

# Fine Drum Screens SPIRAMATIC™ VSA / VSA-MBR

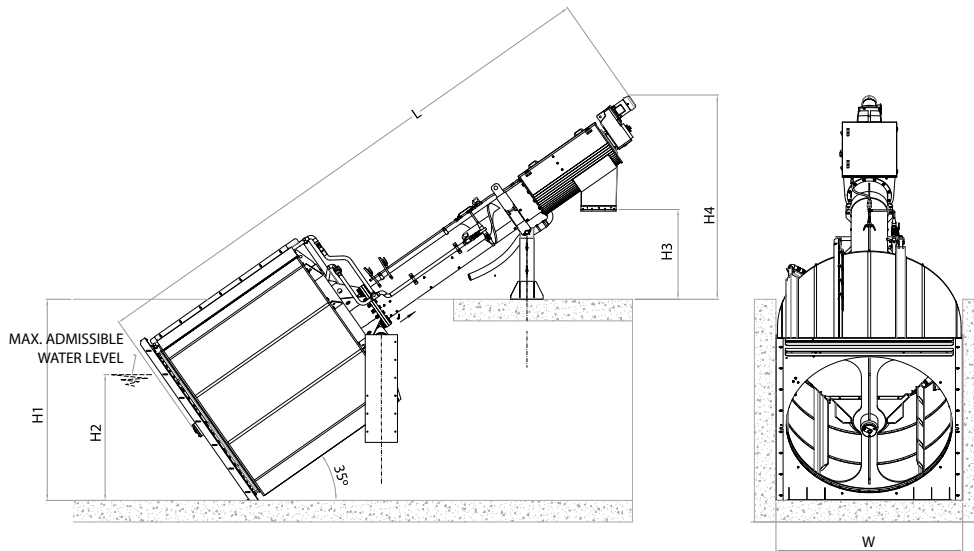


## SCREENS, WASHES, CONVEYS AND DEWATERS SCREENINGS ALL IN ONE

SPIRAMATIC™ VSA Fine Drum Screens are used in both municipal and industrial applications, as well as for the pretreatment in MBR plants. The machine screens, washes, conveys, and dewateres screenings all in one unit, thus eliminating the need for multiple pieces of equipment.

SPIRAMATIC™ VSA Fine Drum Screens consist of a rotating drum screen, a conveyor screw, and a compaction zone. Depending on the application, the fine screen drum can be made up of a set of steel bars – in which case the distance between the bars determines the desired slot width – or of a perforated sheet filter. The cylindrically shaped drum can be placed inside a channel or a fabricated tank.

### Overall Dimensions



MODEL	CHANNEL WIDTH W (mm)	CHANNEL HEIGHT H1 (mm)	DISCHARGE HEIGHT ABOVE CHANNEL EDGE H3 (mm)	TOTAL HEIGHT ABOVE CHANNEL EDGE H4 (mm)	TOTAL LENGTH L (mm)	MAX. ADMISSI- BLE INLET WATER LEVEL H2 (mm)	DRIVE POWER (kW)
VSA 600	650	800	1,250	2,180	4,850	450	0.75
VSA 800	800	1,000	1,250	2,170	5,180	520	1.10
VSA 1000	1,000	1,200	1,250	2,170	5,400	675	1.10
VSA 1200	1,200	1,400	1,250	2,275	5,830	800	1.10
VSA 1400	1,400	1,600	1,250	2,275	6,030	930	1.50
VSA 1600	1,600	1,800	1,250	2,275	6,200	1,110	1.50
VSA 1800	1,800	2,000	1,250	2,520	6,970	1,235	2.20
VSA 2000	2,000	2,200	1,250	2,520	7,170	1,300	2.20
VSA 2200	2,200	2,400	1,250	2,530	7,350	1,500	2.20
VSA 2400	2,400	2,600	1,250	2,535	7,410	1,680	2.20
VSA 2600	2,600	2,800	1,250	2,845	7,630	1,750	3.00
VSA 3000	3,000	3,200	1,250	3,155	7,850	2,050	3.00

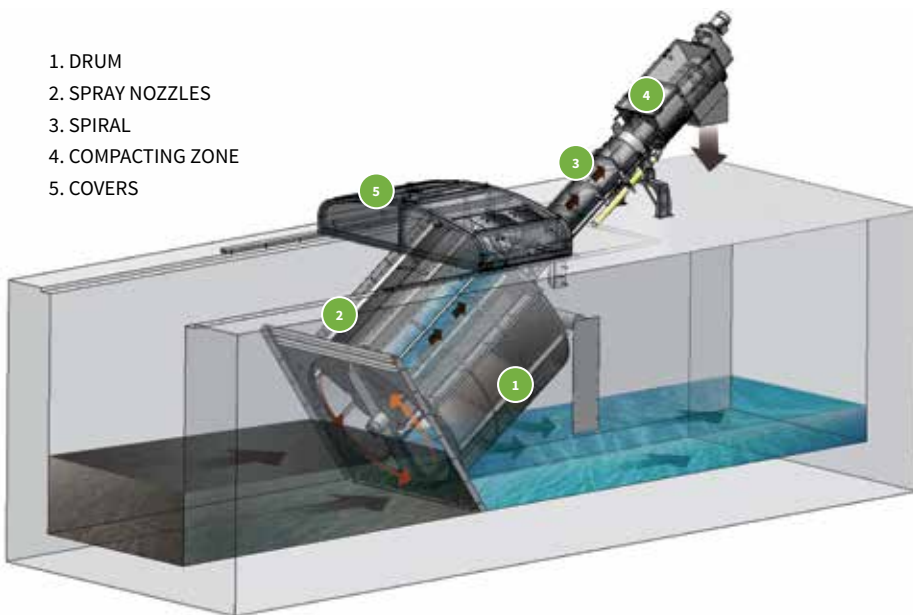
## Benefits

- ✓ Triple face seal for maximum capture efficiency of fine solids
- ✓ Spray bar installed on the outside of the screen basket, thus enabling optimum capture of small solids
- ✓ Large, robust, self-lubricating bronze bushing (no lubrication pump or maintenance required)
- ✓ Cleaning brush fitted on the screen maintains screen surface clean
- ✓ Durable brush attached to the flighting on the auger trough sweeping even smallest solids into the auger trough for removal (MBR version only)
- ✓ Low energy consumption and limited maintenance

## Technical Features

- Filter mesh sizes for MBR pre-treatment:
  - 1.0 – 1.5 – 2.0 – 3.0 mm round holes
- Filter mesh sizes (other than MBR use):
  - 5.0 – 6.0 mm round holes
  - 0.5 – 1.0 – 2.0 – 3.0 – 4.0 – 5.0 – 6.0 mm wedge wire
- Channel width: 600 ~ 3,000mm
- 35-degree incline angle
- Frame manufactured from 304 L / 316 L SS
- Spiral manufactured from special ST 52 steel, or 304 L / 316 L SS
- In-tank version available up to 1,600 mm

1. DRUM
2. SPRAY NOZZLES
3. SPIRAL
4. COMPACTING ZONE
5. COVERS



### Tested Average Screenings Capture Ratio

Round Holes Size (mm)	Average Screenings Capture Ratio*
1	92%
2	86%
6	66%

\*Thompson RPM Test Report Reference TRPM-REP295

## Accessories

- Removable sliding aluminium covers
- Fixed stainless steel covers
- Bagger
- Heating device

# Application



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