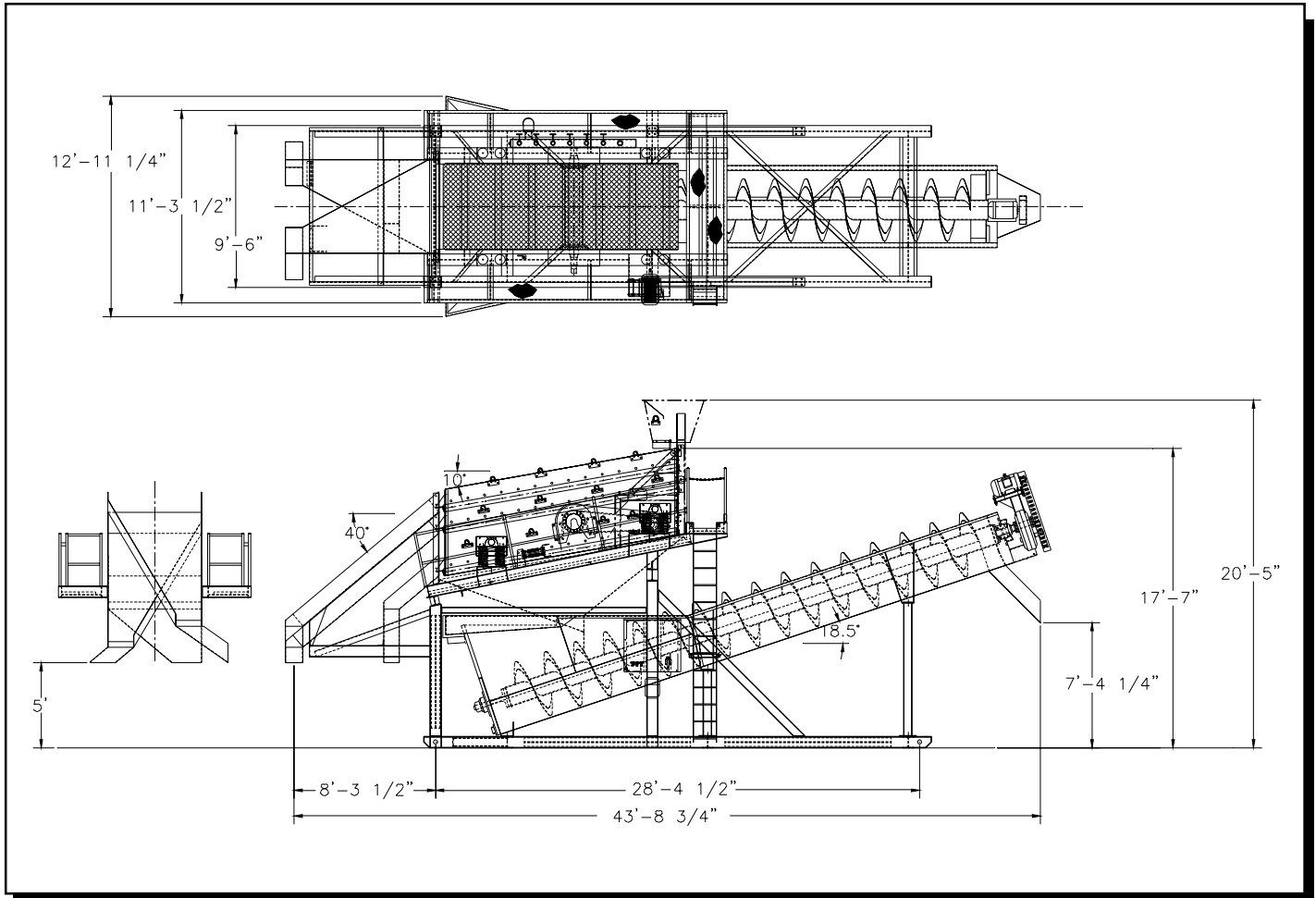




## SERIES 1800 SCREENING/WASHING PLANT Model 1814-S44 Spec Sheet



### SCREEN:

Kolberg 5' x 14' triple deck vibrating screen featuring 20 HP v-belt drive, huck bolted deck frames, 5/16" plate steel side plates, two (2) 110 mm bearings, external eccentric flywheels with bolt-in weights, 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. 1000 rpm.

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

Tank is of 1/4" and 3/8" plate steel construction and includes the following features: 1) Drive assembly 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 shaft for longer service life, 4) Double pitch, solid flight spiral with steel inner wear shoes and urethane outer wear shoes (ni-hard outer wear shoes are optional), 5) 22' 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 5044-32S 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, flexible 4" connection to the screen manifold and a 1 1/2" connection with a gate valve for the chase water of the sandprep. The screen manifold includes six (6) 2" gate valves for water control to the twelve (12) spray bars located on the screen. Each spray bar is fitted with nine (9) spray nozzles, each with a capacity of 7.0 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 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 form the feed box and baffle of the 44" sand screw.

## **WALKWAY:**

A 24" wide walkway is provided along the back and 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.

## **STRUCTURAL SUPPORT:**

The support structure is manufactured of structural steel and includes 8" wide-flange support columns and 8" 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.

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YOUR AUTHORIZED DEALER:**

## **PHYSICAL/OPERATING CHARACTERISTICS:**

Overall Length: 43'-9"

Overall Width: 12'-11"

Feed Height: 17'-7" (without feedbox)

Feed Height: 20'-5" (with feedbox)

Overall Weight: Approx. 36,900 lbs.

Note: Individual plant weights will vary dependent upon options.

Sandprep Capacity: 175 tph (@ 100% of screw speed)

Water Requirements: Approx. 1500 gpm (dependent on feed gradation)

## **OPTIONAL EQUIPMENT:**

- \* Feed/Slurry Box: 42" x 42" top opening with one (1) 3" 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.
- \* 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).

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