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

#### 9,000 lb. Maximum Lifting Capacity 59,000 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-9 NexStar</u>	Comply to Specification		Deviation from	
		Yes	No	Specification	
Capacity (Measured from Center of Rotation)	9,000 lb. @ 5 ft.				
	8,133 lb. @ 6 ft.				
	7,375 lb. @ 8 ft.				
	5,900 lb. @ 10 ft.				
(See full load	5,380 lb. @ 12 ft.				
and stability	4,586 lb. @ 14 ft.				
charts attached	3,687 lb. @ 16 ft.				
for reference)	3,335 lb. @ 18 ft.				
	2,950 lb. @ 20 ft.				
			ı		
	Overall dimensions (L x W x H) 156 in. x 23.06				
Standards	in. x 33.56 in.				
	Weight of crane shall not exceed 1,755 lb.				
	Minimum <b>truck chassis</b> of: • 26,000 lb. GVWR				
	• 900,000 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)				
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Boom – Lift	Hydraulically actuated power extend and power retract				
	<b>Lift angle</b> from -12° to 75°				
	Lift cylinder:				
	Single stage, Double acting for smooth boom operation				

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I and Sanaina	Counterbalance valve incorporated preventing unintentional boom dropping in the event of a hose failure  Pressure transducer against counted with 2	
Load Sensing	axis true boom angle measurement relative to crane mounting surface and 3-axis true crane base attitude monitoring (truck level).	
	<ul> <li>Automatic 50% reduction of rotation speed while under load (slow rotate)</li> </ul>	
	In Overload condition, disable <u>only</u> 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:	
	<ul> <li>Trunnion mounted inside boom to protect from external damage</li> </ul>	
	<ul> <li>Double acting for smooth operation</li> </ul>	
	<ul> <li>Incorporates counterbalance valve to prevent unintentional boom retraction in the event of a hose failure</li> </ul>	
Hoist	Hydraulic motor driven, planetary gear reduction with a load holding brake	
	• 4,500 lb. last layer capacity	
	• 55 ft./min. (single line) with no load	
	• 95-ft. of .375 in. diameter aircraft cable with 15,750 lb. <b>breaking strength</b> 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 <b>not</b> 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		
	Two speeds (automatically switched under load)		
	Sealed turntable style slew bearings		
	г	<b>_</b>	
Hydraulic System	Main valve – Mono-block type with individual		
	cartridge valves for the crane functions for easy		
	accessibility and serviceability		
	• 10 GPM @ 2,750 PSI		
	Proportional Boom Up/Down  Proportional Bootstian		
	Proportional Rotation		
	Proportional Boom Ext/Ret.		
	Proportional Hoist Up/Down		
	Manual Override on all functions		
0.4.16.4	Design Control EM De Proposition I		
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				
	<ul><li>IP65 rated</li><li>See Options Section below for additional control</li></ul>			 	
	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)	<b>Boom Support</b> 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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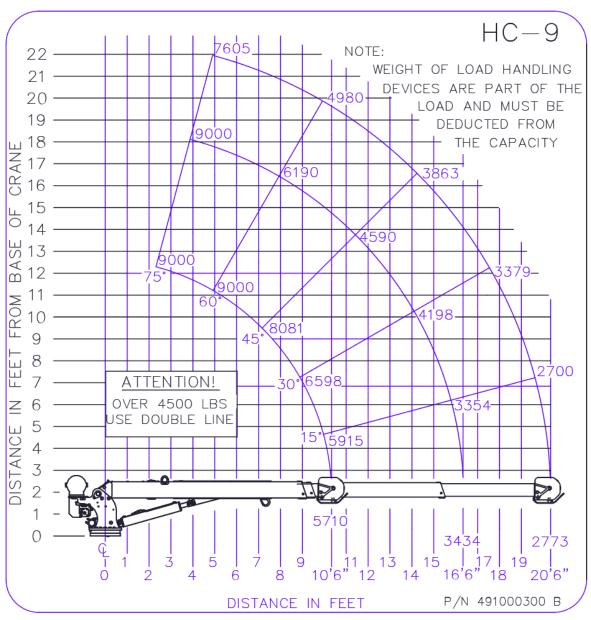


Figure 1: HC-9 Load Chart