



# Technical Data

Specification & Capacities

# MPK20.2



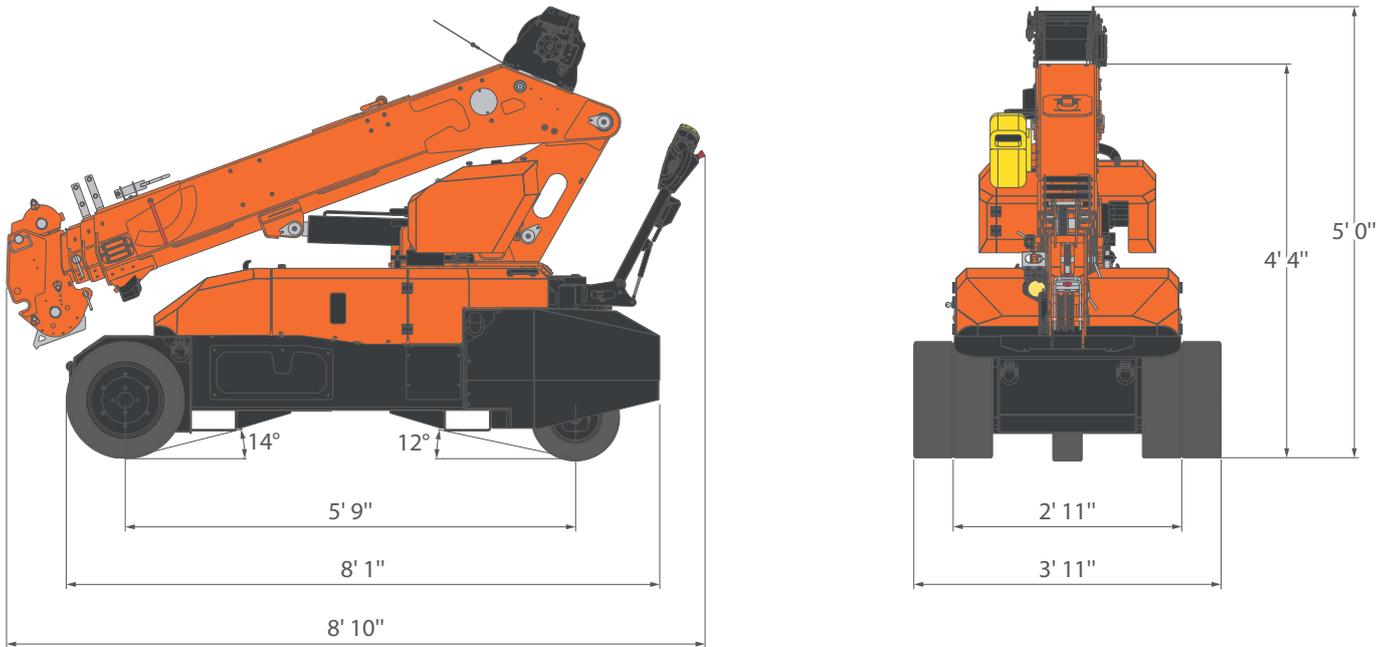
EN 13000:2014

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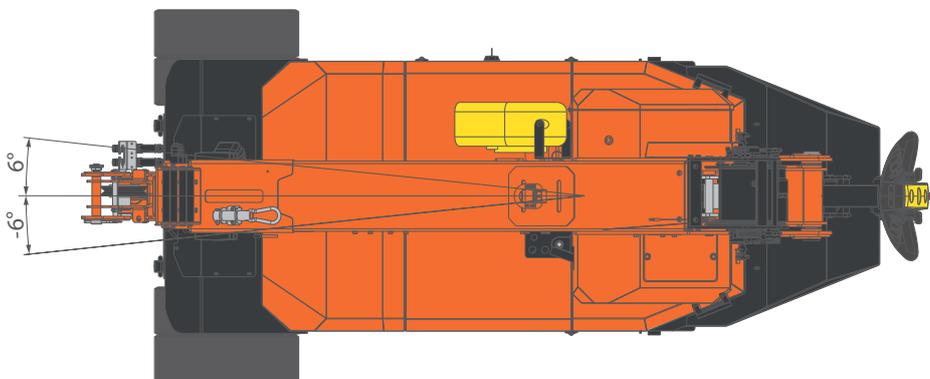
[ft] [lb]

