

PRODUCT DATA SHEET

Screw Screen with Compactor (SS-mK)

water | wastewater | sewage



OVERVIEW

The screw screen provides screening of solids from raw sewage or from industrial wastewater applications. The screw screen is designed for installation in a concrete channel. As standard the system includes compaction of screenings and washing in the compaction zone.

The compactor, located at the end of the transport section of the screw, carries out the compaction and dewatering of screenings to reduce the weight and volume of captured screenings.



ADVANTAGES

- Low maintenance and low initial investment
- Self-cleaning with brushes fitted on the screw
- High solids removal efficiency
- Up to 50% reduction in volume & weight of screenings after compaction
- Transport section: tubular or U-section
- Transport section: longer/shorter lengths available

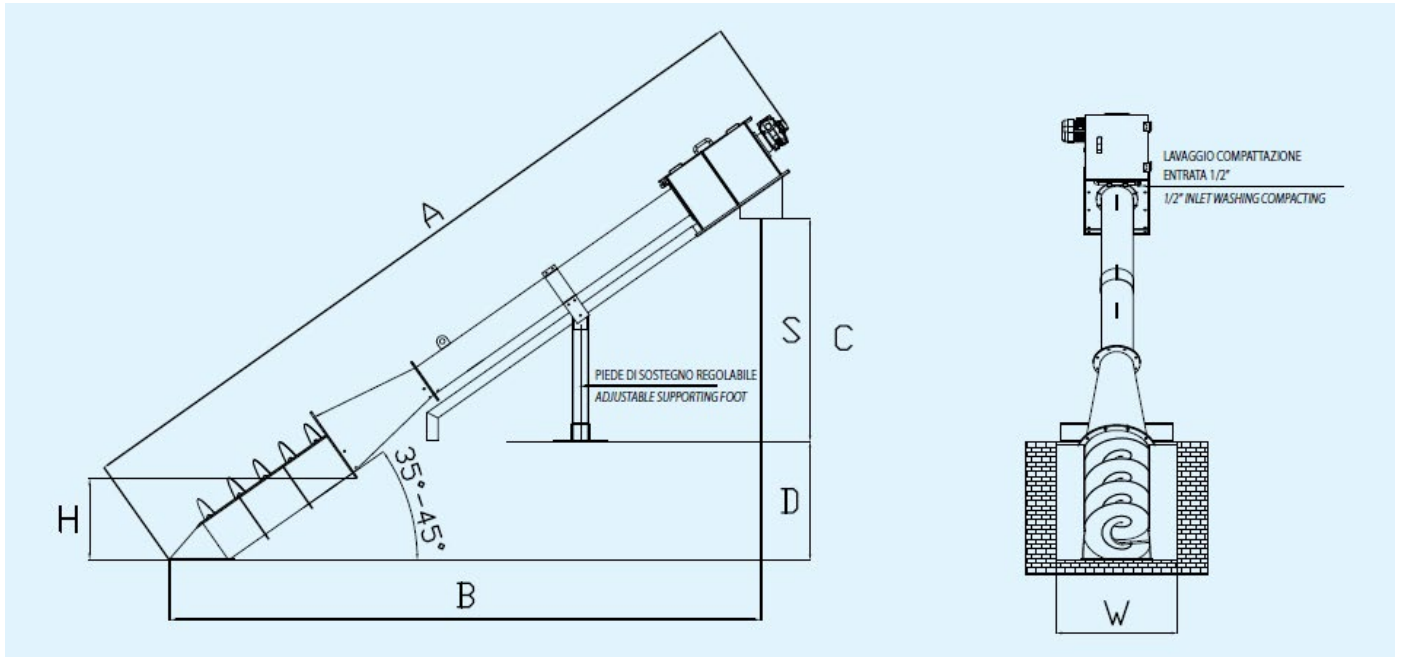
MANUFACTURING FEATURES

- Inlet flow rate; up to 1000 m³/h
- Screen element options;
 - » Rounded holes 3-10mm
 - » Wedge wire 0.25-3mm

STANDARD SPECIFICATIONS

Parameter			Units	SS-mK-110	SS-mK-160	SS-mK-260	SS-mK-390	SS-mK-610	SS-mK-830	SS-mK-1000
Treatment capacity* ¹	With rounded holes (mm)	Ø3	m ³ /h	80	122	158	320	502	690	865
		Ø4		93	137	218	360	528	756	920
		Ø5* ²		108	158	259	390	612	830	1,000
		Ø6		126	164	288	430	630	850	1,070
		Ø7		137	183	310	468	730	905	1,160
		Ø10		158	194	333	495	790	970	1,250
	With wedge wire (mm)	0.25		17	34	75	115	180	220	290
		0.5		45	64	95	170	300	340	385
		1		50	81	135	252	350	430	590
		2		85	100	145	303	430	580	785
		3		112	125	187	340	505	730	900
Dimensions	W	mm	535	615	690	820	970	1,051	1,150	
	H		35°	410	420	430	550	660	800	860
			45°	515	535	540	705	838	985	1,050
	A* ³		5,124	5,124	5,124	5,124	6,040	6,040	7,840	
	B		4,075	3,975	4,044	3,990	4,512	4,510	4,680	
	C		3,040	2,990	3,035	2,980	3,735	3,770	3,650	
	D		800				1,000			
	S		1,500							
Installed motor power			kW	0.75						1.1
Screw gear reducer speed			rpm	11				8		
Washwater screen basket / compaction zone (at 3 bar)			L/min	23 / 31				62 / 44		78 / 56
Empty weight (standard length)			kg	300	318	325	350	608	642	1,100

