

Travelling band screen

OVERVIEW

Travelling band screen is a device to remove fine debris that had passed through previous process of coarse screen. A series of baskets made up of mesh type materials, are forming an endless loop by head sprocket and chain roller. These baskets travel along the loop, collecting trash onto the baskets and as they reach the deck level, water is sprayed to the baskets, flushing the trash into the trench.

PURPOSE

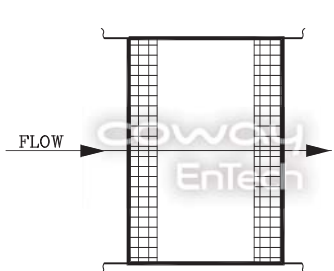
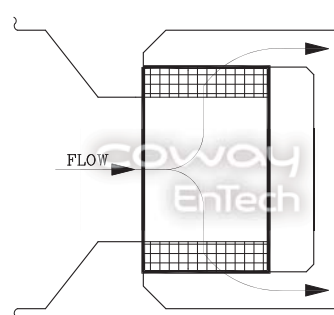
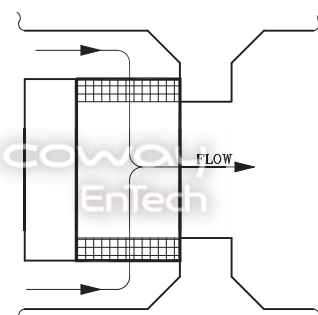
Main purpose of the fine screen system is to protect the main pumps and delicate part of the system at the end.

FEATURES

- Full automatic operation - reducing labor and operation cost
- Alarm system - protecting the system against high differential water level across the screen
- Custom-made with most optimized system design

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Traveling Band Screen flow arrangements

| | Thru Flow | Center Flow | Dual Flow |
|--------------------|--|--|--|
| Process |  |  |  |
| System Description | <p>The screening surface is oriented perpendicular to the flow, with only the ascending baskets utilized as available screening area.</p> | <p>Water enters the center of the screen structure and exits outward through the ascending and descending baskets.</p> | <p>Dual flow design is parallel to the flow, utilizing both the ascending and descending baskets as active screening area</p> |
| Features | <ul style="list-style-type: none"> - Simple and low cost of construction - Easy installation & maintenance - Compact design with simple and uncomplicated flow patterns | <ul style="list-style-type: none"> - Greater debris removal capacity than thru flow - Lower initial cost than dual flow - Small volume and pressure of water is required for spray - No potential for debris carryover | <ul style="list-style-type: none"> - Greater debris removal capacity than thru flow - Adaptive to handle large quantity of debris - Applicable to install fish protection system - No potential for debris carryover |
| Note | <ul style="list-style-type: none"> - Potential for debris carryover | <ul style="list-style-type: none"> - Complicated construction work | <ul style="list-style-type: none"> - Complicated construction work - Higher initial cost to center-flow type |