

FRONT RAKE SCREEN (FINE)



Description

The Incline Bar Screen (IBFS) is used for "fine screening" where the removal of waste material between 5 and 12 mm in size is required. The screenings are collected against a taper bar screen field and the waste is removed by means of a multiple rake system. The rakes pass over the screen field and in doing so remove the entrapped screenings waste which is caught between the taper bar screen field. The screenings waste is then carried by the dual chain driven rake system up the debris plate and is discharged at the top of the screen via the scraper system, and down the discharge chute for further processing.

Application

- Wastewater treatment plants
- Water treatment plants
- Irrigation systems
- Sludge plants
- Pump stations
- Mining industry
- Abattoirs
- Food & Beverage



Features & Benefits

- Four or more cleaning rakes
- Specific materials of construction to suit the application: 3CR12, 304SS, 316SS
- Inclined at 70°-90° to the horizontal
- Chain Technical Features:
 - Lower chain guide with no moving parts
 - Modular design
 - High tensile strength due to thicker links and pins
 - Low wear due to roller elements
 - Hardened duplex S/S pins with S/S links and hubs
- No lower bearing or sprocket submerged below water level
- Recessed side frame to remove chain from flow path
- Mechanical torque overload switch which prevents damage to equipment
- The angle of the taper bar prevents any object from getting lodged between the bars allowing for a smooth and constant flow



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Performance & Specification

IBFS Screen - Estimated Flow Rates

- We manufacture to suit non-standard openings
- Theoretical capacities
- Table data subject to change to suit civil and flow conditions
- All dimensions in mm

MODEL	BAR SPACING (E) (liters/sec)			
	6	8	10	12
IBFS400	230	270	300	326
IBFS600	432	504	567	616
IBFS800	634	749	835	907
IBFS1000	724	850	947	1030
IBFS1200	925	1087	1217	1325
IBFS1400	1127	1328	1487	1620
IBFS1500	1231	1447	1627	1764
IBFS2000	1739	2052	2297	2502
IBFS2500	2250	2646	2977	3240
IBFS3000	2761	3258	3654	3996

MODEL	CHANNEL WIDTH (A)	CHANNEL DEPTH (B)	DISCHARGE HEIGHT (C)	STANDARD SCREENING ZONE HEIGHT (D)	INSTALLED POWER kW
IBFS400	400	800	CUSTOMER'S REQUIREMENT	600	0.55
IBFS600	600	800	CUSTOMER'S REQUIREMENT	600	0.75
IBFS800	800	1000	CUSTOMER'S REQUIREMENT	850	0.75
IBFS1000	1000	1000	CUSTOMER'S REQUIREMENT	850	1.1
IBFS1200	1200	1000	CUSTOMER'S REQUIREMENT	850	1.1
IBFS1400	1400	1200	CUSTOMER'S REQUIREMENT	1000	1.5
IBFS1500	1500	1500	CUSTOMER'S REQUIREMENT	1300	1.5
IBFS2000	2000	1800	CUSTOMER'S REQUIREMENT	1600	2.2
IBFS2500	2500	2200	CUSTOMER'S REQUIREMENT	2200	3.0
IBFS3000	3000	2500	CUSTOMER'S REQUIREMENT	2200	3.0

