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LINEAR MECHANICAL SCREEN





LINEAR MECHANICAL **SCREENS**

Linear mechanical screens are automatic self-cleaning inclined front raked screens which can be used as both fine and coarse screens in all kinds of treatment plants and pumping stations. They are mostly preferred equipment since they have relatively few mechanical components and generally have no, any moving parts permanently located under the water level. This type of screens is mounted to the channel with an angle.

Linear mechanical screens generally consist of main frame, screen group, rake, counter wiper, and drive unit and chute.

- Noise free operation

APPLICATIONS

- Water treatment plants
- Wastewater treatment plants
- Power stations
- Pumping stations

FEATURES AND BENEFITS **OF SISMAT ULUSLARARASI LINEAR MECHANICAL SCREENS:**

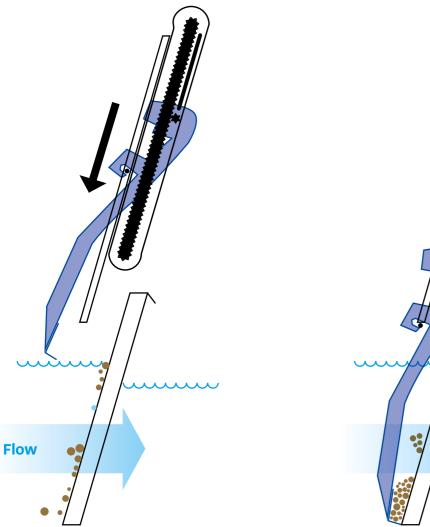
• No mechanical parts under water level • Automatically cleaning system by time or level sensors • Operation in very deep channels and possibility of moving the screenings to high levels

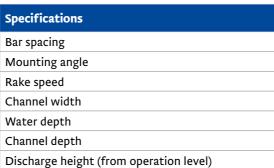
• Industrial wastewater treatment plants

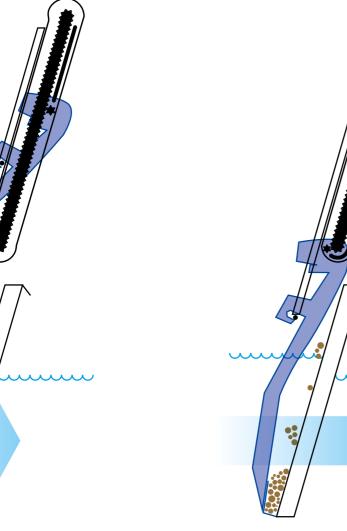


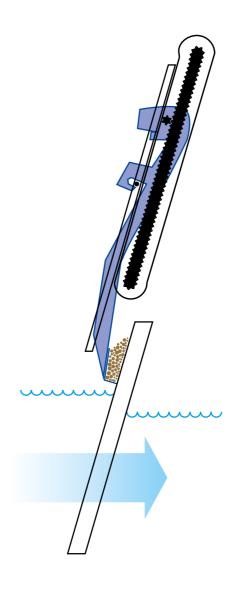
WORKING PRINCIPLE

The movement from drive unit is transmitted to the rake as a linear motion via chain system. Scraping motion which starts at the bottom dead point ends when the counter wiper at the top dead point discharges wastes accumulated on the rake into a discharge chute. The rake moves away from the screen while descending motion. When linear mechanical screen is stopped, the rake is parked at the top point and does not prevent water flow. Automatic cleaning system can be operated by time or level sensors.









1

The waste accumulates on the bar screens and it causes clogging of the screens.

The cleaning mechanism is automatically activated by time or level sensors

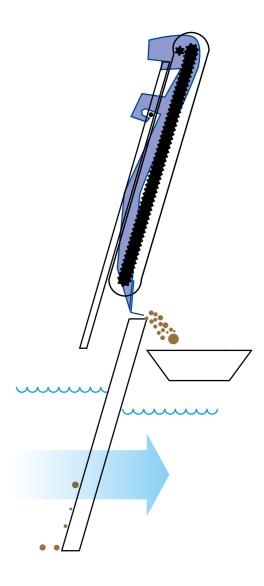
2

The rake collects and elevates the screenings from the bottom point

3

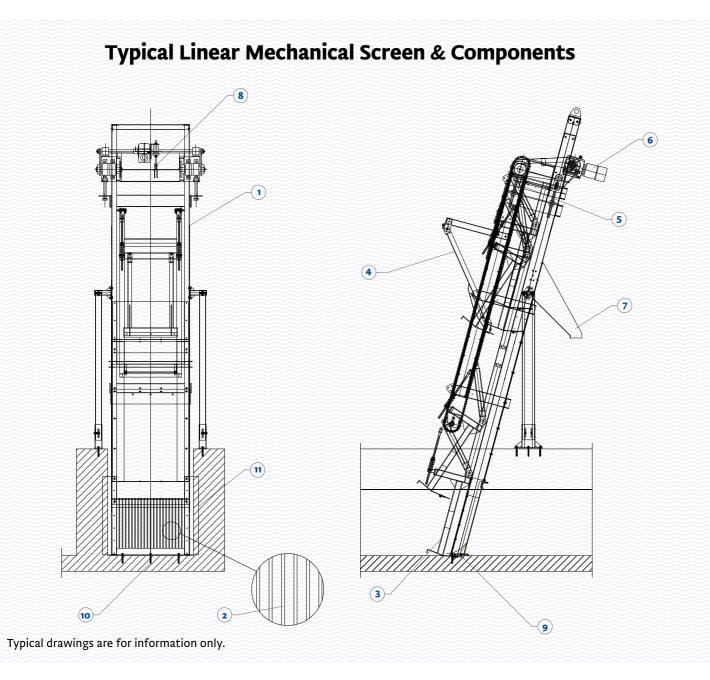
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10 mi	m - 80 mm
60°-7	75°
10 m/	/min.
800 mm - 2500 mm	
Max.	1800 mm
Max.	20000 mm
800 1	mm - 2000 mm



The collected waste is discharged into a container or conveyor





	Linear Mechanical Screen Components	Materials Available
1	Frame	Carbon steel or stainless steel grade, AISI304, AISI304L, AISI316, AISI316L, AISI316Ti, DUPLEX or SUPER DUPLEX
2	Screen bars	Carbon steel or stainless steel grade, AISI304, AISI304L, AISI316, AISI316L, AISI316Ti, DUPLEX or SUPER DUPLEX
3	Rake	Carbon steel or stainless steel grade, AISI304, AISI304L, AISI316, AISI316L, AISI316Ti, DUPLEX or SUPER DUPLEX
4	Counter wiper	Carbon steel or stainless steel grade, AISI304, AISI304L, AISI316, AISI316L, AISI316Ti, DUPLEX or SUPER DUPLEX
5	Chain & Chain gears	Special steel / chain steel
6	Drive unit	
7	Chute	Carbon steel or stainless steel grade, AISI304, AISI304L, AISI316, AISI316L, AISI316Ti, DUPLEX or SUPER DUPLEX
8	Mechanical spring torque limiter	
9	Fasteners	A2, A4 , DUPLEX or SUPER DUPLEX
10	Anchor bolts	A2, A4 , DUPLEX or SUPER DUPLEX
11	Side sealing	Neoprene





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Sismat Uluslararası Arıtma Makinaları İnşaat Mühendislik San. ve Tic. A. Ş. Address: Gebze Güzeller Organize Sanayi Bölgesi (GGOSB) Fatih Sultan Mehmet Cd. 5/1 Gebze/Kocaeli/Türkiye Telephone : +90 262 751 12 54 Fax: +90 262 751 12 56