



## Mechanical Bar Screen and Belt Conveyor



**BIO-TECH**

*...preserving environment through innovation*

## Mechanical Bar Screen

Bio-Tech manufactures three types of mechanical bar screens - Vertical, Inclined and Rotary/Semirotary.

### Vertical

The Screen Consists of a sturdy frame work arranged above ground level carrying the mechanism and below, in the channel or chamber, the screen bars proper. These Screen bars are arranged vertically and are carried by cross members in such a manner that individual bars can be removed at will. From the headgear frame work two guide members extend to the bottom of the channel or chamber, adjacent to the screen bars. These guide the rising and falling carriage which carries the rake tynes.

The chain drive and special reversing rake arrangement needs no attention once adjusted.

The carriage is supported by chains and operated in its rising and falling motions by gearing attached to the main framework.



### Inclined

These screens operate between 75° to 81°. Three to five rakes collect the screenings one after the other and drops it on the chute about 1mtr above coping level before commencing its backward motion. These screens are fully covered.

### Rotary/Semirotary



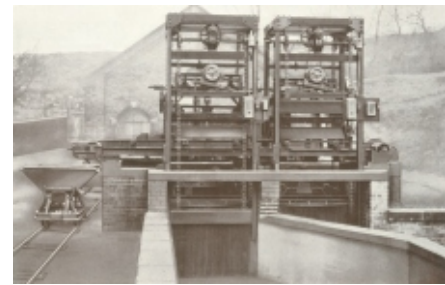
For smaller screen chambers our curved bar screens with rotary/semirotary raking is the ideal

solution. These Screens are suitable for shallow channels upto 2 M deep and width between 0.45 M to 2.4 M. Two or Four raking tynes can be supplied. These are very robust and simple to operate screens.

*The Screens are operated on timer or level controller. Dedicated control panel is supplied with screen.*

### Belt Conveyor

20° troughed, three roll design ensures proper collection of screenings from the screen. Belts of nylon or polyester are supplied. Unique features include trays for drain collection, full cover to conveyor usually FRP, belt tensioning device, skirting and doctor blade.



### Features of Bio-Tech screens

- Fully Automatic and versatile operation.
- Robust construction, simple operation, efficient mechanism with minimum maintenance.
- No moving parts continuously under water. Abrasion due to grit laden sewage is entirely eliminated.
- A unique 'Bar Screen' assembly.
- Low energy requirement.
- Useful for Effluent / Sewage Treatment Plants.
- Every moving part easily accessible for lubrication or other attention.
- Mechanism cannot be harmed by solid obstructions. The tynes can yield to the obstruction as they encounter it, re-entering the bars immediately the obstruction is passed.
- Can be supplied in mild steel or stainless steel.

