

BAR SCREENS

WTP Equipment Corp. Mechanical Bar Screen Model SL

for cost-effective, automatic collection and removal of wastewater screenings. Screen size, bar rack opening size, discharge height and channel dimensions are engineered to your specific application.

ADVANTAGES

ANTI-FOULING DESIGN

Screenings, collected on a stationary front-cleaned bar rack, are removed by a heavy duty chain & sprocket driven traveling rake. No moving parts, other than the rake, are submerged at any time - chains & sprockets are located above the maximum liquid level. Drive mechanism fouling is eliminated and maximum corrosion protection is provided. Maintenance is done at the operating floor level.

FULL DEPTH CLEANING

The cantilevered rake swings into initial engagement with the bar rack at the channel invert, scooping and lifting large quantities of screenings. Maximum screening efficiency is achieved because, during each cleaning rake cycle, the full depth and width of the screen bar rack openings are cleaned to prevent blinding by lodged materials.

CLEAN DISCHARGE

At discharge the cleaning rake swings out, above and behind the deadplate apex, to ensure screenings are cleanly deposited into the discharge chute without material hang-up.

LONG SERVICE LIFE

Trouble-free operation is ensured by use of non-corrosive materials of construction - stainless steel and engineering plastics.



CLEAN SCREENINGS DISCHARGE



FULL DEPTH BAR RACK CLEANING



DRIVE MECHANISM LOCATED ABOVE WATER LEVEL

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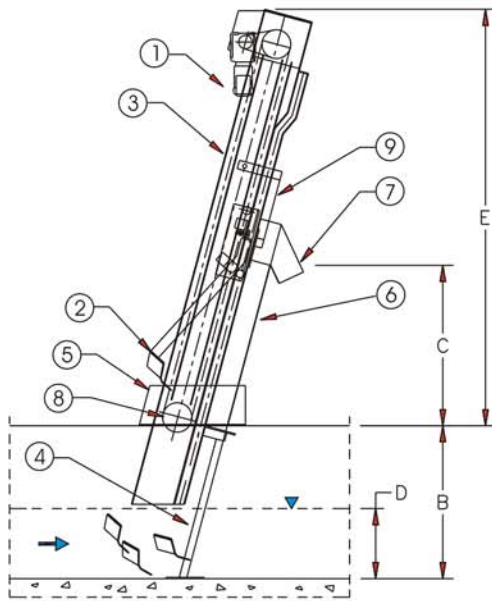
Manufacturers of Engineered Environmental Treatment Systems

TORONTO, CANADA

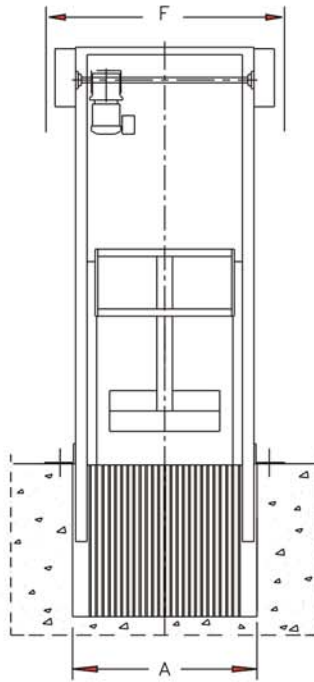
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BAR SCREENS



SIDE VIEW



FRONT VIEW

F	MAXIMUM WIDTH
E	MAXIMUM HEIGHT
D	DEPTH OF FLOW
C	DISCHARGE HEIGHT
B	CHANNEL DEPTH
A	CHANNEL WIDTH

DIMENSIONS

9	SCRAPER ASSEMBLY
8	LOWER SPROCKET
7	DISCHARGE CHUTE
6	DEADPLATE
5	ANCHOR PLATE
4	BAR RACK ASSEMBLY
3	FRAME ASSEMBLY
2	RAKE ASSEMBLY
1	DRIVE UNIT

COMPONENT LIST

MECHANICAL BAR SCREEN STANDARD MODEL



FULL DEPTH BAR RACK CLEANING is achieved on each pass of the rake as the front face and inside surfaces of the parallel rectangular screening bars are cleaned over the full bar rack slot depth. This ensures complete screenings removal and prevents screen blinding by materials lodged between bars and, since the bar rack height is greater than the design maximum water depth, the flow cannot submerge and overload the screen.

CLEAN, POSITIVE SCREENINGS DISCHARGE for efficient operation is achieved as an additional advantage of using parallel screening bars. As screenings are lifted to discharge the traveling rake makes a smooth transition above the bar rack onto a flat deadplate to prevent the raised screenings from dropping behind the bars and to eliminate liquid from dripping onto the operating floor area. This, with the clean deposit of screenings into the discharge chute resulting from rake rear swing-out behind the deadplate, achieves maximum screening efficiency.

MAXIMUM SCREENING EFFICIENCY

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