## OVERALL DIMENSIONS

### MPK20.2



## BOOM SWING



## OVERALL INFORMATIONS

		DESCRIPTION	U.M	VALUE
CRANE INFO	 <b>OVERALL DIMENSIONS</b>	Height	ft	5' 0"
		Length		8' 10"
		Width		3' 11"
	 <b>BOOM</b>	Length	ft	7' 7"/20' 4"
		Speed	s	32
	 <b>SLEWING</b>	Angle	°	-6°/+6°
		Speed	rpm	1
	 <b>LIFTING</b>	Working Angle	°	-20°/+57°
		Speed	s	32
	 <b>MAX CAPACITY</b>		lb	4,400
	 <b>BACK WHEEL MAX LOAD</b>		lb	1,210*
	 <b>FRONT WHEEL MAX LOAD</b>	Turret positioned at 0°		3,640†
		Turret slewed by 6°		4,400†
 <b>TRAVEL SPEED</b>		km/h	2.5	
 <b>GRADEABILITY</b>		°	10° (18%)	
 <b>WORKING TEMPERATURE</b>		°F	-4°/+104°	
	Lifting Class (UNI 4301-1)			A1

WEIGHTS		<b>CRANE</b>	MPK20.2	lb	3,180‡
		<b>COUNTERWEIGHT</b>	All	lb	900
		<b>TOTAL</b>	Total weight	lb	4,070

ACCESSORIES		<b>JIB</b>	JIB1000.GX	lb	40
		<b>WINCH</b>	W700.60-MPK	lb	130

\*: Without Load

†: With load

‡: Dry weight

# MPK20.2 Overall informations

<b>ENGINE</b>		<b>ELECTRIC</b>	Voltage	V	24
			Power	kW	3

<b>HYDRAULIC SYSTEM</b>		Working Pressure		bar	170	
		Tank Capacity		gal	8.2	
		<b>OIL</b>	Type		Synthetic	ISO 6743-4:HFDU
					Biodegradable	ISO VG46
			Viscosity Grade		VG	46
		<b>MAIN PUMP</b>	Displacement		in <sup>3</sup> /rev	0.26
			Max Oil Flow		gal/min	4.2

## WINCH PERFORMANCE

WINCH	Layer		Max pull line	Standard rope speed
			lb	ft/min
	1		2,200*	125
	2		2,030*	138
	3		1,870*	148
	4		1,740*	161
5		1,610*	174	
ROPE	Wire rope	Max load	Ø	Total length
		lb	in	ft
	19x7 right non rotating lang lay	4,600	1/4"	203' 5"

