

# OmniScreen



**‘A revolution in screening technology’**

# Omniscreen - A revolution in screening technology

- Modular
- Low Mass
- Large screen area
- Easy Installation
- Linear Motion
- High acceleration
- Low maintenance

The patented Vibrating Assembly provides customised screening performance. The OmniScreen's unique vibrating assembly and modular concept have resulted in a linear motion screen that can operate at substantial higher acceleration providing unparalleled flexibility and screening efficiency.



## Modular Concept

### Optimise Slope

The modules can be arranged in horizontal, inclined or multislope configurations or in a combination thereof.

### Optimise Acceleration

Each module can be tuned to provide specific acceleration of between 4-7g, to maximise screening capacity and efficiency, eliminate blinding, reduce recirculating loads and minimise degradation. Wet or dry the Omniscreen offers superior performance. Exciter mass adjustment from 60 -100% amplitude is quick and simple - no special tools or skills required.

### Customise the screen panels

Customise the screen decks on each module. Take into account changing slopes, changing speeds and accelerations, scalping or sizing, wet or dry. Using polyurethane, rubber or wire screen media, producing the right size product has never been easier.

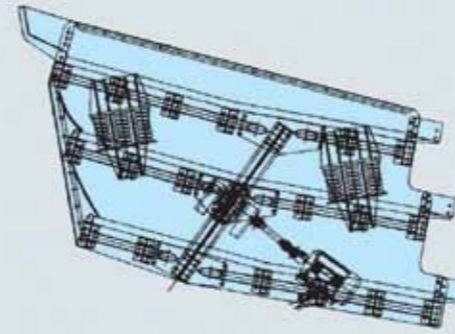
### Benefit Highlights

- Higher Capacity
- Excellent screening efficiency

### Patented Drive Mechanism

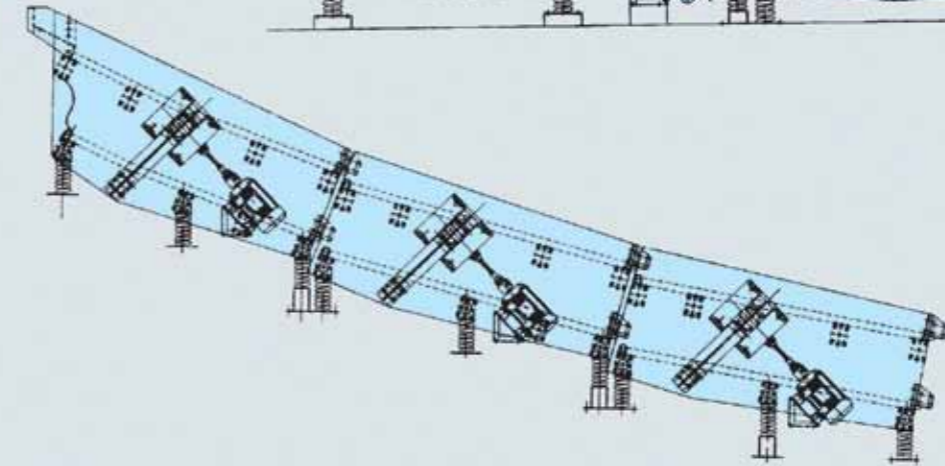
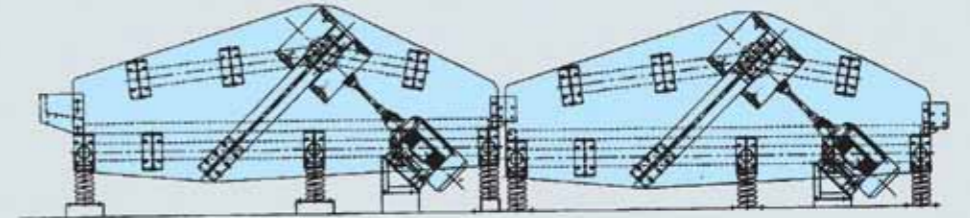
The patented drive mechanism is the heart of the Omniscreen. Many of the benefits are made possible by the unique VIBRATING ASSEMBLY. The compact and incredibly strong assembly is a simple solution to contain the lateral tension and compression forces. This makes it possible to run the Omniscreen continuously at up to 7g if required. Particularly difficult or sticky applications can have intermittent acceleration up to 10g with the addition of a Vari-Speed drive.

## Screen arrangements



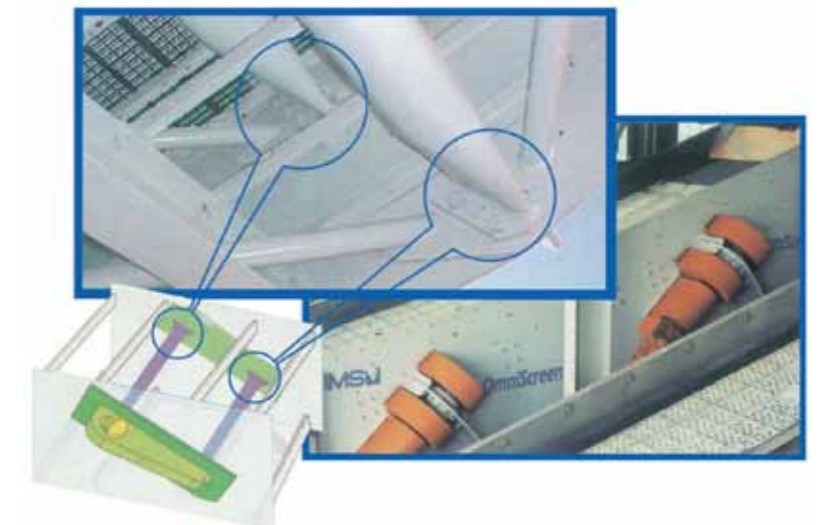
- Horizontal
- Inclined
- Multislope / Banana

- Single deck
- Double deck
- Triple deck
- Multideck / Sizer



### How the drive works

- The vibrators are fixed to a structure that is both independent and much stronger than the other structural parts, which contains and controls the lateral tension and compression forces.
- The vibrating assembly is mounted at 45 degrees to the screendeck.
- The vibrators are driven by contra-rotating motors via a cardan shaft. The motors are mounted separately on the exterior of the screen.
- The vibrators are self synchronising thus no interconnecting drives are required,
- The side plates are sandwiched between the flanges of the VIBRATING ASSEMBLY.



# OmniScreen Installation Benefits



## Installations

- New installations mean reduced structural requirements.
- Reduced vibrating mass means lower dynamic loads.
- Old plants retrofitted with confidence
- Easy installation as compact modules are easy to handle and install.

## Benefits

- Reduced structural / support costs
- Lower installation power
- Simplified installation

## OmniScreen Specifications

- Screen Sizes           Width 1.5 to > 3.0m (5' - >10')
- Length 2.0m to > 9.0m ( 6' - > 30')
- No. of Modules       1, 2, 3
- No. of decks          1, 2, 3 and special designs
- Slope                  Horizontal, inclined and multislope
- Screen gradient      -5° to 30°
- Process for           Scalping, sizing, washing, dewatering
- Acceleration         4 -7g
- Frequency            750 - 1500 rpm
- Screen Mass          2-8 tonnes/module

