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

7,000 lb. Maximum Lifting Capacity 38,000 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	<u>HC-7 NexStar</u>	Comply to Specification		Deviation from
		Yes	No	Specification
Capacity	7,000 lb. @ 5 ft.			
(Measured from	4,606 lb. @ 8 ft.			
Center of Rotation)	3,840 lb. @ 10 ft.			
(See full load	3,134 lb. @ 12 ft.			
and stability	2,659 lb. @ 14 ft.			
charts attached	2,380 lb. @ 16 ft.			
for reference)	2,111 lb. @ 18 ft.			
	1,800 lb. @ 20 ft.			
		•		
_	Overall dimensions (L x W x H) 156 in. x 23.06			
Standards	in. x 33.56 in.			
	Weight of crane shall not exceed 1,700 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)			
Room Lift	Hydraulically actuated power extend and power	1		
Doom – Litt	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 10 ft. 6 in. to 20 ft. 6 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	
	• 3,500 lb. last layer capacity	
	• 55 ft./min. (single line) with no load	
	• 95-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	
	A bail type to reduce crown to hook distance. (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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Swivel Block • Heavy-duty type with hook with latch • Provision for double line string up		Cable shall be contained in a high impact plastic	
Provision for double line string up Rotation Hydraulically actuated 450° non-continuous rotation self-locking worm gear drive to hold crane position Two speeds (automatically switched under load) Sealed turntable style slew bearings 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 Boom Ext/Ret. 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 Prof and CE certified remote 100% fully independent proportional function joystick or trigger control Integrated E-Stop button on remote Pour 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	C · IDL I	case with a spring loaded cable reel	
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<u>Bid Specifications – Telescopic Service Crane</u>

	Operates on a rechargeable, internal, lithium- ion battery			
	Has an estimated 300 foot operating range Provide Control Tables and the control of the co			
	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.			
	comigurations.			
Warrantv	Manufacturer shall provide a two-year limited			
•	warranty against defects in materials and			
	workmanship from the date of delivery			
		•		
	Paint – provide code and desired color if other than			
(Must be available as	standard			
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			
Notes:				
Submitted by		D	lata.	

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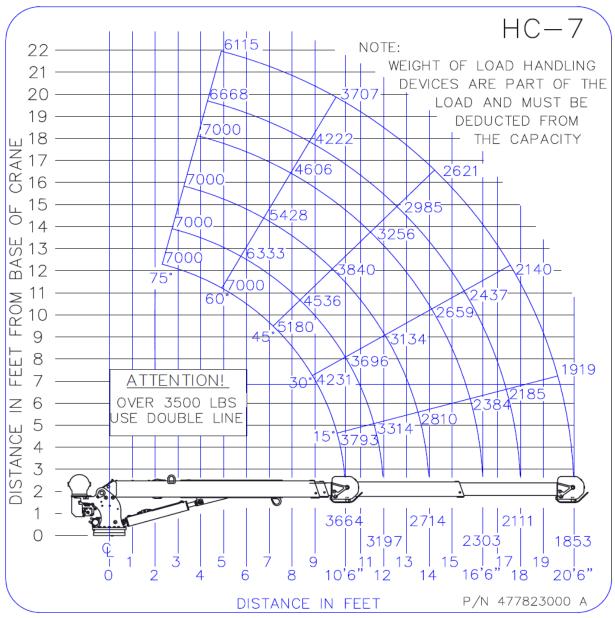


Figure 1: HC-7 Load Chart