



Smith & Loveless, Inc.

## FINE SCREW SCREEN



### Application Data

Flow Ranges:	Up to 25 MGD / 1100 Ips
Sizing:	Standard or Custom
Channel Widths:	Min. 2' & larger / 610 mm
Angle:	35° preferred
Clear Openings:	1 mm & larger
Construction:	SST or CS & Other Alloys

# MARK XV-C™

## Gets the Job Done for Large Flow Fine Screening

Reduce solids, scum and waste disposal costs with the **S&L SCHLOSS™ Mark XV-C™** Fine Screw Screen system. Designed for larger in-channel flows, the **Mark XV-C™** cost-effectively achieves fine screening through a robust design that combines a cylindrical screen basket with internal rotating rake arm, brush cleaning, and shafted screw conveying. The unique **S&L SCHLOSS™** screen basket design virtually eliminates the potential for bar breakage from problem solids like broken glass and gravel.

Removed solids are washed and dewatered, and they can be compacted and optionally bagged for further disposal cost savings.

### FEATURES AND BENEFITS

- Fine screening designed for larger flows up to 25 mgd (1100 Ips)
- Wedgewire (or perforated) drum design with 1mm and larger clear openings for high capture
- Inclined 35° to maximize screening area while minimizing head loss through the system
- Drum cleaning provided by reliable **S&L SCHLOSS™** brush design
- Durable material options, including stainless steel, carbon steel, and other alloy material options



## Mark XV-C™ Fine Screw Screen



Fine Screen with Large Capacity Basket with perforated or wedge wire composition. Complete options for compacting / washing



For project inquiries, visit [SmithandLoveless.com](http://SmithandLoveless.com)



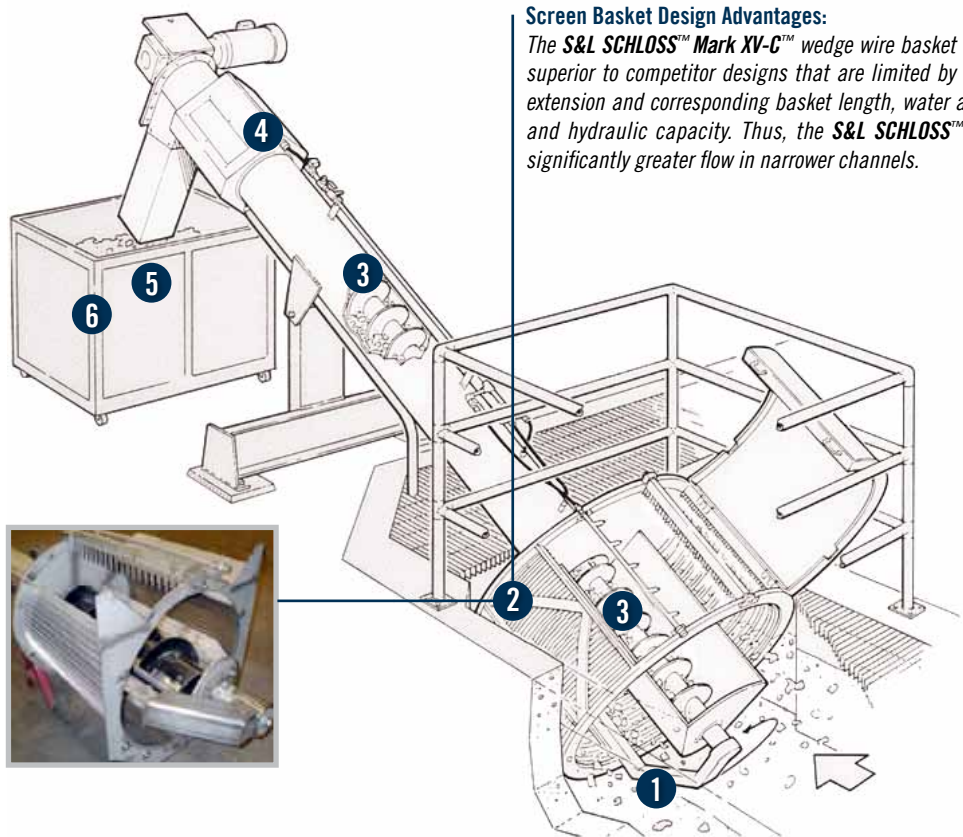
Smith & Loveless, Inc.

Online: [SmithandLoveless.com](http://SmithandLoveless.com)  
 Phone: 913-888-5201  
 FAX: 913-888-2173



Pictured at left:  
 Two large diameter **SCHLOSS™ Mark XV-C™** fine screw screens are being prepared for shipment following fabrication at the S&L Schloss™ U.S. fabrication facility.

## Mark XV-C™ System Diagram



### Screen Basket Design Advantages:

The **S&L SCHLOSS™ Mark XV-C™** wedge wire basket design is superior to competitor designs that are limited by rake arm extension and corresponding basket length, water allowance and hydraulic capacity. Thus, the **S&L SCHLOSS™** handles significantly greater flow in narrower channels.

### Diagram Details

- 1 Rotating Rake Arm**  
 Moves fine solids built up in the screening basket to the screw.
- 2 Screen Basket**  
 Wedge-wire basket design with reliable, trouble-free brush cleaning.
- 3 Shafted Screw**  
 Transports the removed fine solids for washing, dewatering and disposal.
- 4 Washing / Dewatering**  
 Solids material washed and dewatered to reduce odors and water content.
- 5 Compactor (optional)**  
 Solids can be compacted up to 50% to reduce related disposal costs.
- 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.