

Derrick® vibrating screen machines for trash removal

- Smaller footprint machine capable of handling higher volumes
- Lower maintenance increases uptime
- Superior non-blinding Polyweb® screen surface technology

Background

Whether plant matter or ear plugs and water bottles, trash of any kind can present many problems for process streams and downstream unit operations. Gold processing plants remove trash from their leaching circuits to prevent preg-robbing from organic matter. Flotation plants are using more sophisticated filtration machines for their concentrates and require more sophisticated protection from debris.

Solution

Screens are the most economical method to remove trash from process streams. However, not all screens are created equal. Static screens such as sieve bends become plugged and require considerable labor to restore function. Linear screens can process large amounts of feed and use water to rinse the moving belt. This not only involves many moving parts that require routine maintenance, but the trash must be dewatered by another screen. Oscillating screens are low in cost but are plagued by blinding. High frequency vibrating screens have risen to the top as the most robust and cost-effective screen for removing trash.

Only Derrick® offers a vibrating screen capable of handling large volumes of feed while effectively removing trash without the media blinding and reducing throughput. The Derrick design provides the highest throughput per unit screen area of any other manufacturer. This capability results in the smallest footprint and dynamic loading in the industry.



Derrick W56 Trash Screen removing carbon at 600 microns



Derrick Polyweb® urethane screens recovering plant matter from process water at 500 microns

Conclusion

Derrick takes great pride in being an innovator in the vibrating screen arena, consistently offering new and improved products. As part of Derrick's quality commitment to its customers, every piece of its separation equipment is manufactured in-house. Derrick's technologies are trusted by clients around the world to withstand some of the harshest environments and meet the most challenging mechanical separation needs.



Optional wash system for further rinsing of concentrate from trash



Copper concentrate screened at 1mm prior to column cell flotation

For more information, please contact your local Derrick sales representative.

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