

SINGLE DECK TWIN VIBRATOR DEWATERING SCREEN



Wash a Broader Range of Specification of Aggregate & Ore Product

RMB KNOVATECH Dewatering Screens turn material washing problems into profitable solutions and meet the specification demands for multiple sand & ore products. Manufactured for years of dependable, operator friendly performance. RMB KNOVATECH Dewatering Screens have a frame and body built of high tensile steel plate, utilizing heavy square tubing and urethane wear parts.

Customized Designs

RMB KNOVATECH offers three models of dewatering screens to handle a variety of capacities, including the **KDS 120/300 – 1A**, **KDS 150/360 – 1A** and **KDS 180/450 – 1A**, to efficiently dewater up to 300 tons per hour. RMB KNOVATECH Dewatering Screens are constructed of high-quality structural steel for years of trouble-free service life.

All RMB KNOVATECH units are built with a dedication to innovative design and quality workmanship unmatched in the industry. Whatever the application, RMB KNOVATECH has

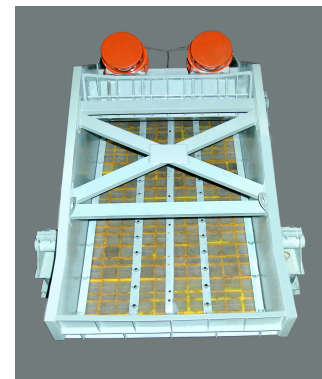
the knowledge, experience, equipment and automation solutions for you to reach your production goals.

RMB KNOVATECH high-frequency separator allows producers to easily adjust bed depth, table tilt and vibrator variables in order to remove up to 50 percent of the water from your material, while maintaining maximum production no matter how wet the material is. It utilizes two vibrators that initiate a linear motion, driving particles in an uphill, downhill or horizontal direction – so water is strained down through the sand bed and below the screen deck.



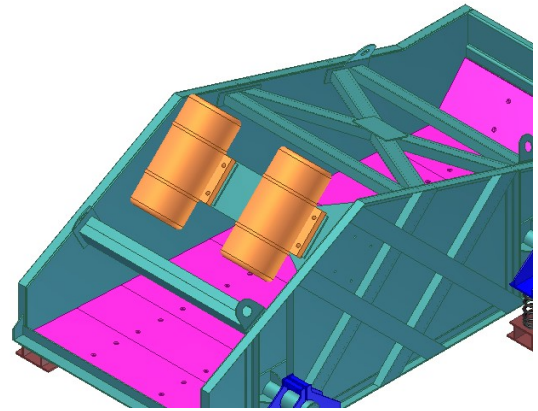
Each unit receives a high percentage of water-saturated fine material and produces a dense, compact cake that rides up the belt and forms a pile with no runoff or water pools. This provides a dry, transportable product that can be sold in a short period of time.

RMB KNOVATECH Dewatering Screens utilize a urethane deck with a 500micron aperture that allows the user to dewater a broad range of particle sizes. The deck can handle up to 14 inches of material depth, making use of the bottom thin layer of material as a secondary “screen,” allowing the deck to preserve fines smaller than 200 meshes.



Once setup is achieved with favorable steady-state conditions, operation is as simple as starting the motors with the flip of a switch, and letting the screen do its job without further concern. One of the greatest benefits of operating RMB KNOVATECH dewatering Screens is having the ability to adapt to each plant’s unique material by combining the adjustable motor force with the adjustable bed tilt.

With dewatering Screens, the days of air drying are gone. Most concrete and masonry sands typically retain from 18 to 24 percent moisture, which requires drying time in the pile. At process end, our dewatering screens cut that moisture down to as low as 10 percent – providing salable material in less than a day. In addition, these screens eliminate those annoying pools of water around equipment. The sand pile produced from our screens will stack high and nearly dry, without forming water pools at the base.

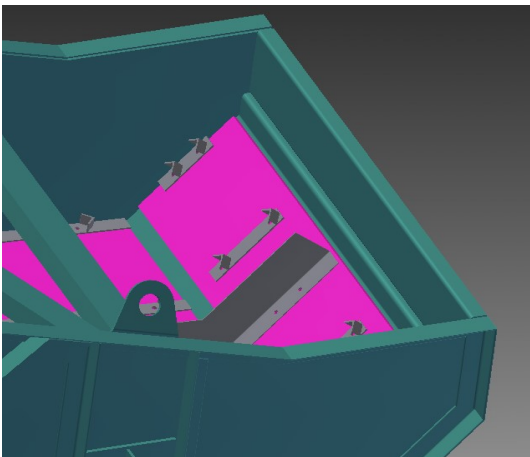


Rigid Single-Member Deck

The RMB KNOVATECH deck is a single-member weldment, utilizing heavy pipe cross members for a base that supports reinforced steel ISMC channels. These rigid ISMC channels provide for easy access and application when replacing individual sections of urethane screen.

