<u>Bid Specifications – Telescopic Service Crane</u>

8,000 lb. Maximum Lifting Capacity 52,750 ft.-lb. Maximum Moment



Compliance to The Bidder shall indicate their compliance by checking "Yes" or **Specifications** "No" for each item specified. Any space not checked shall be interpreted as non-compliance and will result in disqualification of the bid.

Make & Model	HC-8x NexStar		Comply to Specification		Deviation from	
			Yes	No	Specification	
Capacity	ZONE A	ZONE B				
(Measured from	8,000 lb. @ 6 ft. 7,0	000 lb. @ 3ft.				
Center of Rotation)	5,630 lb. @ 5 ft. 5 in 5,1	18 lb. @ 5 ft. 5 in.				
	4,833 lb. @ 11 ft. 3,8	351 lb. @ 11 ft.				
(See full load	4,025 lb. @ 12 ft. 3,4	27 lb. @ 12 ft.				
and stability	2,903 lb. @ 15 ft. 2,2	294 lb. @ 15 ft.				
charts attached	1,962 lb. @ 21 ft. 1,7	'13 lb. @ 21 ft.				
for reference)	1,591 lb. @ 26 ft. 1,2	289 lb. @ 26 ft.				
	1,307 lb. @ 30 ft. 1,1	25 lb. @ 30 ft.				
	Overall dimensions (L x W x	H) 180.38" x 25.5" x				
Standards	36.75"					
	Weight of crane shall not exce	ed 1,870 lb.				
	Minimum truck chassis of:					
	• 19,500 lb. GVWR					
	• 510,000 inlb. RBM					
	Paint – Auto Crane White					
	Compliance with ANSI B30.5					
	OSHA regulations concerning					
	and truck cranes (OSHA Title 2	29, Part 1910.180)				
Room Lift	Hydraulically actuated power e	aytand and nawar				
Doom – Litt	retract	exteria ana power				
	Lift angle from -12° to 75°					
	Lift cylinder:					
	Single stage, Double acting for smooth					
	boom operation					

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	Counterbalance valve incorporated preventing unintentional boom dropping in the event of a hose failure	
Load Sensing	 Pressure transducer sensing coupled with 3-axis true boom angle measurement relative to crane mounting surface and 3-axis true crane base attitude monitoring (truck level). Automatic 50% reduction of rotation speed while under load (slow rotate) In Overload condition, disable only hoist up, boom extend and boom down functions. Other functions shall remain operable In Low Boom Pressure condition, disable only boom down, swing CW and CCW, boom retract and extend, hoist up. Other functions remain operable (Anti-Bridging) 	
Extension	Hydraulically actuated by means of extension	
	cylinder from 12 ft. 5-3.8 in. to 30 ft. 5-3/4 in.	
	Extension cylinder:	
	Trunnion mounted inside boom to protect	
	from external damage	
	 Double acting for smooth operation 	
	 Incorporates counterbalance valve to prevent unintentional boom retraction in the event of a hose failure 	
Hoist	Hydraulic motor driven, planetary gear reduction with a load holding brake	
	 4,000 lb. last layer capacity 	
	• 55 ft./min. (single line) with no load	
	• 120-ft. of .375 in. diameter aircraft cable with 14,400 lb. breaking strength	
	compliance to ANSI Standards	
CI.	A control of the cont	
Sheave	Anti-friction, high strength polymer with	
	maintenance free, sealed needle bearings	
Anti-two-block	A bail type to reduce crown to hook distance.	
	(Hanging block two-block sensor is not	
Ticventer	acceptable.)	
	When activated, shall disable hoist up, boom down	
	and extend out functions	

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	Located on the left side of the boom to protect it	
	from tree limbs, etc. while traveling	
	Cable shall be contained in a high impact plastic case with a spring loaded cable reel	
Swivel Block	Heavy-duty type with hook with latch	
	Provision for double line string up	
Rotation	Hydraulically actuated	
	450° non-continuous rotation self-locking worm	
	gear drive to hold crane position	<u> </u>
	Two speeds (automatically switched under load)	
	Sealed slew bearing with integrated slew drive	
Hydraulic System	Main valve – Mono-block type with individual cartridge valves for the crane functions for easy accessibility and serviceability	
	• 8 GPM @ 2,750 PSI	
	Proportional Boom Up/Down	
	Proportional Rotation	
	Proportional Boom Ext/Ret.	
	Proportional Hoist Up/Down	
	Manual Override on all functions	
Control System	Remote Control – FM Radio & Tethered Options:	
	Handheld remote control designed for one	
	hand operation of crane functions.	
	• 2 joystick / 1 trigger configuration	
	IP67 and CE certified remote	
	• 100% fully independent proportional	
	function joystick or trigger control	
	 Integrated E-Stop button on remote 	
	 Four distinct transmitter signal output settings to maximize control resolution for creep operation 	
	Transmitter shall have a color LCD readout	
	providing the operator with feedback to allow explanation of current operating status	
	 Dock for remote charging and storage included 	
	Alkaline battery (AA x 3) backup included	

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	Remote Control – FM Radio:				
	Operates on a rechargeable, internal, lithium- ion battery Here are estimated 200 feet a resetting recognition.				
	Has an estimated 300 foot operating range Permete Control. Tethorods			 	
	Remote Control – Tethered:			 	
	• 32 ft. communication cable included			 	
	Receiver – FM Radio and tethered Remote				
	• Crane mounted and features				
	IP65 ratedSee Options Section below for additional control			 	
	configurations.				
	comgututions.		L		
Warranty	Manufacturer shall provide a two-year limited			 	
·	warranty against defects in materials and				
	workmanship from the date of delivery			 	
(Must be available as					
required)	Boom Support shall be installed for the boom in a stowed position while in transit				
	Outriggers:				
	Shall be installed to increase stability and				
	reduce the load on the truck springs while				
	lifting			 	
	Oil Temperature Sensor to monitor crane				
	hydraulic oil temperatures			 	
NT /					
Notes:				 	
Submitted by:		т)oto:		

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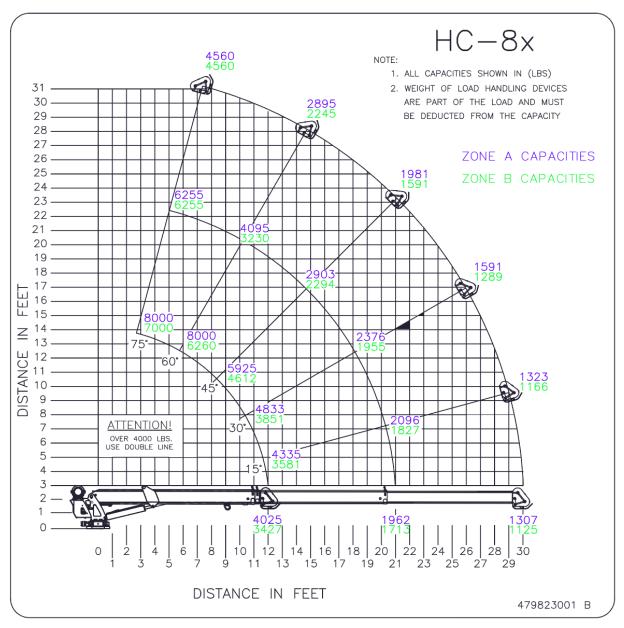


Figure 1: HC-8x Load Chart