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

6,000 lb. Maximum Lifting Capacity 36,000 ft.-lb. Maximum Moment



N. I. O. N. I. I. I.

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>EHC-6 NexStar</u>	Specification		Deviation from
		Yes	No	Specification
Capacity	6,000 lb. @ 6 ft.			
(Measured from	4,500 lb. @ 8 ft.			
Center of Rotation)	3,600 lb. @ 10 ft.			
(See full load	3,000 lb. @ 12 ft.			
and stability	2,571 lb. @ 14 ft.			
charts attached	2,250 lb. @ 16 ft.			
for reference)	2,000 lb. @ 18 ft.			
	1,800 lb. @ 20 ft.			
_	Overall dimensions (L x W x H) 156 in. x 22.44			
Standards	in. x 34.25 in.			
	Weight of crane shall not exceed 1,770 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)			
DC Dower Unit	Electro-hydraulic system consists of an electric moto	~		
DC rower cint	driving hydraulic pump which Provides fluid power)1		
	to:			
	Boom Lift / Lower			
	Boom Extension / Retraction			
	Rotation			
	Electric motor – 24V DC series wound			
	Hydraulic:			
	Gear pump, .097 cu. in./rev. displacement			

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	 2.75 gallon nominal-capacity reservoir 			
	System:			
	 Set full by-pass relief @ 2,500 PSI 			
	 Output: 1.46 GPM minimum @ 2,750 PSI @)		
	168 amps max.			
Boom - Lift	Hydraulically actuated			
	Lift angle from -12° to 75°			
	Lift cylinder:			
	 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 <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)			
	ranorons remain operate (rims Bridging)		<u>. I</u>	
Extension	Hydraulically actuated by means of extension		<u></u>	
	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			
		1	,	
Hoist	• Motor – 24V DC series wound, 2.5 HP,			
	heavy duty			
	Actuator must have industrial grade gear			
	hov with worm broke	l	1	

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	46:1 worm gear reduction with 7.8:1 spur gear reduction.		
	gear reductionConsumer grade winch with permanent		
	magnet motor is NOT acceptable		
	Rated @ 3,000 lb. last layer capacity		
	Line speed:		
	36 ft./min. (single line) with no load		
	12 ft./min. with 2500 lb. load		
	95-ft. of .375 in. diameter aircraft cable with 14,400		
	lb. breaking strength compliance to ANSI		
	Standards		
	F	T	T
Sheave	Anti-friction, high strength polymer with		
	maintenance free, sealed needle bearings		
A42 A 1-11-	A Lettern de malare announce de la electronia		
	A bail type to reduce crown to hook distance. (Hanging block two-block sensor is not		
1 Tevenier	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		
C . IDI I	case with a spring loaded cable reel		
Swivel Block	The state of the s		
	Provision for double line string up		
		T T	
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		
Hardward Creston	Main walna Mana black tuna with individual		
Hydraulic 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.		
	Manual Override on all functions		
	• Ivialiual Overriue oil all fullcuolis		

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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 	
	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.	
Warranty	Manufacturer shall provide a two-year limited	
	warranty against defects in materials and	
	workmanship from the date of delivery	
(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 Compare Compare	
	lifting	

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hydraulic oil temperatures		
		Date:
	hydraulic oil temperatures	hydraulic oil temperatures

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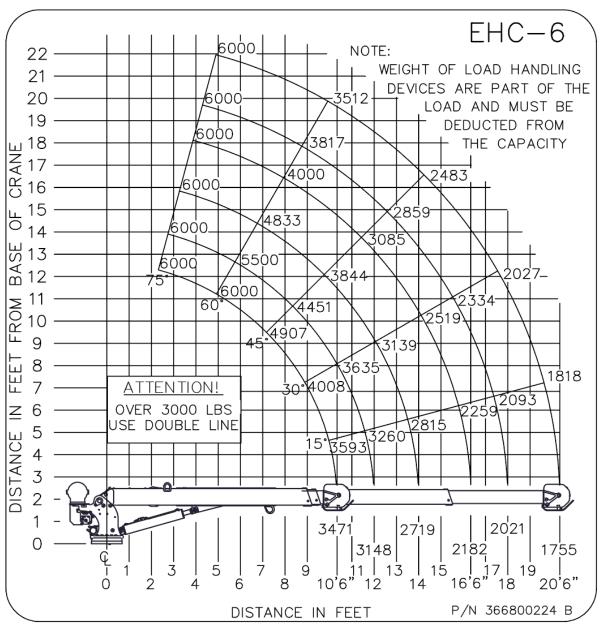


Figure 1: EHC-6 Load Chart