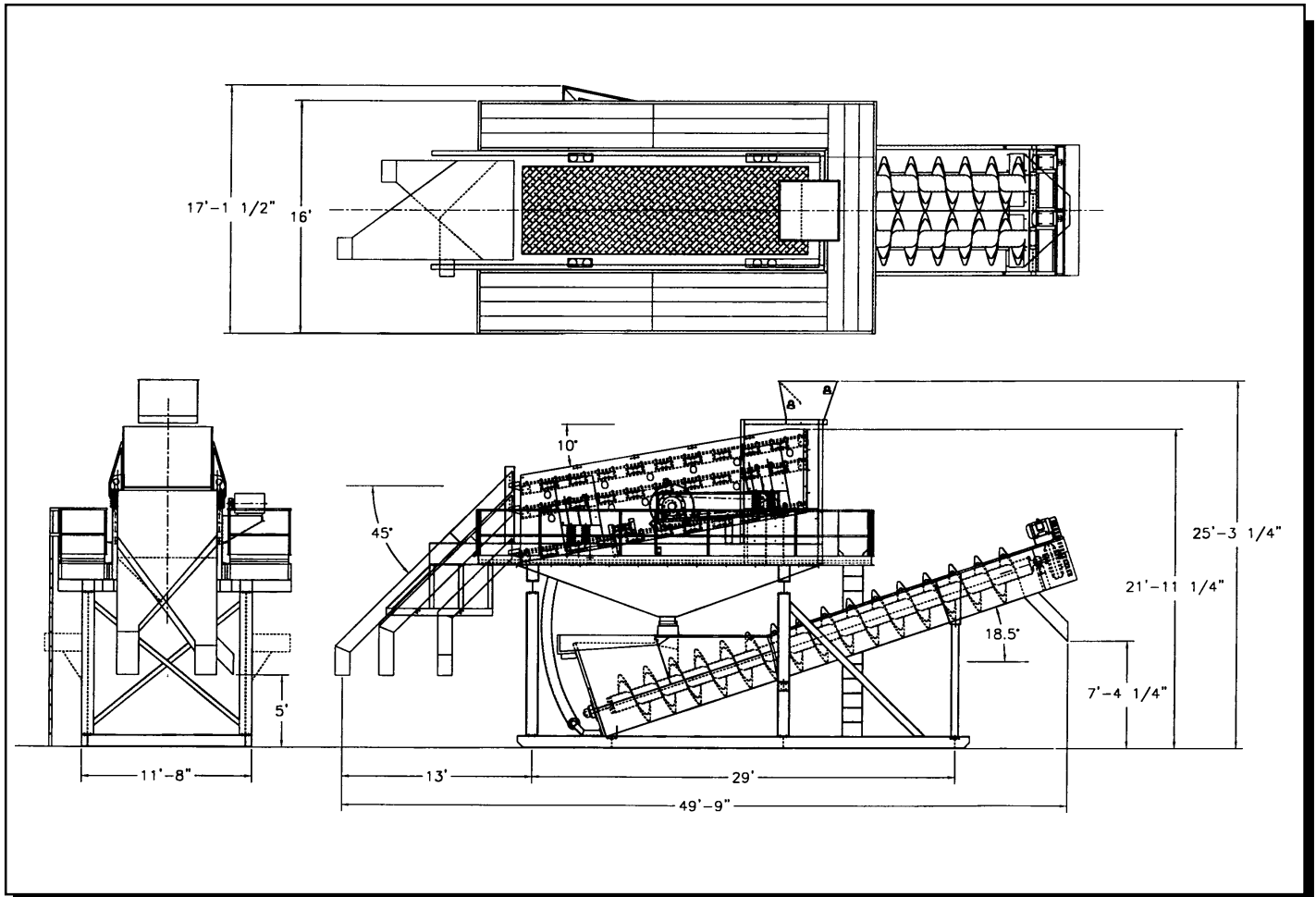




SERIES 1800 SCREENING/WASHING PLANT Model 1830S Spec Sheet



SCREEN:

Pioneer 6' x 20' triple deck vibrating screen featuring 40 HP v-belt drive, huck bolted deck frames, 3/8" plate steel side plates, two (2) 160 mm bearings, eccentric shaft with additional bolt-in counterweights, eight (8) coil spring suspension system and side tension drawbar screen cloth retention system (screen cloth is optional). The heavy duty screen operates at a 10° angle with a shaft speed of approx. 920 rpm.

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 8" 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, flexible 8" connection to the screen manifold and a 1 1/2" connection with two (2) gate valves for the chase water of the sandprep (one gate valve for each drain trough). The screen manifold includes fourteen (14) 2" gate valves for water control to the fourteen (14) spray bars located on the screen. The spray bars include a total of 132 spray nozzles, each with a capacity of 7.0 gpm @ 40 psi and 42 spray nozzles, each with a capacity of 15.0 gpm @ 40 psi. An additional 4" 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 chutes, 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 the feed box of the 44" twin sand screw.

WALKWAY:

A 36" wide walkway is provided across the back of the screen and along one side of the screen. A 48" wide walkway is provided along the other side (drive side) of the screen. The walkways include grip-strut decking and 1-1/2" O.D. top and intermediate handrail pipes. Access is via a 16" wide removable ladder to grade.

STRUCTURAL SUPPORT:

The support structure is manufactured of structural steel and includes 10" wide-flange support columns and 10" wide-flange skid runners on each side for ease of positioning on the jobsite. The structure is broken down for shipment and is match-marked for ease of assembly in the field.

**FOR MORE INFORMATION CALL 1-800-542-9311 AND ASK FOR A KOLBERG EQUIPMENT SPECIALIST.
YOUR AUTHORIZED DEALER:**

PHYSICAL/OPERATING CHARACTERISTICS:

Overall Length: 50'-3"
Overall Width: 17'-1 1/2"
Feed Height: 21'-11 1/4" (without feedbox)
Feed Height: 25'-3 1/4" (with feedbox)
Overall Weight: Approx. 125,000 lbs. (live load)
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: Fixed 48" x 48" top opening with one (1) 4" dia. header pipe.
- * 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).

NOTE: Specifications are subject to change without notice.

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