



TBS Series Banana Screen

Highly Effective Crushing Solution



DIAMOND
diamondequip.com

TRIO strives to provide the most rugged, robust, and reliable equipment for the most demanding environments.

TRIO provides customized high value solutions according to our customers' needs, from single machines to stationary or portable plants, including turnkey projects.

Building Solutions Together



TRIO continues to expand as a world-class designer & manufacturer of crushers, screens, washers, and conveyors and whole plant, dedicated to bringing innovative engineering solutions and unmatched value.

TRIO's solution is widely applied in aggregate, mining, concrete/ asphalt recycling industry. Our products can well operate in most demanding environment, such as mining and quarry application, and meet customers' requirements on operation time and budget.

TBS Series Features

- High capacity
- Rugged and reliable
- Reliable Operation
- Operate in most demanding environment
- Easy to operate and maintain
- Easy to ship and install

Application:

- Coal Mining
- Platinum Mining
- Copper Mining
- Aggregate Processing
- Other Hard Rock Mining

Perfect for all of you mining applications

TRIO' s banana screen will give exceptional performance and are perfectly suited for coal, copper, platinum and hard rock mining operations. The single platform provides more efficiency based on increased economies of scale

The TRIO Banana screen design incorporates six inclination and is manufactured for very demanding environments.

Well suited for mining application, TRIO' s single deck banana screens are also a great choice for coal washing applications. Screening deck angles normally used for coal washing are from 23° to 4° and the TRIO banana screen match this requirement.

Provide customized solution based on your demand

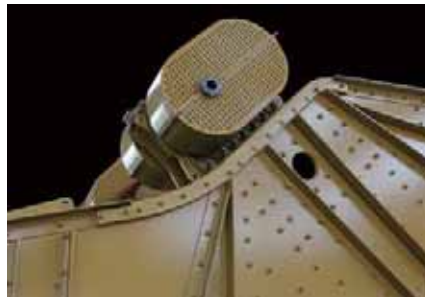
TRIO sets a standard for responsiveness and flexibility in the industry. We are dedicated to partnering with customers to provide customized solutions based on customers' special demand and working environment.

Professional product design

The hallmarks of TRIO equipment are smart, operator-oriented features combined with designs that ensure long, productive service life.

TRIO' s banana screens utilize bolted cross-members for ease of replacement which are heat treated and stress relieved. The cross-members and drive beam are designed to be aligned with the stroke motion of the screen.

The TRIO banana screen is supplied with twin adjustable exciters which are oil lubricated and incorporate a beveled gear set, lip seals and a oil level dip stick for quick and easy inspection. Decks are utilized W85 installation for quick installation and replacement, and it only requires to replace the small pieces of damaged deck with intact ones.



Easy maintenance and secured reliability

Feedbox

- Heavy duty anti-wearing liners are standard
- Liners are bolted and replaceable

