



BIVITEC[®]
SCREENING SOLUTIONS



Benefits

BIVITEC® was developed to screen even the most difficult materials. Conventional vibrating screens and trommels are very limited when screening materials that cause build-up, which results in clogging or blinding of the screen openings. BIVITEC® dual-vibratory screening process eliminates clogging and blinding of the screen openings to save downtime and increase productivity.

Applications once judged impossible can now be accomplished with the BIVITEC® screen.



BIVITEC® Banana Screen



2.5 Deck BIVITEC® HD



The BIVITEC® SOLUTION

Advantages

- Ability to fine screen moist material
- Eliminates blinding and plugging
- High capacity – large effective screening area
- Highly wear-resistant polyurethane screen mats
- Rugged construction, long life, low maintenance
- Highly flexible for varying material conditions
- Effective in all weather conditions and harsh environments
- Low energy usage

BIVITEC® proves to be the best solution for screening:

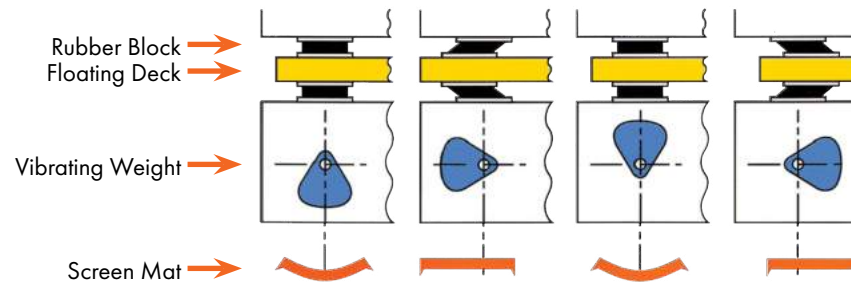
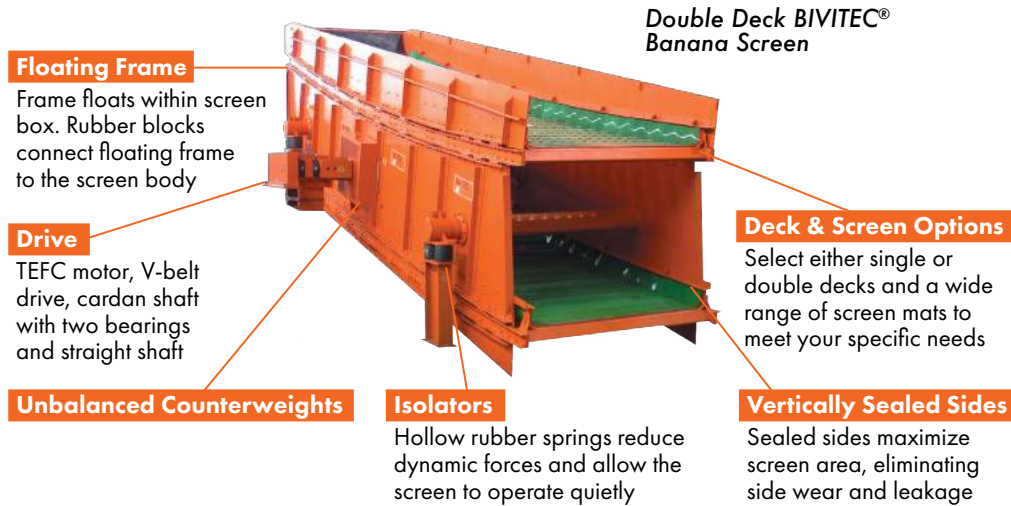
- Manufactured sands, chips, and lime
- High-moisture materials combined with silt, mud and clay
- Incinerator ash, trash, waste coal, clay, sand and slag
- Compost, leafy materials, wood waste and peat moss
- Auto shredder fluff, shredded tires, roofing shingles, metals, glass, C&D waste, and RDF



The BIVITEC® Operating Principle

Dual vibration from a single drive is the unique feature of BIVITEC® Screens. Two weights, vibrating at the same frequency, move relative to each other which tensions and relaxes the screen mats. The linear motion of both vibrating movements is adjustable, resulting in open screen surfaces and optimal screening performance. The banana design allows for maximum tonnage by maintaining a consistent material bed-depth across the entire length of the screen.

To ensure the most effective screening, high-acceleration forces must be transferred to the feed material. BIVITEC® Screens achieve high forces by dynamically tensioning and relaxing the flexible screen mats using a dual vibration principle. Enhanced by resonance, a single drive can produce two vibration movements. The screen box is accelerated approximately 2g's while the screen mats can receive up to 50g's.



BIVITEC® Testing & Sizing

To properly size the BIVITEC® for each individual application, the following factors must be considered:

- material type
- moisture content
- feed gradation,
- product specifications
- capacity

AEI conducts testing on the customer's site to ensure actual material and operating conditions. The BIVITEC® Portable Test Plant is totally self-contained and road-legal; a tandem axle tractor is required to move the machine. The unit has variable-speed controllers. Screen panels with multiple size openings are available for every test. AEI will recommend the best machine for your application.



Made in USA for Over 25 Years



BIVITEC® Portable Test Plant



BIVITEC® Portable Screen

Options

Deck Options

- BIVITEC® mesh sizes range from 100 mesh to 4"
- Wire cloth, urethane, finger, 3D and other conventional scalping decks can be combined with the BIVITEC® system
- LL Design for bulky materials: Double the panel width and double the stroke
- Banana design: Curved deck with steeper angle on feed end and lesser angle on discharge, provides increased capacity and efficiency
- Available in single deck, half deck, double deck and rigid scalping deck (HD)

Screen Options

- Each screen is built to fit the customer's unique specifications. The BIVITEC® is available in size ranges from 800mm x 3m (3' x 10') to 3000mm x 12m (10' x 40')
- 1,2,3 and 4 deck screens available
- Half deck configuration allows multiple cuts in a single deck
- BIVITEC® is available in both portable and static configurations



*2400x9 and 1000x3 shown



KRL/ED 1600 x 5m
• Single Deck 5' x 16'



KRL/ED 'B' 1900 x 9m
• Single Deck 6' x 30'
• Banana (B) design for more capacity and efficiency



KRL/DD 2400 x 8m
• Double Deck 8' x 27'



KRL/DD 'B' 1900 x 7m
• Double Deck 6' x 23'
• Banana (B) design for more capacity and efficiency



KRL/DD 'B' 3000 x 12m
• Double Deck 10' x 40'
• Banana (B) design for more capacity and efficiency



KRLL/DD (2.5) 1900 x 6m
• Double Deck 6' x 20'
• Two cuts on top deck with conveying deck underneath
• Wider Panels



KRL/ED HD 1600 x 6m
• Fixed metal deck designed for recycled materials plus metals
• BIVITEC bottom deck for fines separation



KRL/DDS HD 2400 x 7m
• 'SP' decks at different angles
• HD conventional scalping deck



3 Deck BIVITEC®



4 Deck BIVITEC®



KRS/ED 1600 x 6m
• Conventional screen
• Stepped deck to turn material



KRS/ED 3000 x 8m
• 3D deck to resist difficult materials
• Fingers and cascade design to turn material/ designed for MSW



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AEI engineers and manufactures complete material processing systems including: conveyors, supports, and structures.

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