*¹Theoretical, calculated using clean water, *²Standard screen type & aperture, *³Transport section can be lengthened or shortened, which will affect other dimensions.



STANDARD INCLUSIONS + OPTIONS

Equipment			Standard Supply	Optional Supply
Screw screen	Rounded holes screen element	Ø5mm aperture	✓	–
		Custom aperture (3, 4, 5, 6 ,7 or 10mm)	-	✓
	Wedge-wire screen element (0.25, 0.5, 1, 2 or 3mm)		-	✓
	Integrated screenings compaction (can be deleted as an option)		✓	–
	Screen basket cleaning, bolted nylon brushes		✓	–
	PE pipe for returning liquid from compaction zone		✓	–
	Squared outlet spout		✓	–
	Bolted screenings compaction system cover		✓	–
	Lifting eyebolts		✓	–
	Nord drives with compact motor gearbox and cover guard		✓	–
Machine carpentry, drive guards and anti-wear materials on screw		SS304L, bolts A2 (SS304)	✓	–
		SS316L, bolts A4 (SS316) (recommended for coastal and corrosive environments)	-	✓
Screw	High-carbon steel painted		✓	–
	SS304L		-	✓
	SS316L		-	✓
	Lengthen or shorten the standard screw transport section		-	✓
Washing	Compaction zone only, with ½” manual valve		✓	–
	Compaction zone with ½” manual valve and screening basket with 1” manual valve		-	✓
	Manifold for compaction zone and screening basket, with 1” manual valve		-	✓
Automatic Longopac bagging system for screenings with 1x 80m long bag			-	✓
Drive motor premium efficiency	IP55		✓	–
	IP65 with thermistor overload protection		-	✓
Surface treatments ¹			✓	–

¹Stainless steel parts: stripping with acid solution, passivation with glass particles, final surfaces cleaning with anti-dust oil. Carbon steel parts: sandblasting SA 2.5 for external anti-rust paint RAL 5015

Instrumentation & Controls		Standard Supply	Optional Supply
Safety limit switch for compaction zone opening hatch		✓	–
Level sensor, supplied loose for channel installation	Conductive probe	–	✓
	Ultrasonic	-	✓
Solenoid valve kit(s) for selected washing system(s) 24VDC		-	✓
Mechanical over-torque protection (backlash free-ball model)		-	✓
Control panel to AS/NZS3000, for external installation (supplied loose)		-	✓

MODEL SELECTION

110	Capacity - 108 m³/h
160	Capacity - 158 m³/h
260	Capacity - 259 m³/h
390	Capacity - 390 m³/h
610	Capacity - 612 m³/h
830	Capacity - 830 m³/h
1,000	Capacity - 1,000 m³/h
4 Machine carpentry, drive guard and anti-wear material on screw in 304L SS, bolts A2 (304 SS) (standard)	
6 Machine carpentry, drive guard and anti-wear material on screw in 316L SS, bolts A4 (316 SS)	
X Rounded holes screen element 5mm aperture (standard)	
R Rounded holes screen element custom aperture 3, 4, 6, 7 or 10mm	
W Wedge-wire screen element with aperture 0.25, 0.5, 1, 2 or 3mm	
X Screw in high-carbon steel painted (standard)	
4 Screw in 304L SS	
6 Screw in 316L SS	
X Level sensor, without (standard)	
C Level sensor – conductive probe, for channel installation	
U Level sensor – ultrasonic, for channel installation	
X Washing in compaction zone with manual valve (standard)	
S Washing system in compaction and screening basket with 2x manual valves	
M Manifold for compaction zone & screening basket washing systems with 1x manual valve	
X Solenoid valve kits for all washing systems, without (standard)	
S Solenoid valve kits for all selected washing systems	
X Automatic bagging system for screenings, without (standard)	
L Longopac automatic bagging system for screenings	
X Drive motor premium efficiency with IP55 protection (standard)	
P Drive motor premium efficiency with upgraded IP65 protection & thermistor overload protection	
X Control panel, without (standard)	
C Control panel, for external installation	
X Standard specification	
C Custom specification	
SS-mK -	- - - - -



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