

## ► High-efficiency High-frequency Dewatering Screen

### Principle

Xinhai has much unique technologies in dewatering screen design. The sectional type is used for screen surface: The first section slopes at 5-degree angle, and the discharge end is higher than feeding one; the second section slopes at 45-degree angle which can improve the dewatering effect. With small amplitude and high frequency, the vibration motor makes the screen very stable. The screen cloth is interleaved and easy to be installed and replaced. If it works with Xinhai XCII and XCIII hydrocyclone (As shown in Classifying Part) and Xinhai high frequency multiple & deep cone thickener, the high-efficiency high-frequency dewatering screen can process large capacity of materials with sufficient dewatering and prominent economic effect.



Xinhai dewatering screen is used in domestic silica raw material manufacturing plant, which receives unexpected result. For example, Xinhai hydrocyclone and dewatering screen are used for dewatering in Anhui Tongda quartz sand mine and Fujian Mingda silica sand mine. The water content can be reduced to 10% with smooth and steady operation and low failure rate.

### Features

Screen box is riveted overall with high intensity, good stiffness and no thermal stress.

Modularized screen plate and installation with sealing strip make good sealing effect.

The place contacting material is covered with wear-resistant natural rubber so as to have non-corrosibility and wear resistance.

Low concentration slurry overflow pipe is put behind to increase the dewatering speed.

-5-degree screen surface makes lower water content of discharge.

Wear-resistant rubber damping device makes the screen run stably and durably.

### Application

It is suitable for concentrate and tailings dewatering in nonmetal mines such as quartz sand, fluorite and feldspar, as well as tailings dewatering in metal mines such as gold (Gold processing and CIP plant), lead zinc, iron and copper.

### Theoretical Capacity (Dry Materials t/h)

Model	Min. 30% Solid Feeding Slurry Concentration by Volume						Unit Motor Power (kW) × Quantity (set)	
	Coal Fine Theoretically -0.5+0.1(mm) Specific Gravity 1.5		Coarse Sand Approxilly- 5(mm) 100%, -0.6(mm)50%, Specific Gravity 2.7		Fine Sand 90% -1(mm) Specific Gravity 2.7		980 (r/min)	1460 (r/min)
	1460 (r/min)	980 (r/min)	1460 (r/min)	980 (r/min)	1460 (r/min)	980 (r/min)		
VD6	6~8	10~13	14	28	10	21	3×2	2 × 2
VD9	9~12	15~20	21	42	16	32		
VD12	15~19	24~30	33	67	25	50	2.6×2	4×2
VD15	30~35	50~60	63	125	47	94	2.4×4	2.25×4
VD18	35~45	60~80	77	153	57	115	15	3.7×4
VD21	—	85~100	—	225	—	164		
VD24		95~110		250		190		