



The Non-Blinding Screen

The bivi-TEC® Screen:
Applied To The Brick Industry
-Saving Time, Money and Aggravation



The Proposition

- Fine screening of difficult materials without heated decks or ball decks
- Reliability
- Increased Capacity
- Reduced Costs



Development

- Developed by Binder & Co. of Austria
- Licensed to Aggregates Equipment, Inc (AEI) of Leola, PA
- Manufactured by AEI in the USA

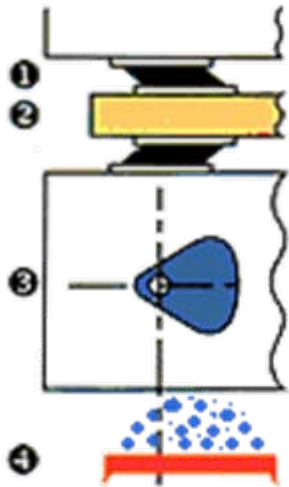


Concept

- Screen body excited by freely rotating eccentric weights
- Floating frame isolated from screen body by rubber springs
- Deck composed of ladder type construction with alternate cross members attached to the screen body or the floating frame
- Flexible Urethane panels clamp into cross members
- Floating Channels (Attached to floating Frame) and fixed channels (attached to screen body) move in opposite horizontal direction
- Tensioning and relaxing of panel creates “blanket toss” type action on the deck.
- 50 g’s applied to material bed while only 1 to 2 g’s applied to screen body.



Concept



- ① Rubber Block
- ② Floating Deck
- ③ Vibrating Weight
- ④ Screen Mat

Single Deck
bivi-TEC® Screen

Deck and Screen Options

Rubber Springs

Unbalanced
Counter Weights

Floating
Frame

Drive

Panel Hole Size: 50 mesh – 3”



Concept



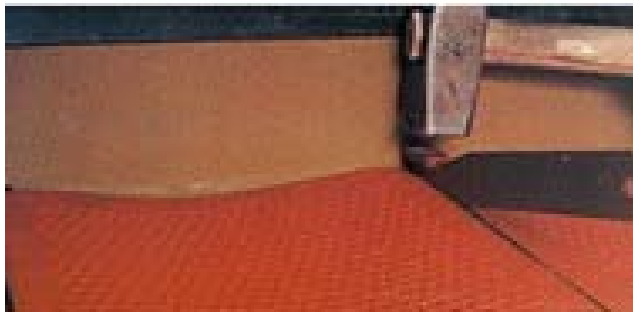
Installation

- Flange on the edge of each panel rests in channel
- Rubber wedge driven between screen mat flanges, locking panels in place



Removal

- A piece of flat bar is used to drive wedge into cross member
- Grasp panel and remove



Benefit

- Exceptional wear characteristics of Urethane
- Smooth surface with no wear points or locations for material buildup
- Quick (10' screen deck change in 20 minutes)



Concept



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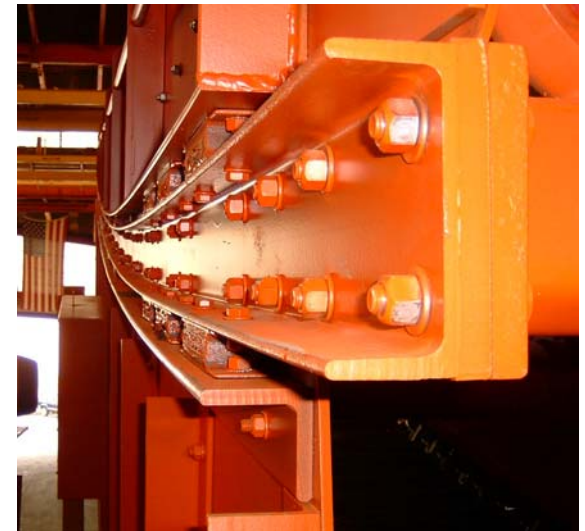