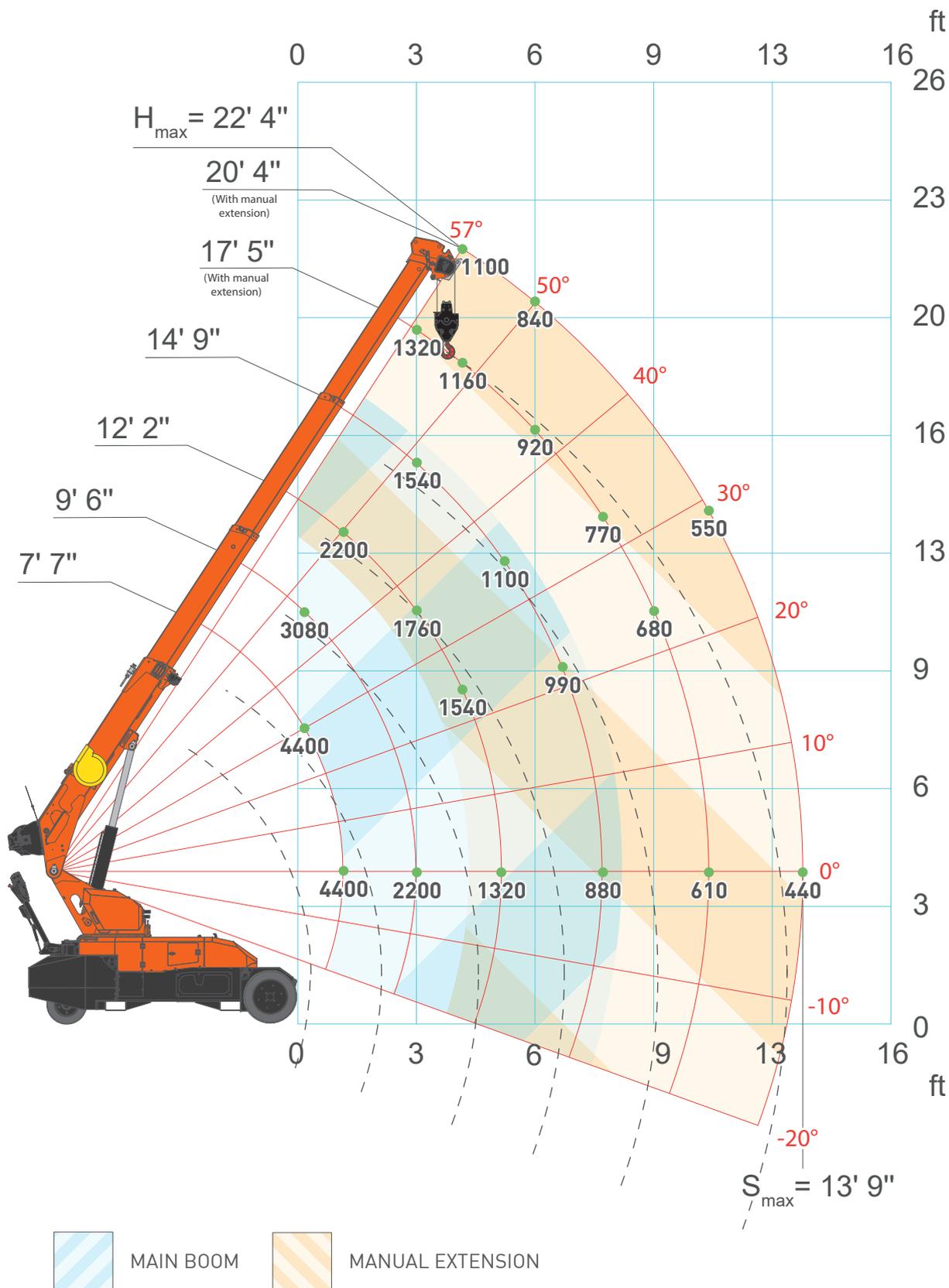
HOOKBLOCK	Block type	Weight	Load	N° of	
		lb	lb	Sheaves	Lines
	2T-D7.2	55	4,400	1	3
3,090			1	2	
1 ton single line hook	60	1,540	-	1	

\*: LMI limited at 1540 lb

## STABILITY AREAS

CONFIGURATION	
<b>J7</b>	Turret positioned at 0° + Full counterweight
<b>J6</b>	Turret slewed + Full counterweight
<b>J5</b>	Turret positioned at 0° without counterweight
<b>J4</b>	Turret slewed without counterweight
<b>J0</b>	No lifting capacity

## MAIN BOOM



[lb]

# MPK20.2 Main boom load tables



CRANE PERFORMANCE: J7									
L [ft]→	7' 5"	9' 6"	10' 6"	12' 2"	13' 5"	14' 9"	16' 1"	17' 5"	20' 4"
1/2"	4400	3080	2750	2200	1980	1760			
1' 4"	4400	3080	2750	2200	1980	1760			
3' 3"		2420	2090	1760	1650	1540	1430	1320	
4' 3"			1870	1540	1430	1340	1270	1160	1100
5' 11"				1320	1210	1100	1050	990	900
7' 3"					1080	990	900	850	790
8' 6"						880	790	770	680
9' 10"							720	680	610
11' 2"								610	550
13' 9"									440
↑S (ft)	lb								



