

BM&M

SCREENING SOLUTIONS

Super-Deck

High Speed Gyrotory Screens



For Large Industrial Applications

~ 3 Year Drive Warranty ~

Super-Deck Screen

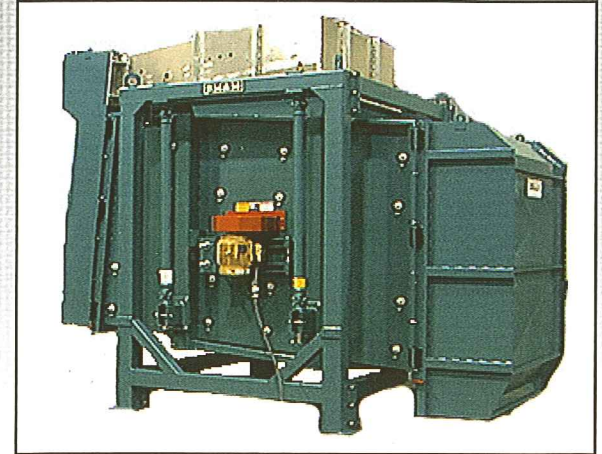
The Super-Deck screen is BM&M's High Capacity, high speed horizontal gyratory design. It is dynamically balanced to allow greater rotational speeds and strokes than conventional sifters and screeners.

The BM&M Super-Deck has the same patented BM&M aggressive screen action that enables all BM&M models to achieve high capacity and efficiency in many process industries.

Models are available with 100 to 360 square feet of total screen area

The BM&M Super-Deck was designed to be flexible for all industries.

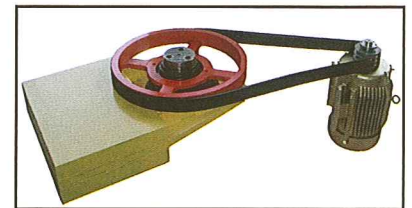
The stroke and speed can be engineered for each application, and both variables can be easily changed in the field with no special parts.



Features

Patented Eccentric Weight Drive Technology

- BM&M's drive uses a stationary shaft with a high speed rotating hub/counter-weight assembly to generate the eccentric motion.
- Maintenance costs are minimal as BM&M's drive assembly is lubricated for life.
 - normally 10+ years.
- 3-year drive bearing warranty on all models.
- A spare drive belt is installed in every machine.



3-year Drive Warranty

Screen Action

The Super-Deck's drive unit is at the center of the screen's mass by design to get the same pure circular screen motion, and the resulting efficiency, over the entire screen element surface.

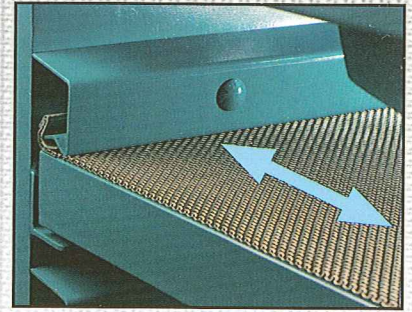
- The screen can be tuned to operate at speeds from 180 RPM to 330 RPM versus conventional large screeners that simply cannot run faster than 180 RPM.
- The stroke can be adjusted from 5/8" to 1 1/2" as the application demands.
- Stroke changes in the field are a simple matter of changing the number of weights on the bolted counter-weight assembly.
- The consistent motion across the entire element, combined with the Super-Deck's high speeds and adjustable stroke, allows the machine to be tuned for maximum efficiency.



Tensioned Element Design

Tensioned elements are standard equipment and are provided to prevent the elements from losing their tension over time, as conventional stapled elements do.

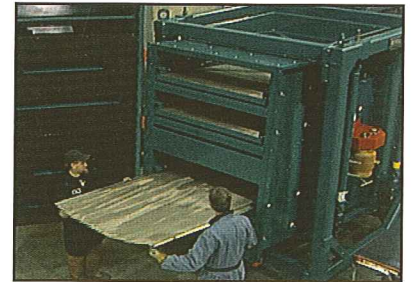
- This helps maintain the high efficiency obtained by the screen motion and the ball decks.
- Most premature element failures, and blinding problems, are attributed to a lack of adequate element tensioning.
- Elements commonly fail due to fatigue cracks, where the loose wire flexes over the ball frame.



Element Removal

Screen Elements are easy to inspect and replace.