Banana bivi-TEC®



- With fine screening, a consistent material bed depth and residence time on the screen deck is crucial to producing consistent specification product

- **Banana bivi-TEC®** incorporates all features of the bivi-TEC® but with a curved screen deck



- Steeper Angle on the Feed End (22°)
- Lesser Angle on Discharge End (8 – 12°)
- Material speed is slowed as it travels down the deck, allowing more fines to be removed



Benefits

- **One screen versus many** – One bivi-TEC® can provide the capacity of several other screens operated in parallel.
- **Power Consumption** – No heated decks equals elimination of thousands of dollars per year in heating costs per screen in heating element replacement and power consumption, along with the associated problems.
- **Finer, more consistent cut sizes without blinding, at higher moistures, without heated decks or ball decks** – consistent product with less dependence on environmental conditions.



Benefits

- **Reliability, maintenance and wear** – Reduced wear costs throughout the lifetime of the screen. Longer screen deck life, longer bearing life. 3 panels per meter on the deck mean you can change one panel at a time.
- **Scalping and Finishing in One Screen** – A single, more efficient screen keeps the fines out of your crusher, improving its operation. And limiting the re-circulation load offers additional energy/cost savings.
- **Smaller Stockpile/Surge Req.** – Increased Capacity, reliability and consistency of product, means the screens and the grinding room are no longer the bottleneck of the plant.

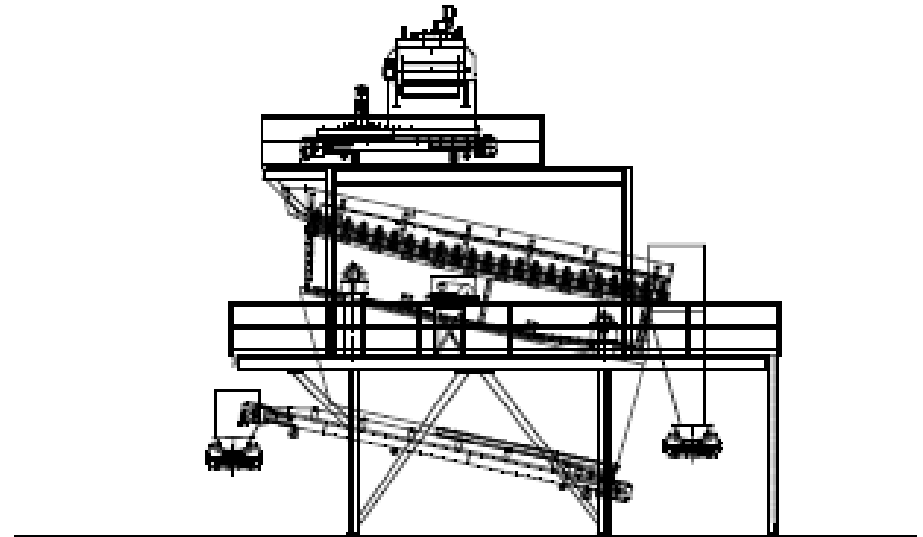
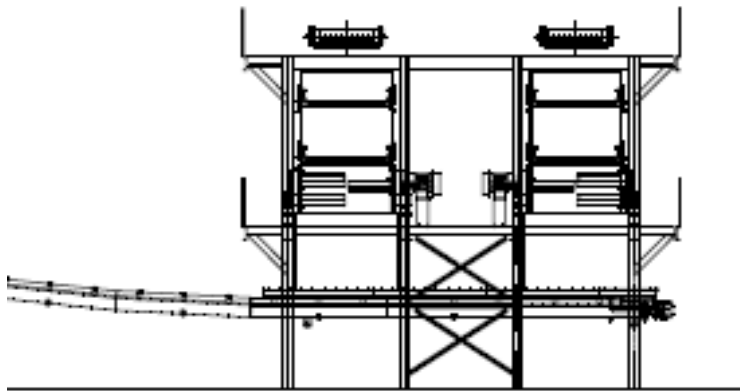


