

## Drum & Cup Screens

Drum and Cup screens offer a simple and robust solution to applications where there is a requirement to screen large volumes of water. Typical applications include power generation intakes and desalination plants. Over many years the cup screen, in particular, has been used on sewage works for fine inlet screening and sea outfall use.

Both drum and cup screens are supplied with perforated stainless or plastic panels for sewage applications, and woven wire mesh for water intakes. The standard aperture size is 6mm, for both sewage and water applications, with the option to go down to 3mm for water intakes.



As the flow passes through the screen, debris adheres to the panels and is washed of, by an externally mounted, high pressure spray, into debris hoppers mounted at operating floor level. Larger debris is lifted up by elevating trays. The debris hoppers are covered by a spraybox to eliminate unwanted spray. Depending on the application the removed debris is either washed and compacted, before being discharged into a skip, or re dewatered in a mesh basket.

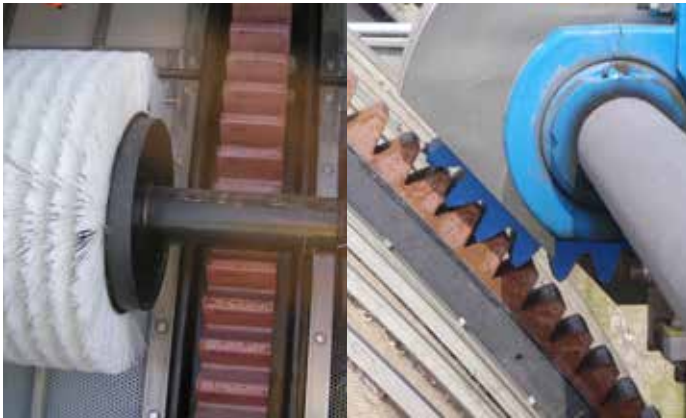
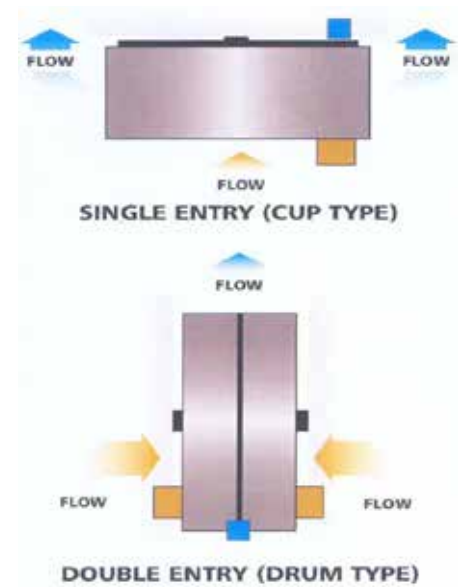


### Key Features:

- Simple and robust design to screen large volumes of water
- Perforated panels in steel or thick plastic depending on application
- Cup Screens from 1 metre diameter
- Drum Screens up to 18 metre diameter
- Screening down to 2mm where required
- Widths up to 4 metre
- Efficient sealing system – no carry over
- Standard material of construction is painted MS.

### Options:

- Single, dual or variable speed drive
- 304 or 316 Stainless steel main structure
- ATEX certified screens for use in hazardous areas
- Control panel and field cabling
- Rotating brush for enhanced panel cleaning on sewage applications.



Drum screens are designed to give the maximum hydraulic loading and run on substantial shafts, mounted in heavy duty roller bearings with sealing surfaces metal sprayed and ground to give long seal life. Cast iron racks mounted on the screen periphery engage with a high density nylon pinion giving long, trouble free life.



On all screens the influent is sealed from the effluent by efficient flexible neoprene rubber seals suitably shielded against mechanical damage and running on high density plastic seal flats.

## Process Equipment Division

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