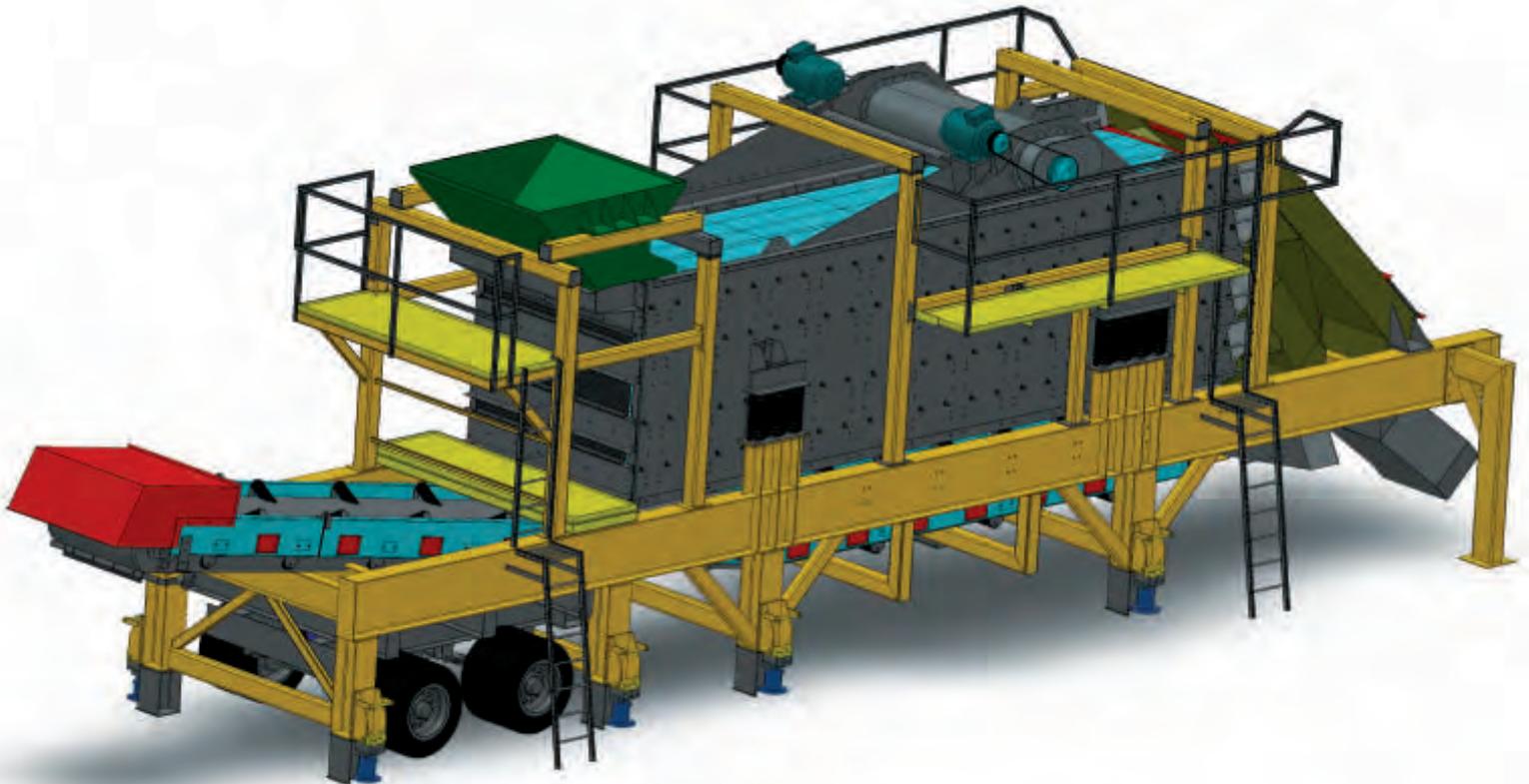


# MS 1872



MINING



AGGREGATES



FOUNDRY



IRON & STEEL

## Features

### Vibrating Screen Wheel Mounted HRS1872

Hewitt Robins Heavy Duty Eliptex 1.8 x 7.2 Quad Deck Screen, designed for maximum throughput and high efficiency

- ▶ Model : HRI Eliptex 1.8 x 7.2 4D
- ▶ Type : Horizontal linear motion
- ▶ Design : Spring mounted Vibrating Screen
- ▶ Decks : Four
- ▶ Length : 7200mm
- ▶ Width : 1800mm
- ▶ Screen media : High Carbon Woven Wire

- ▶ Mechanism : Geared parallel inertia shafts (weighted) oil lubricated
- ▶ Motor : 37Kw x 1480rpm TEFC sq.cage induction Motor
- ▶ Drive : Through V belts
- ▶ Control : Variable speed control
- ▶ Lubrication : Roller bearings, oil lubricated

#### Operator's Platform

Steel Grid construction to gain easy access to screen for maintenance

#### Chassis

Straight rolled steel section chassis

Two axel running gear having elliptical leaf springs and pneumatic tyres in twin formation.

