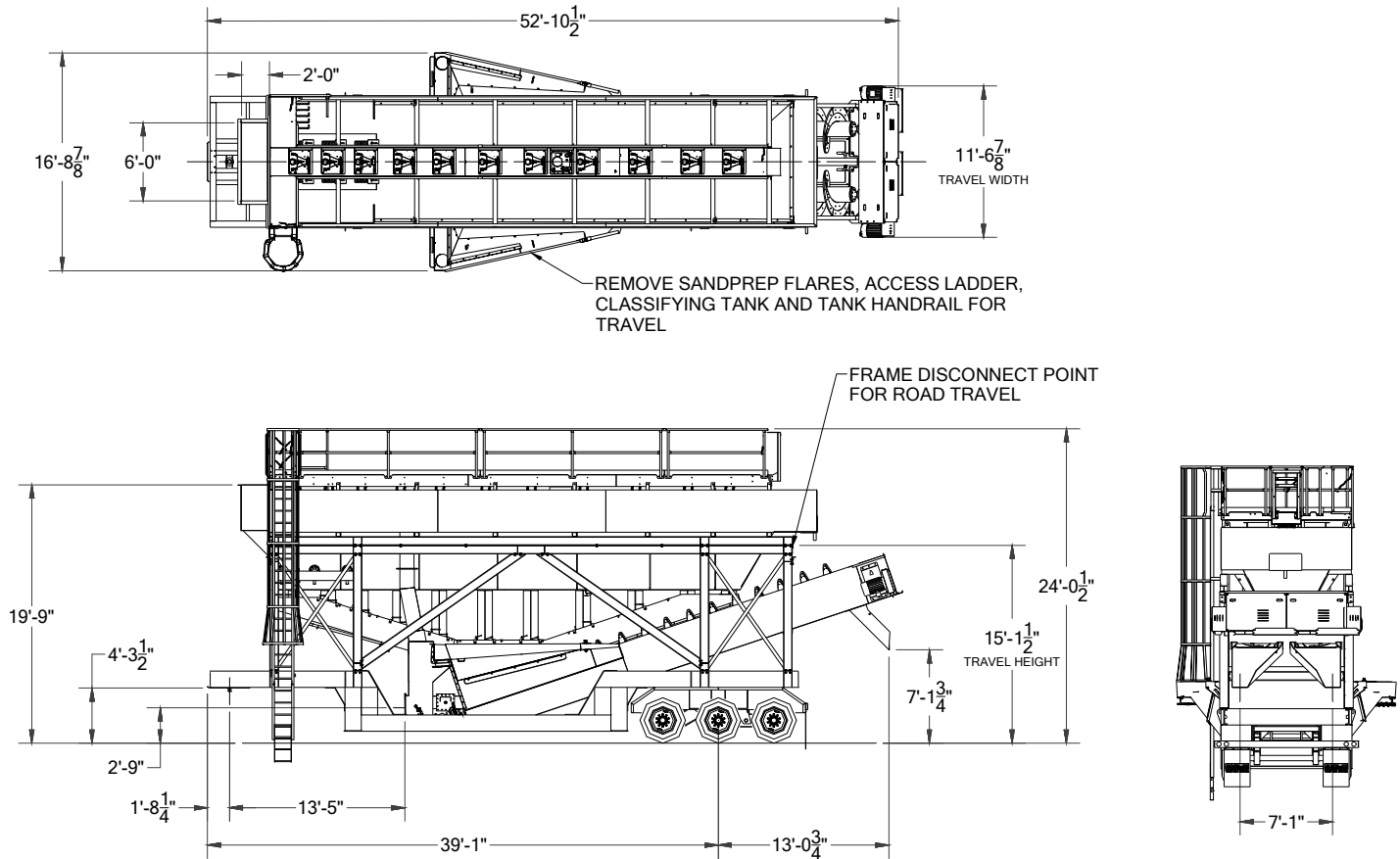


SERIES 7000 CLASSIFYING TANK

Model 7110-40P44T Spec Sheet



MODEL #7110-40 CLASSIFYING TANK

• MAIN TANK & COLLECTING FLUME

- Main tank - 1/4" (sides, ends, overflow launder & feed box) and 3/8" (bottom plate) welded plate steel construction
- Integral feed box with 1/4" AR curved liner and nominal 2' x 6' feed opening
- 74' of adjustable weir boards
- Integral overflow launder with dual discharge outlets
- Ladder rungs located near the feed end of the tank for internal tank access
- Self-support tank design with external stiffeners only - no internal stiffeners
- Three-cell collecting flume - 3/16" welded plate construction (unlined)

• WALKWAY & MECHANISM SUPPORT

- 24" wide diamond deck walkway across the feed end and down the center of the tank
- 1-1/2" O.D. posts, top and intermediate handrails
- 4" toeboards
- Removable/hinged door sections at each station
- Walkway support structure also houses and supports the electric/hydraulic operating mechanism

