

# 1830PHB

## SERIES 1800

## SCREENING/WASHING PLANT



### Screen

- 6' x 20', 3-deck horizontal wet vibrating screen
- V-belt drive assembly with 40-HP, 1200 RPM motor
- Huck-bolted assembly
- 1/4" plate steel side plates
- 160-mm double-roll spherical self-aligned bearings
- Triple shaft vibrating mechanism complete with keyless hold-fast hub locking assembly
- Oval motion stroke pattern
- Adjustable stoke amplitude (3/8" - 5/8")
- Adjustable stoke angle (30° - 60° in 5° increments)
- Adjustable speed via adjustable motor sheave (675 - 875 RPM)
- Fully contained oil splash lubrication system
- Bolt-on tailgates, 24" feedbox and 4" discharge lips
- Steel coil springs
- Side tension drawbar screen cloth retention system (screen cloth is optional)

### 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

## Blademill

- 6536-15T (36" twin) blademill
- Tank is of 3/16" (sides and bottom) and 3/8" (rear end plate) welded plate steel construction and includes integral rising current manifold (4" dia inlet)
- Double pitch, combination of bolt-on flight and paddle assemblies with AR steel inner wear shoes, cast ni-hard outer wear shoes and cast ni-hard paddle tips
- 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 40-HP TEFC motor and Dodge TA-II double reduction shaft mount reducer
- Tapered discharge chute with 3/16" AR liners and flashing to discharge onto the screen
- Feed box with header pipe

## Chassis

- Heavy duty 15" and 12" I-beam construction
- 2+2 axle arrangement with Dana 22,000# axles and sixteen (16) 11:00 x 22.5 tires
- Fifth wheel king pin, air brakes, travel lights, mudflaps and cribbing locations
- Fixed supports for the screen
- Hydraulically adjusted supports for the fine material washer and the blademill

## 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
- 2" chase water plumbing with gate valves
- Screen manifold with flow control valves for each spray bar
- Seventeen (17) spray bars each with nineteen (19) 10.0 gpm (@ 40 psi) spray nozzles
- Blademill plumbing includes a 4" butterfly flow control valve and 3" gate valve with plumbing to the 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

- 28-1/2" 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
- Wire mesh or urethane screen media
- Electrical package
- Blending gates
- Landing Gear
- Hydraulic run-on jacks with electrical or gas power pack
- Swing-away top and middle deck over chutes
- Cross conveyors
- Remote grease package
- Blademill walkway with access ladder
- Flare mounting in the king pin area
- Hinged/folding flares

## Physical/Operating Characteristics

Dimension	Standard	Metric
Feed Material Size	- 2 1/2"	-63.5mm
Approx. Capacity	700 TPH	635.03 MTPH
Water Requirements Up To	2,700 gpm	613.24 m <sup>3</sup> /h
Travel Length Overall	61'	18.59m
Travel Length King Pin to Rear Axle	56' 5"	17.20m
Travel Width	12'	3.66m
Travel Height	14' 11"	4.55m
Operating Length Overall	52' 6"	16.00m
Operating Width	12' 9"	3.89m
Operating Height	22' 10"	6.96m
King Pin Load	42,000lb	19,051kg
Axle Load	74,000lb	33,566kg
Overall Load	116,000lb	52,617kg

