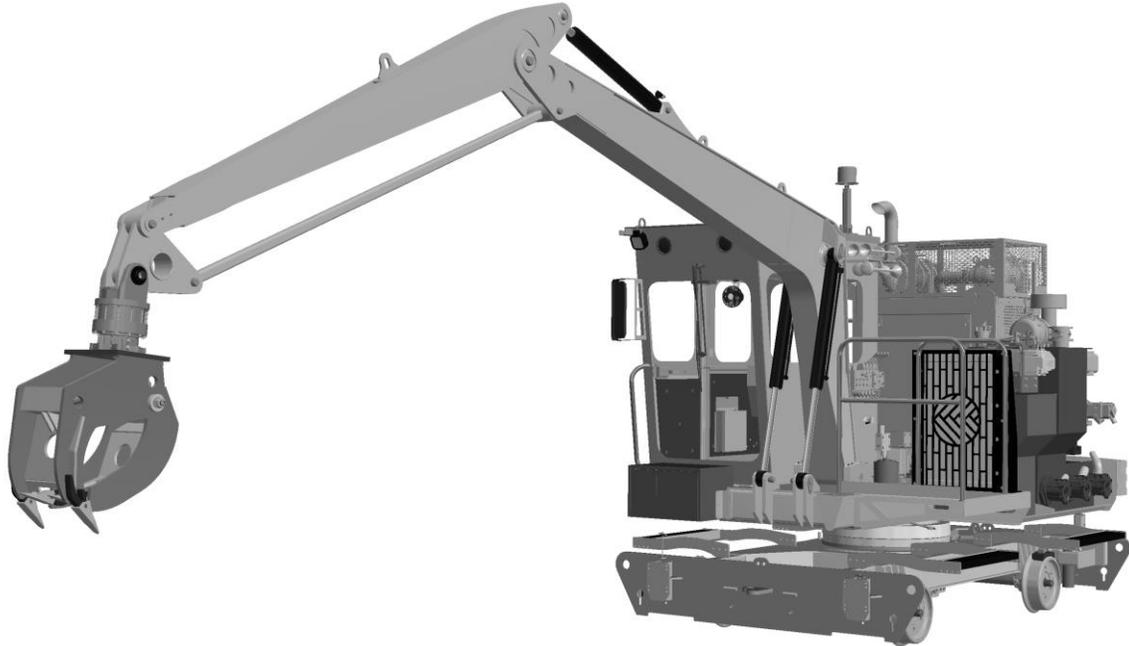


# KTC1250 Tie Crane



Knox Kershaw's Tie Handling Crane returns for 2022 as the KTC1250. With a maximum reach of 24 ft from the track centerline, the KTC1250 can lift up to 1,500 lb out to 20 ft, and 1,200 lb out to 24 ft. In addition to the increased lifting capacity, the KTC1250 has many new and improved features:

**Boom:** All-new, purpose-designed, curved boom reduces weight and stress concentrations while improving strength and work area visibility. Precision induction-hardened pins and case-hardened solid bushings maximize joint life; extra thick bosses improve resilience. Innovative geometry allows one cylinder size to power both the root and dipper booms.

**Upper and Lower Decks:** Structurally optimized decks are made from high-strength low-alloy steel (40% stronger than traditional structural steel). Pedestal mounts in both decks maximize slew bearing support. 3-point (upper) and 4-point (lower) lifting standard.

**Slew Drive:** Slew ring, pinion, gearbox, and motor are integrated into single sealed unit for a perfect gear mesh and protection from the elements. The bearing uses 6 more mounting fasteners (with 25% more strength) than previous versions.

**Cab:** New ergonomic console layout with increased headroom and seated clearance. Precise openings with gaskets and seals maximize cab pressurization. Rearview camera with dedicated color display and rear wiper standard.

**Controls:** Danfoss Plus+1 controller with color display for engine and machine monitoring. Customizable CAN joysticks and tunable machine performance. Reliable and expandable safety interlocks to protect operator and machine.

