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

8,400 lb. Maximum Lifting Capacity 50,000 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	8406H NexStar	Comj Specifi		Deviation from
		Yes	No	Specification
	8,400 lb. @ 6 ft.			
(Measured from	6,250 lb. @ 8 ft.			
Center of Rotation)	5,000 lb. @ 10 ft.			
	4,167 lb. @ 12 ft.			
and stability	3,571 lb. @ 14 ft.			
	3,125 lb. @ 16 ft.			
for reference)	2,778 lb. @ 18 ft.			
	2,500 lb. @ 20 ft.			

Specifications & Overall dimensions (L x W Standards in. x 33.56 in.	x H) 156 in. x 23.06	
Weight of crane shall not ex	ceed 1,755 lb.	
Minimum truck chassis of:		
• 20,500 lb. GVWR	-	
• 510,000 inlb. RBM	1	
Paint – Auto Crane White		
Compliance with ANSI B3		
OSHA regulations concerning	0	
and truck cranes (OSHA Tit	le 29, Part 1910.180)	

Boom – Lift	Hydraulically actuated power extend and power 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		

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Load Sensing		
	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)	
Extension	Hydraulically actuated by means of extension	
	cylinder from 10 ft. 6 in. to 20 ft. 6 in.	
	Extension cylinder:	
	• Trunnion mounted inside boom to protect	

•	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
	• 4,200 lb. last layer capacity
	• 55 ft./min. (single line) with no load
	95-ft. of .375 in. diameter aircraft cable with 14,700 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.		
Preventer	(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		

Bid Specifications – Telescopic Service Crane

	Cable shall be contained in a high impact plastic	
	case with a spring loaded cable reel	
Swivel Block		
	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	
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 Rotation	
	Proportional Boom Ext/Ret.	
	Proportional Hoist Up/Down	
	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:	

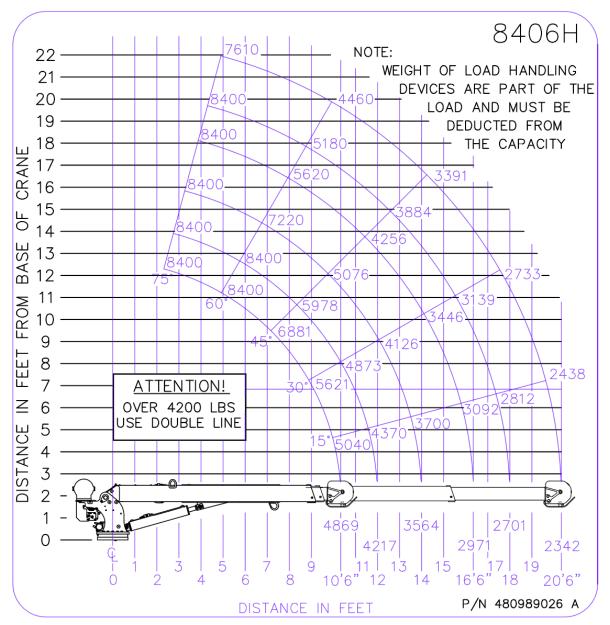
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	• Operates on a rechargeable, internal, lithium- ion battery		
	• Has an estimated 300 foot operating range		
	Remote Control – Tethered:		
	• 32 ft. communication cable included		
	Receiver – FM Radio and tethered Remote		
	• Crane mounted and features		
	• IP65 rated		
	See Options Section below for additional control configurations.		
Worronty	Manufacturer shall provide a two-year limited		
vv ai i aiity	warranty against defects in materials and		
	workmanship from the date of delivery		
		r	
(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		
	lifting		
	Oil Temperature Sensor to monitor crane hydraulic oil temperatures		

Notes:

Submitted by:

Date:



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Figure 1: 8406H Load Chart