

# PRODUCT DATA SHEET

## Screw Screen in Tank (SSB-mK)

water | wastewater | sewage



### OVERVIEW

This packaged screw screen provides primary treatment for untreated sewage and a wide range of industrial wastewater. The SSB-mK screw screen is equipped with a stainless steel tank to allow installation where a concrete channel is not available. The tank is complete with flanged inlet and outlet pipe stubs.

The tank can be fitted with an optional bypass chamber (as contingency if the main screen overflows) fitted with a manually cleaned bar screen. The system includes screening compaction at the end of the conveying section of the screw.

### 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
- Many available options for customised system

### MANUFACTURING FEATURES

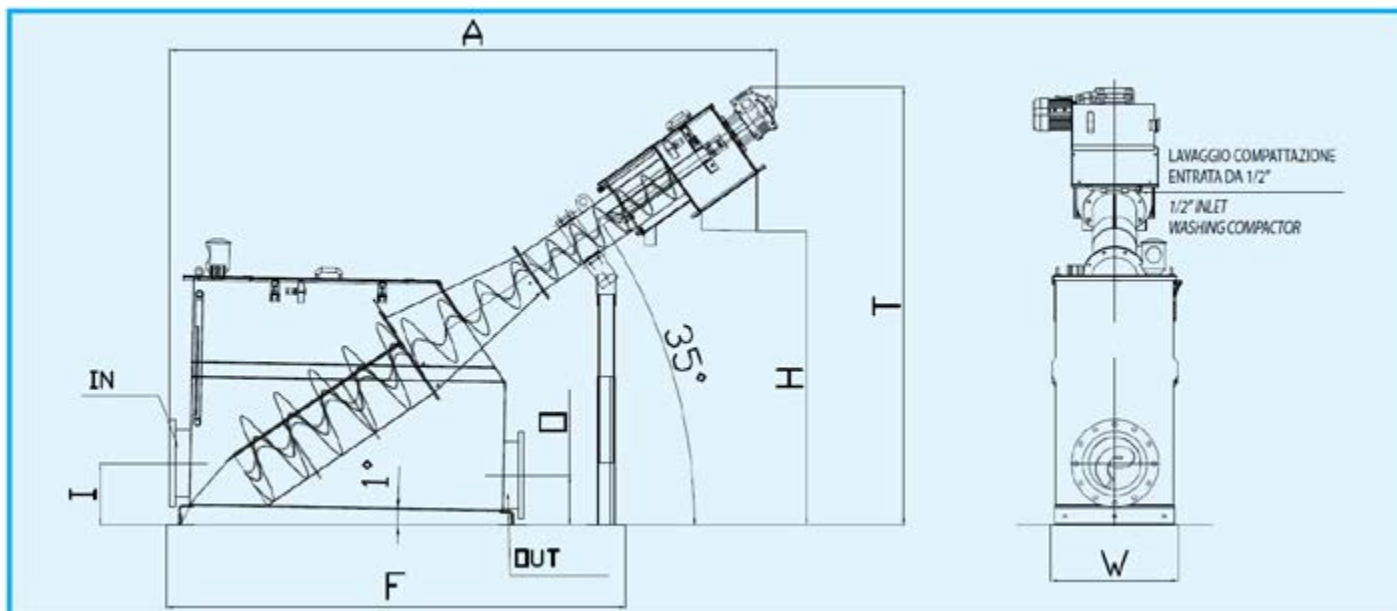
- Inlet flow rate; up to 970 m<sup>3</sup>/h
- Screen element options;
  - » Rounded holes 3-10mm
  - » Wedge wire 0.25-3mm



