



FALCON

The Falcon Sand Plant from Eagle Iron Works brings high product yield in a compact washing system that produces a drip-free, stackable, easy-to-handle product for your site.

The Falcon is comprised of a Sump, Hydrocyclone(s), a Dewatering Screen and a Pump. Slurry feed is collected in the Sump of the system, from where it is pumped to the Hydrocyclones for classification. Product-sized solids are discharged out the bottom of the Hydrocyclone(s) and onto a Dewatering Screen, while fines and excess water overflow out the top of the Hydrocyclone(s) to waste or further processing. The Dewatering Screen then removes any excess moisture from the product and discharges a drip-free, ready-to-sell sand. The water and fines that pass through the Dewatering Screen are recirculated through the system by way of the Sump and Pump to minimize the loss of sand-size particles and reduce the waste sent to ponds.

The heavy-duty design and easy maintenance of the Falcon make it the ideal wash plant for operations looking for a high sand-recovery solution. The modular design makes setup quick and simple so your operation is up and running sooner, while the compact design allows for maximum use of land resources.

Capacity	Screen Size	Cyclone Size	Sump	Pump
125-175 TPH	5'	24"	1700 gal	12"x8"
250-350 TPH	7'	(2) 24"	3400 gal	12"x10"

DESIGN FEATURES

- Heavy-duty construction
- Dual feed points to sump
- Sump access hatch
- Low HP vibratory motors
- Access walkway with left or right install orientation
- Hydrocyclone access platform
- Pump drain for cold weather preparation or cleanout

COMPONENTS

HYDROCYCLONE

- Fabricated steel with bonded rubber linings
- 24" body diameter, 20° cone
- Vortex finder
- Apex with rubber liner
- Splash guard - reinforced rubber sleeve
- Overflow elbow, unlined, with grooved connection
- Electronic inlet pressure gauge
- Nested cone sections with raised flange



DEWATERING SCREEN

- Two vibratory motors
- Heat-treated motor bridge
- High strength friction grip bolt construction
- Modular polyurethane screen media
- Rubber vibration isolation buffers
- Complete with feed box, underpan and discharge chute



PUMP & SUMP

- EIW Pump with 90° elbow/drain adapter for cold weather preparation
- Hard metal impeller with rubber casing liners
- Complete with belts, pulleys, guard, motor mounting plate and motor, rubber-lined steel suction pipe, vertical steel discharge pipe and rubber-lined slurry hose
- Sump with access hatch and mirrored inlet and outlet ports