Two Line air pressure brakes complete with hoses and couplings with a hand parking brake.

50mm (2") dia King Pin

Support legs with detachable feet (customer to provide timber baulks or PCC concrete block as required)

#### Screen Discharge Chutes

The discharge chute is designed to be rotated to any angle allowing the discharge conveyor to direct feed to another machine in close circuit or to stockpile.

#### Guarding

Suitable metal guards provided around drive.

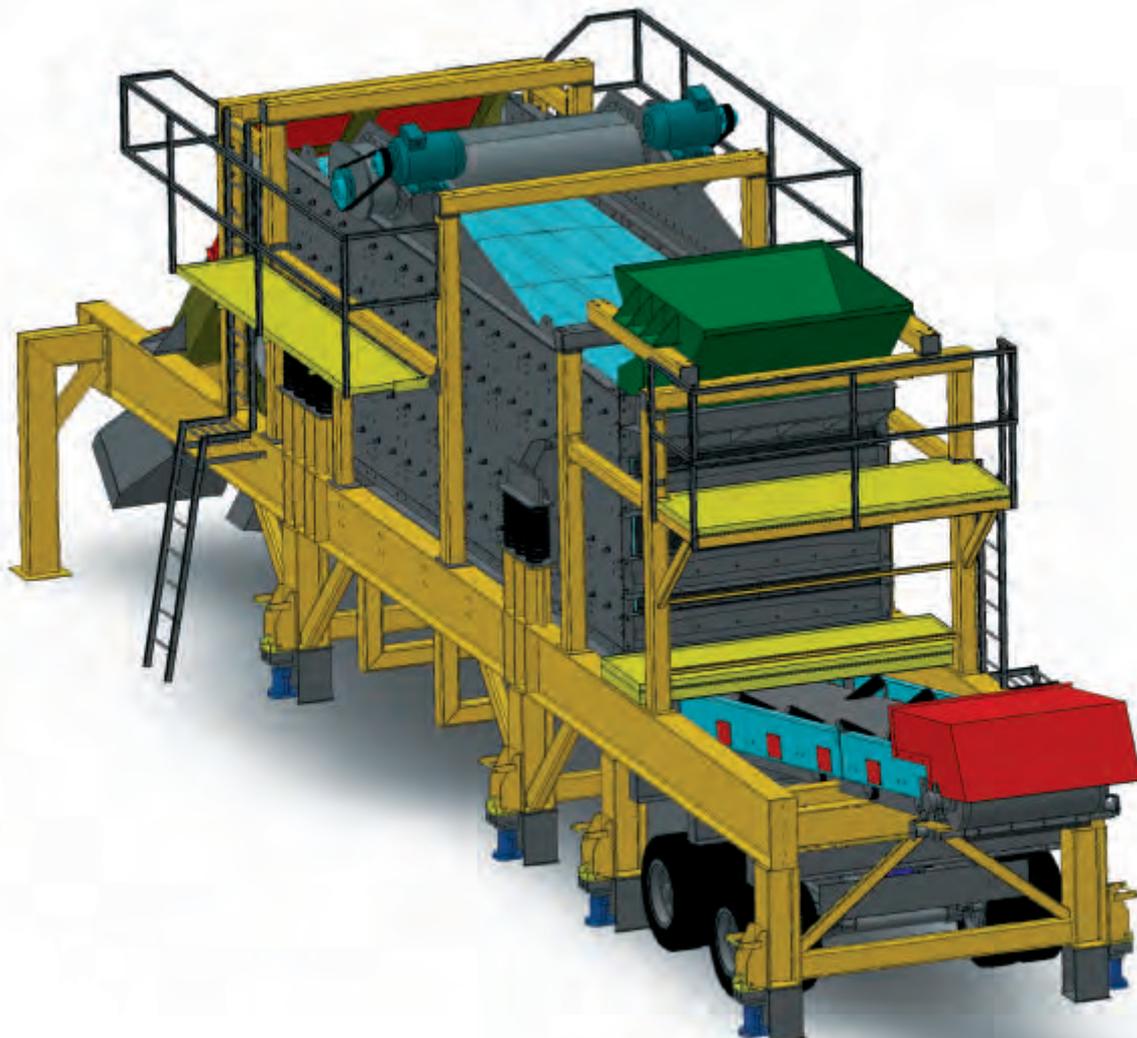
#### Controls

The following controls are mounted on the plant:

- i) Controls mounted on operators platform
  - a) Screen stop start
  - b) Discharge conveyor start
  - c) Feed conveyor stop start
  - d) Stockpile conveyors stop start
  - e) Emergency stop button
- ii) Controls mounted on the chassis:
  - a) Emergency stop (one located on each side of the plant)

#### Onboard Conveyor

- i) 100mm wide
- ii) 12500mm long



Isometric view showing MS 1872

The MS1872 incorporates the Hewitt Robins Eliptex Vibrator units which imparts a three-way motion to the screens.

- ▶ The Hewitt Robins Eliptex vibrator unit has a worldwide reputation for unmatched reliability, long life and minimal servicing.
- ▶ The linear motion achieved from the 2, 4 or even 8 eccentric shafts provides higher capacity screening and gives a cleaner product.
- ▶ The simple construction, rugged design and high quality components assures extra long wear life.

The linear motion quickly stratifies and turns material so that all sides of a particle are exposed to the deck openings. The result is a thorough screening, washing, dewatering and more accurate sizing.



**Vibrating Screen in action**

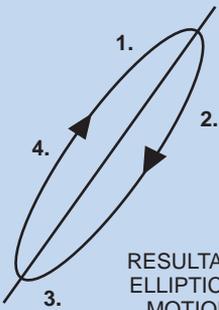
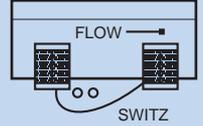
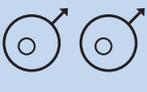
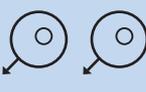
**VIBRATOR SHAFTS**  
Each tough, eccentric, vibrator shaft is precision - machined from 1045 steel for extra-long service life. Provision for 2, 4 or even 8 shafts.