CRANE PERFORMANCE: J6									
L [ft]→	7' 5"	9' 6"	10' 6"	12' 2"	13' 5"	14' 9"	16' 1"	17' 5"	20' 4"
1/2"	3520	3080	2620	1980	1780	1580			
1' 4"	3520	3080	2620	1980	1780	1580			
3' 3"		2420	2090	1760	1580	1470	1300	1190	
4' 3"			1870	1540	1430	1270	1230	1050	990
5' 11"				1320	1210	1100	1010	940	810
7' 3"					1080	990	900	850	770
8' 6"						880	790	770	660
9' 10"							720	680	610
11' 2"								610	550
13' 9"									440
↑S (ft)	lb								



## CRANE PERFORMANCE: J5

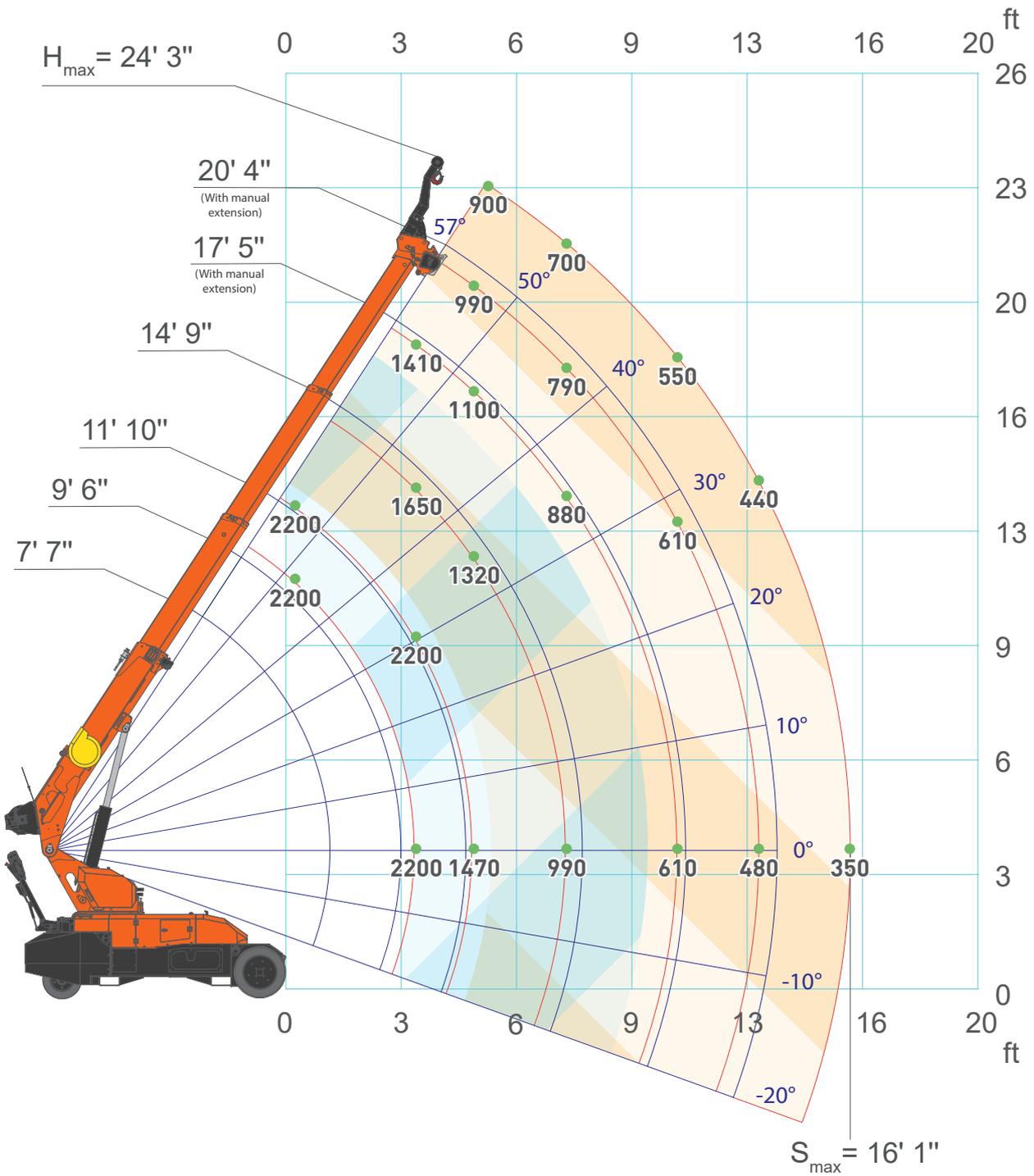
L [ft]→	7' 5"	9' 6"	10' 6"	12' 2"	13' 5"	14' 9"	16' 1"	17' 5"	20' 4"
1/2"	4400	3080	2750	2200	1980	1760			
1' 4"	4400	3080	2750	2200	1980	1760			
3' 3"		1470	1470	1470	1470	1470	1430	1320	
4' 3"			1120	1120	1120	1120	1120	1120	1100
5' 11"				740	740	740	740	740	740
7' 3"					550	550	550	550	550
8' 6"						440	440	440	440
9' 10"							350	350	350
11' 2"								300	300
13' 9"									170
↑S (ft)	lb								