Back plates

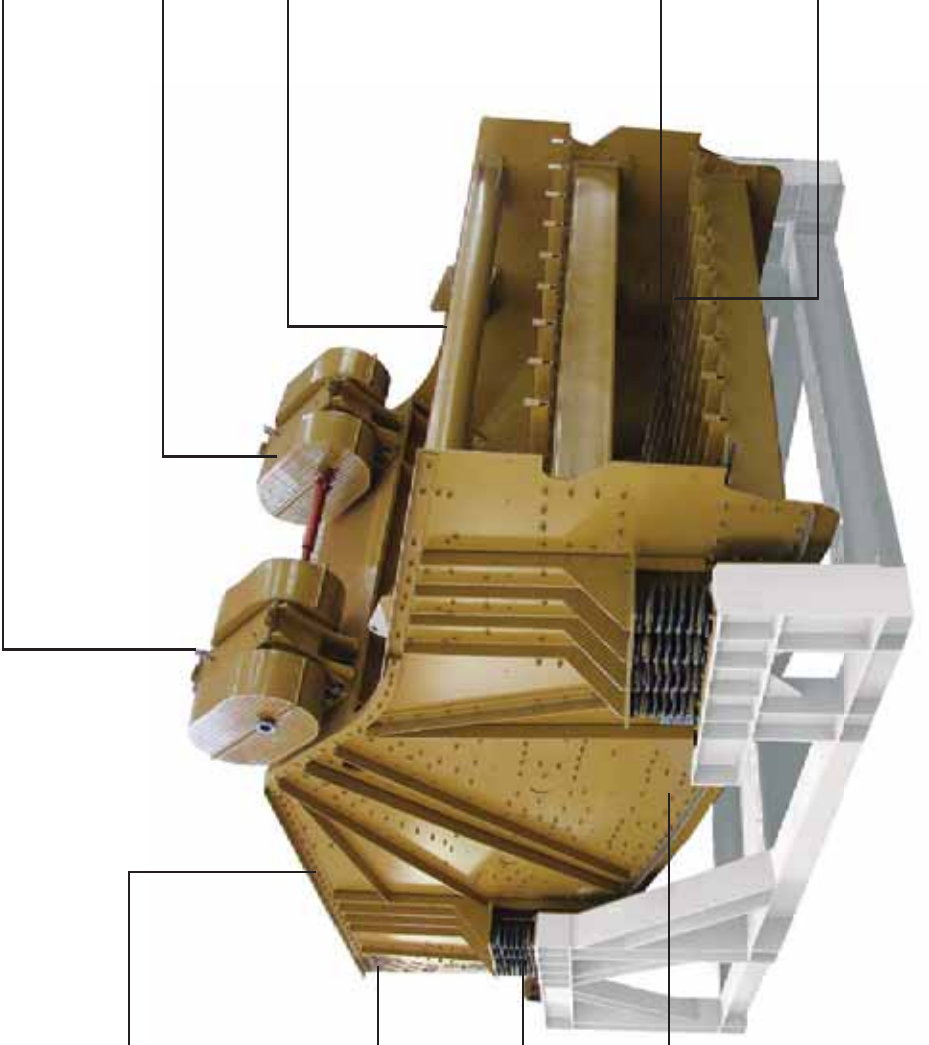
- Quickly removable
- Faster for panel replacement

Spring Suspension

- High durability for long-time and heavy-loaded operation
- Adjust to suitable amplitude

Weldfree Sideplates and Huckbolted Construction

- Maximum durability



Centralized Lubrication Point

- Easy access to the grease fitting
- Optional grease unit easily connected, increase operation reliability

Shaft Line Above The Screen

- Not in the material flow
- Easy access and easy maintenance

Spray Pipes Option

- Banana screen has pre-existing holes in side plates (with rubber plugs)
- Faster for replacement and easy for maintenance
- Reduce downtime and create extra value

Dust Proof

- Steel structure dust proof with independent support
- Connection points of discharge chute are assembled with dust sealing protection devices

