

# 1830S

## Screening/Washing Plant



### Screen

- 6' x 20' (1830mm x 6096mm) 3-deck vibrating screen
- 10° decline angle
- Single eccentric shaft with bolt-in counterweights & 160mm bearings
- 5/16" (8mm) side plates
- Single crown decks with draw plates for side tension screen wire (wire cloth optional)
- Huck® bolted assembly
- V-belt drive with 40 HP (30kW) motor
- Coil spring suspension

### Fine Material Washer

- 5044-32T (44 twin) fine material washer
- Tank is welded plate steel construction and includes a curved bottom with integral rising current manifold (4" dia. ANSI flange inlet)
- Large undisturbed pool area with adjustable weir boards and overflow flume with 12" (305 mm) 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
- V-belt drive (one drive per spiral) includes max 20-HP (15 kW) TEFC motor and Dodge double reduction shaft mount reducer

### Structural Support

- Steel support columns and wideflange 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" NPT inlet located near the tail end of the fine material washer
- Fine material washer manifold includes a butterfly valve, swing check valve and pressure gauge
- Chase water plumbing with gate valves
- Screen manifold with flow control valves for each spray bar
- Fourteen (14) spray bars
- Connection on the screen manifold for the optional feed box

### Screen Chutes / Fines Hopper

- 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 twin fine material washer

### Access

- Access platform with handrails and toeboards across the feed end and 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
- 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 mm
Approx. Capacity	700 TPH	635 MTPH
Water Requirements Up To	2,700 gpm	613 m <sup>3</sup> /h
Operating Length Overall	52' 8"	16.1 m
Operating Width	16' 8"	5.1 m
Operating Height without Feed Box	22' 5"	6.8 m
Operating Height with Feed Box	26' 9"	8.2 m
Overall Load	125,000 lb	56,700 kg

