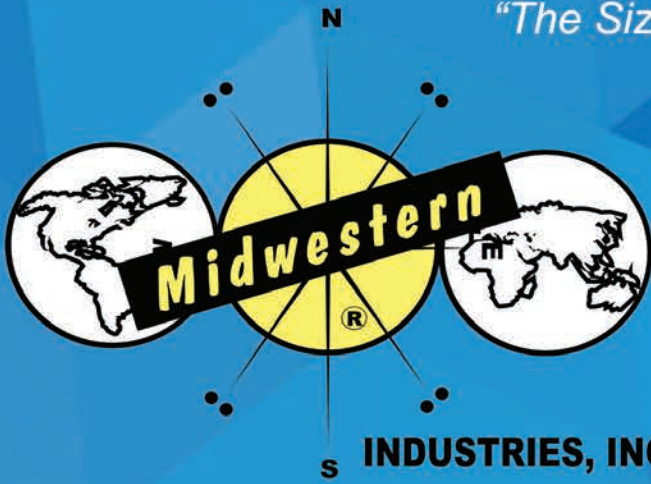


"The Sizing People"®



# Uni-Rod®



## Scalper / Screener / Grizzly





# Uni-Rod® Scalper/Screeners

The Midwestern Industries Uni-Rod is designed to scalp and screen materials in one pass. Manufactured with a unique three-tiered rod assembly, the Uni-Rod tackles even the toughest materials effectively.

This ruggedly designed scalper/screener is your solution for high capacity and less downtime. Steel rods paired with sizing screen cloth will effectively screen coal, limestone, oil shale, salt, coke, sand, gravel and other aggregate materials.

The self-cleaning Uni-Rod, with two decks, provides maximum output and less blinding. Midwestern's Uni-Rod is rated at a higher capacity than static scalpers, and with low maintenance and operation costs, this screener will be a valued investment for your operation.

The upper-deck of the screener consists of three tiers of spring-steel rods that are engineered with alternating levels for efficient clog-proof scalping. The lower deck is a conventional side-tensioned, center crown sizing deck utilizing two panels for material sizing.

The Uni-Rod scalper/screener gets vibration from two concentric electric motors with a total of 16.8 horsepower. The 3-phase, 60 hertz motors run at 1200 RPMs and are supplied with a dual motor starter.

- Combines both scalping and screening in one pass
- Available in two sizes: 4'x10' and 5'x10'
- Rod spacing catered to your material application
- High scalping capacity



Pictured: Midwestern's Uni-Rod working in conjunction with Imperial Technologies' Accelerator (adjustable speed impact breaker) selectively breaks ROM coal to controlled top size while the Uni-Rod removes the oversize rock impurities, making a higher quality, cleaner, sized raw coal product.

## Making an Informed Decision

Midwestern believes that our testing facility 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.

