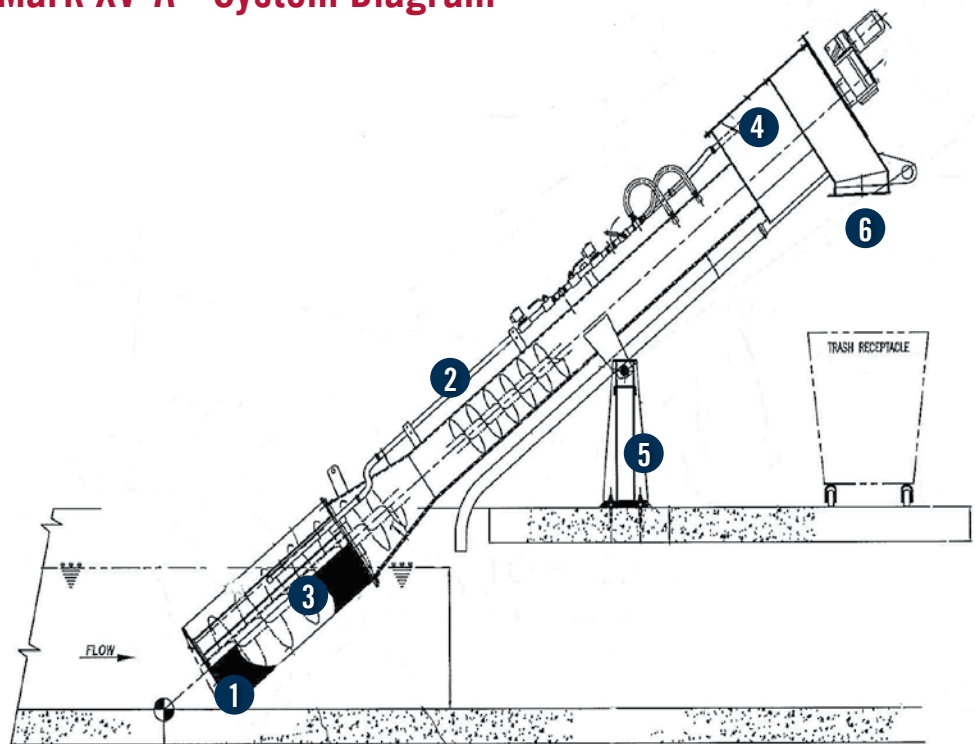


Diagram Details

- 1 Screen Basket**
Perforated basket design with reliable, trouble-free brush cleaning by screw.
- 2 Spray Bar**
Water jetted spray washes solids material during conveyance up the screw.
- 3 Shafted Screw**
Transports the removed fine screenings. Outer spiral brushes clean basket.
- 4 Compaction Zone**
Screenings compacted (plug-type) to reduce water content prior to discharge.
- 5 Pivoting Support Stand**
Provides ability to simply raise screen basket from channel.
- 6 Bagging (optional)**
Solids can be bagged to further reduce odor and simplify disposal.
- 7 Weather Protection (optional, not pictured)**
Weather protection is available for colder climates, including various heating and insulation options.
- 8 Controls (not pictured)**
NEMA 4X, NEMA 12, IP55 or IP65 main control panel provided with PLC or relay logic. Options include HMI & SCADA interfaces and NEMA 7 local control panel if required.