

1830P

SERIES 1800

SCREENING/WASHING PLANT



Screen

- 6' x 20', 3-deck, 10°, wet vibrating screen
- V-belt drive assembly with 40-HP, 1800 RPM motor
- Huck-bolted assembly
- 3/8" plate steel side plates
- Two (2) 160-mm bearings
- Eccentric shaft with bolt-in counterweights
- Eight (8) coil spring suspension system
- Side tension drawbar screen cloth retention system (screen cloth is optional)
- Screen operates at 10° angle with a shaft speed of approx. 900 rpm

Fine Material Washer

- 5044-32T (44" twin) fine material washer
- Tank is of 1/4" (sides and bottom) and 3/8" (rear end plate) welded plate steel construction and includes a curved bottom with integral rising current manifold (4" dia. inlet)
- Large undisturbed pool area with adjustable weir boards and overflow flume with 12" dia outlet
- Double pitch, solid flight spiral assembly with standard AR steel inner wear shoes and standard urethane outer wear shoes
- Greaseable, externally mounted Dodge Imperial E tail end flange bearing; greaseable Dodge pillow block head end bearing
- Lower end seal - chrome plated stainless steel wear sleeve, water tight bellows type rubber seal and secondary grease seal
- High efficiency v-belt drive assembly (one drive assembly per spiral) includes 20-HP TEFC motor and Dodge TA-II double reduction shaft mount reducer
- Tapered discharge chute set at 45° angle to grade
- See Model 5044-32T Spec Sheet for additional information

Chassis

- Heavy duty 15" I-beam construction
- Equalizing walking beam axle arrangement with triple Dana 22,000# axles and twelve (12) 11:00 x 22.5 tires
- Fifth wheel king pin, air brakes, travel lights, mudflaps and cribbing locations

Water System

- All fresh water plumbing to a single 6" inlet located near the tail end of the fine material washer
- Fine material washer manifold includes a 4" butterfly valve, 4" swing check valve and pressure gauge
- 1-1/2" chase water plumbing with gate valves
- Screen manifold with flow control valves for each spray bar
- Fourteen (14) spray bars with a total of one hundred ten (110) 7.0 gpm (@ 40 psi) spray nozzles and eighty-four (84) 15.0 gpm (@ 40 psi) spray nozzles
- 3" connection on the screen manifold for the optional feed box

Screen Chutes / Fines Hopper

- 3/16" A36 welded plate steel construction
- Chutes allow for positioning of three (3) radial stackers under the chutes
- Fines hopper transitions to form the feed box and baffle plate of the 44" twin fine material washer

Access

- 24" wide access platform with 1-1/2" OD handrails and toeboards across the feed end of the screen
- 19" wide access platform with 1-1/2" OD handrails and toeboards along both sides of the screen
- Ladder access from grade which can be located on either side of the plant

Optional Equipment

- AR or urethane chute and hopper wear liners
- Fold-down feed box with winch and header pipes
- Wire mesh or urethane screen media
- Electrical package
- Blending gates
- Landing gear
- Hydraulic run-on jacks with electric or gas power pack
- Swing-away top and middle deck overs chutes
- Cross conveyors
- Remote grease package
- Hydraulic screen adjust
- Flare mounting in the king pin area
- Hinged/folding flares
- 36"T fine material washer vs 44"T

Physical/Operating Characteristics

Dimension	Standard	Metric
Feed Material Size	- 6"	- 152.4mm
Approx. Capacity	700 TPH	635.03 MTPH
Water Requirements Up To	2,700 gpm	613.24 m ³ /h
Travel Length Overall	48' 8"	14.83m
Travel Length King Pin to Axle	33' 2"	10.11 m
Travel Width	12'	3.66m
Travel Height	15' 10"	4.83m
Operating Length Overall	48' 8"	14.83m
Operating Width	12' 10 1/2"	3.92m
Operating Height without Feed Box	18' 6 1/2"	5.65m
Operating Height with Feed Box	21' 6"	6.55m
King Pin Load	19,500lb	8,845kg
Axle Load	55,200lb	25,038kg
Overall Load	75,200lb	34,110kg
Second Load (Sand Screw Flares, etc.)	5,000lb	2,268kg

