

Eagle Iron Works

THE LEADER IN AGGREGATE PROCESSING EQUIPMENT

Water Scalping- Classifying Tanks

Stationary Units
Portable Units
Semi-Portable Units
Reblending Controls



Purpose:

Remove Excess Water

Used to "scalp off" or remove large volumes of water from the feed material for ease in further processing. Typical large water volume applications include dredging, pumping, and high silt materials.

Classification

Hydraulic classification is key to removing the excess sand particles that prohibit a product and/or products from meeting specifications. Along with removing excess particles, the Eagle Classifying Tank can smooth out feed fluctuations to deliver a constant and reliable in-spec product.

The Eagle Water Scalping-Classifying Tank can also be used to produce secondary and tertiary products such as Masonry/Mortar Sand, Asphalt Sand, Golf Sand, and many other speciality sand products.

Retention of Fines

Due to large settling area of the Eagle Water Scalping-Classifying Tank, fine mesh particles are more easily retained to meet tight construction sand specifications.

Available Models:

Stationary Sand Section:

Consists of a single, dual, or triple Water Scalping-Classifying Tank system discharging into Eagle Single or Double Screw Fine Material Washer unit or units, depending on the number of products to be produced. Complete line of Tanks & Washers available for efficient equipment sizing.



Portable Sand Section:

Consists of a Water Scalping-Classifying Tank and two Fine Material Washers along with support structure/chassis, electrical, and piping in a compact easily maneuvered unit. Does everything that a stationary sand section can do along with quick erection and tear down for multi-plant operation.



Semi-Portable Sand Section:

Consists of a Water Scalping-Classifying Tank and two Fine Material Washers along with support structure, electrical, and piping in a compact, sectionalized design. Does everything that a stationary sand section can do while incorporating a low height design for installations where height is a concern.



Eagle Iron Works
129 East Holcomb Ave.
Des Moines, Iowa 50313
Ph: (515) 243-1123
Fx: (515) 243-8214
www.eagleironworks.com

Eagle Water Scalping-Classifying Tank Features



Tub Construction

- Fabricated with "U.S.A. melted and manufactured" thick gauge steel
- Constructed by certified welders
- Extra long weirs for maximum product retention
- Adjustable weirs for out of level conditions

WS-CT Stations

- Heavy-duty double acting hydraulic cylinders for accurate valve discharging
- Individual electro-hydraulic valve actuating mechanisms with integral solenoid
- Hydraulic cylinders feature new seal package for unmatched cylinder life
- Long-lasting paddle motors with sealed sensing switches
- Valve & paddle rods feature thick diameter steel
- Material passage points protected by Ni-Hard wear parts, 600 Brinell hardness
- Individual components to simplify troubleshooting and minimize maintenance costs



Hydraulic Power Unit

- Robust hydraulic power unit with long service life
- Vital operating components protected by internal and external filters



Collecting-Blending Flume

- Designed to prohibit product contamination in high tonnage situations
- Flume assemblies are standard with abrasion-resistant metal liners
- Upgradeable to Ni-Hard liners for improved wear capabilities
- Discharge pipes feature replaceable Ni-Hard directional elbows

Reblending Controls

- DIALSPLIT® - Percentage type sand reblending control
- AUTOSPEC® III - Solid-state, timed batch sand reblending control
- AUTOSPEC® Mark V - Computerized, fully automated sand blending control



Optional Equipment

- Rising Current Classifiers
- Recirculating Pump
- Metering Bins

Stationary Units & Capacities

Single Tank Length & Width	Maximum Gallons Per Minute of Slurry at Low Silt Content Allowable in Saving Fine Sand Retained on:		
	100 Mesh	150 Mesh	200 Mesh
20' x 8'	2,300	1,200	700
24' x 8'	2,800	1,400	800
28' x 8'	3,200	1,600	900
32' x 8'	3,500	1,800	950
24' x 10'	3,500	1,800	950
28' x 10'	4,100	2,100	1,100
32' x 10'	4,700	2,400	1,250
36' x 10'	5,300	2,700	1,400
40' x 10'	5,900	3,000	1,550
48' x 12'	8,100	4,200	2,150

NOTE: Yellow shading indicates classification zone.

Dual Tanks Length & Width	Maximum Gallons Per Minute of Slurry at Low Silt Content Allowable in Saving Fine Sand Retained on:		
	100 Mesh	150 Mesh	200 Mesh
32' x 10'	9,400	4,800	2,500
36' x 10'	10,600	5,400	2,800
40' x 10'	11,800	6,000	3,100
48' x 12'	16,200	8,400	4,300

NOTE: Yellow shading indicates classification zone.

Portable Sand Section Units

Tank Size	Washer Size
24' x 8'	2 x 36" Dia. x 25'
28' x 8'	2 x 36" Dia. x 25'
32' x 8'	2 x 36" Dia. x 25'
32' x 8'	2 x 44" Dia. x 32'
32' x 10'	2 x 44" Dia. x 32'
36' x 10'	2 x 44" Dia. x 32'
40' x 10'	2 x 44" Dia. x 32'

Semi-Portable Sand Section Units

Tank Size	Washer Size
24' x 8'	2 x 36" Dia. x 25'
28' x 8'	2 x 36" Dia. x 25'
32' x 8'	2 x 36" Dia. x 25'
32' x 8'	2 x 44" Dia. x 32'
32' x 10'	2 x 36" Dia. x 25'
36' x 10'	2 x 36" Dia. x 25'
40' x 10'	2 x 36" Dia. x 25'
32' x 10'	2 x 44" Dia. x 32'
36' x 10'	2 x 44" Dia. x 32'
40' x 10'	2 x 44" Dia. x 32'
48' x 12'	2 x 44" Dia. x 32'
40' x 10'	2 x 54" Dia. x 34'
48' x 12'	2 x 54" Dia. x 34'
40' x 10'	2 x 66" Dia. x 35'
48' x 12'	2 x 66" Dia. x 35'
48' x 12'	2 x 72" Dia. x 35'

Water Scalping-Classifying Tanks

Stationary Units
Portable Units
Semi-Portable Units
Reblending Controls



Eagle Iron Works
129 East Holcomb Ave.
Des Moines, Iowa 50313
Ph: (515) 243-1123
Fx: (515) 243-8214
www.eagleironworks.com