

« S » TRASH RAKES

FIXED HEAD TYPE



PURPOSE

- ◆ Heavy-duty rake used to remove larger debris from the water (branches, plants, plastic cans, large seaweed, large crabs, man-made refuse, etc.).
- ◆ The “S” rake is used at the entrance of the screening plants of thermal and nuclear power stations, LNG terminals, desalination plants, fertilizer plants, drinking water, sewage and irrigation plants.
- ◆ Fixed head structure, where one rake cleans one bar screen)

DESCRIPTION

- ◆ The bar rack is installed across the pit. The rake is normally parked in its top position above deck.
- ◆ The comb is disengaged from the bar rack. When a signal is received, the rake travels downwards, directed by the wall guides.
- ◆ On reaching the bottom, the rake tilts from its open position to its raking position. The rake tines penetrate between the bars of the rack.
- ◆ The rake travels up-wards collecting and storing the debris.
- ◆ When the rake reaches the top, above deck, it tilts and the water brought up by the rake scoop flushes the debris away into the deck flume.

ADVANTAGES

- ◆ Well proven, hundreds in service
- ◆ Sturdy and reliable
- ◆ High debris-removal capacity
- ◆ No messy debris removal at the top
- ◆ Economical
- ◆ Fully-automatic
- ◆ Minimal maintenance requirement
- ◆ Can be fitted with the “Bio-Flush™” fish-protection device

OPTIONAL FEATURES

- ◆ Two-speed rake vertical travel
- ◆ “Bio-Flush™” fish-saving device
- ◆ Seismic qualification
- ◆ Built-in trash basket
- ◆ Atex compliance



NECESSARY ANCILLARIES

- ◆ Pit dewatering stoplogs
- ◆ Head-loss monitoring system
- ◆ Electrical control cabinet
- ◆ Trash collection system

MATERIALS

- ◆ Bar rack, rake, wall guides, debris collector: For fresh-water : painted carbon steel or AISI 304L stainless steel ; For seawater : AISI 316L stainless steel with anodes, duplex or super-duplex stainless steel
- ◆ Cable drum: For fresh-water : carbon steel; For seawater : AISI 316L stainless steel
- ◆ Top structure: For fresh-water : painted carbon steel; For seawater : AISI 316L stainless steel
- ◆ Rake tines, rollers: polyamide
- ◆ Bolts and nuts: For fresh-water : A2 stainless steel. For seawater : A4 stainless steel, duplex or super-duplex stainless steel
- ◆ Deck wheels: cast iron
- ◆ Deck track: carbon steel

SIZE AND DATA

- ◆ Standard width from 1.5 to 5 m (3 to 16 ft). Wider rakes to special order
- ◆ Bar spacing from 20 to 80 mm (3/4 to 3 inches)
- ◆ Tidal variation: no limit in practice



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