

1830SH

Screening/Washing Plant



Screen

- 6 x 20 ft (1,830 x 6,096 mm) 3-deck, horizontal vibrating screen
- Triple-shaft vibrating mechanism with 160 mm bearings
- Oval motion stroke pattern
- Adjustable stroke angle and amplitude
- Fully contained oil splash lubrication system
- ¼ in (6 mm) steel side plates
- Single crown decks with draw plates for side tension screen wire (wire cloth optional)
- Huck® bolted assembly
- Adjustable speed using variable pitch motor sheave
- V-belt drive with 40 HP (30 kW) motor
- Steel coil suspension springs

Fine Material Washer

- 5044-32T (44 twin) fine material washer
- Tank is welded steel plate
- Tank has curved bottom with integral rising current manifold with 4-inch diameter ANSI flange inlet
- Large, undisturbed pool area with adjustable weir boards and overflow flume with two 12-inch (305 mm) diameter outlets
- 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 assembly (one drive per spiral) includes maximum 20 HP (15 kW) motor and Dodge double reduction shaft mount reducer

Structural Support

- Steel support columns and 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-inch 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
- Seventeen (17) spray bars
- Connection on screen manifold for optional feed box

Screen Chutes/Fines Hopper

- Welded steel plate construction
- Chutes allow for positioning of three radial stackers under chutes
- Fines hopper transitions to the feed box of 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 available on either side of 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 in place of ladder access
- Roll-away top and middle deck overs chutes

Physical/Operating Characteristics

Dimension	Imperial	Metric
Feed Material Size	6" minus	152 mm minus
Approximate Capacity	700 TPH	635 MTPH
Water Requirements Up To	2,700 gpm	613 m ³ /h
Operating Length Overall	51' 2"	15.6 m
Operating Width	19' 11"	6.1 m
Operating Height without Feed Box	19' 3"	5.9 m
Operating Height with Feed Box	23' 2"	7.1 m
Overall Load	129,000 lb	58,500 kg