Applications

- **Materials:** Crushed gravel, natural sand and gravel, crushed stone, clay, shale, lignite, bituminous and anthracite coal, coke and coke breeze, sintered iron ore, magnesite ore, shredded scrap metal, auto shredder fluff, fine ore, bauxite, slag, compost, refuse and rubble.
 - **Spain:** Over 30 Screens in Spanish Brick Manufacturing with cuts as fine as 35 mesh
 - **US:** Boral, Terre Haute, Ind. – (1) KRL/DD ‘SP’ 1600x6 - Scalping
(2) KRL/ED ‘B’ 1600 x6 - Finishing
 - **Screen Size:** 3’ x 10’ to 8’ x 30’, Single Deck, Double Deck, Triple Deck (2 x bivi-TEC, 1 x Fixed), Two and ½ deck, Banana
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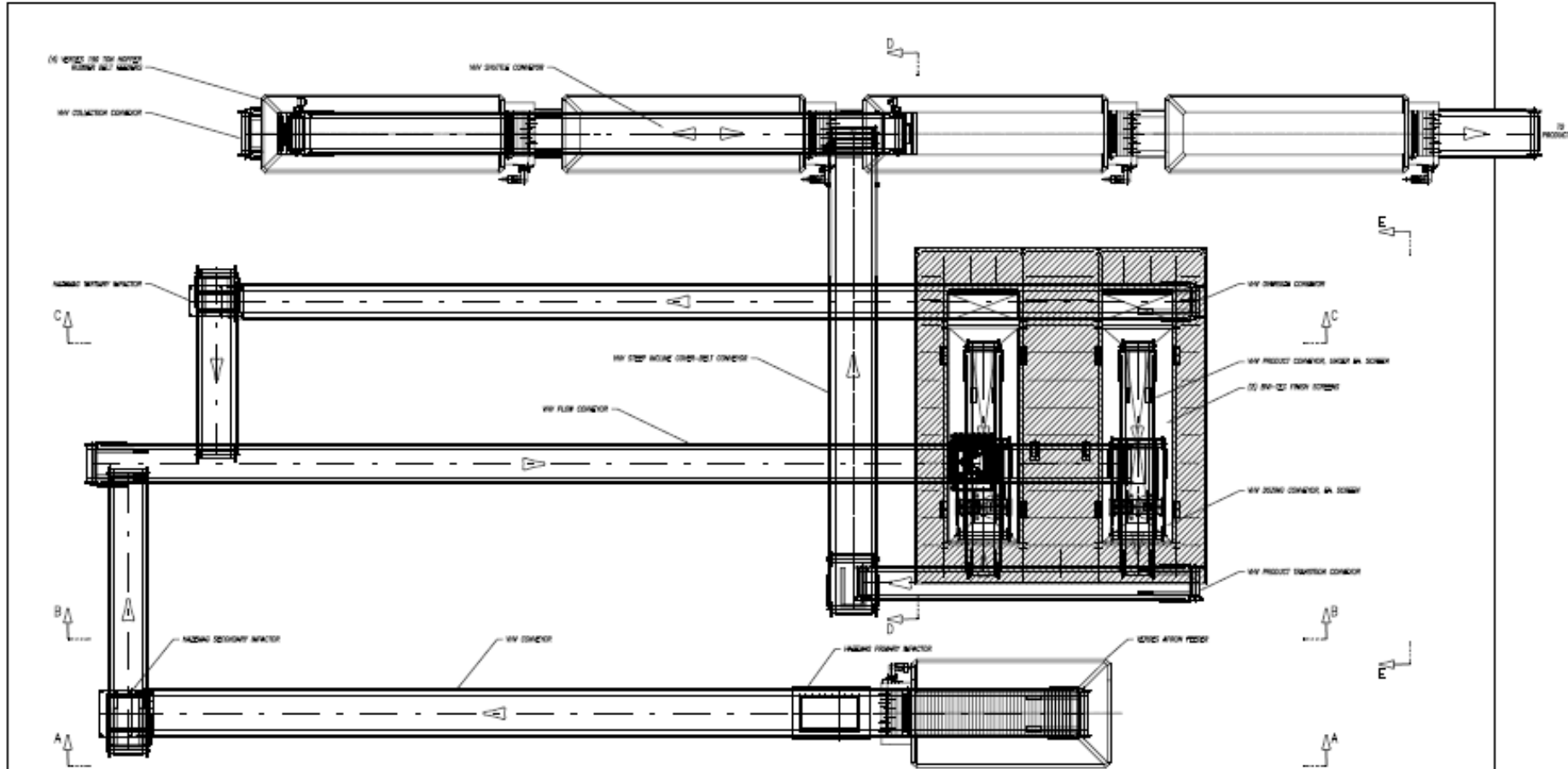
Applications



