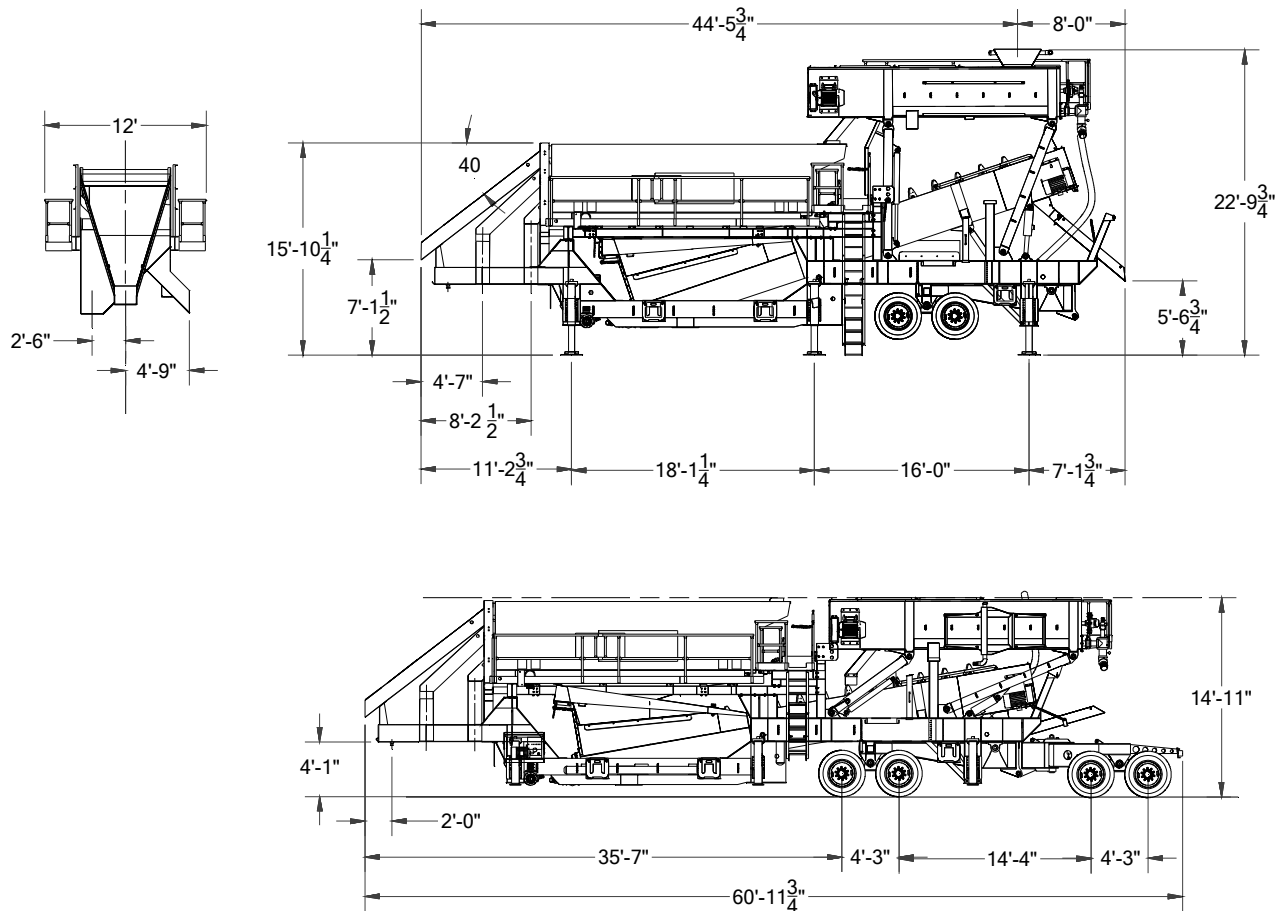


SERIES 1800 SCREENING/WASHING PLANT

Model 1830PHB Spec Sheet



● SCREEN

- KPI-JCI 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

- KPI-JCI Model 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 dual 12" dia 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
 - 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

- KPI-JCI Model 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

● PHYSICAL / OPERATING CHARACTERISTICS

- Feed Material Size - Typically 2-1/2" minus
 - Capacity - Approximately 700 TPH (dependent on feed gradation and desired products)
 - Water Requirements - Up to 2,700 gpm (dependent on feed gradation and desired products)
 - Travel Dimensions
 - Length 61' overall / 56'-5" king pin to rear axle
 - Width 12'-0"
 - Height 14'-11"
 - Operating Dimensions
 - Length 52'-6" overall
 - Width 12'-9"
 - Height 22'-10"
 - Loads
 - King Pin 42,000 lbs
 - Axle 74,000 lbs
 - Overall 116,000 lbs
- Note individual plant weights will vary dependent on options included

● 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 overs chutes
- Cross conveyors
- Remote grease package
- Blademill walkway with access ladder
- Flare mounting in the king pin area
- Hinged/folding flares

FOR MORE INFORMATION CALL 1-800-542-9311 AND ASK FOR A KOLBERG EQUIPMENT SPECIALIST

NOTE: Specifications are subject to change without notice.

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