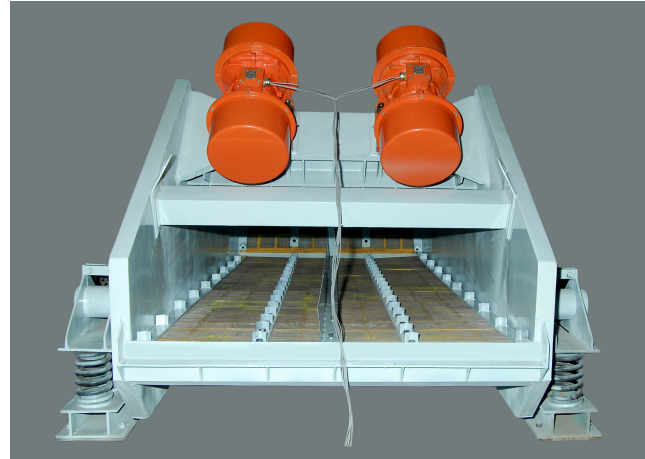
Feed Box

The feed box is mounted prior to the urethane deck to absorb the initial impact while distributing the feed. It is fabricated from 8mm thick steel and can be lined as requested. The feed box is also customized to any size and shape required.



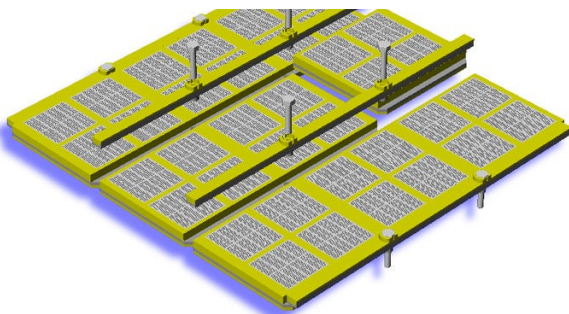
Dual Vibrating Motors

Two single mechanism vibrators create a linear motion for removing excess water from material. The single mechanism requires minimal maintenance and allows for easy application. Each vibrator can be easily set to increase its centrifugal force, resulting in higher production and a drier product – providing the user with the ability to adapt the material for production.



Urethane Deck

RMB KNOVATECH Dewatering Screens have urethane decks, which resist wear and provide long life. They contain water dividers that divert material over the region where water passes through the screen, while 75 micron openings allow water to pass freely through – holding back material on the top side of the deck. When dewatering finer material, the lower layer of sand acts as a secondary filter that retains 99 percent of the material with the product, while only one percent goes to waste. On average, a concrete or masonry sand product achieves a final water-to-material ratio of 1:10.



+/- 5-Degree Bed Angle Tilt

The bed can tilt from a 5-degree-uphill to 5-degree-downhill slope. Depending on the material volume, gradation and water retention, the user can send the product downhill for higher production or uphill to create a deeper bed depth – forcing more water to the under-flume. In a matter of minutes, the bed angle can be changed and locked into place, ready for production. Having the ability to change the bed angle gives the operator more control for adaptation to feed and gradation changes.

RMB KNOVATECH SINGLE DECK DEWATERING SCREEN			
Vibration Type	Linear		
Vibrator Type	Electromechanical unbalance motor, 415 V, 50 Hz, 6 Pole, 1000 RPM IP 65		
Deck Type	Flat modular urethane Deck		
Aperture Size	0.2 mm x 11 mm		
Bed Angle	Adjustable -5 deg to +5 deg		
Model	KDS120/240-1D	KDS 150/360-1A	KDS 180/450-1A
Deck Width	1200 mm	1500 mm	1800 mm
Deck Length	2400 mm	3600 mm	4500 mm
Bed Area in Sq M	2.88	5.4	7.8
Screen Weight In Kg	2400	3400	4400
Unbalance Motor	2.2 kW x 1000 RPM x 2 Nos	3.2 kW x 1000 RPM x 2 Nos	4.3 kW x 1000 RPM x 2 Nos
<p>Note:</p> <p>1. The capacity per hour is considered on the basis of bulk density with $1.6 \times 10^3 \text{ kg/m}^3$. Capacities are relative to physical character and type of feeding, feeding size and composition and so on</p> <p>Catalogue Download PDF English</p>			

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