## CRANE PERFORMANCE: J4

L [ft]→	7' 5"	9' 6"	10' 6"	12' 2"	13' 5"	14' 9"	16' 1"	17' 5"	20' 4"
1/2"	3520	3080	2620	1980	1780	1580			
1' 4"	3520	3080	2620	1980	1780	1580			
3' 3"		1470	1470	1470	1410	1410	1300	1190	
4' 3"			1120	1120	1120	1080	1080	1010	990
5' 11"				740	740	740	720	720	680
7' 3"					550	550	550	550	520
8' 6"						440	440	440	410
9' 10"							350	350	350
11' 2"								300	300
13' 9"									170
↑S (ft)	lb								

## JIB1000.GX



MAIN BOOM
  MANUAL EXTENSION

[lb]



CRANE PERFORMANCE: J7									
L [ft]→	7' 5"	9' 6"	10' 2"	11' 10"	13' 5"	14' 9"	16' 1"	17' 5"	20' 4"
1/2"	2310	2310	2020	1650	1520	1410	1320		
3' 7"	2310	2310	2020	1650	1520	1410	1320		
5' 7"		1470	1470	1320	1210	1100	1050	990	900
6' 3"			1340	1230	1140	1030	990	920	830
7' 10"				990	940	880	830	790	700
9' 6"					770	770	720	680	610
10' 10"						610	610	610	550
12' 2"							570	520	480
13' 5"								480	440
16' 1"									350
↑S (ft)	lb								

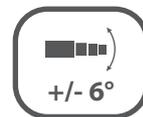


CRANE PERFORMANCE: J6									
L [ft]→	7' 5"	9' 6"	10' 2"	11' 10"	13' 5"	14' 9"	16' 1"	17' 5"	20' 4"
1/2"	2310	2310	2020	1580	1380	1270	1190		
3' 7"	2310	2310	2020	1580	1380	1270	1190		
5' 7"		1470	1470	1320	1160	1050	1010	900	810
6' 3"			1340	1230	1140	990	940	830	770
7' 10"				990	940	880	830	770	630
9' 6"					770	770	720	680	590
10' 10"						610	610	610	520
12' 2"							570	520	480
13' 5"								480	440
16' 1"									350
↑S (ft)	lb								

