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

7,000 lb. Maximum Lifting Capacity 43,000 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-7x NexStar	Comply to Specification		Deviation from
		Yes	No	Specification
(Measured from	7,000 lb. @ 3 ft.			
	6,260 lb. @ 5 ft. 5in.			
Center of Rotation)	3,700 lb. @ 11 ft.			
(See full load	3,427 lb. @ 12 ft.			
and stability charts attached for reference)	2,245 lb. @ 15 ft.			
	1,713 lb. @ 21 ft.			
	1,289 lb. @ 26 ft.			
	1,125 lb. @ 30 ft.			
	Overall dimensions (L x W x H) 180.38 in. x 25.5			
Standards	in. x 36.75 in.			
	Weight of crane shall not exceed 1,870 lb.			
	Minimum truck chassis of:			
	• 14,500 lb. GVWR			
	• 360,000 inlb. RBM			
	Paint – Auto Crane White			
	Compliance with ANSI B30.5 standards and			
	OSHA regulations concerning crawler locomotives			
	and truck cranes (OSHA Title 29, Part 1910.180)			
		1	Т	
Boom – Lift	Hydraulically actuated power extend and power retract			
	Lift angle from -12° to 75°			
	Lift cylinder:			
	 Single stage, Double acting for smooth boom operation 			
	Counterbalance valve incorporated preventing unintentional boom dropping in the event of a hose failure.			

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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	, F , F	
	reduction with a load holding brake	
	• 3,500 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	
Sheave	Anti-friction, high strength polymer with	
	maintenance free, sealed needle bearings	
Anti-two-block	A bail type to reduce crown to hook distance.	
Preventer	(Hanging block two-block sensor is not	
	acceptable.)	
	When activated, shall disable hoist up, boom down	
	and extend out functions	
	Located on the left side of the boom to protect it	
	from tree limbs, etc. while traveling	

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	Cable shall be contained in a high impact plastic		
Cresional Diagle	case with a spring loaded cable reel		
Swivel Block	Heavy-duty type with hook with latch		
	Provision for double line string up		
		1	
Rotation	Hydraulically actuated		
	450° non-continuous rotation self-locking worm		
	gear drive to hold crane position		
	Two speeds (automatically switched under load)		
	Sealed slew bearing with integrated slew drive		
TT 1 11 C 4		<u> </u>	
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.		
	<u> </u>		
	 Proportional Hoist Up/Down Manual Override on all functions 		
	• Manual Override on an functions		
Control System	Remote Control – FM Radio & Tethered		
Control System	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		
	Remote Control – FM Radio:		
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	• Operates on a rechargeable, internal, lithiumion battery		
	Has an estimated 300 foot operating range		
	Remote Control – Tethered:		
	• 32 ft. communication cable included		
	Receiver – FM Radio and tethered Remote		
	Crane mounted and features		
	• IP65 rated		
	See Options Section below for additional control configurations.		
	configurations.		
Warranty	Manufacturer shall provide a two-year limited warranty against defects in materials and workmanship from the date of delivery		
	morning man and and or delivery		
(Must be available as	Paint – provide code and desired color if other than standard		
	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		
Notes:			
Cubmitted by		Dot	

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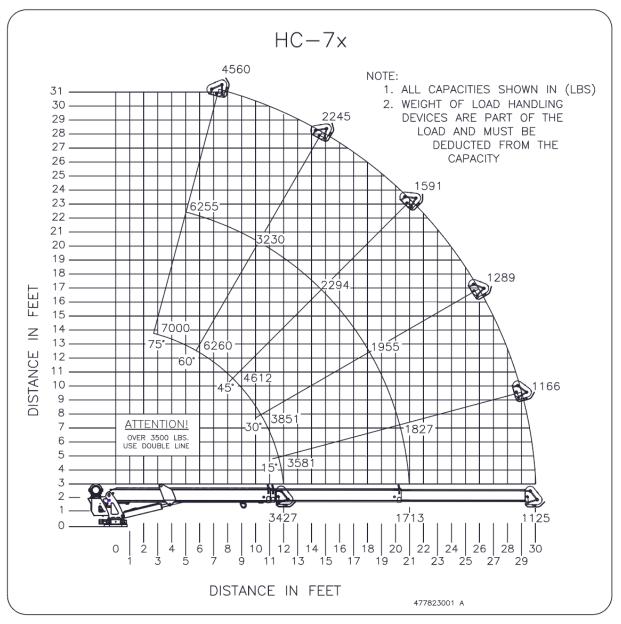


Figure 1: HC-7x Load Chart