5,000 lb. Maximum Lifting Capacity 25,000 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		EHC-5 NexStar	Comply to Specification		Deviation from
			Yes	No	Specification
	Capacity	5,000 lb. @ 5 ft.			
	(Measured from	4,167 lb. @ 6 ft.			
	Center of Rotation)	3,240 lb. @ 8 ft.			
	(See full load and stability charts attached	2,500 lb. @ 10 ft.			
		2,032 lb. @ 12 ft.			
		1,675 lb. @ 14 ft.			
	for reference)	1,562 lb. @ 16 ft.			
		1,388 lb. @ 18 ft.			
		1,250 lb. @ 20 ft.			
	_	Overall dimensions (L x W x H) 155 in. x 22.44			
	Standards	in. x 34.25 in.			
		Weight of crane shall not exceed 1,480 lb.			
		Minimum truck chassis of:			
		• 14,500 lb. GVWR			
		• 360,000 in-lb. 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)			
	DCD II.4		<u> </u>	<u> </u>	
	DC Power Unit	Electro-hydraulic system consists of an electric motodriving hydraulic pump which Provides fluid power	or		
		to:			
		Boom Lift / Lower			
		Boom Extension / Retraction			
		D			+
		Electric motor – 24V DC series wound			

	Hydraulic:			
	Gear pump, .097 cu. in/rev. displacement			
	• 2.75 gallon nominal-capacity reservoir			
	System:			
	•			
	• Set full by-pass relief @ 2,500 PSI	<u> </u>		
	Output: 1.46 GPM minimum @ 2,750 PSI @ 168 arms may	'		
	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			
T 10	the event of a hose failure			
Load Sensing	L 1			
	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)			
	Tonetions remain operation (rinti Diraging)			
Extension	Hydraulically actuated by means of extension			
Extension	cylinder from 10 ft. 4 in. to 20 ft. 4 in.			
	Extension cylinder:			
	,			
	Trunnion mounted inside boom to protect from external damage.			
	from external damage			
	Double acting for smooth operation			
	 Incorporates counterbalance valve to 			
	prevent unintentional boom retraction in the			
	event of a hose failure			

Hoist	• Motor – 24V DC series wound, 2.5 HP,		
	heavy duty		
	 Actuator must have industrial grade gear 		
	box with worm brake		
	• 46:1 worm gear reduction with 7.8:1 spur		
	gear reduction		
	 Consumer grade winch with permanent 		
	magnet motor is NOT acceptable		
	Rated @ 2,500 lb. last layer capacity		
	Line speed:		
	36 ft./min. (single line) with no load		
	12 ft./min. with 2500 lb. load		
	80-ft. of .3125 in. diameter aircraft cable with 9,800		
	lb. breaking strength compliance to ANSI		
	Standards		
CI	A		
Sneave	Anti-friction, high strength polymer with maintenance free, sealed needle bearings		
	maintenance free, sealed fleedie bearings		
Anti two blook	A bail type to reduce crown to hook distance.		
	(Hanging block two-block sensor is not		
Tieventer	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	 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		
	·	ll	
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	
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, lithiumion 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.	
	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		
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		Dotor	

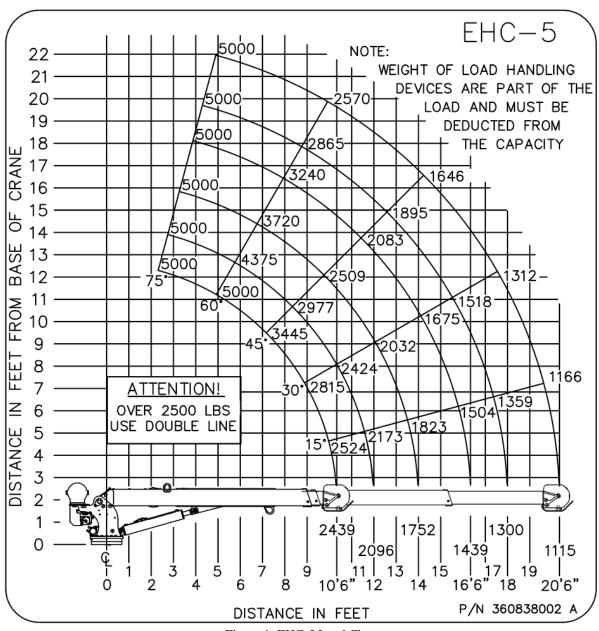


Figure 1: EHC-5 Load Chart