EAGLE IRON WORKS

HORIZONTAL SCREENS

EIW Horizontal Screens provide efficient material separation and precise particle sizing with a low-profile design that is ideal for portable plants and stationary installations where height is limited. These screens deliver reliable performance in space-constrained operations.

Equipped with a triple-shaft mechanism, EIW Horizontal Screens produce an adjustable oval stroke ranging from 30 to 60 degrees, generating the high G-forces needed for effective material stratification and precise particle separation. This design improves screening efficiency and ensures dependable operation across a variety of applications.

The stroke length, speed and amplitude are adjustable, allowing operators to optimize the screen's performance for specific feed conditions. This flexibility makes EIW Horizontal Screens well-suited for handling different material types and separation requirements. The aggressive oval stroke minimizes plugging and blinding of the screen media, ensuring continuous operation and maintaining screening performance.

These screens are available in multiple configurations for coarse scalping and fine separation applications. For wet screening applications, an optional water manifold and spray bar system can be added to assist with material washing and fines removal.

Design Features

Grade 50 side plates provide twice the strength of standard steel	Quick knockouts enable easy adaptation for wet screening applications
Computer-optimized decks with full-length bracing support heavy loads	Rubber snubbers are simple to use and maintain
Triple-shaft mechanisms generate high G-forces with adjustable oval strokes from 30° to 60°	Multiple configurations accommodate a wide range of material separation needs across industries
Adjustable stroke, speed and amplitude allow fine-tuning for various materials	Low-profile design suits height-restricted plants and portable installations

eagleironworks.com

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EIW EAGLE IRON WORKS
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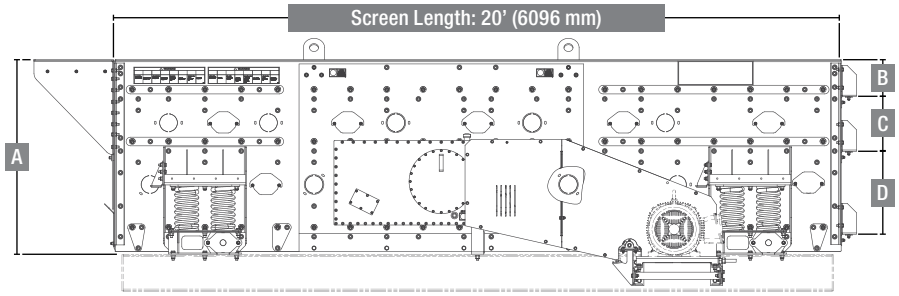
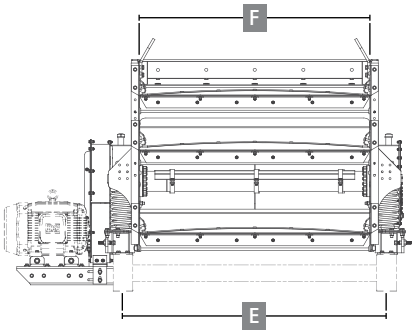
EAGLE IRON WORKS

HORIZONTAL SCREENS

Horizontal Screens				
Screen Size	Number of Decks	Weight (Inc. Media, Base, Drive & Motor)	Power	Bearing Size
6’ × 20’ (1,800 mm × 6,000 mm)	3	22,830 lb (10,356 kg)	40 HP (30 kW)	160 mm
7’ × 20’ (2,100 mm × 6,000 mm)	3	27,500 lb (12,474 kg)	50 HP (36 kW)	190 mm





Screen Size	A	B	C	D	E	F
6’ × 20’ (1,800 mm × 6,000 mm)	63.3” (1,608 mm)	12.1” (308 mm)	18.1” (461 mm)	27.4” (695 mm)	87.5” (2,223 mm)	76.0” (1,930 mm)
7’ × 20’ (2,100 mm × 6,000 mm)	69.5” (1,766 mm)	11.3” (288 mm)	20.1” (511 mm)	32.6” (829 mm)	99.0” (2,515 mm)	88.0” (2,235 mm)

EAGLE+

HORIZONTAL SCREEN

The Eagle+ Horizontal Screen pairs our efficient Horizontal Screen with a configurable, modular structure engineered for quick delivery and setup.

In addition to the screen itself, the Eagle+ Horizontal Screen comes with access platforms/walkways and configurable stairs. It can handle feed rates up to 500 TPH (453.6 MTPH), although capacities will vary depending on screen media sizes. Wet and dry versions of the Eagle+ Horizontal Screen are currently available in 6’ × 20’ (1,800 mm × 6,000 mm) and 7’ × 20’ (2,100 mm × 6,000 mm) sizes.

The Eagle+ Horizontal Screen is an easy addition to the existing footprint of most sites and can directly replace most existing screens.

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