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

6,000 lb. Maximum Lifting Capacity 35,000 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-6 NexStar</u>		ply to ication	Deviation from	
		Yes	No	Specification	
Capacity	6,000 lb. @ 5 ft.				
(Measured from	4,375 lb. @ 8 ft.				
Center of Rotation)	3,402 lb. @ 10 ft.				
(See full load	3,041 lb. @ 12 ft.				
	2,626 lb. @ 14 ft.				
	2,143 lb. @ 16 ft.				
for reference)	1,819 lb. @ 18 ft.				
	1,367 lb. @ 20 ft.				

-	Overall dimensions (L x W x H) 156 in. x 23.06 in. x 39.56 in.	
	Weight of crane shall not exceed 1,455 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)	

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)	
	Hydraulically actuated by means of extension cylinder from 10 ft. 4 in. to 20 ft. 4 in.	
	Extension cylinder:	
	• Trunnion mounted inside boom to protect	

• 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
	• 3,000 lb. last layer capacity
	• 55 ft./min. (single line) with no load
	 95-ft. of .375 in. diameter aircraft cable with 14,700 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	
	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	
	Two speeds (automatically switched under load)	
	Sealed turntable style slew bearings	
	Sealed turntable style slew bearings	
Hadroulio Sastore	Moin value Mana block type with individual	
Hydraune System	Main valve – Mono-block type with individual cartridge valves for the crane functions for easy	
	accessibility and serviceability	
	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	
	Remote Control – FM Radio:	

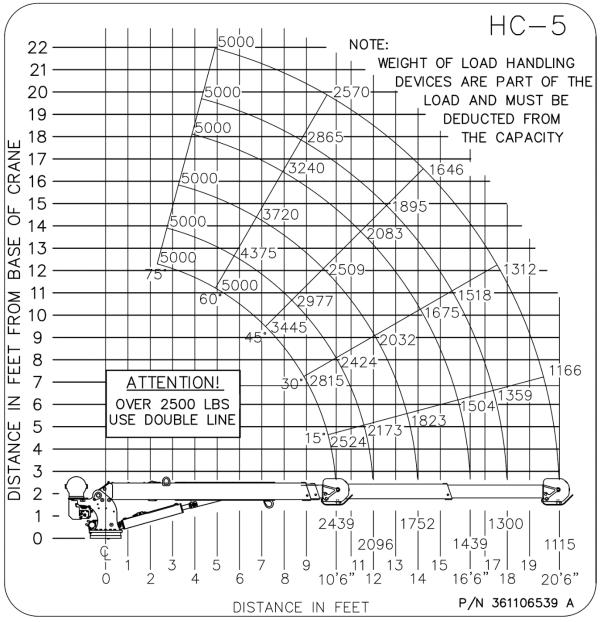
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	• Operates on a rechargeable, internal, lithium- ion battery		
	• Has an estimated 300 foot operating range		
	Remote Control – Tethered:		
	• 32 ft. communication cable included		
	Receiver – FM Radio and tethered Remote		
	Crane mounted and features		
	• IP65 rated		
	See Options Section below for additional control configurations.		
Worronty	Manufacturer shall provide a two-year limited		
vv ai i aiity	warranty against defects in materials and		
	workmanship from the date of delivery		
		r	
(Must be available as	Paint – provide code and desired color if other than 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:

Date:



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Figure 1: HC-5 Load Chart