- Elements are provided in a single-piece construction, avoiding potential leak paths associated with gaskets/seals/and overlay strips. Multi-piece elements are available if required.
- Elements can be changed quickly and smoothly without removing the ball frames.
- BM&M's simple tensioning system also assists in quick element changes.
- Screen removal and inspection doors are provided at both ends for easy access.

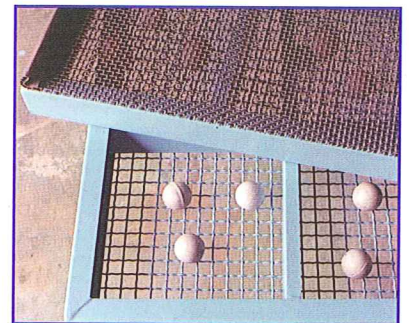


With no Ball frames to remove or complicated tensioning system to change the Super-Deck can save your operators up to 50% in down time.

Ball Deck Cleaning

All BM&M Super-Decks are equipped with over-sized Ball decks to assist in keeping the screen element clean (De-blinded).

- The BM&M motion propels the captive balls to constantly strike the underside of the elements, dislodging wedged-in, sticky particles, or near-sized plugs.
- Ball frames are steel, with the option of Stainless steel or Aluminum.
- 2" diameter, elastomeric balls (Ball material can be changed to suit the application).
- The high speed motion of the Super-Deck, and the adjustable stroke, allows the ball deck efficiency to be tuned to your specific application challenge.



Dynamically Balanced

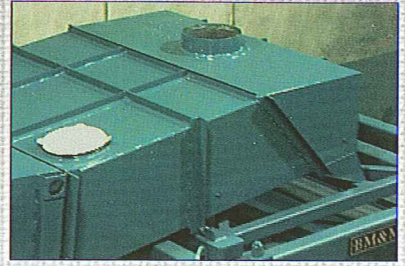
BM&M's dynamically balances all screens to minimize building loads and vibration.

- With BM&M's rigid hangers and the balanced design, the screen is simply bolted down.
- Cable isolation systems, vibration isolators, or other vibration damping systems are not required on the BM&M Super-Deck.



Infeed Distributor (Optional Feature)

- 35 Ft² infeed flow distributor spreads the flow evenly across the width.
- Includes a gross scalping element for large rubble removal (typically ¾" to 2" open).
- The Distributor and rubble element gyrate with the screen assembly.
- The Bottom pan is lined for wear protection as a standard (specs per application).



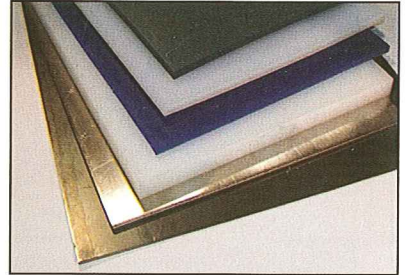
Abrasion Resistant Construction

BM&M offers the Super-Deck in various levels of abrasion resistant construction for applications such as frac sand, hard grains, coal, fertilizer, or any other abrasive product.

BM&M makes wear parts available in A.R. steel construction (450 Brinell hardness):

- Infeed flow spreader bottom
- Infeed door/flow splitter assembly
- Bottom pan assemblies
- Discharge door/chute assembly

The Super-Deck can also be specified with less expensive wear liner options such as UHMW, Polyurethane or T304SS.



Factory Testing

- BM&M specializes in building screens for all industries. Our goal is to maximize yield, as well as efficiently remove the reject materials.
- BM&M will factory test product and provide a written Performance Guarantee.
- Factory testing is offered at no cost to our customers.