Provided Courtesy of MECO



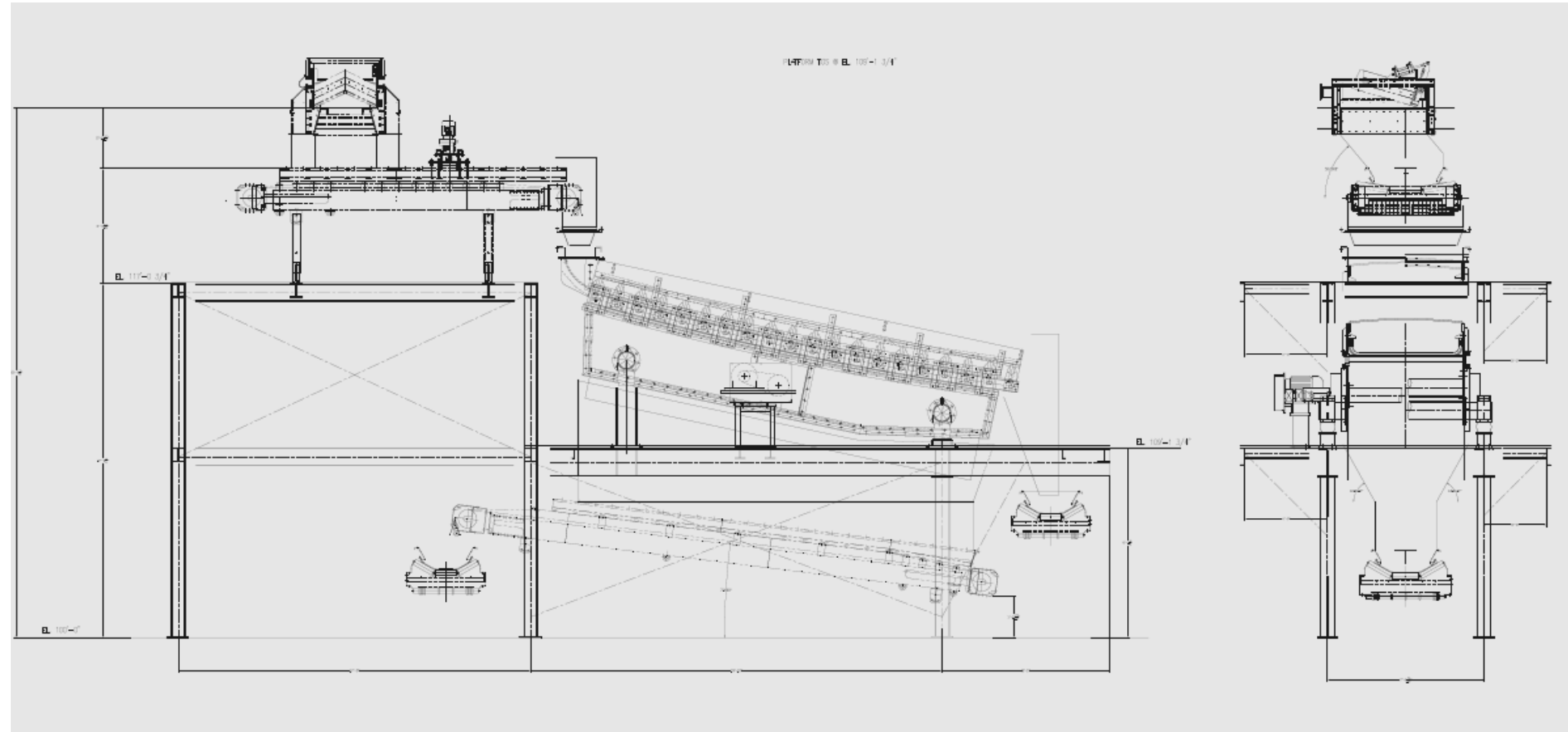
Applications



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Applications



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Testing

