



# Multi-Purpose Wastewater Screening

## Spiral Sieves

### A Concept that Succeeds,

Fine screening of wastewater has become a standard unit operation in both small and medium sewage treatment plants since Spiral Sieves. This compact and sturdy screen is a world-wide best seller, not only because it complies with European standards and guidelines for rakes and screens, but also because of its ability to be adapted to a wide variety of applications within a treatment plant.

### Process Description and Technology

The Mis Spiral Sieve is multi-functional with its six unit operations are executed at the same time:

1. Fine Screening
2. Washing
3. Conveying
4. Compacting
5. Dewatering
6. Hygienically Packaging



- 1- Full jacket sieving zone with optional perforations of 3, 5 or 6 mm as well as 1x10 mm slotted holds. Rubber sealing between sieving zone and channel walls to ensure that by-passing is eliminated. No bolted joints at the bottom and walls.
- 2- Innovative spiral brush for self-cleaning of sieving zone. No under-water bearings.
- 3- Full encapsulation of plant from sieving zone up to discharge chute
- 4- Thick walled shaftless spiral, constant large free opening area within the conveying zone, no pitch reduction within the compaction and dewatering zone to ensure that blockage does not occur.
- 5- Integrated compaction and dewatering zone with optional trace heating to ensure against freezing for outdoor installations.
- 6- Totally hygienic encapsulation of the discharge chute. Optional bagging unit for pressed screenings avoids odour emission.
- 7- Water Discharge
- 8- Fully-automatic operation of spiral

### CAPACITY, MEASUREMENT AND POWER VALUES

Type Dimension	φDs Angle Unit	M01-04 220-35°	M01-04 324-45°	M01-04 406-45°	M01-04 508-45°	M01-04 762-42°
φD <sub>c</sub>	mm	219	324	324	324	324
H <sub>c</sub>	mm	Channel height				
H <sub>s</sub>	mm	Discharge height				
H <sub>t</sub>	mm	640	820	840	870	1000
W <sub>cmin.</sub>	mm	300	400	500	600	900
L	mm	H/sinα				
Motor	kW	0,55	0,75	0,75	1,1	2,2
Protection		IP 55-IP 65				
Speed	rpm	12	8,5	6,9	7,8	5,9

