

"The Sizing People"®



M E V®
Midwestern End Tension Vibrating Screener



877-4-SIZING (877-474-9464)

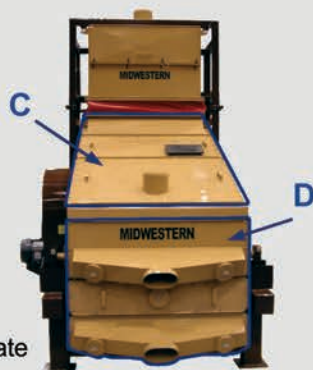
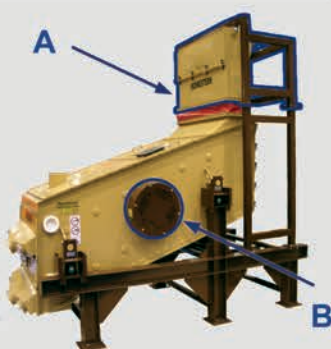
MEV[®] Screener

The high-frequency screens manufactured by Midwestern are utilized in many screening applications. From scalping applications to fine mesh screening, the MEV provides consistent performance and value. Available in a variety of sizes and screening decks to fit your application needs.



Component Description:

- A Material Distributor** - A material distributor is used to help the material disperse evenly across the entire width of the screening surface, maximizing screening efficiency.
- B Main Shaft** - Midwestern manufactures the MEV's main shaft and bearing housings in-house to ensure quality and precision while offering our customers the rugged durability they expect.
- C Total Enclosures** - Midwestern can manufacture your screener with total enclosures to reduce dust. An optional ventilation duct can be added for easy dust collection.
- D Discharge Chutes** - Easily customize material discharge chutes to accommodate your processing needs.
- E End-Tension Screens** - Permits screen change in just 15 minutes.
- F Unit Stand** - Our experienced staff can design a unit stand to accommodate most height requirements for easy installation.



The MEV high-frequency screener is a rectangular screener that utilizes an elliptical motion to convey material across the screening surface. Available in sizes three-foot by five-foot (3' x 5'), four-foot by eight-foot (4' x 8') and five-foot by ten-foot (5' x 10') with the availability of one to five screening decks, gives the MEV screener the versatility to meet your screening needs.

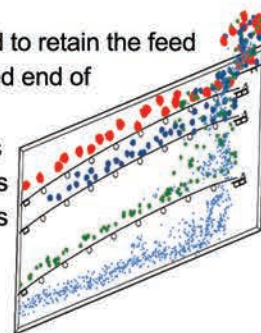
The MEV screener is designed to retain the material at the feed end for a short period of time then gently slopes near the discharge end assisting the material off the screening deck and into production.

This is achieved by the screener's unique parallel-arc configuration. Crossbars support the end-tensioned screens and create a flat screening surface maximizing the screening area.

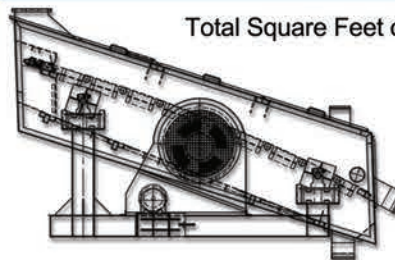
The end-tensioned screens used in the high-frequency screener simplifies the screen changing process. End-tensioning permits the use of square-opening and slotted screens and is accurately maintained by a spring-loaded draw bar. Users can make screen changes in just 15 minutes.

Material Flow Pattern

The screen decks of the MEV are designed to retain the feed material for a short period of time at the feed end of the machine to shake the smaller particles through the upper decks to the lower decks as soon as the material enters the unit. This gets the smaller particles to the lower decks as soon as possible, making the MEV a very precise and efficient screener while maintaining a high rate of production.



Total Square Feet of Screening Surface per Deck.



MODEL	Size	Sq. Feet
MEV	3' x 5'	15 sq/ft
MEV	4' x 8'	32 sq/ft
MEV	5' x 10'	50 sq/ft

Rectangular MEV® Accessories

Midwestern offers a variety of screening accessories to maximize your screening process. From anti-blinding devices to screen-heating transformers, Midwestern has the products and service experience to help assess your needs and supply the right equipment.



Material Distributor

Material distributors are available for both wet and dry applications to ensure even distribution of material over the width of the screens. Midwestern can further customize our distributor with added options; such as heating, non-stick coatings, slide gate, and an adjustable distribution plate for fine-tuning while on-site. They can also be added to existing units (see test facility picture on back).



Ball Trays

The ball trays will reduce blinding caused by near-size plugging of the wire cloth screens. Also, the secondary vibration caused by the bouncing balls against the screens helps to stratify the material for greater throughput resulting in higher levels of production.



Auto Lube

The automatic lubricator for the MEV screener is a mechanical system designed to supply the exact amount of grease at precise intervals to the screener's bearings. This system allows you to maximize the life of your bearings without the worry of maintenance schedules.



Spray Bars

Midwestern's spray bar system is comprised of a series of two-inch hollow bars with several spray nozzles aimed at the screening surface. The system is designed to help wash the fines away from oversized material.

Converta-Screen® Heating

Reduce screen plugging due to wet or damp material by adding a screen-heating transformer. The system can be added to an existing Midwestern high-frequency screener or installed to most other makes and models. This simple and effective process to eliminate blinding is a cost-effective way to maintain higher production rates.



Screen efficiency is often affected by moisture-induced blinding or moisture in the material being processed.

That's because cold wire mesh becomes easily clogged with a buildup of damp, fine material that causes the screen to blind. Attempting to clean your screens with hammers, chains, or using expensive specialty slotted screen panels, doesn't offer a permanent solution.

Damp, fine material tends to stick to cold wire mesh causing continuous buildup, closing the opening in the screen. These same damp particles will not adhere to a warm wire. Low-voltage, Converta-Screen electrical heating equipment heats the wire enough to keep the damp material from adhering to the wire, keeping the screen open and allowing the material to pass through.



Adding moisture can control dusty material that may be a health hazard or cause annoying clouds of airborne particulate. This dampness can clog an unheated screen, but with Converta-Screen Heating equipment the material is processed without interruption. Converta-Screen Heating is safe and shock-proof. All exposed conductors carry only as much voltage as a toy electric train.

By working closely with a Midwestern screening professional, we can help determine the best way to eliminate your moisture-induced blinding. Whether it's one deck or more, Midwestern's screen-heating system can improve your screening process.

Before Screen Heating



The damp material is plugging up the screening surface by adhering to the wire mesh, reducing the efficiency, capacity and overall performance of the screener.

After Screen Heating



By applying a low-voltage current through the screen mesh, the surface tension is broken and the damp material is unable to stick to the wire mesh.



Free Material Test Facility

Midwestern believes this is the best tool for our customers to make informed decisions about their screening process. The simple act of sending in material can save you time and money by purchasing the right equipment the first time.