

# « R » TRASH RAKES

## ROTATING CHAIN TYPE



### PURPOSE

- ◆ The “R” type trash rake removes from the water, large quantities of medium-small debris (grass, seaweed, jelly-fish, etc.)
- ◆ Used whenever large quantities of small debris are expected (power plants, LNG terminals, chemical or desalination plants, drinking water plants)

### DESCRIPTION

- ◆ “R” Rakes are installed in the screening plant upstream of the travelling screens or the drum screens.
- ◆ The water flows across the inclined bar rack where the debris are arrested. The trash collecting rakes are held on two endless chains.
- ◆ They travel down, well clear of the bar screen, run around the bottom rail meshing between the bars.
- ◆ The debris are removed and loaded into the trash collecting rakes, they travel upwards.
- ◆ At deck level, the debris are swept out of the rakes into the collection trough or basket.
- ◆ Two or three travel speed operation is provided.
- ◆ Cleaning is started either by a timer, the operator or the head-loss monitoring system.

### ADVANTAGES

- ◆ Debris-handling capacity is high due to the number of rakes. It can be increased when required
- ◆ CE compliant,
- ◆ No possible oil spillage
- ◆ Well-proven, sturdy design
- ◆ Easy, reduced maintenance
- ◆ Low induced head-loss
- ◆ Fully-automatic operation
- ◆ Easy installation

## OPTIONAL FEATURES

- ◆ Two or three-speed operation
- ◆ Seismic qualification
- ◆ Increased number of rakes
- ◆ Atex compliance
- ◆ Operation started by a timer, head-loss or operator



## NECESSARY ANCILLARIES

- ◆ Head-loss monitoring system
- ◆ Electrical control cabinet
- ◆ Pit dewatering stoplogs
- ◆ Upstream bar rack if very heavy debris (tree trunks, etc) are expected
- ◆ Trash collection system (baskets, etc).

## MATERIALS

- ◆ Bar rack, rake guides, structure, debris slide, top shaft sprockets: 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
- ◆ Rake tines, rollers: composite materials
- ◆ Trash collector: for fresh-water: AISI 304L stainless steel; for seawater: AISI 316L stainless steel, duplex or super-duplex stainless steel
- ◆ Chain links, pins/rollers: duplex stainless steel/polyamide

## SIZE AND DATA

- ◆ Standard width from 1 to 4 m (3.3 to 13 ft), wider on specific request
- ◆ Installation at 15° incline
- ◆ Bar spacing from 15 to 50 mm (5/8 to 2")



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