

**EAGLE IRON WORKS**

# FALCON SAND PLANT

The Falcon Sand Plant from Eagle Iron Works is designed to produce in-spec sand in a compact washing system that delivers a drip-free, stackable, easy-to-handle product.

The Falcon Sand Plant consists of a Sump, Pump, Hydrocyclones and a Dewatering Screen, all mounted on a common steel structure.

Slurry feed enters the Sump, where it is pumped to the Hydrocyclones for classification. The Hydrocyclones separate in-spec sand from finer particles, discharging the product-sized solids through the underflow onto the Dewatering Screen, while fines and excess water overflow to waste or further processing.

The Dewatering Screen removes excess moisture from the classified sand, producing a drip-free product that is immediately ready for stacking or transport. Water and fine particles that pass through the screen are recirculated through the system to ensure maximum production.

The Falcon's heavy-duty design and straightforward maintenance make it a reliable solution for operations focused on in-spec sand washing. Its modular construction allows for quick installation and minimal downtime, while its compact footprint maximizes site efficiency without compromising performance.



## Design Features

Heavy-duty construction	Dual feed points to sump
Low HP vibratory motors	Optional spray bars to remove excess fines
Pump drain for cold weather preparation or cleanout	Access walkway with left or right install orientation

Model	Capacity	Screen Size	Cyclone Size	Sump	Pump
524	125-175 TPH (113.4 - 158.8 MTPH)	5' (1.5 m)	24" (61 cm)	1700 gal (6,435.2 L)	8" x 6" (20.3 cm x 15.2 cm)
724	250-350 TPH (226.8 - 317.5 MTPH)	7' (2.1 m)	2 x 24" (2 x 61 cm)	3400 gal (12,870.4 L)	10" x 8" (25.4 cm x 20.3 cm)

[eagleironworks.com](http://eagleironworks.com)

129 East Holcomb Avenue, Des Moines, Iowa 50313 USA  
Tel: +1 (515) 243-1123 | Email: [info@eagleironworks.com](mailto:info@eagleironworks.com)



# FALCON SAND PLANT

## Components

### HYDROCYCLONE(S)

- Fabricated steel with bonded rubber linings
- 24" (61 cm) 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

- Rubber impeller with rubber casing liners
- Rubber lined sampling pipe
- 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

