

# 1822P

## SERIES 1800

### SCREENING/WASHING PLANT



#### Screen

- 6' x 16', 3-deck, step 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

- 5036-25T (36" twin) fine material washer
- Tank is of 3/16" (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 10" 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 15-HP TEFC motor and Dodge TA-II double reduction shaft mount reducer
- Tapered discharge chute set at 45° angle to grade
- See Model 5036-25T Spec Sheet for additional information

#### Fine Material Washer

## Chassis

- Heavy duty 12" I-beam construction
- Tandem walking beam axle arrangement with dual Dana
- 22,000# axles and eight (8) 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" chase water plumbing with gate valves
- Screen manifold with flow control valves for each spray bar
- Eleven(11)spray bars each with eleven(11)7.0gpm (@ 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 36" single fine material washer

## Access

- 24" wide access platform with 1-1/2" OD handrails and toeboards across the feed end and both sides 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
- Wiremesh 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 over chutes
- Cross conveyors
- Remote grease package
- Hydraulic screen adjust

## Physical/Operating Characteristics

Dimension	Standard	Metric
Feed Material Size	- 6"	- 152.4mm
Approx. Capacity	400 TPH	363 MTPH
Water Requirements Up To	1,200 gpm	273 m <sup>3</sup> /h
Travel Length Overall	40'	12.19m
Travel Length King Pin to Axle	28' 1"	8.56m
Travel Width	12'	3.66m
Travel Height	13' 8"	4.17m
Operating Length Overall	40'	12.19m
Operating Width	12' 10½"	3.92m
Operating Height without Feed Box	15' 6"	4.72m
Operating Height with Feed Box	18' 10"	5.74m
King Pin	19,100lb	8,664kg
Axle	33,900lb	15,377kg
Overall Load	53,000lb	24,040kg

