10,000 lb. Maximum Lifting Capacity 60,000 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-10 NexStar</u>	Comply to Specification		Deviation from	
	•	Yes	No	Specification	
Capacity	10,000 lb. @ 6 ft.				
(Measured from	7,670 lb. @ 8 ft.				
Center of Rotation)	6,830 lb. @ 10 ft.				
	5,870 lb. @ 12 ft.				
(See full load	5,130 lb. @ 14 ft.				
and stability	4,390 lb. @ 16 ft.				
charts attached	3,640 lb. @ 18 ft.				
for reference)	3,310 lb. @ 20 ft.				
	3,000 lb. @ 22 ft.				
	3,430 lb. @ 24 ft. 6 in.				
	Overall dimensions (L x W x H) 172.8 in. x 26.6				
Standards	in. x 34.81 in.				
	Weight of crane shall not exceed 2,020 lb.				
	Minimum truck chassis 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)				
Boom – Lift	Hydraulically actuated power extend and power				
Doom Env	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	
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. 4 in. to 24 ft. 11 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	
	• 5,000 lb. last layer capacity	
	• 55 ft./min. (single line) with no load	
	• 120-ft. of .4375 in. diameter aircraft cable	
	with 20,400 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.	
	(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	
	Cable shall be contained in a high impact plastic case with a spring loaded cable reel	
Swivel Block		
	Provision for double line string up	
	0.1	
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 10 GPM @ 3,000 PSI	
	Proportional Boom Up/Down	
	Proportional Rotation	
	Proportional Boom Ext/Ret.	
	D 1 177 1 77 /D	
	 Proportional Hoist Up/Down Manual Override on all functions 	
	Manual Override on an 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:				
	Operates on a rechargeable, internal, lithium- ion battery Here are estimated 200 feet a resetting recent				
	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:		

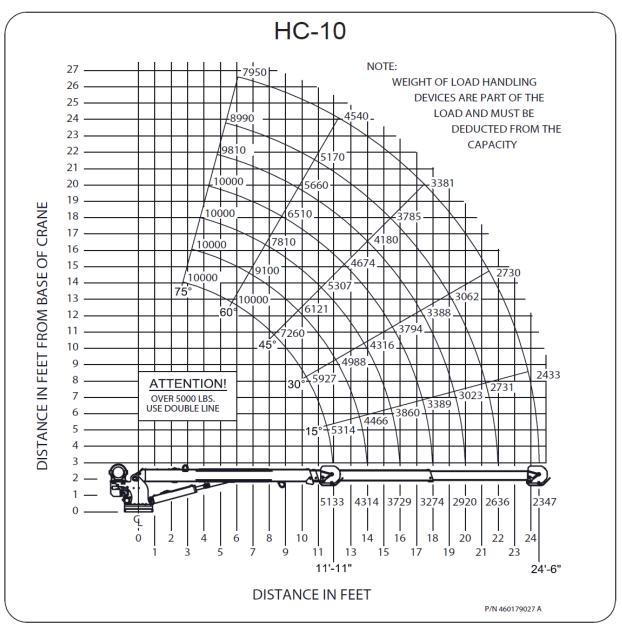


Figure 1: HC-10 Load Chart