

# **AEI** bivi-TEC® Vibratory Flip Screen



Effective Screening for the Most Difficult Materials.



## The Task

There is a growing need to classify waste materials, raw materials, semi-finished products, and finished products more effectively. Conventional vibrating screens and trommel screens can be limited when screening materials that cause a buildup on the screen, which results in clogging or blinding of the screen openings. The bivi-TEC® vibratory screen was developed to screen even the most difficult materials, including:

- ✓ High-moisture materials such as silt, mud, shale, and clay
- ✓ Compost, leafy materials, wood waste, and peat moss
- ✓ Incinerator ash, trash, waste coal, clayey sand, and slag
- ✓ Auto shredder fluff, shredded tires, and roofing shingles
- ✓ Manufactured sand from screening

## The bivi-TEC® Solution

Dual vibration from a single drive is the unique feature of the bivi-TEC® Screen. 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.

## Operating Principles

To assure the most effective screening, high-acceleration forces must be transferred to the feed material. The bivi-TEC® Screen achieves these high forces by dynamically tensioning and relaxing the flexible screen mats using a dual-vibration principle.

Enhanced by resonance, one drive can produce two vibration movements. The screen box is accelerated approximately 2g's while the screen mats can receive up to 50g's. Applications once thought to be impossible, can now be achieved with the bivi-TEC® screen.



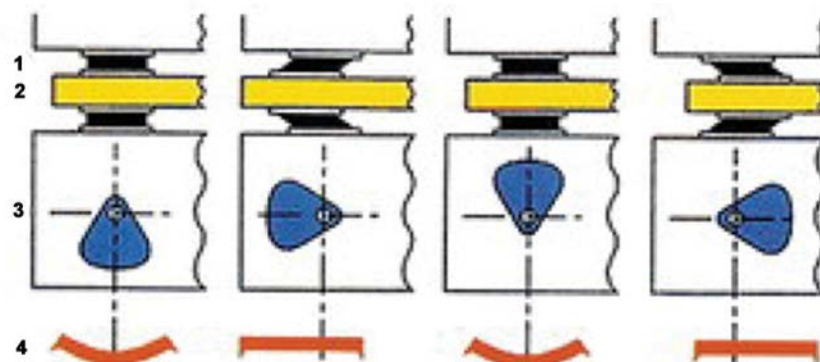
## Sized to Fit Your Needs

The bivi-TEC® is available in sizes ranging from 800mm X 3M (3' X 10') to 2400mm X 9M (8' X 30')

### Other Available Options

Single Deck	Double Deck
Half Deck	Portable / Stationary Units
Rigid Scalping Deck	

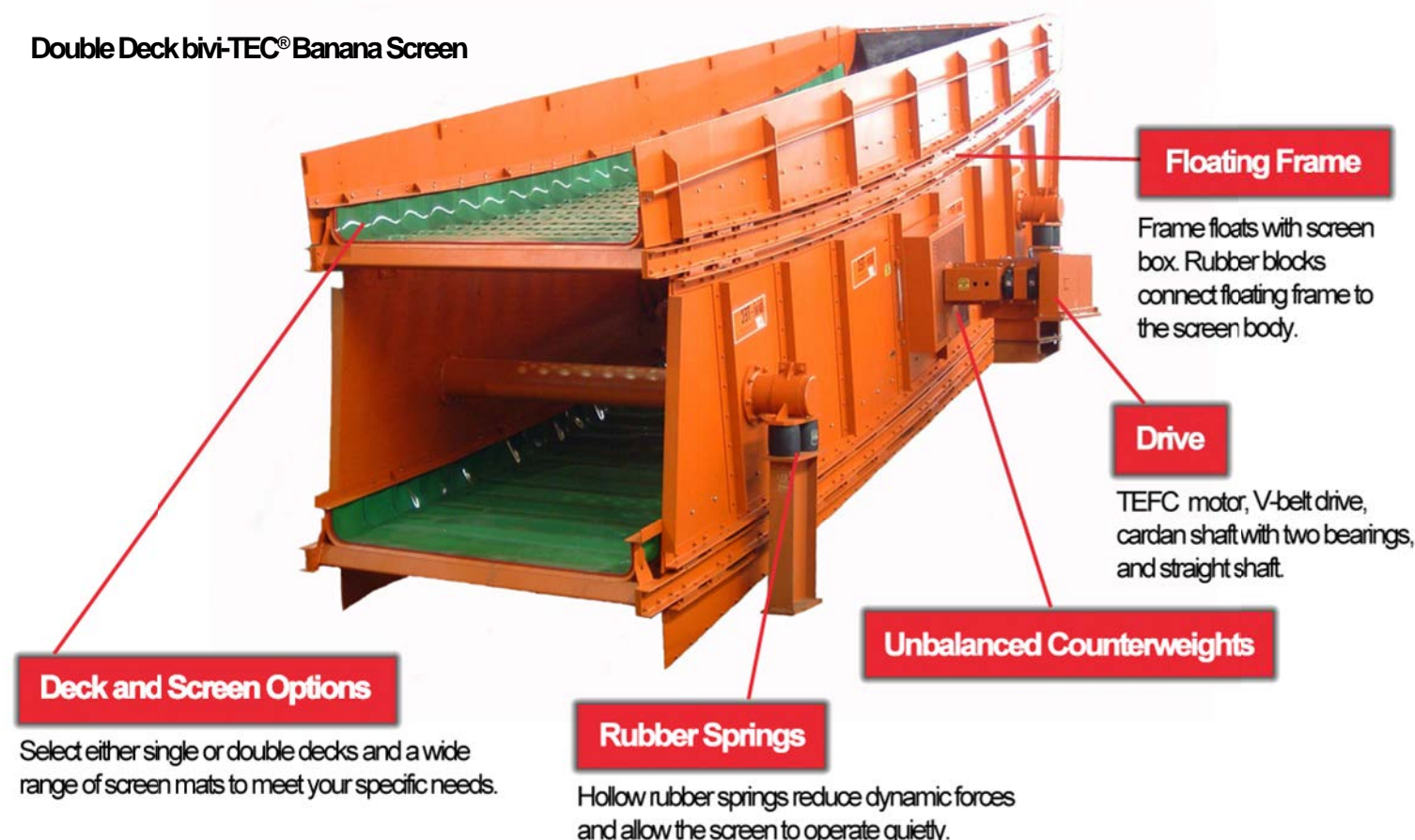
Each bivi-TEC® vibratory screen is built to fit YOUR needs.