Greater Clearance Between the Decks

- Operator can access easily

Discharge Lips

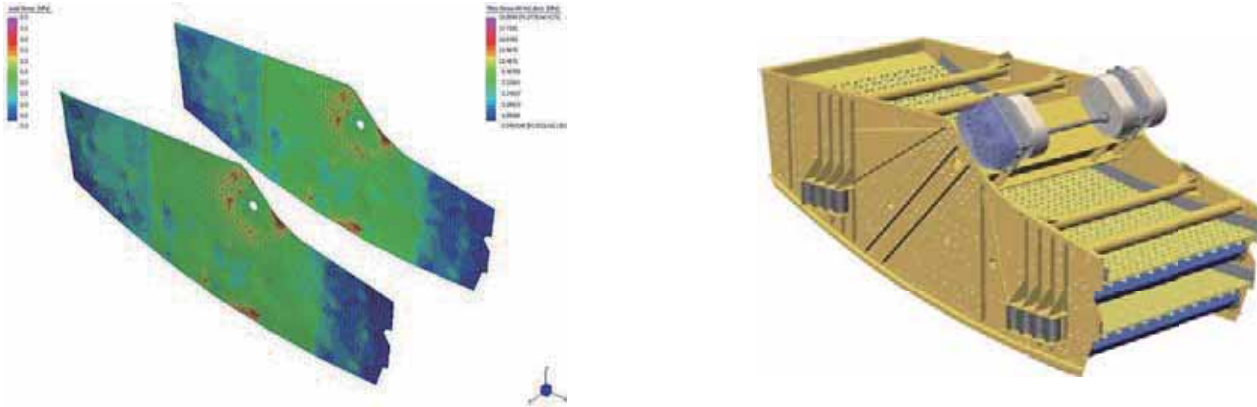
- Heavy duty rubber/ anti-wearing steel liners according to customers' application
- Liners are bolted and replaceable

Environmental Protection

- Minimize pollution to environment
- Dust proof & noise reduction device (optional)
- Higher energy efficiency with larger G-force and amplitude

Advanced FEA Analysis

Advanced FEA analysis to optimize the quality and design of TRIO's machine



Parameters

Single Deck Configuration

| Model | Dimensions | | Weight | | Power | | Screen Area Per Deck | | Deck Type |
|-----------|------------|-----------------|--------|--------|-------|----|----------------------|----------------|-----------|
| | M x M | IN x IN | LBS | KG | HP | KW | SF | M ² | |
| TBS3061-1 | 3.0 x 6.1 | 10' x 20' | 27,381 | 12,420 | 73 | 55 | 193.8 | 18.0 | PU/Wire |
| TBS3073-1 | 3.0 x 7.3 | 10' x 20'7" | 30,159 | 13,680 | 100 | 55 | 235.7 | 21.9 | PU/Wire |
| TBS3661-1 | 3.6 x 6.1 | 11' 10" x 20' | 32,011 | 14,520 | 73 | 55 | 232.5 | 21.6 | PU/Wire |
| TBS3673-1 | 3.6 x 7.3 | 11' 10" x 20'7" | 35,318 | 16,020 | 73 | 55 | 282.0 | 26.2 | PU/Wire |
| TBS4385-1 | 4.3 x 8.5 | 14' x 27'10" | 48,545 | 22,020 | 100 | 75 | 388.6 | 36.1 | PU/Wire |

Double Deck Configuration

| Model | Dimensions | | Weight | | Power | | Screen Area Per Deck | | Deck Type |
|-----------|------------|-----------------|--------|--------|-------|----|----------------------|----------------|-----------|
| | M x M | IN x IN | LBS | KG | HP | KW | SF | M ² | |
| TBS3061-2 | 3.0 x 6.1 | 10' x 20' | 45,635 | 20,700 | 100 | 75 | 193.8 | 18.0 | PU/Wire |
| TBS3073-2 | 3.0 x 7.3 | 10' x 20'7" | 50,265 | 22,800 | 100 | 75 | 235.7 | 21.9 | PU/Wire |
| TBS3661-2 | 3.6 x 6.1 | 11' 10" x 20' | 53,351 | 24,200 | 100 | 75 | 232.5 | 21.6 | PU/Wire |
| TBS3673-2 | 3.6 x 7.3 | 11' 10" x 20'7" | 58,863 | 26,700 | 100 | 75 | 282.0 | 26.2 | PU/Wire |
| TBS4385-2 | 4.3 x 8.5 | 14' x 27'10" | 80,909 | 36,700 | 120 | 90 | 388.6 | 36.1 | PU/Wire |