• VALVES, VALVE SEATS, DOWNPIPES & DISCHARGE ELBOWS

- Self-aligning urethane dart valves
- "Snap-in" urethane valve seats
- 6" schedule 40 UV rated PVC downpipes
- Urethane discharge elbows with rectangular discharge

• OPERATING MECHANISM

- 3 HP electric/hydraulic power pack with nominal 3 micron filtration
- 750-psi (adjustable to 1,000-psi) hydraulic system
- 10-gal. hydraulic reservoir
- Accumulator
- Eleven (11) settling stations each including:
 - * One (1) 24-volt DC adjustable height sensing paddle assembly
 - * Three (3) discharge valves with adjustable down rods operated by hydraulic cylinders
 - * Hydraulic manifold block with cartridge valves and 24-volt DC coils
 - * Individual ball and check valves
 - * Stainless steel hydraulic plumbing with o-ring face seal fittings

Operating Mechanism continued on next page

● OPERATING MECHANISM

- All stations prewired to a bridge mounted NEMA 4 junction box which also houses the PLC (programmable logic controller)
- All wiring in the form of “plug and receptacle” type cords
- Controller: Standard Dell PC HMI (human-machine-interface) including CPU, monitor, keyboard, optical mouse and Windows™ based programming. An optional industrial PC HMI with touch screen housed in a NEMA 4 enclosure is available for outdoor installations

Note: See Model #7110-40 specification sheet for additional information

MODEL #5044-32T DEWATERING SCREW:

● MAIN TANK

- 1/4” (sides & bottom) and 3/8” (rear end plate) welded plate steel construction
- Curved bottom with integral rising current manifold (4” dia. inlets)
- Large undisturbed pool area
- 26’ of adjustable weir boards
- 1-1/2” chase water line connection
- Integral overflow flume

● SPIRAL ASSEMBLY

- Spiral pipe - heavy wall 14” dia.
- Double pitch, solid flight spiral (one right hand, one left hand)
- Standard AR steel inner wear shoes
- Standard urethane outer wear shoes (cast Ni-Hard outer wear shoes are optional)
- Greaseable, externally mounted Dodge Imperial E tail end flange bearing
- Greaseable Dodge Type E pillow block head end bearing
- Lower end seal - chrome plated stainless steel wear sleeve, water tight bellows type rubber seal and secondary grease seal

● DRIVE ASSEMBLY (one drive assembly per spiral)

- High efficiency v-belt drive assembly
- 20 HP TEFC motor
- Dodge TA-II double reduction shaft mount reducer

● DISCHARGE CHUTES

- Independent/reversible tapered discharge chutes set at 45° angle to grade

● RISING CURRENT ACCESSORIES

- Externally mounted manifold with 4” butterfly flow control valve, 4” swing check valve, 0-100 psi pressure gauge and 1” gate valve and plumbing to the chase water connection

Note: See Model #5044-32T specifications sheet for additional information

PLANT

● CHASSIS

- Main truck frame beams - 15” I-beam
- Fifth wheel king pin
- Triple walking-beam axle with dual 11:00 x 22.5 tires
- Air brakes
- Travel lights (stop, tail and turn)
- Mudflaps
- Cribbing locations
- Removeable ladder access to the bridge of the classifying tank

● PHYSICAL/OPERATING CHARACTERISTICS

- Feed Material Size - minus 3/8”
- Capacity - TPH dependent on water requirements for proper feed material dilution and desired material retention
- Water Requirements - up to 5,900 gpm
- Travel Dimensions - Plant 52’11” L x 11’7” W x 15’2” H
2nd Load 44’4” L x 10’3” W x 9’6” H
(typically shipped on a 48’ single drop step deck trailer)
- Operational Dimensions - 52’11” L x 16’9” W x 24’1” H
- Loads King Pin = 13,260 lbs.
Axle = 44,940 lbs.
Overall = 58,200 lbs.
Second Load = 27,750 lbs.

Note: Individual plant weights will vary dependent on options included

Note: The classifying tank must be removed for transport and shipped on a separate load

● OPTIONAL EQUIPMENT

- Three-cell rising current classifier (includes external manifold, individual flow control valves and internal baffling at the first three stations within the classifying tank)
- 8” flanged, pressure reducing/check valve
- Recirculating pump
- AR or urethane liners for the three-cell collecting flume
- Hinged/folding flares
- Model #7208-32P44T: KPI-JCI exclusive system monitoring components that monitor the mechanical, hydraulic and electrical functions of the classifying tank and alert the operator, both locally and remotely, of potentially failed components and/or operational conditions that are outside the normal operating parameters.

NOTE: Specifications are subject to change without notice.

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