

IN-CHANNEL SCREW SCREENS RSP

Screw Screens for Mechanical solids/liquids separation



MACHINE DESCRIPTION

R.E.M. range of screw screens for solids/liquid separation is a broad and vast selection where units for every application can be found. **RSP** Screw screens are multipurpose units capable to screen, convey, compact and dewater the screenings.

WORKING LOGIC FOR SCREW SCREENS RSP

REM RSP screw screens are generally installed in municipal applications as they allow to have a single unit performing the whole process. **RSP** screens include the compaction section. Screwscreens are made of the following sections:

- Screen
- Transport section
- Discharge with compactor
- Drive
- Support

Screw screens are successfully installed for the following applications:

- Municipal sewage
- Industrial effluent treatment
- Industrial process applications (i.e. vegetable screenings, entrails screenings, etc.).

MAIN FEATURES FOR SCREW SCREENS RSP

1. Screen frame available with perforated or wedge-wire screen aperture in various sizes.
2. The machine is self-cleaning, thanks to the brushes fitted on the screw conveyor.
3. The shaftless screw conveyor allows lifting of materials of different shapes and sizes, which are, however, difficult to transport.
4. The wide range available makes it possible to choose the right version to suit the application requirements.
5. The stainless steel structure along with brushes made of plastic material enable the use of the machine for handling acids, basic products and foodstuffs.
6. Entire operation of the machine is handled by the drive units.
7. Installation is easy and fast.
8. Maintenance is very simple and time saving.



GENERAL DIMENSIONAL DATA FOR SCREW SCREENS RSP

Here we provide some information about technical nature for this type of screens:

- Filtration with screens sizes ranges from 250 microns (wedge-wire) to 12 mm (perforated).
- Models suitable for channels from 300 to 900 mm wide.
- Screenings removal and conveying to the discharge point with a single drive.
- Screenings volume reduction up to 50%.
- Effective drainage of the screenings along the conveying section combined with a compaction section for more volume reduction and water removal.
- Screenings washing performed by the REMSPRAY integrated system using 3 independent washing cycles.

The main advantages are:

- reduced installation costs.
- high solids capture removal (52% tested).
- high screenings volume reduction.
- nuisance and leachate reduction.
- reduced handling and disposal costs.

R.E.M. RSP screw screens can be equipped with the following accessories:

- vertical discharge.
- bagging (single or endless bag type).
- heating and weather protection.
- centralized solenoid valves and piping.
- control cabinet.
- ATEX or UL NEMA 7 EX-proof version.



STANDARD DIMENSIONAL DATA FOR SCREW SCREENS RSP

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

FLOWRATES m³/h

RSP MODELS	PERFORATED PLATE SCREEN - mm				RSP MODELS	WEDGE WIRE SCREEN - mm			
	3	4	5	6		0.25	0.5	1	2
RSP200	75.6	97.2	115.2	129.6	RSP200	28.8	57.6	86.4	108
RSP300	115.2	151.2	169.2	198	RSP300	54	90	126	151.2
RSP400	198	234	270	306	RSP400	79.2	144	216	252
RSP500	324	378	414	468	RSP500	144	234	342	396
RSP600	432	504	576	684	RSP600	180	306	468	540
RSP700	756	900	972	1116	RSP700	324	540	756	900

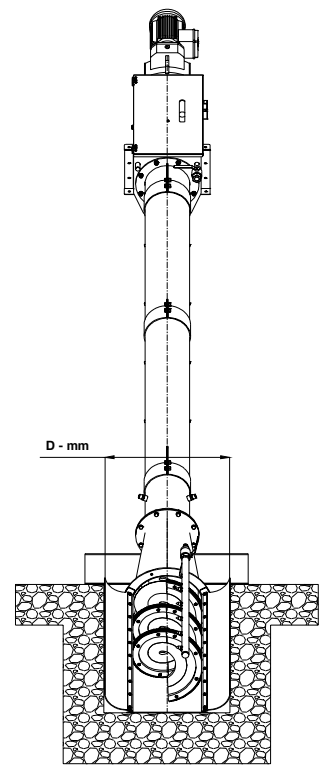
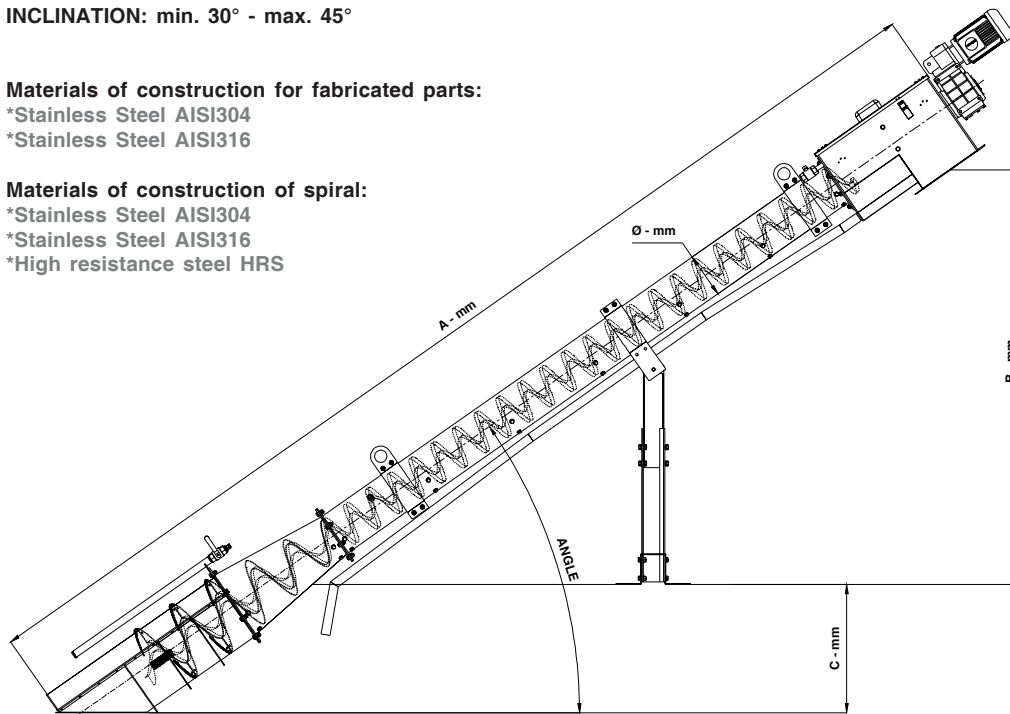
INCLINATION: min. 30° - max. 45°

Materials of construction for fabricated parts:

- *Stainless Steel AISI304
- *Stainless Steel AISI316

Materials of construction of spiral:

- *Stainless Steel AISI304
- *Stainless Steel AISI316
- *High resistance steel HRS



RSP MODELS	Ø - mm	A - mm	B - mm	C - mm	MIN. D - mm	MAX. D - mm
RSP200	219	4669	1680	653	270	400
RSP300	219	4841	1815	613	370	500
RSP400	219	5263	2030	629	480	600
RSP500	219	5675	1970	901	580	700
RSP600	323	5963	2090	870	690	800
RSP700	323	6734	2088	1308	690	800

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