Specifications

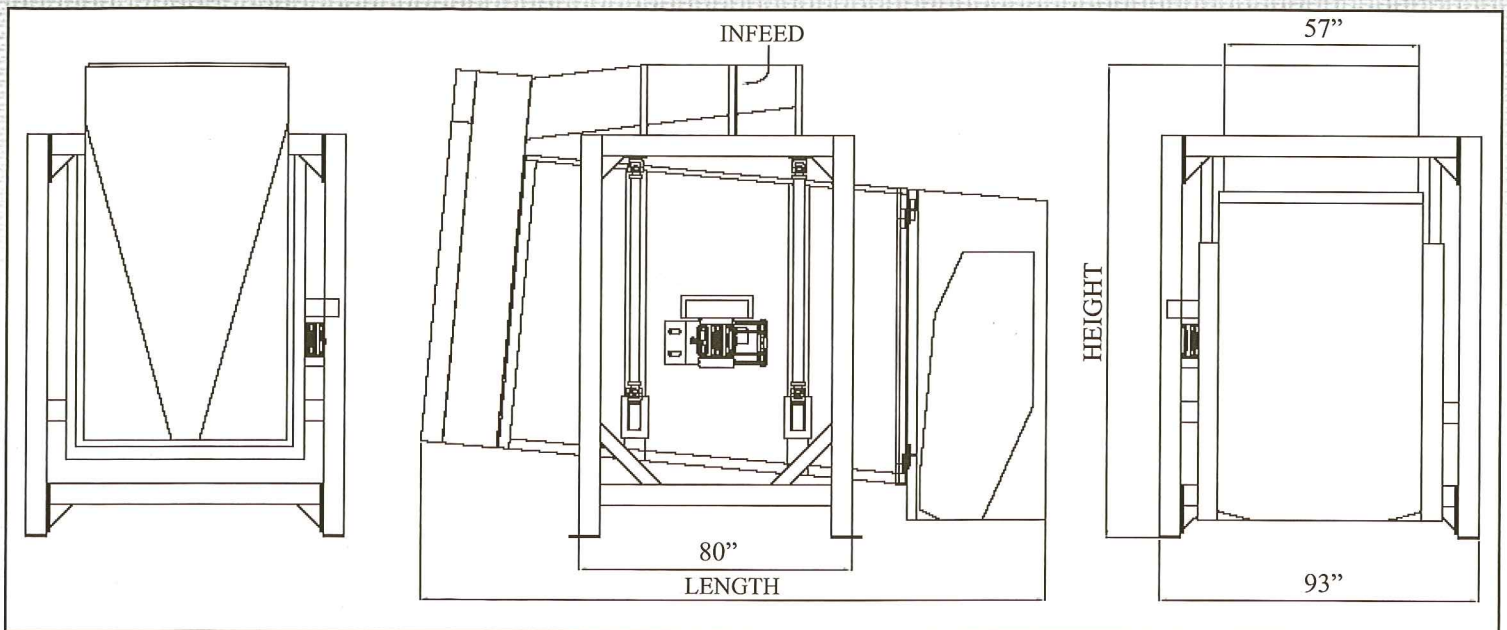
	50 Series	60 Series
Screen Deck size	57" x 120"	57" x 144"
Standard construction material	Mild Steel	
Construction design	Welded steel construction for drive/ screen assembly	
	Fully Stress Relieved	
Ball deck cleaning standard	Yes	
Synthetic balls standard diameter	50mm/ 2"	
Standard ball frame material	Steel	
Enclosed construction standard	Yes	
Hinge open infeed and outlet doors for screen access	Yes	
Engineering Parameters		
Standard operating speed range	180 - 330 RPM	
Screen slope	5°	
Adjustable stroke counter weight	5/8" to 1 1/2"	
Floor mounted support stand	Yes	
Discharge chutes designed for each application	Yes	
Screen element hold-down system (standard)	Tensioned	

Options

Construction Options	
High temperature construction (+150°F)	Optional
Ball Box Options	
Ball frame material	Aluminum/ Stainless Steel/ Hardwood
Ball material	Abrasive Service/ Oil Resistant/ Cold Weather
Aspiration ports	4" to 8"
Explosion proof motor	Available for All Sizes
Support hanger lubrication system	Available for All Sizes
Drive bearing temperature monitor	Available for All Sizes
Wear liners available	UHMW/ Rhino Hyde/ Panowear
Abrasion resistant construction	A.R. Steel (450 Brinell Hardness)

Dimensions

Super-Deck Screen



Model	# of Fractions	Total Area/Fraction	Length	Height
5022S1	2	200 sq.ft.	183"	138" - 144"
6022S1	2	240 sq.ft.	207"	138" - 144"
5033S1	2	300 sq.ft.	183"	138" - 144"
6033S1	2	360 sq.ft.	207"	138" - 144"
5011S2	3	100 sq.ft.	183"	138" - 144"
6011S2	3	120 sq.ft.	207"	138" - 144"
5022S2	3	200 sq.ft.	183"	138" - 144"
6022S2	3	240 sq.ft.	207"	138" - 144"
5011S3	4	100 sq.ft.	183"	138" - 144"
6011S3	4	120 sq.ft.	207"	138" - 144"

"BM&M has over four decades of knowledge and experience to draw from to provide the very best screening solutions to our customers. Our engineering staff and test lab are available to our customers before, during and after the sales process and remain available for the life of the machine."

Collin Jackson, President

BM&M

SCREENING SOLUTIONS

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