

# 1830PH

SERIES 1800 SCREENING/WASHING PLANT



## Screen

KPI-JCI 6' x 20', 3-deck horizontal wet vibrating screen

- V-belt drive assembly with 40-HP, 1200 RPM motor
- Huck-bolted assembly
- 1/4" plate steel side plates
- 160-mm double-roll spherical self-aligned bearings
- Triple shaft vibrating mechanism complete with keyless hold-fast hub locking assembly
- Oval motion stroke pattern
- Adjustable stroke amplitude (3/8" - 5/8")
- Adjustable stroke angle (30° - 60° in 5° increments)
- Adjustable speed via adjustable motor sheave (675 - 875 RPM)
- Fully contained oil splash lubrication system
- Bolt-on tailgates, 24" feedbox and 4" discharge lips
- Steel coil springs
- Side tension drawbar screen cloth retention system (screen cloth is optional)

## 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 45o 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
- Seventeen (17) spray bars each with nineteen (19) 10.0 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

- 28-1/2" 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

## 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
- Flare mounting in the king pin area
- Hinged/folding flares
- 36" T fine material washer vs 44" T

## Physical/Operating Characteristics

Dimension	Standard	Metric
Feed Material Size	- 6"	- 63.5mm
Approx. Capacity	700 TPH	635.03 MTPH
Water Requirements Up To	2,700 gpm	613.24 m <sup>3</sup> /h
Travel Length Overall	48'11"	14.91m
Travel Length King Pin to Axle	33'2"	10.11m
Travel Width	12'	3.66m
Travel Height	15'4"	4.67m
Operating Length Overall	48'11"	14.91m
Operating Width	12'9"	3.89m
Operating Height without Feed Box	15'4"	4.67m
Operating Height with Feed Box	18'1"	5.51m
King Pin Load	22,200 lbs.	98.75 kN
Axle Load	52,850 lbs.	235.09 kN
Overall Load	75,050 lbs.	333.84 kN
Second Load (Sand Screw Flares, etc.)	6,000 lbs.	26.69 kN



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### NOTE: CONSULT FACTORY FOR EXACT DIMENSIONS, specifications are subject to change without notice.

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