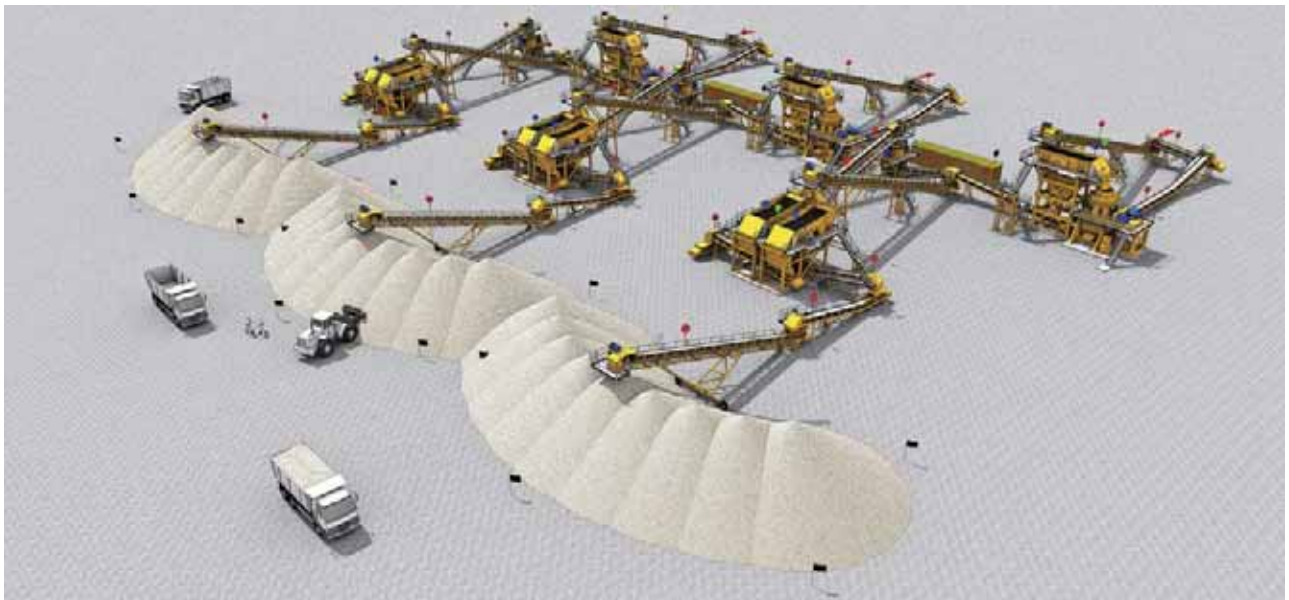
* Data for marketing use, detail info may vary due to product update and customization. Please contact us for the solution suits you best.



* The weight mentioned doesn't include the weight of deck, banana support and motor support

COMPREHENSIVE SOLUTION

TRIO can provide not only key single machines, but also complete crushing, screening, washing, and material conveying solutions. We will take your investment scale, operation cost, working environment, capacity, and product gradation requirements into consideration to provide a personalized and customized solution, including machine model selection, operating simulation, and on-site layout. Our outstanding design & engineering capability together with complete after-sales service will ensure the successful implementation of your project, creating value to help achieve your project objectives.



GLOBAL SERVICE

(complete system, single machine, or a spare part)
TRIO will provide you with professional service and support.

This service is not only on installation, maintenance & repair, and after-sales support. This service is provided from conception through commissioning. All TRIO products will be assembled and test run in our factory to ensure a fast and efficient installation, creating extra value for you. We also provide professional training for maintenance and operations personnel to lower your operating cost. TRIO TC series cone crushers are rugged, reliable, high performance crushers, and your best choice. Please contact us to get more information.





CRUSHERS

CT Series Jaw Crusher
TC Series Cone Crusher
APS& APP Series Impact
Crusher
TV Series VSI Crusher

SCREENS

TIH, TIO&TIOSP Series
Inclined Screen
TTH Series Horizontal
Screen
TBSS& TBSD Series Banana
Screen

PORTABLE PLANTS

Track mounted portable
plants
Wheel mounted portable
plants

PLANT SOLUTIONS

'Turn-key' projects

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