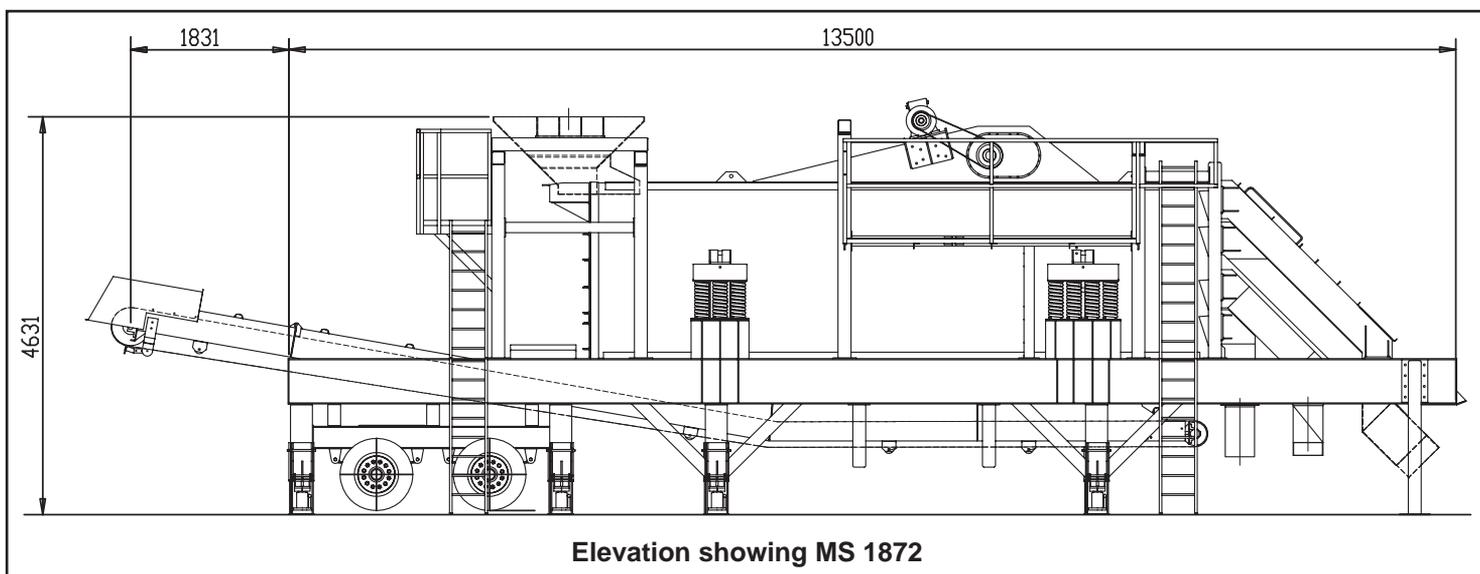
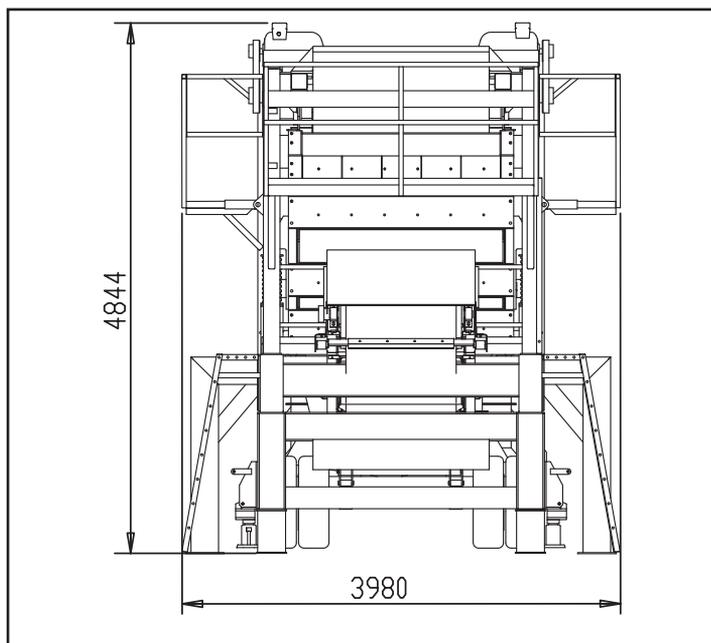
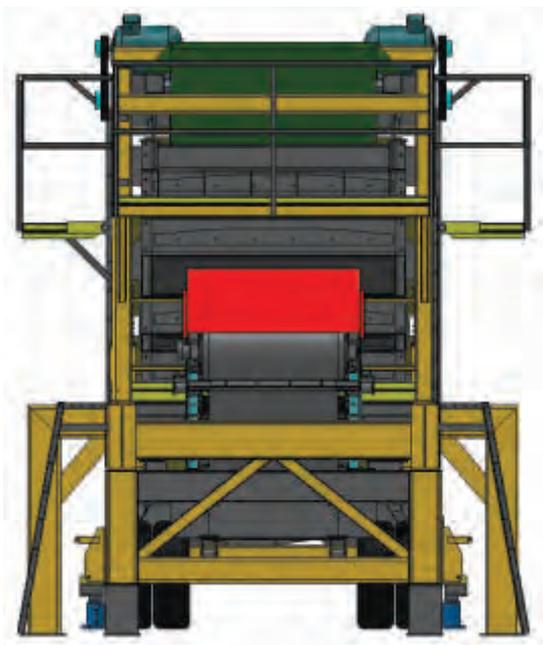
**WIDE-FACE HELICAL GEARS**  
Timing gears are premium-quality, single helical design precision-cut from 4140 heat-treated steel. Wide-faced gear teeth distribute load much more effectively than spur gears and promote, smooth, quiet, long-lived operation under heavy loading.

**OIL FLINGER**  
Retains oil and prevents contaminants from entering vibrator mechanism. Seals and seal sleeves are easily replaceable when worn.

**OIL-SPLASH LUBRICATION**  
Through-flow, oil splash system provides superior lubrication of gears and bearings. Large oil reservoir extending the entire length of the vibrator housing dissipates heat rapidly, lowers bearing temperatures for longer bearing service life.

**Eliptex Vibrator**

<b>EXCLUSIVE ELLIPTICAL MOTION</b>						
ROTATION	45 - 45	135 - 315	225 - 225	315 - 135	 <p>RESULTANT ELLIPTICAL MOTION</p>	 <p>SHAFTS MOUNTED IN HORIZONTAL PLANE</p>
POSITION OF ECCENTRIC SHAFTS						
RESULTANT FORCES	 THROW FORCE	 COUPLE EFFECT	 DOWNWARD FORCE	 COUPLE EFFECT		



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