# **PRODUCT DATA SHEET**

## Screw Screen (SS)

#### water | wastewater | sewage

#### **OVERVIEW**

The screw screen (SS) 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

#### . Screen element options; » Rounded holes 3-10mm

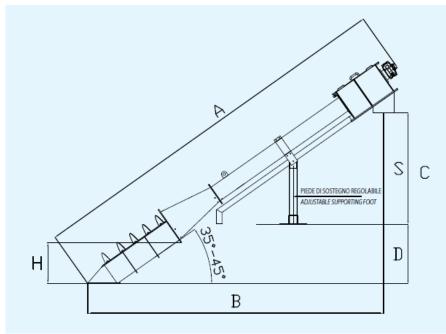
» Wedge wire 0.25-3mm

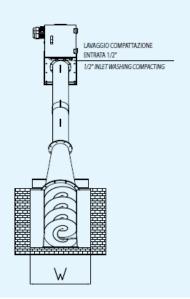
Inlet flow rate; up to 1558 m<sup>3</sup>/h

STANDARD SPECIFICATIONS SS-mK-110 Parameter Units SS-mK-160 SS-mK-260 SS-mK-390 SS-mK-610 SS-mK-830 SS-mK-1000 122 130 320 504 669 816 Ø3 90 Ø4 93 137 218 360 528 756 920 108 156 385 606 804 981 Ø5 237 With rounded holes (mm)Ø6 131 189 288 466 734 973 1,187 Ø8 139 199 304 492 774 1,027 1,253 Treatment Ø10 m<sup>3</sup>/h 143 206 313 508 799 1,059 1,293 capacity\* 72 0.25 33 47 116 184 243 297 0.5 64 92 140 228 359 475 581 With wedge wire 1 112 160 245 396 623 827 1,009 (mm) 2 222 549 864 1,145 155 339 1,398 3 248 378 612 963 1,277 1,558 173 W 535 615 690 820 970 1,051 1,150 35 410 420 430 550 660 800 860 н 45° 515 535 540 705 985 1,050 838 A\*2 5,124 5,124 5,124 5,124 6,040 6,040 7,840 Dimensions mm В 4,075 3,975 4,044 3,990 4,512 4,510 4,680 С 3,040 2,990 3,035 2,980 3,735 3,770 3,650 D 1,000 800 S 1,500 0.75 Installed motor power, 3ph, 50hz kW 1.1 Screw gear reducer speed rpm 11 8 Washwater 23/31 62 / 44 78 / 56 L/min screen basket / compaction zone (at 3 bar) 318 325 350 608 642 1.100 Empty weight (standard length) ka 300 <sup>1</sup>Theoretical, calculated using clean water, \*<sup>2</sup>Transport section can be lengthened or shortened, which will affect other dimensions.



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## STANDARD INCLUSIONS + OPTIONS

Equipment			Standard Supply	Optional Supply
Screw screen	Rounded holes screen element 5mm (standard) or 3, 4, 6 ,7 or 10mm		✓	-
	Wedge-wire screen element 0.25, 0.5, 1, 2 or 3mm		-	1
	Integrated screenings compaction (can be deleted as an option) model changes from -mk to -ok		$\checkmark$	-
	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		$\checkmark$	-
Machine carpentry, drive guards and anti-wear materials on screw. All bolts in A4 (SS316) SS316L		✓	-	
		SS316L	-	1
Screw	High-carbon steel painted		✓	-
	SS304L		-	1
	SS316L		-	1
	Lengthen or shorten the standard screw transport section		-	1
Washing	Compaction zone only, with 1/2" manual valve		✓	-
	Compaction zone with $1\!\!\!/_2$ " manual valve and screening basket with 1" manual valve		-	1
	Manifold for compaction zone and screening basket, with 1" manual valve		-	1
Automatic Longopac bagging system for screenings with 1x 80m long bag		-	1	
Drive motor premium efficiency		IP55	1	-
		IP65 with thermistor overload protection	-	1
Surface treatments <sup>1</sup>			1	_

<sup>1</sup>Stainless 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 ope	1	-	
Level sensor, supplied loose for channel	Conductive probe	-	1
installation	Ultrasonic	-	1
Solenoid valve kit(s) for selected washing s	-	1	
Mechanical over-torque protection (backlas	-	1	
Control panel to AS/NZS3000, 316SS encl between control panel and equipment by o	-	1	

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### MODEL SELECTION

	DEL SELECTION			
110	Capacity - up to 173 m <sup>3</sup> /h			
160	Capacity - up to 248 m <sup>3</sup> /h			
260	Capacity - up to 378 m <sup>3</sup> /h			
390	Capacity - up to 612 m <sup>3</sup> /h			
610	Capacity - up to 963 m <sup>3</sup> /h			
830	Capacity - up to 1,277 m <sup>3</sup> /h			
,000 	Capacity - up to 1,558 m <sup>3</sup> /h			
	4 Machine carpentry, drive guard and anti-wear material on screw in 304L SS (standard)			
	<ul> <li>6 Machine carpentry, drive guard and anti-wear material on screw in 316L SS</li> </ul>			
	D Rounded holes screen element [select aperture]			
	Wedge-wire screen element [select aperture] X Screw in high-carbon steel painted (standard)			
	4 Screw in 304L SS			
	6 Screw in 316L SS			
	<ul> <li>X Washing systems in compaction zone (standard)</li> <li>2 Washing systems in compaction and ensure healert</li> </ul>			
	S Washing systems in compaction and screen basket			
	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 Control panel, without (standard)			
	C Control panel, for external installation			
	X Standard specification			
	C Custom specification			
1				



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