LIQUID/SOLID SEPARATION

Headworks Screens • Screening Systems
Grit & Solids Management

Enviro-Care
A WAMGROUP® Company
**SAVI® Flo-MultiRake Medium-Duty**

- **GVB- Coarse Bar Screen**
- **GVF- Fine Bar Screen**
- **GVS- Perforated Media Screen**

**Common Features:**
- Channel widths from 16" - 36".
- Coarse Bar Spacing from 12 to 50 mm.
  - Minimum (2) cleaning rakes.
  - Recessed chain drive.
- Fine bar spacing from 6 - 8 - 10 mm.
  - Minimum (6) cleaning rakes.
  - Upper and lower sprocket.
- Perforated openings from 2 - 6 mm.
  - Multiple cleaning brushes and wiper blades.
  - Recessed chain drive.
- 75° - 90° angle of inclination.
- 304 SS construction (316 SS optional).
- Fully enclosed with removable covers.
- Reverse raking feature.

**FSM® MultiRake Heavy-Duty**

- **HUR - Traditional Heavy-Duty Coarse or Fine Bar Screen**
- **HUR - αβ - Multi-angle bar screen for retrofit and/or to achieve higher flows in existing channels.**
  - Multiple cleaning rakes for increased cleaning efficiency.
  - 304 SS construction (316 SS optional).
  - Channel Widths to 20 feet.
  - Discharge Height - Standard design up to 85 feet; higher available upon request.
  - Bar Opening - 3 mm to 100 mm.
  - HUR Installation angle 50 - 90° or 30/85° αβ.

**FSM® Filterscreen**

- **FRSIII - Perforated Media Screen - Traditional or Multi-Angled**
  - Highest Screenings Capture Ratio at 85% as confirmed by UK-WIR testing.
  - Self-adjusting cleaning brush for consistent capture.
  - 304 SS construction (316 SS optional).
  - Lifting fingers on every 10th panel.
  - Inclination: 85°, 75°, 60°, 50°, 45° or 30/75° αβ.
  - Perforations: 2 to 12 mm.
  - Channel Widths to 10 feet.
  - Discharge Height: Up to 36 feet for standard design. Larger sizes on request.
FSM® CenterFlow Screen

FRS-CF - Perforated Media Screen With Inside/Out Flow
- High capture screen designed for membrane protection, river/sea water screening and no solids carry-over.
- Highest Screenings Capture Ratio at 84% with 6 mm opening as confirmed by UK-WIR testing.
- 304 SS construction (316 SS optional).
- Inclination: 90 degrees.
- Perforations: 2 to 12 mm.
- Mesh: 0.5 to 6 mm.
- Channel Width to 16 feet.
- Discharge Height: Up to 50 feet for standard design (larger sizes on request).

FSM® Dual Flow Screen

FRS-DF - Perforated Media Screen With Outside/In Flow
- High capture screen for wastewater pretreatment and river/sea water screening.
- Ultra-fine screening with no solids carry-over to clean side.
- Channel Widths: to 16 feet.
- Discharge height up to 50 feet.
- Perforation 2 - 12 mm.
- Mesh Wire 0.5 to 3 mm.
- Installation angle 90°.
- 304 SS (316 SS optional).

FSM® Grab Bar Screen

GRS - Deep Channel Coarse Bar Screen
- A bar screen designed for heavy-duty, high solids loading applications.
- Channel Widths: to 26 feet.
- Standard Maximum Depths: to 180 feet (larger sizes on request).
- Bar spacing: 10 - 100 mm.
- Installation angle 75 or 90°.
**HEADWORKS SCREENS**

**SPECO® WASTEMASTER® 35°**

**GCP/GCE Screw Screen**
- Screening, shaftless spiral conveying, and dewatering in one unit.
- Channel widths: 12 to 28 inches.
- Perforated media 2, 3, 5, 6, 10 mm.
- Wedgewire .5, 1, 2 mm.
- Installation angle 35° to 45°.
- Volume Reduction to 40%.
- Flows to 7 MGD.
- Segmented brushes for ease of replacement.
- Optional GCE without dewatering zone.

**SPECO® WASTEMASTER® 90°**

**GCV Vertical Screw Screen**
- Designed for limited space applications.
- A flange connects the screen to the supply pipe.
- Special brushes continuously clean the screen surface.
- Optional collar clamp brackets with base frame ensure quick connect/disconnect.
- Flows to 2 MGD.
- Perforated media: 3, 6 and 10 mm.
- Optional hoisting mechanism available.

**SPECO® WASTEMASTER® Mini**

**CT - Mini Screw Screen**
- Flow rate up to 150 gpm.
- Screen opening of 2 and 5 mm.
- SINT® Techno polymeric flights.
- No brushes.
- Light weight - less than 65 lbs.
- Small, inexpensive, low flow screening solution.
SAVI® Flo-Drum

**VSA - Rotating Drum Screen**

**Common Features:**
- Screens, washes, conveys and dewater in one unit.
- Channel widths from 26 to 118 inches.
- Flows from 1 - 55 MGD based on screen media and opening.
- Perforated plate, wedgewire and mesh screen media available.
- Triple-face seal prevents bypass.
- Channel mounted or tank mounted.
- 304 SS construction (316 SS optional).
- Sliding aluminum covers or stainless steel design available.