1 Rubber Block  
2 Floating Deck

3 Vibrating Weight  
4 Screen Mat

## Double Deck bivi-TEC® Banana Screen



## The bivi-TEC® Advantage

- ✓ Fine screening of very moist material
- ✓ Capable of separating below #50 mesh
- ✓ Disagglomerates clogging material
- ✓ Large effective screening area - high capacity
- ✓ Effective in all weather conditions
- ✓ Flexible - Can be adjusted for varying material requirements
- ✓ High-wear-resistant polyurethane screen mats
- ✓ Rugged construction - long life
- ✓ Low horsepower
- ✓ Low profile

## Testing & Demonstration

To properly size the bivi-TEC for each individual application, the following factors must be considered: material type, feed gradation, product specifications, moisture content, and required capacity.

## bivi-TEC® Screen Mats

The bivi-TEC screens are designed for screen cuts of 0.3 mm to 50.0 mm. The boltless attachment of polyurethane mats guarantees effective screening, easy screen mat changes, and elimination of clogging. The 13" wide mats offer greater flexibility in tuning the screen to achieve the final product - resulting in a lower replacement cost.

### Installation

The screen mats are placed into the cross members and locked into place by driving in the rubber wedge strip.

### Removal

The screen mats are released by driving down a corner of the wedge strip, followed by an easy pull on the mat.



## Who we are

General Kinematics is the premier manufacturer of vibrating equipment for the processing of bulk materials. From vibratory feeders to entire process systems, GK can create the solution you require to process even the most difficult materials.

## What we do

No company in the field of vibratory equipment has consistently produced more innovative equipment ideas and problem solving application techniques than General Kinematics. For more than five decades we've maintained a solid reputation for design leadership – with exclusive vibratory drive systems, simplified spring reactor systems, and the most rugged and reliable construction available. Thousands of application tailored technical advancements have made General Kinematics' vibratory feeders and equipment excel in the most difficult environments.

## Why buy from GK

When facing the decision of purchasing capital equipment, a lot is on the line. Will the equipment work as promised? Will the equipment be reliable? Will it be a maintenance nightmare? What if it doesn't work? General Kinematics has proven through one successful installation to the next that our solutions reduce your risk of buying while helping to improve your process and increase profit to your bottom line.

## GK Highlights

- Extensive install base: 40,000+ installations in 35 countries.
- 24/7/365 customer service and support, with the ability to have a GK service representative on-site anywhere in the world in under 22 hours.
- Available same day shipping on all off the shelf, in-stock components.
- Industry leadership in innovation... 4 times the patents than the next leading vibratory equipment manufacturer.
- General Kinematics has the largest install base of vibratory foundry equipment in the world.
- All U.S. and many leading European automotive manufacturers choose General Kinematics vibratory equipment to solve their vibratory process solution needs.
- 100% Process Guarantee: GK has never walked away from a customer with a problem and is committed to getting your process up and running.
- General Kinematics is recognized by the editor of the leading recycling trade journal as providing the best recycling system solution to the C&D industry.
- 150 power plants in the US trust GK vibrating feeders to keep their coal flowing.
- General Kinematics is the only heavy-duty vibratory equipment company certified in ISO:9001.

General Kinematics partners with our customers to provide vibratory equipment that improves their throughput, increases their profitability, and reduces maintenance costs. The employees of GK genuinely want our customers to be successful in their businesses, and will do all they can to provide you with equipment and solutions to do so.