- On-Site Test with Portable bivi – TEC® - Seeing Is Believing!



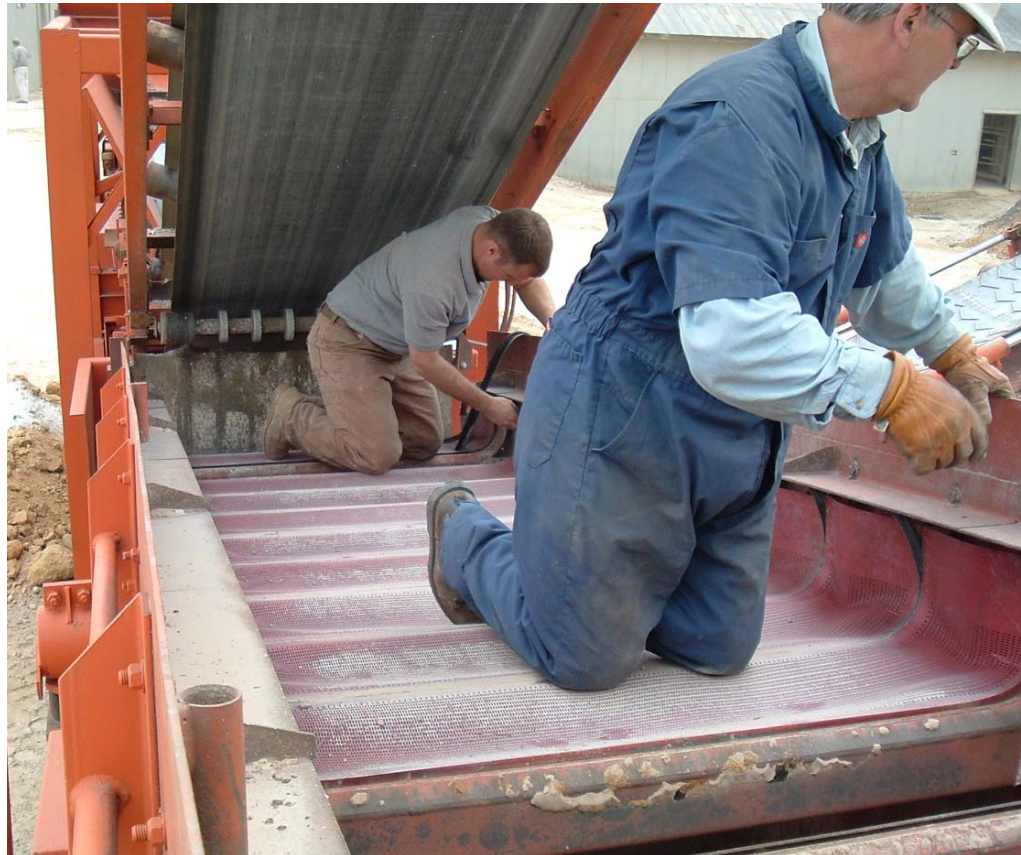


Testing





Testing





Testing





The bivi-TEC® Screen

- The bivi – TEC® will change the way you think about screening.