EAGLE IRON WORKS

INCLINED SCREENS

EIW Inclined Screens are designed for heavy-duty applications in the aggregates, frac sand and mining industries. These rugged screens provide reliable performance and durability under demanding conditions.

EIW Inclined Screens are built with high-strength side plates and fully bolted connections to withstand heavy loads. The two- and four-bearing circle-throw mechanism generates circular motion via a counterweighted shaft, promoting efficient material stratification and precise separation.

EIW Inclined Screens are used to separate and size materials at different stages of processing. Scalping screens remove fines, protecting crushers from excessive wear, while multi-deck configurations sort materials into specific sizes for further processing or stockpiling.

Available in sizes ranging from 5’ x 16’ (1.5 m x 4.8 m) to 8’ x 20’ (2.4 m x 6.1 m), EIW Inclined Screens are designed to integrate seamlessly into existing systems without requiring major structural modifications. The 5’ x 16’ model has a 15° incline, making it ideal for scalping operations. Larger models, including 6’ x 16’ (1.8 m x 4.8 m), 6’ x 20’ (1.8 m x 6.1 m) and 8’ x 20’ (2.4 m x 6.1 m), are built with a fixed 20° incline to ensure consistent material flow.

EIW Inclined Screens are designed to deliver reliable operation across a variety of applications, offering flexibility and dependable performance for material screening and processing needs.

Design Features

Structural Strength

- Side plates made from A572 Grade 50 steel deliver 45% higher yield strength than A36 steel plating
- Fully bolted construction eliminates stress fractures and simplifies repairs

Ease of Maintenance

- Short cross members with machined shims allow straightforward installation in confined spaces
- Shaft components on the eccentric mechanism slide directly onto the shaft for easy parts installation and replacement

Operational Versatility

- Available sizes range from 5’ x 16’ (1.5 m x 4.8 m) to 8’ x 20’ (2.4 m x 6.1 m) to accommodate various operational requirements
- Designed to integrate seamlessly into existing systems without requiring modifications

Optimized Operation

- Jacking screws simplify belt tensioning for precise adjustments
- Modular cross members ensure quick replacements and reduce maintenance time

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