

INTEGRATED GRIT - SCREEN AUTOSEP DF SP

PRODUCT DESCRIPTION

The integrated grit - screen AUTOSEP DF SP, designed for mechanical cleaning of municipal and industrial wastewaters, combines the functions of a mechanical brush screen and that of the grit separator and grit classifier in a single unit of compact footprint.

The AUTOSEP DF SP allows simultaneous separation, washing and compacting of the screenings, as well as separation and dewatering of grit from wastewater.

OPERATION PRINCIPLE

Wastewater let in via inlet connection is directed onto an oval perforated rotary drum screen for separation and optional washing of solid matter. A screw conveyor with rakes scrubs the screenings from the sieve to convey them upwards for dewatering, compacting and, via discharge chute, removal into a screenings container.

Screened wastewater flows downstream to a horizontal grit separator/classifier for sedimentation of grit and other mineral fractions. Losing its velocity, the grit falls by gravity to the bottom and it is moved by a horizontal auger to the separation part where another inclined auger conveyor takes the grit up for dewatering and, via a discharge chute, for removal into grit container.

An aeration system (option) boosts flotation of fats and other suspended organic matter to the subsequent biological treatment. The ergonomic construction of the device and materials used have proven themselves in service even in severe atmospheric conditions and assure longtime maintenance free operation.

SCOPE OF DELIVERY

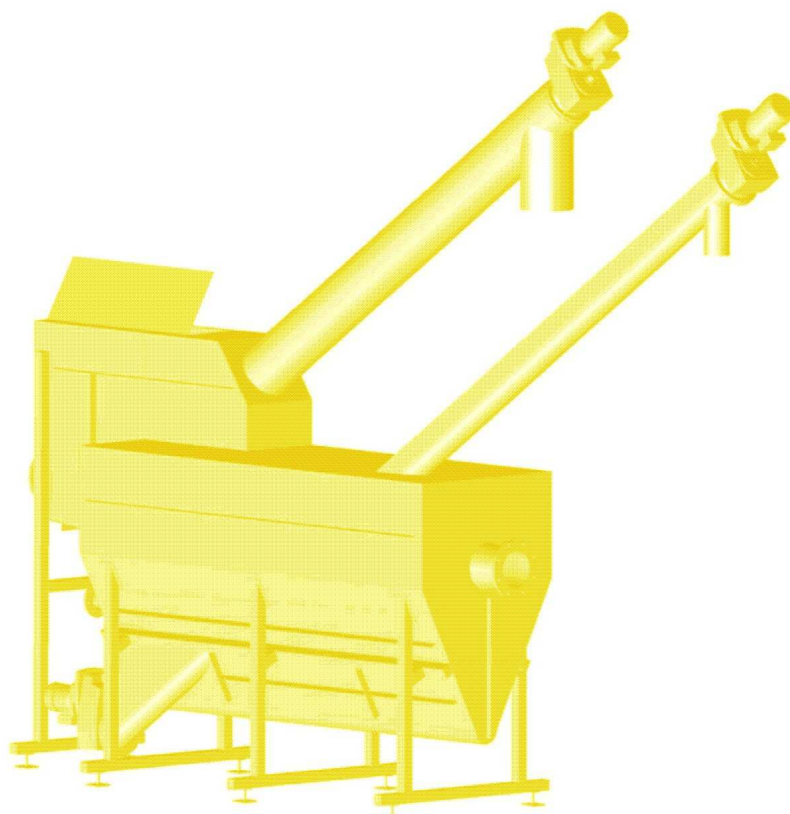
- Screw screen
- Horizontal grit separator
- Discharge chutes with discharge sleeves (2)
- Screw grit classifier
- Control cabinet

OPTIONS

- Aeration system
- Flotation sludge removal system
- Screenings washing system
- Thermal insulation with heating system
- Screenings press

