



E & I Corporation
a Division of McNish Corporation

Celebrating the Perfect Performance Record of Our Westerville's E & I Screen Installed in 1978

Backed By Perfect Performance Records

E & I Corporation is committed to providing the highest quality Traveling Water Screen available. For the 33 years, we've been backing up that claim with perfect performance records at installations like Westerville, Ohio.

33 Years With No Repair Parts

It's a birthday party for the Traveling Water Screen in Westerville, Ohio. They have had 33 years of uninterrupted service, screening an average of 7.5 MGD, without replacement of any major moving part. Westerville has a population of approximately 36,000 people. The water service goes to 13,000 metered homes, office buildings and light industry. The water source comes from the surface water in the Alum Creek River.

Materials of Construction

Head frame: Painted carbon steel

Mainframe: Painted carbon steel

Foot frame: Painted carbon steel

Sprockets: Carbon steel with hardened tooth inserts

Shafting: Cold rolled carbon steel

Covers: Fiberglass reinforced plastic

Main Chain: 24" pitch roller type with grease fittings



Project Overview

Client: City of Westerville, Ohio

Consultant: Burgess & Niple

Products: 1 Traveling Water Screen

Traveling Water Screen Statistics

Channel width: 4'-2"

Channel depth: 14'-0"

Basket width: 3'-0"

Basket cloth opening: 3/8"

Benefits

- 33 years of uninterrupted service
- No replacements of any major moving part
- Screening an average of 7.5 MGD
- Perfect performance records

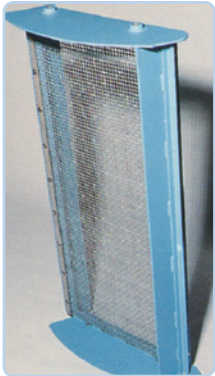


How Does it Work?

The device is simple yet rugged and consists of two strands of heavy-duty roller-chain which supports mesh baskets. The chain and basket assembly travels over head-shaft sprockets which are equipped with removable hardened teeth. The baskets continue around lower traction wheels, where seal plates maintain close tolerances; this eliminates the pass-through of debris. As submerged basket assembly becomes matted with debris, the screen is rotated, elevating the baskets to the enclosed headframe. There the debris is removed from the basket mesh by properly placed jet sprays of water and deposited into the refuse trough. Operation of the screen may be continuous or intermittent.

For detailed information please refer to the Water Screen tab in your E & I Corporation Sales manual.

Components



Left: Baskets

Below and Right:

Main Chain Headshaft Sprockets



Common Applications

- Power plants
- Industrial / chemical plants
- Water treatment plants

Benefits & Features Overview

- Comes fully assembled, tested and certified
- Rugged drop in type frame
- Simple yet heavy duty basket construction
- Range of basket mesh openings
- Heavy duty steel roller main chain
- Balanced drive system with shear pin protection
- Easily removable plexiglass doors

Industry Leader for 25 Years

E & I Corporation, a Division of McNish Corporation, remains the industry leader in specialized screening equipment for the municipal and industrial, water and wastewater markets. The numerous traveling water screens supplied over the past 33 years have been approved by major consulting engineers such as Black & Veatch, CDM, Hazen & Sawyer in addition to the U.S. Army Corps Of Engineers and U.S. Bureau Of Reclamation. Approval from these sources is a testimony to the high quality of engineering and fabrication required in the production of this product.

For more information about our company and product line, please call (614) 899-2282 or visit us on the web, at www.eandicorp.com.