### STANDARD SPECIFICATIONS

Parameter			Units	SSB-mK-110	SSB-mK-160	SSB-mK-260	SSB-mK-390	SSB-mK-610	SSB-mK-830
Treatment capacity* <sup>1</sup>	With rounded holes (mm)	Ø3	m <sup>3</sup> /h	80	122	158	320	502	690
		Ø4		93	137	218	360	528	756
		Ø5* <sup>2</sup>		108	158	259	390	612	830
		Ø6		126	164	288	430	630	850
		Ø7		137	183	310	468	730	905
		Ø10		158	194	333	495	790	970
	With wedge wire (mm)	0.25		17	34	75	115	180	220
		0.5		45	64	95	170	300	340
		1		50	81	135	252	350	430
		2		85	100	145	303	430	580
Dimensions	A		mm	3,190	3,120	3,125	3,100	4,050	4,175
	T			2,250	2,250	2,250	2,250	2,600	3,135
	H			1,500				1,750	1,950
	O			175	205	235	255	300	360
	I			220	250	285	315	380	440
	F			2,160	2,300	2,350	2,350	2,900	3,300
	W			430	480	600	650	720	870
Inlet/outlet flange* <sup>3</sup>			DN	150	200	250	300	400	500
Installed motor power			kW	0.55	0.75	0.75	0.75	0.75	0.75
Screw gear reducer speed			rpm	11	11	11	8	8	8
Wash water: Screen basket / compaction zone (@3 bar)			L/min	23 / 31				62 / 44	
Empty weight			kg	400	440	480	570	900	990

\*<sup>1</sup>Theoretical, calculated using clean water, \*<sup>2</sup>Standard screen type & aperture, \*<sup>3</sup>Flanges are lap joint max 15mm thick with holes P16 according to AS4087.



## STANDARD INCLUSIONS + OPTIONS

Equipment			Standard Supply	Optional Supply
Screw screen in tank	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 breathing valve on screen tank		✓	-
	PVC 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 guards		✓	-
Machine carpentry, inlet & outlet flanges, drive guards and anti-wear materials on screw		SS304L, bolts A2 (SS304)	✓	-
		SS316L, bolts A4 (SS316) recommended for marine environments	-	✓
Bypass Chamber	Manual bar screen	10mm	-	✓
	Rounded holes	Custom aperture (3, 4, 5, 6 ,7 or 10mm)	-	✓
	Wedge-wire	2 or 3mm	-	✓
Screw	High-carbon steel painted		✓	-
	SS304L		-	✓
	SS316L		-	✓
Washing systems	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			-	✓
Overflow outlet (flanged)			-	✓
Odour extraction port (flanged)			-	✓
Extended tank for tilt-out screen maintenance			-	✓
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 switches for screen and compaction zone opening hatches		✓	-
Screen tank level sensor	Conductive probe	✓	-
	Ultrasonic	-	✓
Solenoid valve kit(s) for washing system(s) 24VDC		-	✓
Mechanical over-torque protection (backlash free-ball model)		-	✓
Control panel to AS/NZS 3000, for external installation		-	✓



## 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

	<b>4</b>	Machine carpentry, inlet & outlet flanges, drive guard and anti-wear material on screw in 304L SS, bolts A2 (304 SS) (standard)
	<b>6</b>	Machine carpentry, inlet & outlet flanges, drive guard and anti-wear material on screw in 316L SS, bolts A4 (316 SS)
	<b>X</b>	Bypass chamber, without (standard)
	<b>M</b>	Bypass chamber with 10mm manual bar screen
	<b>X</b>	Rounded holes screen element 5mm aperture (standard)
	<b>R</b>	Rounded holes screen element custom aperture 3, 4, 6, 7 or 10mm
	<b>W</b>	Wedge-wire screen element with aperture 0.25, 0.5, 1, 2 or 3mm
	<b>X</b>	Screw in high-carbon steel painted (standard)
	<b>4</b>	Screw in 304L SS
	<b>6</b>	Screw in 316L SS
	<b>X</b>	Washing system in compaction zone with manual valve (standard)
	<b>S</b>	Washing systems in screen basket and compaction each with manual valve
	<b>X</b>	Solenoid valve kits for all washing systems, without (standard)
	<b>S</b>	Solenoid valve kits for all washing systems
	<b>X</b>	Automatic bagging system for screenings, without (standard)
	<b>L</b>	Longopac automatic bagging system for screenings
	<b>X</b>	Control panel, without (standard)
	<b>C</b>	Control panel, for external installation
	<b>X</b>	Standard specification
	<b>C</b>	Custom specification

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