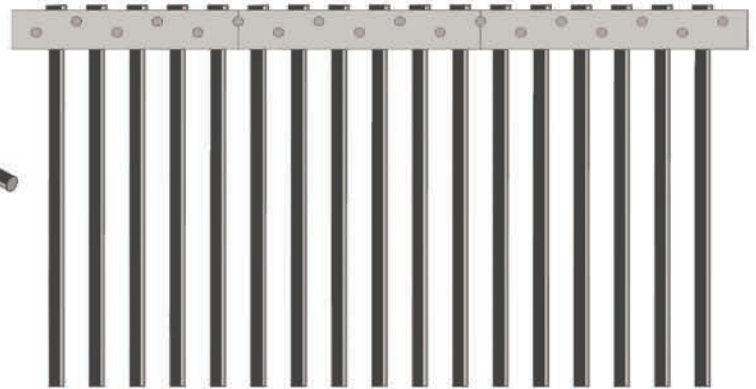




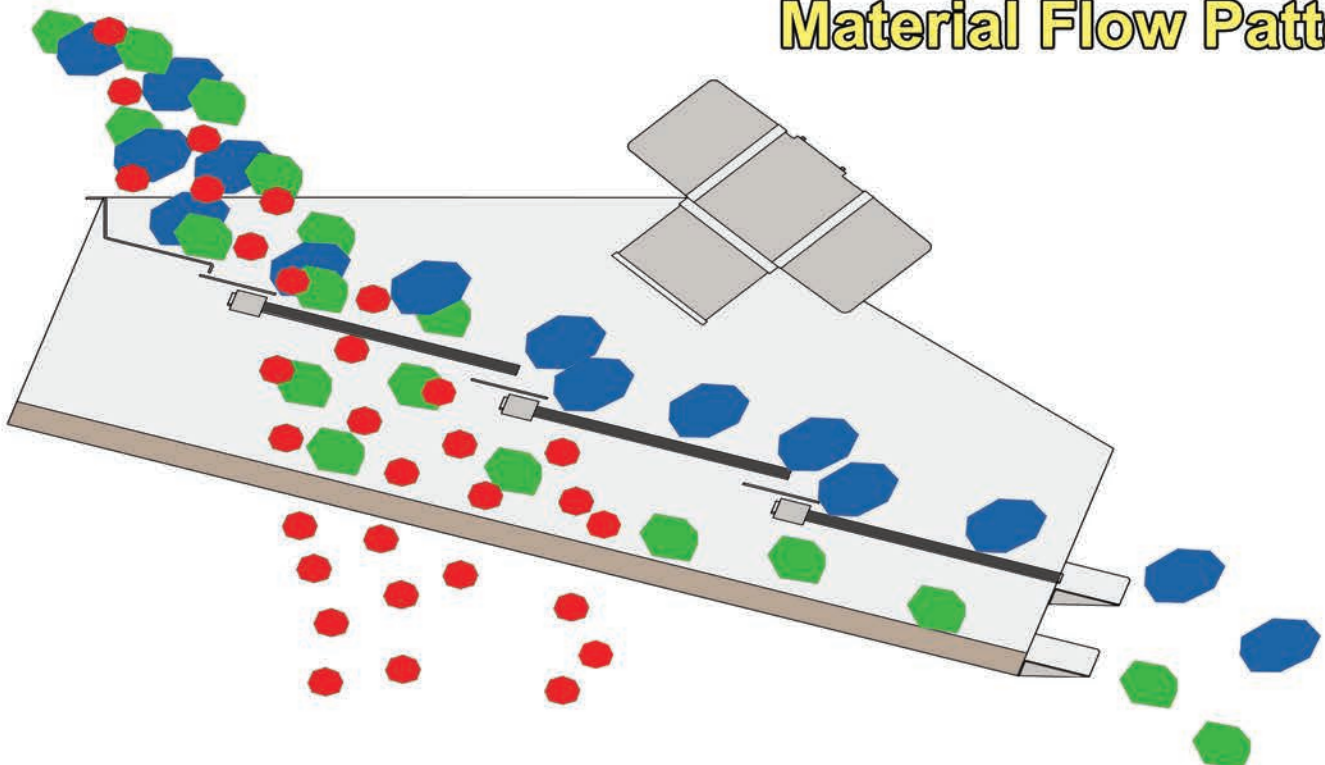
# Uni-Rod® Design

Midwestern's Uni-Rod is a powerful, high-frequency scalper/screener in a compact and rugged design. It is a heavy-duty solution for efficiently screening uneven material. The Uni-Rod's linear motion creates a unique combination of lift and throw.

The Uni-Rod effectively scalps materials in a mixed particle stream by employing a refined technique of vibrating spring steel rods. Unique arrangement of the rods in three tiers allows an intermediate break of feed materials. Rods are anchored at one end and are cantilevered to provide a secondary magnified vibration. The active rod deck allows for a higher hourly tonnage.