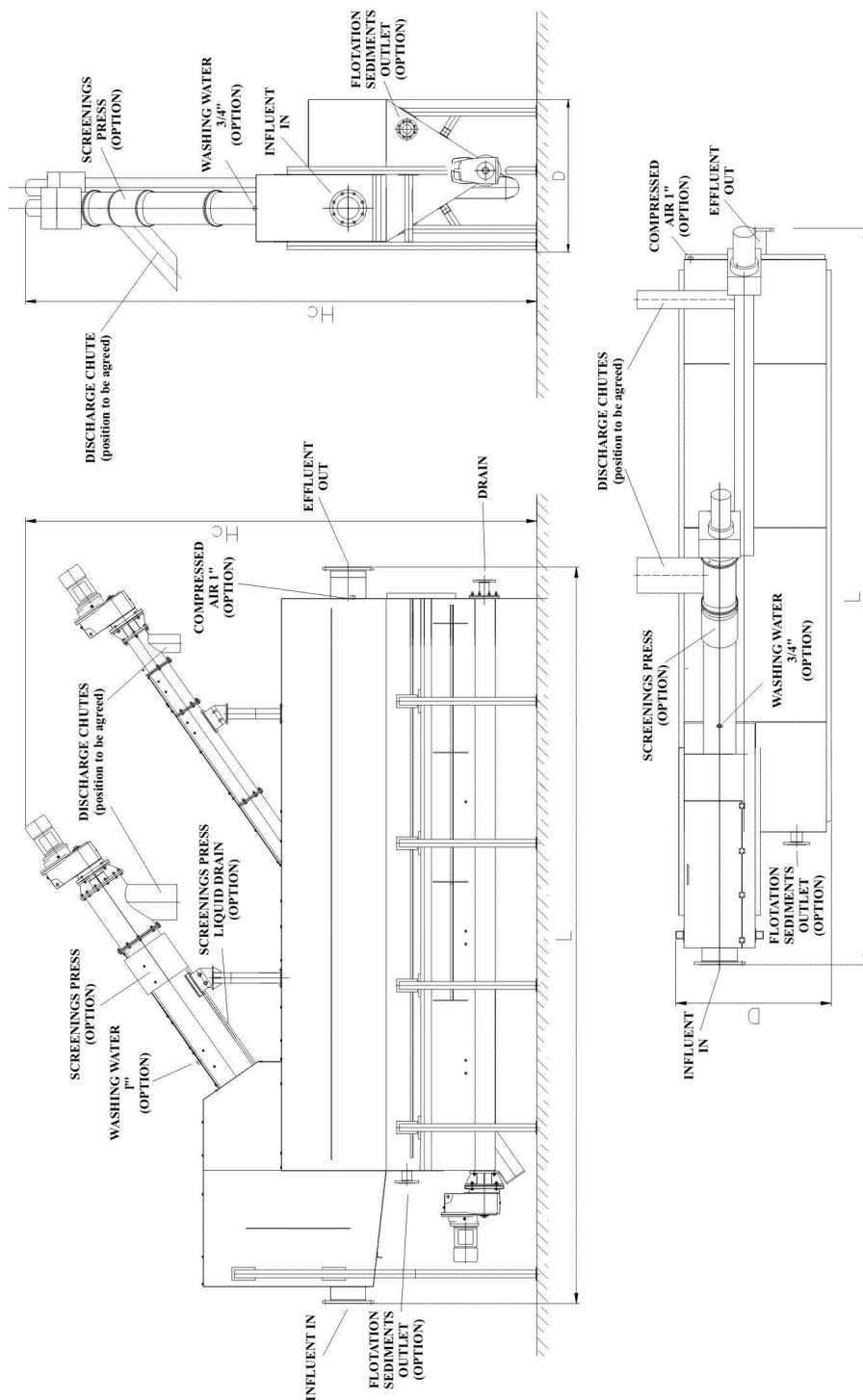
ADVANTAGES

- User friendly design
- High effectiveness
- No attention needed
- Robust and sturdy design
- Low power consumption
- High output
- A small footprint combination of three devices





INTEGRATED GRIT – SCREEN AUTOSEP DF SP



SPECIFICATIONS

Parameter Version	Flow Q [l/s]	Total height Hc [mm]	Length L [mm]	Width D [mm]	Connections diameters			Gear motor power		
					Influent Dn	Affluent Dn	Drain Dn	Rotary screen [kW]	Sand separator [kW]	Horizontal auger [kW]
DF SP 20	20	4000	4700	850	150	150	65	0,75	0,75	0,55
DF SP 40	40	4000	6100	850	200	200	65	1,1	1,1	0,55
DF SP 50	50	4000	7200	850	250	250	65	1,1	1,1	0,75
DF SP 60	60	4000	7200	1200	300	300	80	1,5	1,1	0,75
DF SP 70	70	4000	8200	1200	350	350	80	1,5	1,1	0,75

Specifications depend on volume and type of wastewater. Each unit is individually designed to fulfil application and design requirements.