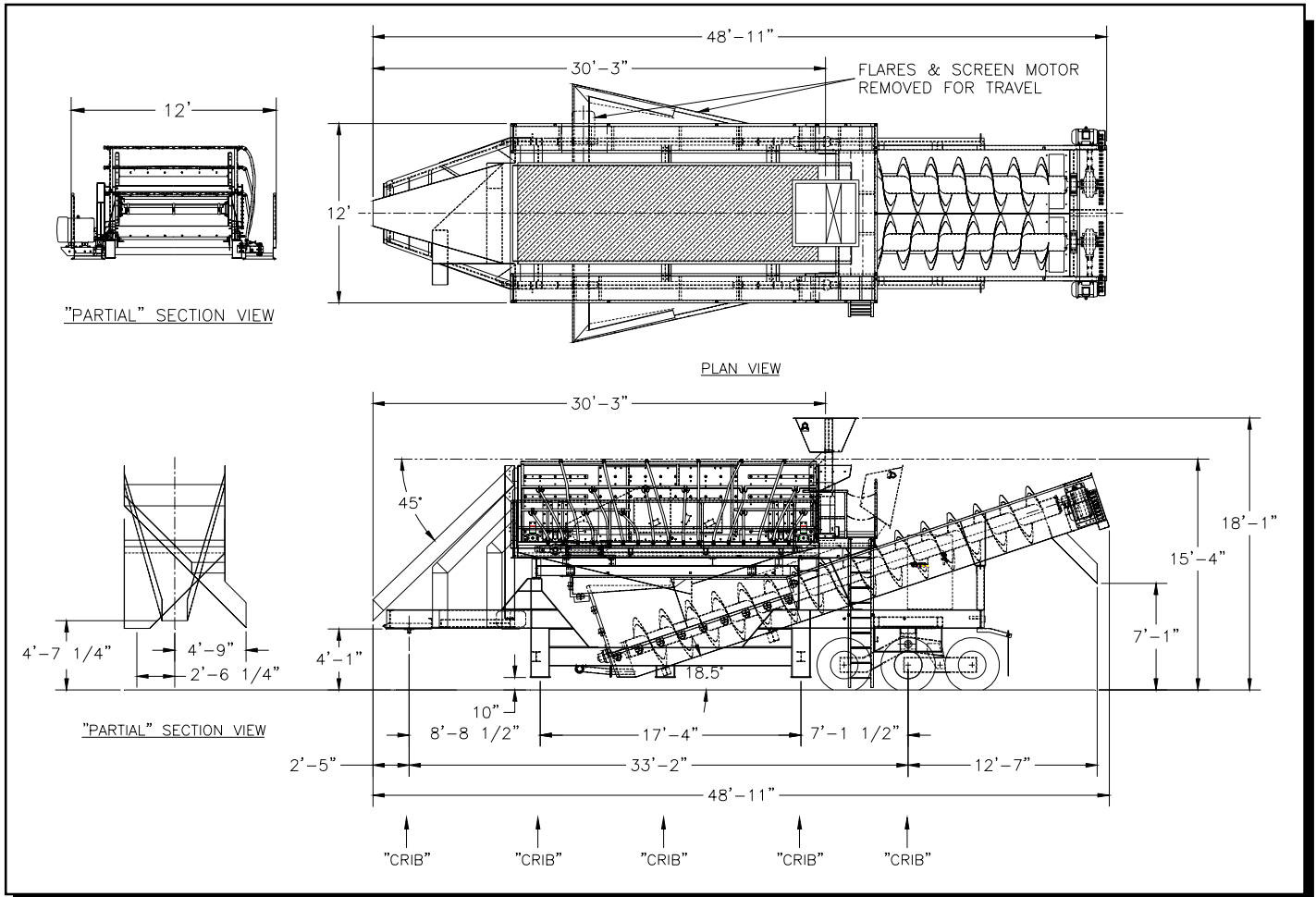




# SERIES 1800 SCREENING/WASHING PLANT Model 1830PH Spec Sheet



## SCREEN:

Kolberg-Pioneer Inc. horizontal 6' x 20' triple deck vibrating screen featuring 40 HP v-belt drive (1200 RPM motor), huck bolted assembly, 1/4" plate steel side plates, 160 mm double-roll spherical self-aligning bearings, triple shaft vibrating mechanism complete with keyless hold-fast hub locking assembly, stroke amplitude (9/16"-3/4") and angle (30°-60° in 5° increments) adjustment, adjustable speed motor sheave (675-875 rpm) and fully contained splash oil lubrication. Other features include heavy duty rubber spring suspension system with rubber snubbers and side tension drawbar screen cloth retention system (screen cloth is optional).

