ROTEX® Gyratory Motion Technology

Smart Solutions For All Applications

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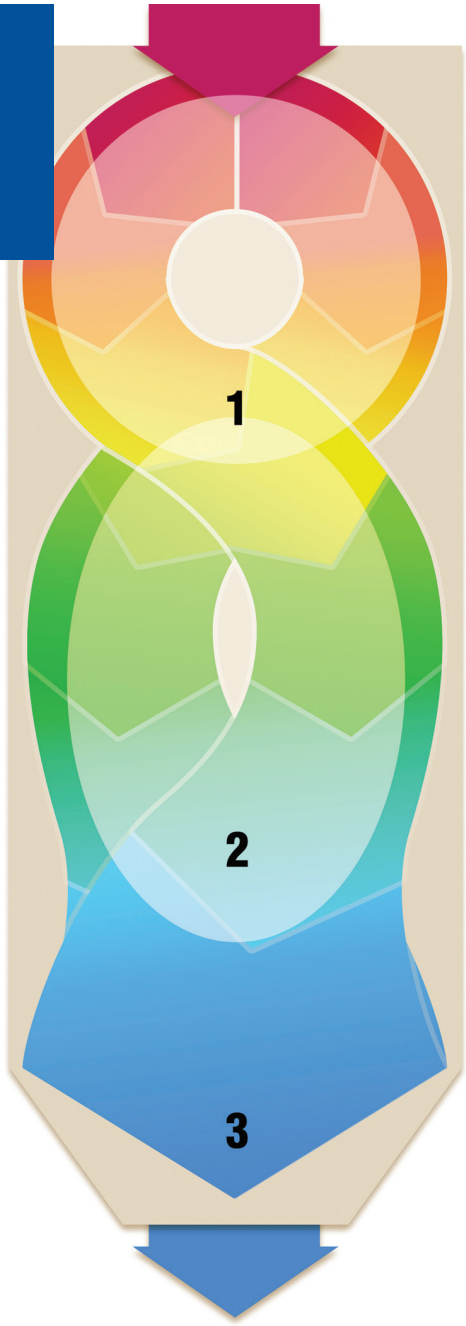
Gyratory Motion

Gyratory-reciprocating motion rapidly distributes, stratifies, and separates particles as they move across the screens, resulting in more efficient processing!



1. **CIRCULAR MOTION AT FEED END** The gyratory motion at the feed end of the machine immediately spreads the material across the full width of the screen surface to maximize screen utilization. At the same time, this motion stratifies the material, causing the fines to sink down against the screen surface. The particles that are appreciably smaller than the openings quickly pass through at this part of the screen.
2. **CHANGING TO ELLIPTICAL MOTION AT CENTER** As the circular motion diminishes into an elliptical path, the gentle near-horizontal motion causes the fine particles that are closer in size to the screen mesh—near-size particles—to fall through the mesh openings.
3. **STRAIGHT-LINE MOTION AT DISCHARGE END** The nearly linear reciprocating motion at the discharge end of the Screener removes those particles closest in size to the mesh openings while gently conveying the oversized material off the screen.

Powered By:

ROTEX Drives; offering long-term, trouble-free service with minimal maintenance required.

◀ ROTEX Drives carry a 3-year warranty.

Installation Options

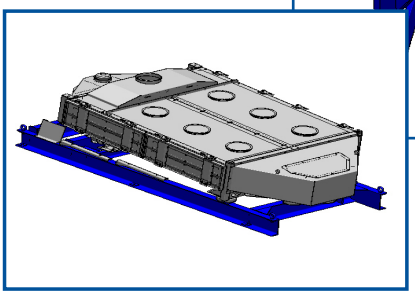
ROTEX machines are engineered with counterbalanced drives making it possible to employ many installation options without sacrificing screening performance or transmitting undesirable vibration to the surrounding structure.

Floor Mounted

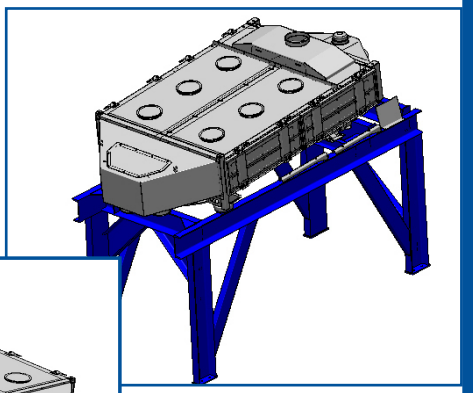
The low transmitted forces of the counterbalanced drive allow ROTEX machines to be floor mounted in properly designed structures where other types of competing equipment cannot be installed. ROTEX application engineers can recommend a stand for any application.

Floor mounted options include:

- Conventional floor mounting
- On an elevated structural steel framework, permitting drums or other equipment to be located under the machine



Conventional floor mounting. ▶



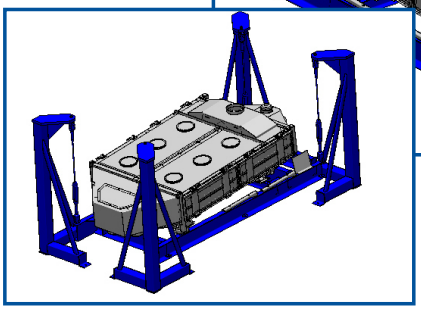
▲ Elevated machine mounted on a stand.

Cable Suspension

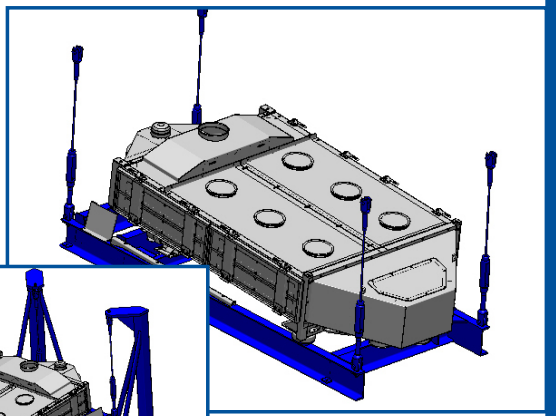
Because of their smooth counterbalanced drive, ROTEX Screeners can be cable-suspended at any structurally sound location to meet space or building limitations. Cable suspension effectively isolates the horizontal out-of-balance screening forces, significantly reducing the costs of structures and installation.

Cable supported options include:

- Overhead suspension—Cable-suspended from the four corners of the machine
- Floor-mounted cable support stand—For those applications where the ceiling structure cannot support the load



Floor-mounted cable support stand. ▶



▲ Suspended from existing overhead structure.

ROTEX®

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