**Locks:** Hydraulic root boom and deck swing locks controlled from cab.

**Maintenance and Accessibility:** Two deck access points with steps and handrails for safe daily maintenance. Grease distribution system allows complete lubrication of the axle bearings, slew drive, and boom joints from three points. Improved access for drive chain and brake adjustment.



**Knox Kershaw Inc.**

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# KTC1250 Tie Crane

**Hydraulic Tank:** Unique shape minimizes footprint while maximizing capacity and contaminant separation. Diffuser baffle releases entrained air. Return filter, serviceable suction strainers, and moisture-blocking breather standard.

**Propel System:** Danfoss 100 cc H1 hydrostatic pump with dual Danfoss 500 cc OMV motors for 75% more torque to both axles. Double 80 roller chain and series-parallel standard.

**Hydraulic System:** Danfoss load-sensing Series 45 pump (dedicated to boom and deck swing) reduces fuel consumption and heat generation. Dedicated polishing pump. Oil cooler with dual brushless fans maintains optimum operating temperature. Danfoss PVG32 pre-compensated valvebank with CAN operators for smooth operation. Manifold assembly reduces auxiliary valve plumbing. Pressure filter standard.

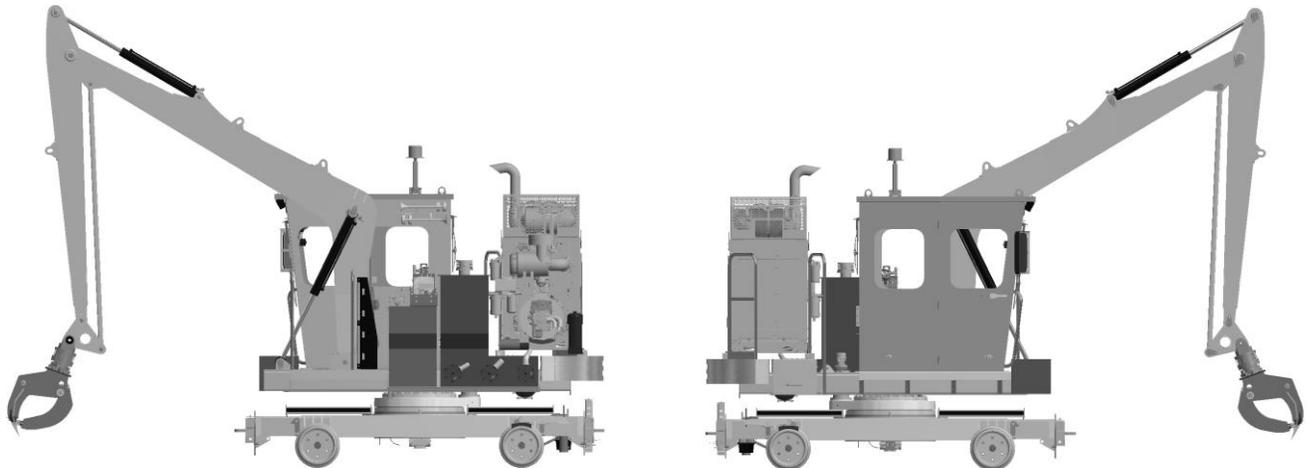
**Engine Assembly:** Cummins QSF3.8, 121 hp, Stage V, 24 Volt

**Wheels and Brakes:** Demountable wheels with insulation between the hub and wheel. Shunting kit available. Pneumatic brakes standard; hydraulic optional. Brakes can be converted in the field without modification to frame or cab.

**Optional Equipment:** Basket grapple, Two tie grapple, Spare grapple storage with manual winch, Lockable toolbox, Jack stands, Lifting shackles, Lighting packages, Bumper kit, Flail Brush cutter attachments, Hydraulic oil replenishment pump, Hydraulic test station, Tie cart, Tow bars with brake lines, Magnet, Window guards.

## **Weight and Dimensions (Estimated):**

24,000 lb  
31'-0" Max Length  
15'-5" Max Height  
8'-4" Max Width  
74" Tail Swing



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