## KOLBERG MODEL 5044-32T SANDPREP (FINE MATERIAL WASHER):

Tank is of 1/4" and 3/8" plate steel construction and includes the following features: 1) Drive assembly (one

drive assembly per spiral) includes a high efficiency Dodge TA7315H40 shaft mount reducer, 20 HP motor and v-belts (sheave changes are all that is required to adjust the screw speed), 2) Greaseable Dodge upper and lower bearings, 3) Stainless steel wear sleeve, water tight rubber seal and secondary grease seal prevent leakage and wear on the lower stub shafts for longer service life, 4) Double pitch, solid flight spirals with steel inner wear shoes and urethane outer wear shoes (ni-hard outer wear shoes are optional), 5) 26' of adjustable weir boards designed to handle large volumes of slurry and to control the pool level for uniform overflow, 6) A large undisturbed pool area which provides accurate material classification, 7) Rising current manifold with 4" inlet designed to control fines and velocity within the pool and 8) 1 1/2" chase water line to flush water down the inside of the tub wall to clear the drain trough.

**Note:** See Model 5044-32T specification sheet for further information.

**NOTE:** Specifications are subject to change without notice.

## WATER SYSTEM:

All water required for the plant is factory plumbed to a single 6" dia. inlet near the tail end of the sandprep. The primary manifold includes a 4" butterfly valve, 4" swing check valve, 0-100 psi pressure gauge and flexible 4" connection to the screen manifold. A 1½" connection with two (2) gate valves for the chase water of the sandprep (one gate valve for each drain trough) is provided from the screen manifold. The screen manifold also includes seventeen (17) 1¼" gate valves for water control to the seventeen (17) spray bars located on the screen. Each spray bar is fitted with nineteen (19) spray nozzles, each with a capacity of 10.0 gpm @ 40 psi. An additional 3" connection is included in the screen manifold to provide water to the optional feed/slurry box.

## SCREEN CHUTES / FINES HOPPER:

Screen overs chutes are constructed of 3/16" plate steel and allow for three stacking conveyors to be positioned under the king pin area of the plant reducing the need for constant moving of material with a loader. The fines hopper located under the screen is also constructed of 3/16" plate steel and transitions to form the feed box and baffle of the 44" twin sand screw.

## WALKWAY:

A 28½" wide walkway is provided across the back of the screen and a 19" wide walkway is provided along both sides of the screen. The walkway includes grip-strut decking and 1-1/2" O.D. top and intermediate handrail pipes. Access is via a 16" wide removable ladder to grade. The walkway is an integral part of the heavy duty screen support structure.

## CHASSIS:

Main truck frame beams are of heavy 15" I-beam construction. Chassis includes fifth wheel king pin, triple Dana 22,000# axles, dual 11:00 x 22.5 tires (total of twelve), air brakes, travel lights (i.e. - stop, tail and turn), mudflaps and cribbing locations.

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YOUR AUTHORIZED DEALER:**

## PHYSICAL/OPERATING CHARACTERISTICS:

Overall Length: 33'-2" (king pin to axle)  
Travel Width: 12'-0"  
Travel Height: 15'-4"  
Feed Height: 15'-4" (without feedbox)  
Feed Height: 18'-1" (with feedbox)  
Overall Weight: 75,050 lbs.  
King Pin: 22,200 lbs.  
Axle: 52,850 lbs.  
Second Load Misc. Weight: 6,000 lbs.  
**Note:** Individual plant weights will vary dependent upon options.

Sandprep Capacity: 350 tph (@ 100% of screw speed)  
Water Requirements: Up to 2,700 gpm (dependent on feed gradation)

## OPTIONAL EQUIPMENT:

- \* Feed/Slurry Box: 48" x 48" top opening with one (1) 3" dia. header pipe. Hinged design with manual winch to lower the feed box into the travel position.
- \* Wear Liners: 3/16" AR weld-in liners for all three screen overs chutes and the fines collecting hopper.
- \* Wedge Bolts: Wedge bolts for screen cloth retention in lieu of standard bolts and beveled washers.
- \* Quickstop (screen).
- \* Screen Cloth.
- \* Electrical: NEMA 4 control panel with main circuit breaker, on/off switches for the screen and sand screw and capacity for additional starters (consult factory for specific details). Control panel mounted on the truck frame and hard wired to the screen and sand screw motors.
- \* Ni-hard Outer Wear Shoes vs. Std. Urethane (sand screw).
- \* Side-delivery Conveyors: Center & Bottom deck overs side-delivery conveyors (24" x 8' fixed or 24" x 14' folding conveyors).

**NOTE:** Specifications are subject to change without notice.

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