**Typical Wastewater Screening:**
- Perforated plate media.
- 3 mm and 6 mm openings.

**MBR Pre-Treatment Screening:**
- Perforated plate media.
- 1 mm - 3 mm openings.

SAVI® Flo-RotoDrum

**RTV - Internally-Fed Rotating Drum Screen**

- Available in drum diameters (OD) 20” to 80”.
- Drum lengths to 160”.
- Flow rates to 19 MGD depending on drum size, media and openings.
- MBR application - 1 to 3 mm perforated media openings.
- Wastewater applications - perforated media and wedgewire to 6 mm.
- 5° incline for improved dewatering.
- High capture efficiency and no running seals for solids bypass.
- Strategically placed internal screen drum flights move the solids to discharge.
- External spray bars and brush capture small solids and clean the screen surface.
- Overflow included.
- 304 SS construction (316 SS optional).
- Full covers for safe, dry, odor-free operation.

SAVI® Flo-DrumSieve

**SGR - Externally-Fed Rotating Drum Screen**

- Wedgewire screen media from 0.25 to 2.5 mm.
- Six sizes with flows from 44 gpm to 14 MGD.
- Even distribution across exterior screen surface.
- Brass cleaning blade removes solids as screen rotates.
- Designed to be self-cleaning.
- 304 SS construction (316 SS optional).
- Overflow included.
- For scum, grease, stringy material.
SCREENING SYSTEMS

SAVI® Flo-Beast

VFA-DM - Dual Drive Screen
- Designed specifically for septage receiving, FOG and sludge screening.
- Flows from 525 to 875 gpm.
- Perforated Plate with 6 mm openings.
- Dual drives for better capture and faster unloading.
- Two-stage tank design prevents sedimentation.
- 25° angle of inclination increases capture and removal rate.
- No auger brushes, no screenings recycle, no screen support arms.
- Engineered to handle low flows with high solids loading.
- 304 SS construction (316 SS optional).
- No rock trap or grinding required.

SPECO® COMBI - Septage, FOG, Sludge & Wastewater

TSF - Compact Plant
- Three functions: Screening, grit removal and aeration for grease/scum removal.
- Perf screen openings - 2, 3, 5, 6 and 10 mm.
- Wedgewire openings - 0.5, 1 and 2 mm.
- Sand separation - 95% particle size ≥ 0.2 mm.
- Flow rates from 150 gpm to 4.8 MGD.

SPECO® Mini COMBI

MIT - Mini Compact Plant
- For flows less than 132 gpm.
- Three functions: Screening, grit removal, aeration for grease/scum removal.
- Screw manufactured from SINT® polymeric material.
- Floating grease removal screw.
- Small footprint - Easy installation - Low installed costs.
- High efficiency sedimentation.
SAVI® Flo-WashPress

VWP - Medium-Duty Washer Compactor
- Capacities from 70 - 210 ft³/h.
- Volume reduction 65% - 75%.
- 35% to 45% dry solids.
- Washed, dewatered screenings pass Paint Filter Test.
- Low profile design for easy retrofit.

FSM® Washer Compactor

SPW - Heavy-Duty Screenings Washer
- Three (3) Models:
  - SPW 200 to 70 ft³/h
  - SPW 300 to 177 ft³/h
  - SPW 350 to 353 ft³/h
- Dry solids to 55%.
- Drainage zone 1 to 6 mm perf.
- Screw with brush.
- Volume reduction 60 to 85%.
- Options:
  - Back pressure device
  - Screenings cutter
  - Bagger

SPECO® Fluid Dynamic Grit Classifiers

FGC - Grit/Sand Separator
- Fluid dynamic separation process to achieve small footprint.
- Compact, economical.
- 95% sand removal.
- Flow rate to 575 gpm.
- Sand separation - particle size ≥ 0.2 mm.
- Low installed drive power.
- Durable heavy-duty shaftless screw.

SPECO® Settling Grit Classifiers

DS - Large Volume Grit Separator
- 90% separation of grit size ≥ 0.2 mm.
- Fast, easy wear bar replacement.
- Low installation and maintenance costs.
- Liquid throughput; from 80 to 575 gpm.
- Solids throughput: 8 to 46 ft³/h.

Phone: 815.636.8306 • Fax: 847.672.7968
E-Mail: ecsales@Enviro-Care.com • www.Enviro-Care.com
FSM® Grit Washers

SWA - Grit Separating & Washing System
- Influent feed by pump, cyclone discharge or conveyor.
- Hydraulic throughput up to 634 gpm.
- Fluid dynamic separation process.
- Upflow sand/grit washing process.
- Washed grit contains < 3% organics.
- Washed grit averages 80 - 90% dry weight.

SEPCOM™ Vertical Separator

Vertical Screw Press Separators For Wastewater Applications
- High performance, self-cleaning, wear-resistant screens.
- Diaphragm outlet with self-adjusting counter-pressure.
- Vertical screws manufactured from SINT® polymer.
- Vertical access to screen for ease of maintenance.
- Maintenance-friendly drive unit position.
- Small footprint.

FSM® Launder Systems

SW - Fluming Conveyor
- Efficient movement of solids using sluice water.
- Designed for conveying over long distances.
- Multiple widths and lengths.
- No moving parts.
- Completely enclosed.

WAM® Conveyors

SSC - Conveyors for Screenings & Sludge
- Worldwide leader in industrial conveying with over a million conveyors sold since 1969.
- Plus over 100,000 shaftless and shafted screw conveyors in wastewater applications.
- Horizontal, Vertical, Inclined, Push, Pull, Multiple Inlets.
- With or without compaction.
- Multiple screw live bottoms.
- Municipal and Industrial applications.