

IN-CHANNEL SCREW SCREENS RSU

Screw Screens for Mechanical solids/liquids separation with high solids content



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. **RSU** Screw screens are multipurpose units capable to screen and convey the screenings.

WORKING LOGIC FOR SCREW SCREENS RSU

REM RSU screw screens are generally installed in industrial applications as they allow to have a single unit performing the whole process. **RSU screens feature a high solids conveying rate.** Screwscreens are made of the following sections:

- Screen
- Transport section (trough)
- Drive
- Support

Screw screens are successfully installed for the following applications:

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

MAIN FEATURES FOR SCREW SCREENS RSU

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 RSU

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 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).
- nuisance and leachate reduction.
- reduced handling and disposal costs.

R.E.M. RSU 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 RSU

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

FLOWRATES m³/h

RSU MODELS	PERFORATED PLATE SCREEN - mm				RSU MODELS	WEDGE WIRE SCREEN - mm			
	3	4	5	6		0.25	0.5	1	2
RSU400	198	234	270	306	RSU400	79.2	144	216	252
RSU500	324	378	414	468	RSU500	144	234	342	396
RSU600	432	504	576	684	RSU600	180	306	468	540
RSU700	756	900	972	1116	RSU700	324	540	756	900

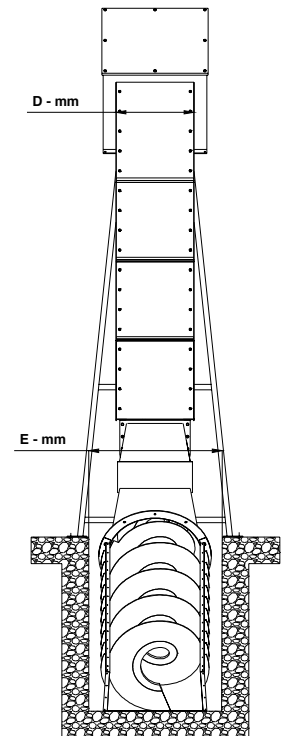
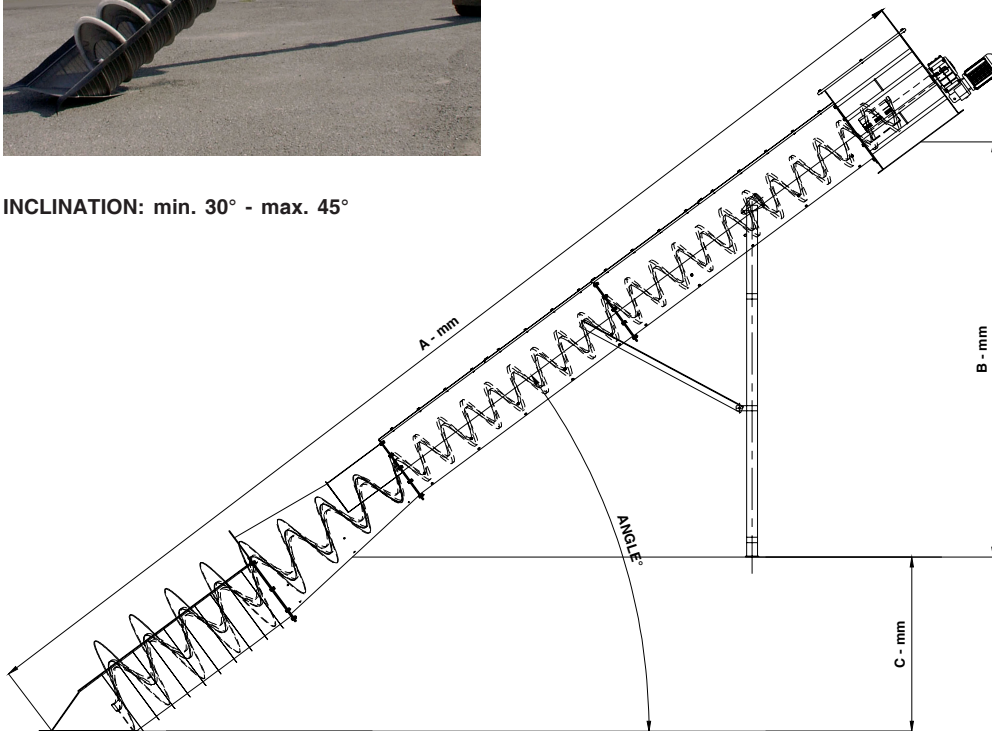


Materials of construction for fabricated parts:
 *Stainless Steel AISI304 / *Stainless Steel AISI316

Materials of construction of spiral:
 *Stainless Steel AISI304 / *Stainless Steel AISI316 / *High resistance steel HRS

RSU MODELS	A - mm	B - mm	C - mm	D - mm	MIN. E - mm	MAX. E - mm
RSU400	4698	1422	629	200	480	600
RSU500	5121	1508	901	200	580	700
RSU600	6140	1889	870	330	690	800
RSU700	6980	2164	1308	330	690	800

INCLINATION: min. 30° - max. 45°



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