

REMSCREEN RS3

Internally fed drum Screens for separating solids/liquids

MACHINE DESCRIPTION

R.E.M. range of internally fed drum screens features a broad selection where units for every application can be found. **RS3** is a simple and effective unit where the core is represented by a rotating cylinder made of wedge wire or perforated plate with an internal screw rotating with the drum which conveys the screenings toward the outlet.



The range includes several diameters and lengths to accommodate a large variety of applications and needs. The filtering aperture is selected based upon the waste to be treated and the level of screening required. Aperture ranges are between **500 microns (wedge wire)** and **6 mm perforated**. A set of high impact spraying nozzles are fitted for cleaning purposes. On request it is possible to install a stationary brush on the outer side of the drum. **RS3** are successfully installed in many applications like:

- **ABATTOIRS.**
- **TANNING.**
- **MBRF OR MEMBRANE PROTECTION.**
- **MUNICIPAL WORKS.**
- **INDUSTRIAL APPLICATIONS.**

WORKING LOGIC FOR ROTARY FINE SCREENS RS3

The **RS3** is a unit suitable for screenings of difficult waste streams. It is based on the movement of a rotating cylinder fitted with an internal screw for conveying of screenings. The wastewater enters the unit through the inlet flange and is distributed through the weir. The rotation of the drum assures the continuous cleaning and the screw allows the screenings to move toward the outlet while sliding along the cylinder inner surface. The filtered water is collected by the underneath hopper and drained through the outlet port. The external spraying system assures the cleaning and efficiency of the unit.



MAIN FEATURES FOR ROTARY FINE SCREENS RS3

1. Perforated or wedge screen of various sizes.
2. The machine is self-cleaning.
3. The wide range available makes it possible to choose the right version to suit the application requirements.
4. The stainless steel structure allows the use of the machine for handling acids, basic products and foodstuffs.
5. Entire operation of the machine is handled by the drive units.
6. Installation is easy and rapid.
7. Maintenance operations, if necessary, are very simple.

APPLICATION ADVANTAGES FOR FILTERING DRUM SCREENS RS3

The following details, for purposes of information and reference, provide some information of a standard nature concerning the advantages of applying this model of screen.

1. **Screen open area:** The open area can be up to 65% (according to the aperture).



2. Solids separation capacity: It is able to reach a percentage of solids/liquids separation greater than 70%.
3. Head loss: Minimum headloss thanks to the rotating drum.
4. Construction material: The RS3 screens are made entirely of corrosion-resistant stainless steel.

STANDARD DIMENSION DATA FOR ROTARY FINE SCREENS RS3

Here we provide some information of a technical nature for this type of screens.

RS3 MODELS	DRUM DIAM-ETER - Ø mm	DRUM LENGTH - mm	INLET DN - mm	OUTLET DN - mm	CAPACITY l/s - WEDGE WIRE 0.5	CAPACITY l/s - MESH 1 mm	CAPACITY l/s - DRILLING 2 mm
RS3-600/6	600	600	100	200	15	12	19
RS3-600/10	600	1000	100	200	22	20	28
RS3-600/15	600	1500	100	200	28	25	37
RS3-900/10	900	1000	150	250	36	32	47
RS3-900/15	900	1500	150	250	58	55	80
RS3-900/20	900	2000	150	250	75	70	98
RS3-900/25	900	2500	150	250	105	98	150
RS3-1200/15	1200	1500	200	300	95	90	135
RS3-1200/20	1200	2000	200	300	110	102	160
RS3-1200/25	1200	2500	200	300	150	135	210
RS3-1500/15	1500	1500	250	350	140	130	175
RS3-1500/20	1500	2000	250	350	205	180	280
RS3-1500/25	1500	2500	250	350	300	260	390
RS3-1500/30	1500	3000	250	350	335	280	435
RS3-2000/30	2000	3000	300	400	520	420	650

Materials of Construction:

Fabricated parts: *Stainless Steel AISI304 / *Stainless Steel AISI316
 Rotary screen: *Stainless Steel AISI304 / *Stainless Steel AISI316

n.b.: the manufacturer may modify some dimensions or sizes without prior information