## Material Flow Pattern





# Custom Wire Weaver

To insure durability and longevity with our screen panels, Midwestern weaves our own wire cloth to the highest specifications. Offering a large variety of woven wire screen cloth including high carbon, oil tempered, type 304 and 316 stainless steel, and type 430 magnetic stainless steel. Midwestern can accommodate your screening applications with quality products and on-time deliveries.



## Interkleen® Screens

An elongated slotted screen with triple shoot construction designed to maximize throughput.

## KLEAR-SCREENS

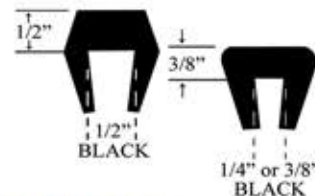
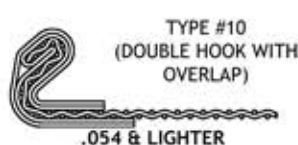
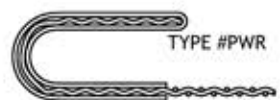
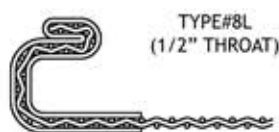
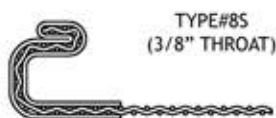
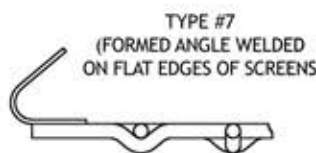
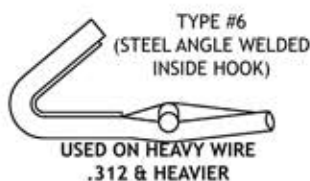
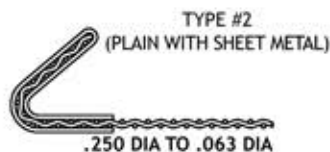
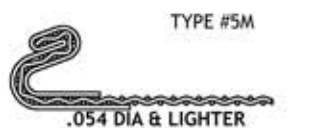
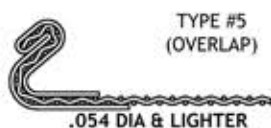
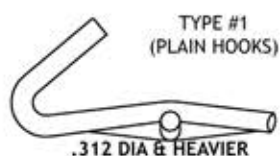
Self-cleaning wire screens available in three types of screen styles and individually manufactured to required size and specifications. Designed for most makes and models.

## Slotted Screens

Slotted screens offer greater throughput by increasing the amount of open area. Available with single shoot or triple shoot construction.

## Standard Wire Diameters

| Diameter<br>In Inches | Millimeters | Gauge<br>Number |
|-----------------------|-------------|-----------------|
| .500                  | 12.700      |                 |
| .4375                 | 11.113      |                 |
| .375                  | 9.525       |                 |
| .3125                 | 7.93        |                 |
| .250                  | 6.350       | 3               |
| .207                  | 5.258       | 5               |
| .192                  | 4.877       | 6               |
| .177                  | 4.496       | 7               |
| .162                  | 4.115       | 8               |
| .148                  | 3.759       | 9               |
| .135                  | 3.429       | 10              |
| .120                  | 3.048       | 11              |
| .105                  | 2.667       | 12              |
| .092                  | 2.337       | 13              |
| .080                  | 2.032       | 14              |
| .072                  | 1.829       | 15              |
| .063                  | 1.600       | 16              |
| .054                  | 1.372       | 17              |
| .047                  | 1.194       | 18              |
| .041                  | 1.041       | 19              |
| .035                  | .889        | 20              |
| .032                  | .813        | 21              |
| .028                  | .711        | 22              |



## Crown Bar Rubber

Midwestern offers crown-bar rubber, in stock, ready for immediate shipment.



## Side Rails

Midwestern can manufacture side rails for nearly every make and model of rectangular screeners.



## Carriage Bolts

**Note:** For hook types not shown above, please consult our sales team. Almost any type of hook can be supplied.