

Bid Specifications – Telescopic Service Crane

4,000 lb. Maximum Lifting Capacity
16,000 ft.-lb. Maximum Moment



Compliance to Specifications The Bidder shall indicate their compliance by checking "Yes" or "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-4 NexStar 20' Boom	Comply to Specification		Deviation from Specification
		Yes	No	
Capacity (Measured from Center of Rotation) (See full load and stability charts attached for reference)	4,000 lb. @ 4 ft.			
	2,666 lb. @ 6 ft.			
	2,000 lb. @ 8 ft.			
	1,600 lb. @ 10 ft.			
	1,333 lb. @ 12 ft.			
	1,143 lb. @ 14 ft.			
	1,000 lb. @ 16 ft.			
	889 lb. @ 18 ft.			
	800 lb. @ 20 ft.			
Specifications & Standards	Overall dimensions (L x W x H) 141 in. x 20.63 in. x 24 in.			
	Weight of crane shall not exceed 1040 lb.			
	Minimum truck chassis of:			
	10,500 lb. GVWR 210,600 in.-lb. RBM			
	Paint – Auto Crane White			
DC Power Unit	Compliance with ANSI B30.5 standards and OSHA regulations concerning crawler locomotives and truck cranes (OSHA Title 29, Part 1910.180)			
	Electro-hydraulic system consists of an electric motor driving hydraulic pump which Provides fluid power to:			
	Boom Lift / Lower			
	Boom Extension / Retraction			
	Rotation			
	Hoist Up / Down			
	Electric motor – 12V DC series wound			

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	Hydraulic:			
	System:			

Boom – Lift	Hydraulically actuated			
	Lift angle from -3° to 75°			
	Lift cylinder:			
	Load Sensing			

Extension	Hydraulically actuated by means of extension cylinder from 10 ft. to 16 ft. and manually actuated from 16 ft. to 20 ft.			
	Extension cylinder:			
	4 ft. manual extension			
	Total 20 ft. extension			

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Hoist	Hydraulically motor-driven planetary gear reduction with a load holding brake			
	Rated @ 2,000 lb. last layer capacity			
	Line speed of 20 ft./min. (single line) with no load			
	80-ft. of .3125" diameter aircraft cable with 9,800 lb. breaking strength compliance to ANSI Standards			
Sheave	Anti-friction, high strength polymer with maintenance free, sealed needle bearings			
Anti-two-block Preventer	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	Heavy-duty type with hook with latch			
	Provision for double line string up			
Rotation	370° rotation range			
	40:1 worm gear set			
	Provision for adjusting backlash between worm & gear			
	(Non-adjustable gear set is NOT acceptable.)			
	Turntable style slew bearings			
	Cycle speed – 38 sec. no load			
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 Hoist Up/Down			
	Proportional Rotation			
	Non-Proportional Boom Ext/Ret.			
	Manual Override on all functions			

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Control System	Remote Control – FM Radio with Tether Cable			
	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			
Options (Must be available as required)	Remote Control – Tethered:			
	32 ft. communication cable included			
	When tethered, remote is directly connected to crane and no FM signals are sent/received			
	Receiver – FM Radio and tethered Remote			
Warranty	Crane mounted and features			
	IP65 rated			
Manufacturer shall provide a two-year limited warranty against defects in materials and workmanship from the date of delivery				
Options (Must be available as required)	Paint – provide code and desired color if other than standard			
	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			

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	Oil Temperature Sensor to monitor crane hydraulic oil temperatures			
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Notes:	

Submitted by: _____

Date: _____

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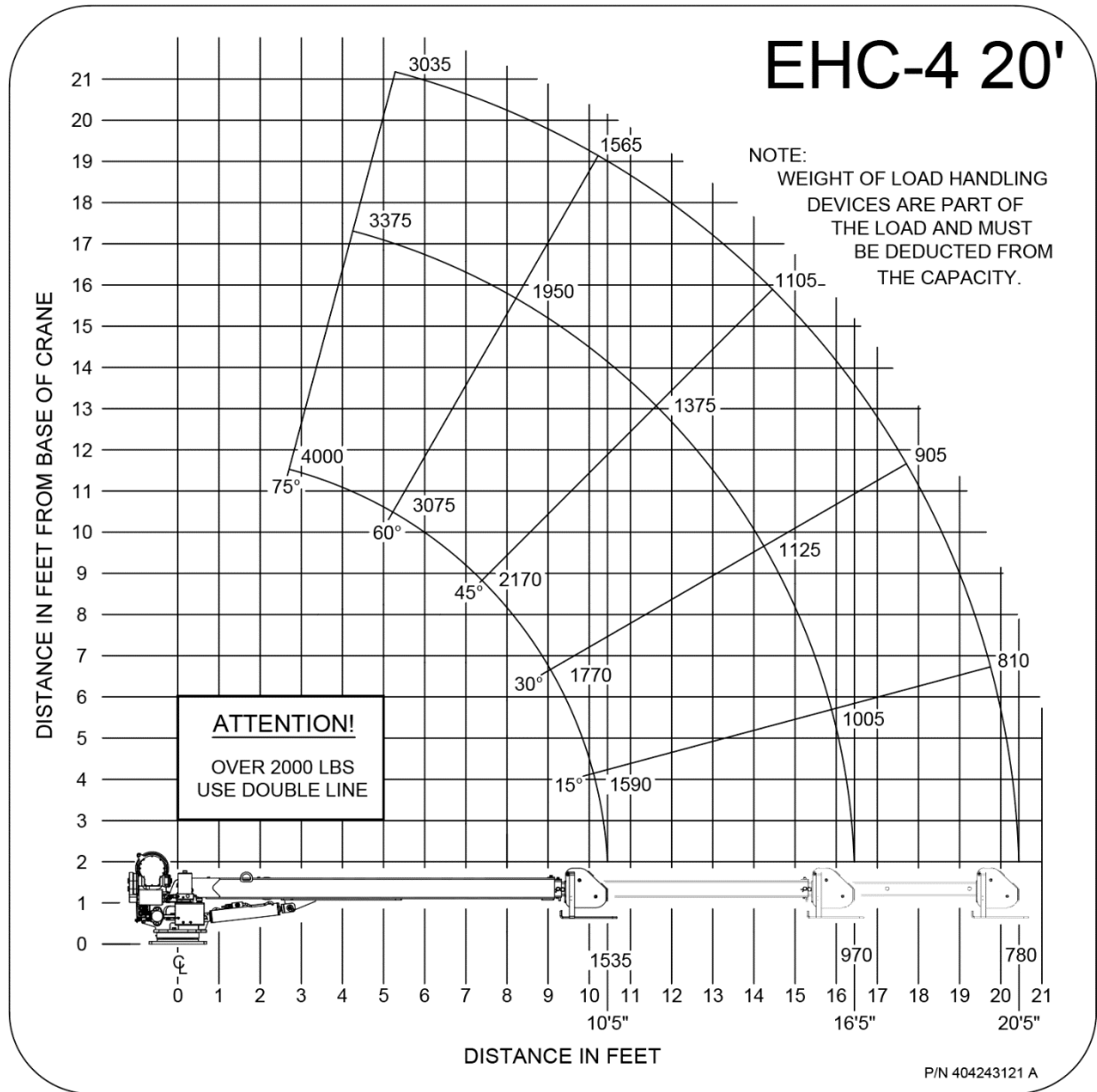


Figure 1: EHC-4, 20' Boom Load Chart