

## OPTIMUM SCREENING EFFICIENCY

**Screens type SND** - These are horizontal, or slightly inclined screens, with a linear displacement, whereby the material moves down the screening surface as a direct result of the linear vibratory motion. They are used in the most arduous screening environments including mining and mineral extraction, and iron & steel production, including hot screening.

The linear vibratory motion is provided by one or more mechanical vibrator, synchronized geared exciter unit. The exciter mechanism consists of two eccentric shafts that are mechanically synchronized together by reverse rotation through a gear train. The exciter is driven by an electric motor, either directly through a flexible articulated shaft, or indirectly via a stub shaft with pulleys and vee belts.

SND horizontal screens are easy to maintain, and due to their low profile, can be installed in restricted height areas. They are available in single or double deck configuration, with up to and over 40 m<sup>2</sup> per deck. In addition to standard screen deck media, special steel decks can be utilised.



Screen type S2D210/0600

**Screens type SNS** - These are inclined screens, usually 15 to 20°, but 30° for certain applications, which are excited in a circular motion. The material moves forward down the screen due to the combined effect of the vibratory motion and the slope of the screening surface. These offer high levels of screening efficiency and sizing accuracy, and are suitable for numerous applications.

These screens have one or more eccentric-shaft mechanical vibrator systems, whereby the shaft has eccentric weights on each end, assembled on twin bearings. The bearing housings are externally bolted to the screen side plates, and the system is driven by an electric motor, either directly through an articulated shaft or indirectly via pulleys and vee belts. For the larger screens with up to 4 eccentric-shaft vibrator systems, these are phased together to give the required motion. Depending upon the vibrator drive size, they are either grease or oil lubricated.

SNS inclined screens with up to 30 M<sup>2</sup> per deck are available, in single, double or triple deck configuration, with a variety of screen deck media options.



Screen type S3S210/0500



Screen type SND on an isolation counterweight frame

## Industry Solutions

The features, range and versatility of the SKAKO SCREENS, make them the perfect choice for numerous applications in many industrial sectors.

- Mining and associated extractive industry
- Quarrying
- Sand & Gravel
- Glass
- Iron & Steel
- Fertilizer industry and other chemical industry

For more detailed information on specific applications, please contact Skako Vibration.



## Heavy Duty Construction/Huckbolting

With the screen ranges including individual units weighing over 40 Tonnes, all the screens are manufactured utilising our heavy duty constructional methods, allowing for internal stresses to be minimised or eliminated. This results in long operating life expectancy, with low and easy maintenance requirements.

All the screen body components are cold riveted together (also called 'Huckbolting'), therefore eliminating any weld stresses which are inherent in welded constructional methods.

This heavy duty constructional method allows the SKAKO VIBRATION screens to efficiently and safely operate with acceleration levels up to 5G, and the high dynamic loadings generated by the vibratory drive units.

Because SKAKO VIBRATION has over 80 years experience in this field and a dedicated team of specialists, we can offer a complete range of screens and other vibrating machines, which can be put together to form complete handling systems, or be individually integrated into existing installations.

## ADDITIONAL EQUIPMENT



**Spraying System**  
To wash and rinse material



**Insolation Counterweight**  
A frame to limit transmitted dynamic loads



**Dust Proof Cover**  
To prevent dust emission



**Electronic Brake**  
To stop screens promptly



**Speed / Rotational Sensor**  
To confirm correct operation of the exciter



**Deblinding Balls**  
To prevent blinding of the screening deck



**Lining (Corrosion Protection)**  
To protect the inside of the screen against corrosion, special plastic coating or paint are utilised



**Lining (Abrasion Protection)**  
To protect the inside of the screen against abrasion, hardened steel or rubber liners are utilised