



# ASTEC MOBILE SCREENS

PRODUCTIVITY AND EFFICIENCY REDEFINED



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## OVERVIEW

Astec Mobile Screen's product line offers the PEP series of Vari-Vibe® and Duo-Vibe® high frequency screens in Single, Double and Triple Deck screen configurations.

The advantages of a high frequency screen include higher production capabilities with more efficient sizing - achieved by aggressive screen vibrations directly applied to the screen media and the high level of vibrating RPMs allow for material to stratify and separate at a much faster rate as compared to conventional screens.

Configurations available are Stationary, Portable and Mobile depending on the needs of the customer. ASTEC MOBILE SCREENS are brought to you in India by TIL LTD.



### Vari-Vibe Screens

- Ideal for post screening
- Screen Vibration: all decks operate up to 4200 RPM (3 - 4X faster than conventional screens)
- Available in single to triple deck configurations
- Electric or hydraulically driven
- Operating Angle: 38° - 45°
- Screen sizes from 6' x 6' to 6' x 24'
- Achieves highest screen capacity for fines removal, chip sizing, dry manufactured sand

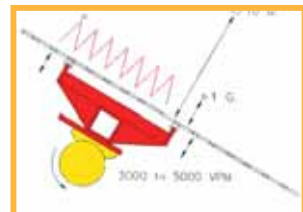


### Duo-Vibe Screens

- Ideal for pre screening
- Combination Screen Vibration: 1200 RPM - top deck Scalper Up to 4200 RPM - bottom deck(s) high frequency
- Available in double to triple deck configurations
- Electric or hydraulically driven
- Operating Angle: 38° - 45°
- Top deck: Screen sizes from 5' x 10' to 5' x 15'
- Bottom deck: Screen sizes from 6' x 12' to 6' x 24'
- Helps in improving production by removing fines from coarser material

## Salient features

- Lighter structural support required as compared to a conventional screen
- Static body frame and a vibrating screening media - results in higher productivity and efficiency
- Higher life of screening media as it operates on lesser amplitude (0.5mm - 3.0mm) and higher frequency (0 - 4200 rpm)
- Material travel speeds are 3 to 4 times faster than conventional screen
- Coarser particles are lifted higher and finer particles stay closer to the screening media thereby helping in better stratification and increasing screening efficiency
- Unique construction –
  - Multiple vibrators (electric or hydraulic option) with the individual vibrators that can be set to different frequencies depending upon location and functioning of the screen
  - Patented Rotary Tensioned device, takes a few seconds to tension the screening media. All are end tensioned screens. Allows easy access for maintenance and improves production time. Faster screen cloth replacement times
  - Variable slope from 38° to 45°
- Lower power consumption - for a 200 TPH screen, electrical motor power required is 15 KW



## Applications of High Frequency Screens

- Manufactured sand 1/4" - 20M (6.4mm- 0.8mm)
- Iron Ore Fines
- Recycled Asphalt (RAP) 3/4" - 3/16" (19.1mm - 4.8mm)
- Asphalt Chips 3/4" - 1/4" (19.0mm - 6.4mm)
- Concrete stone 1/4" - 20M (6.4mm - 0.8mm)
- Ag-lime (fertilizer filler) 12M - 30M (1.6mm - 0.6mm)
- Coal 3" - 10M (76.2mm - 2.0mm)
- Specialty products: roofing granules, slag processing, filler material

## Models

<b>1618V</b>	Single Deck: 6' x 18' top deck Three (3) - 6' x 6' panels on the top deck Weight.....5,600 lbs.*
<b>2618V</b>	Double Deck: 6' x 18' top & bottom decks Three (3) - 6' x 6' panels on the top deck Three (3) - 6' x 6' panels on the bottom deck Weight.....11,000 lbs.*
<b>2618VM</b>	Double Deck: 6' x 18' top deck ; 6' x 12' bottom deck Three (3) - 6' x 6' panels on the top deck Two (2) - 6' x 6' panels on modified bottom deck Weight.....10,000 lbs.*
<b>3618VM</b>	Triple Deck: 6' x 18' top & middle decks ; 6' x 12' bottom deck Three (3) - 6' x 6' panels on the top deck Three (3) - 6' x 6' panels on the middle deck Two (2) - 6' x 6' panels on modified bottom deck Weight.....13,000 lbs.*

\*Weights include all chutes and hoppers

## Stationary Plants

### **I-Beam Structure** - (Models - 2624VM)

- Post-screening application
- Vari-Vibe, Duo-Vibe High Frequency Screens

### **Modular Tower Structure screen** - (Models - 2618VM)

- Post-screening application
- Vari-Vibe, Duo-Vibe High Frequency Screens

### **STS Series** - (Models - 2618VM)

- Fractionating recycled asphalt material
- Vari-Vibe, Duo-Vibe High Frequency Screens



## Other options

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**Fold 'n Go Series** - Multi-product wheeled & track mobile screening plant (MODELS: 2612V, 2612D)

- Three on-board stackers
  - Diesel/Hydraulic, operational in as little as 15 minutes
  - In double deck PEP Vari-Vibe® and PEP Duo-Vibe®
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**PSP Series** - Mobile screening plant (MODELS: 2618VM)

- On-board transfer conveyors
  - On-board gen-set
  - Powers up to 3 stacking conveyors
  - Available in PEP Vari-Vibe® screen
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**PDF Series** - Multi-product track mobile screening plant (MODELS: 2618VMT)

- On-board transfer conveyors
  - Powers up to 3 stacking conveyors
  - Available in PEP Vari-Vibe® screen
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**FT Series** - Mobile screening plant (MODELS: 2612V, 2612D)

- Without on-board conveyors
  - Diesel/Hydraulic, Gen- Set, Electric Power Driven
  - Powers two radial stacking conveyors
  - Available in Single/Double/Triple deck Vari-Vibe® and Duo-Vibe®
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**PTSC Series** - Portable screening plant (MODELS: 1612V, 1618V, 2612V, 2618VM, 2612D, 3612D)

- Use in existing circuits
  - On-board receiving hopper
  - Ideal for chip sizing, fine aggregate production
  - Available in Single/Double/Triple deck PEP Vari-Vibe® and PEP Duo-Vibe® screens
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**SUPER SERIES III** - Portable screening plant (MODELS: IIID)

- PEP screen effectively relieves triple deck horizontal screen
- Fines removal before material sizing
- Use in existing circuits

**STATIONARY PLANT**



**PORTABLE PLANT**



**MOBILE PLANT**





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