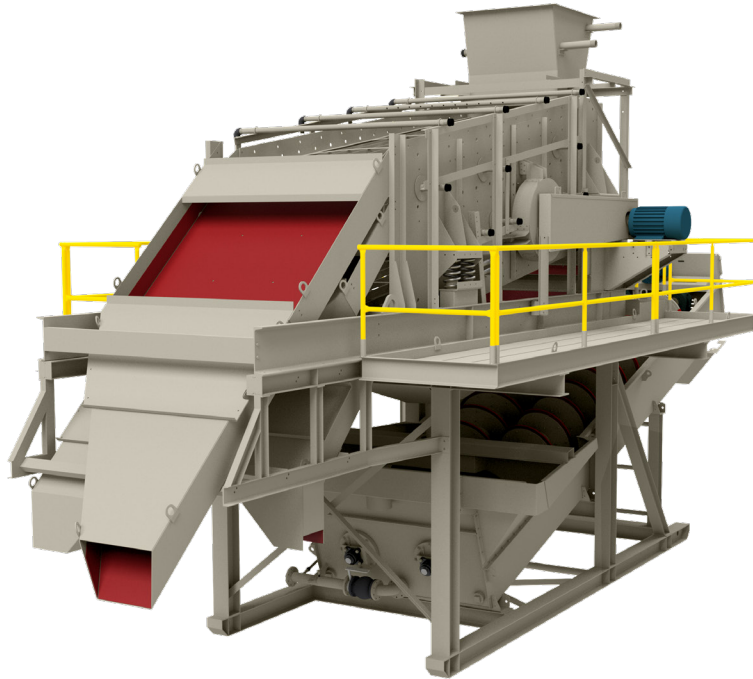


# 1822S

## SERIES 1800

### SCREENING/WASHING PLANT



#### Screen

- 6' x 16', 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

- 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

### Structural Support

- Steel 8" wide-flange support columns and 8" wide-flange skid runners on each side
- Broken down for shipment and match-marked for ease of assembly in the field

### Water System

- All fresh water plumbing to a single 8" 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 with a total of ninety-nine (99) 7.0 gpm (@ 40 psi) spray nozzles and forty-two (42) 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 the feed box of the 36" twin fine material washer

### Access

- 36" wide access platform with 1-1/2" OD handrails and toeboards across the feed end and one side of the screen
- 48" wide access platform with 1-1/2" OD handrails, and toeboards along drive side 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
- Fixed feed box with header pipes
- Wire mesh or urethane screen media
- Electrical package
- Blending gates
- Stair access vs ladder access
- Roll-away top & middle deck overs chutes

### 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
Operating Length	42' 8"	13.00m
Operating Width	16'	4.88m
Operating Height without Feed Box	18' 4½"	5.60m
Operating Height with Feed Box	22'10"	6.96m
Overall Load	90,000lb	40,823kg

