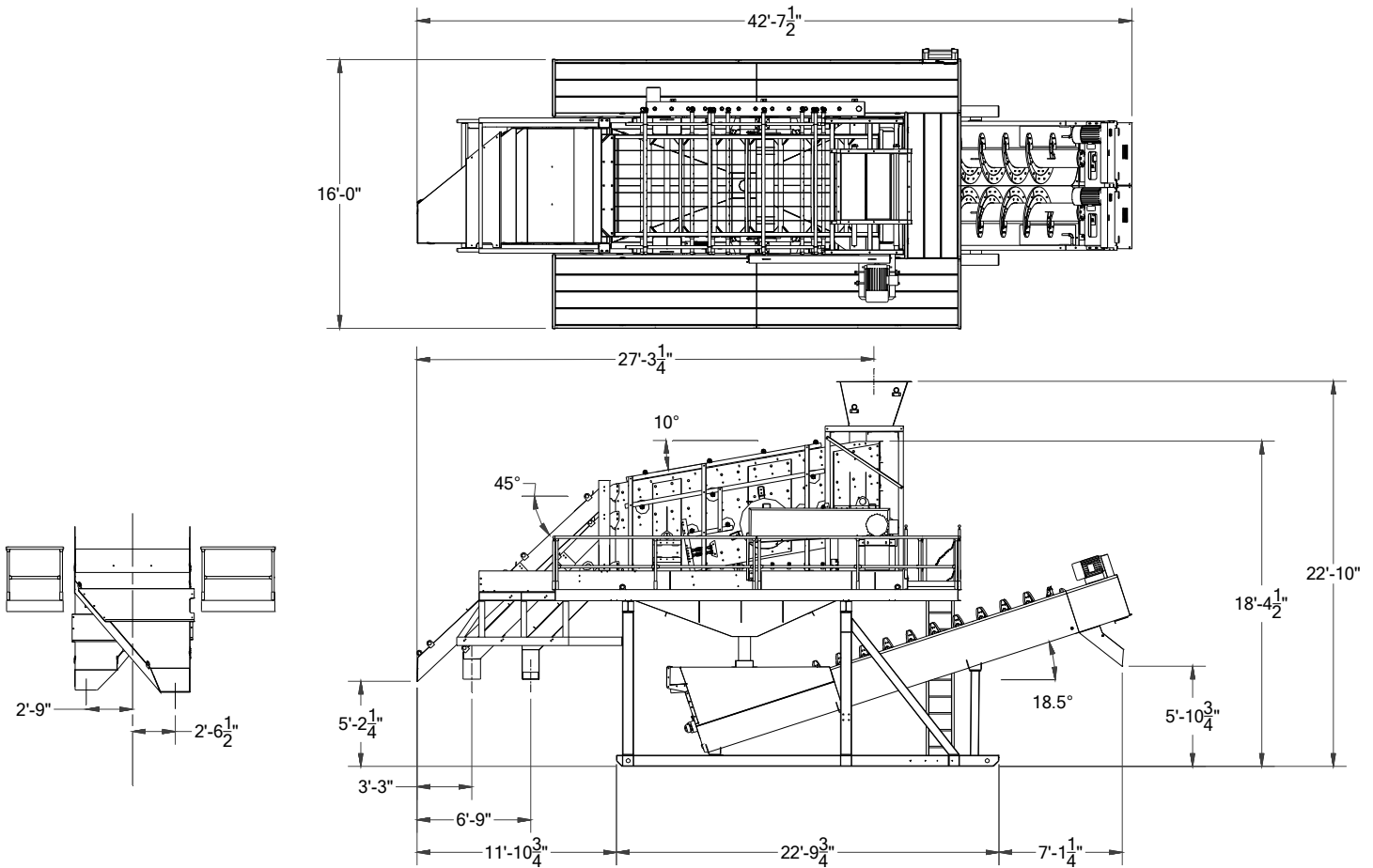


# SERIES 1800 SCREENING/WASHING PLANT

## Model 1822S Spec Sheet



### ● SCREEN

- KPI-JCI 6' x 16', 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 5036-25T (36" twin) fine material washer
    - Tank is of 3/16" (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 10" 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 15-HP TEFC motor and Dodge TA-II double reduction shaft mount reducer
    - Tapered discharge chute set at 45° angle to grade
- See Model 5036-25T Spec Sheet for additional information

## ● STRUCTURAL SUPPORT

- Steel 8" wide-flange support columns and 8" wide-flange skid runners on each side
- Broken down for shipment and match-marked for ease of assembly in the field

## ● 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
- 1" chase water plumbing with gate valves
- Screen manifold with flow control valves for each spray bar
- Eleven (11) spray bars with a total of ninety-nine (99) 7.0 gpm (@ 40 psi) spray nozzles and forty-two (42) 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 the feed box of the 36" twin fine material washer

## ● ACCESS

- 36" wide access platform with 1-1/2" OD handrails and toeboards across the feed end and one side of the screen
- 48" wide access platform with 1-1/2" OD handrails, and toeboards along drive side 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 400 TPH (dependent on feed gradation and desired products)
- Water Requirements - Up to 1,200 gpm (dependent on feed gradation and desired products)
- Operating Dimensions
  - Length 42'-8" overall
  - Width 16'-0"
  - Height 18'-4-1/2" without feed box / 22'-10" with feedbox
- Loads
  - Overall 90,000 lbs
  - Note individual plant weights will vary dependent on options included

## ● OPTIONAL EQUIPMENT

- AR or urethane chute and hopper wear liners
- Fixed feed box with header pipes
- Wire mesh or urethane screen media
- Electrical package
- Blending gates
- Stair access vs ladder access
- Roll-away top & middle deck overs chutes

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

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

Because KPI-JCI may use in its catalog & literature, field photographs of its products which may have been modified by the owners, products furnished by KPI-JCI may not necessarily be as illustrated therein. Also continuous design progress makes it necessary that specifications be subject to change without notice. All sales of the products of KPI-JCI are subject to the provisions of its standard warranty. KPI-JCI does not warrant or represent that its products meet any federal, state, or local statutes, codes, ordinances, rules, standards or other regulations, including OSHA and MSHA, covering safety, pollution, electrical wiring, etc. Compliance with these statutes and regulations is the responsibility of the user and will be dependent upon the area and the use to which the product is put by the user. In some photographs, guards may have been removed for illustrative purposes only. This equipment should not be operated without all guards attached in their normal position. Placement of guards and other safety equipment is often dependent upon the area and how the product is used. A safety study should be made by the user of the application, and, if required additional guards, warning signs and other safety devices should be installed by the user, wherever appropriate before operating the products.



700 W 21st. St., Yankton, SD 57078  
1-800-542-9311 Fax: 605-665-8858

Email: [mail@kpijci.com](mailto:mail@kpijci.com)  
[www.kpijci.com](http://www.kpijci.com)  
Mdl 1822S Rev. 2, 08/09