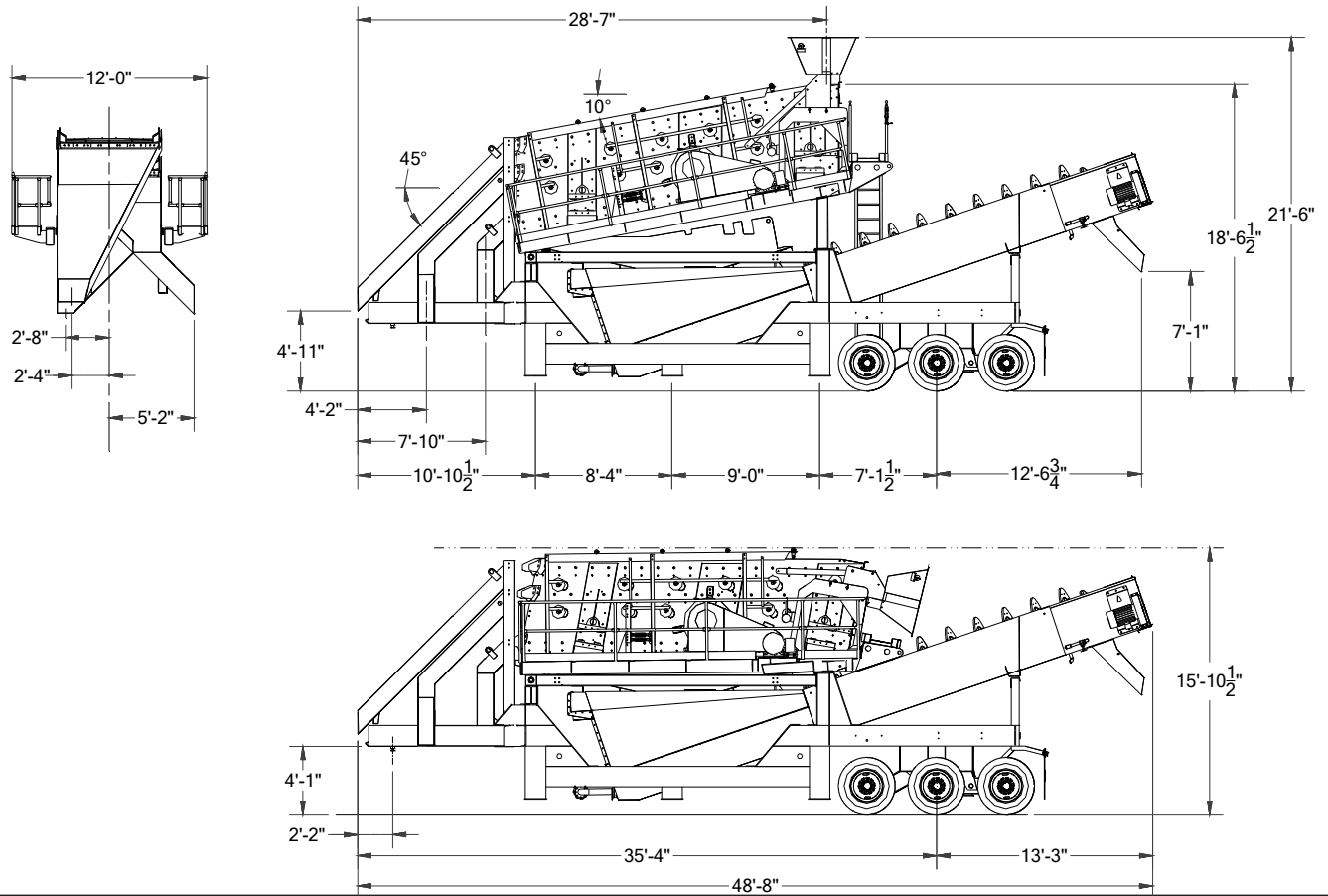


# SERIES 1800 SCREENING/WASHING PLANT

## Model 1830P Spec Sheet



### ● SCREEN

- KPI-JCI 6' x 20', 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

- 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 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

## ● CHASSIS

- Heavy duty 15" I-beam construction
- Equalizing walking beam axle arrangement with triple Dana 22,000# axles and twelve (12) 11:00 x 22.5 tires
- Fifth wheel king pin, air brakes, travel lights, mudflaps and cribbing locations

## ● WATER SYSTEM

- All fresh water plumbing to a single 6" 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
- 1-1/2" chase water plumbing with gate valves
- Screen manifold with flow control valves for each spray bar
- Fourteen (14) spray bars with a total of one hundred ten (110) 7.0 gpm (@ 40 psi) spray nozzles and eighty-four (84) 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 form the feed box and baffle plate of the 44" twin fine material washer

## ● ACCESS

- 24" 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 6" 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 48'-8" overall / 33'-2" king pin to axle
  - Width 12'-0"
  - Height 15'-10"
- Operating Dimensions
  - Length 48'-8" overall
  - Width 12'-10-1/2"
  - Height 18'-6-1/2" without feed box / 21'-6" with feedbox
- Loads
  - King Pin 19,500 lbs
  - Axle 55,700 lbs
  - Overall 75,200 lbs
- Second Load (sand screw flares, etc) 5,000 lbs  
Note individual plant weights will vary dependent on options included

## ● OPTIONAL EQUIPMENT

- AR or urethane chute and hopper wear liners
- Fold-down feed box with winch and header pipes
- Wire mesh or urethane screen media
- Electrical package
- Blending gates
- Landing gear
- Hydraulic run-on jacks with electric or gas power pack
- Swing-away top and middle deck overs chutes
- Cross conveyors
- Remote grease package
- Hydraulic screen adjust
- Flare mounting in the king pin area
- Hinged/folding flares
- 36"T fine material washer vs 44"T

**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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