# MPK20.2 JIB1000.GX load tables

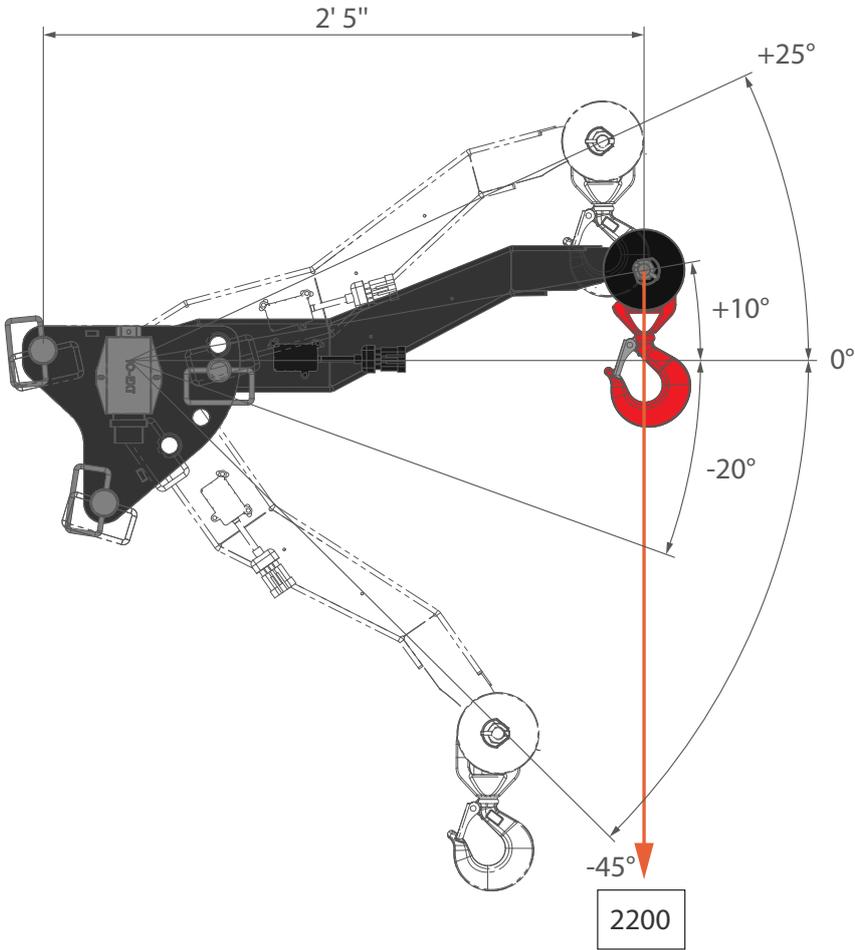


CRANE PERFORMANCE: J5									
L [ft]→	7' 5"	9' 6"	10' 2"	11' 10"	13' 5"	14' 9"	16' 1"	17' 5"	20' 4"
1/2"	1450	1450	1450	1450	1450	1410	1320		
3' 7"	1450	1450	1450	1450	1450	1410	1320		
5' 7"		830	830	830	830	830	830	830	830
6' 3"			720	720	720	720	720	720	720
7' 10"				550	550	550	550	550	550
9' 6"					390	390	390	390	390
10' 10"						280	280	280	280
12' 2"							240	240	240
13' 5"								220	220
16' 1"									150
↑S (ft)	lb								



CRANE PERFORMANCE: J4									
L [ft]→	7' 5"	9' 6"	10' 2"	11' 10"	13' 5"	14' 9"	16' 1"	17' 5"	20' 4"
1/2"	1450	1450	1450	1380	1320	1270	1190		
3' 7"	1450	1450	1450	1380	1320	1270	1190		
5' 7"		830	830	830	810	810	810	770	770
6' 3"			720	720	720	700	700	660	660
7' 10"				550	550	550	550	520	500
9' 6"					390	390	390	390	390
10' 10"						280	280	280	280
12' 2"							240	240	240
13' 5"								220	220
16' 1"									150
↑S (ft)	lb								

## ACCESSORIES FEATURES JIB1000.GX



	JIB	JIB1000.GX	lb	40
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## SYMBOLS

	Weight		Electric Engine		Minipicker		Boom Angle
	Max Capacity		Hydraulic Oil		Rear Wheel Load		Boom Length
	Gradeability		Working Temperature		Front Wheel Load		Slewing
	Jib		Glass Manipulator		Travel Speed		Boom horizontal angle +/- 6°
	Hook		Winch		Counterweight		

### REMARKS REFERRING TO LOAD CHART

- Load charts are calculated according to EN 13000:2014.
- Load charts have been calculated considering a wind load of 13,8 m/s, a sail area of 1m<sup>2</sup>/t and a drag coefficient of 1,2.
- Hookblocks and hooks weight is part of the load and therefore it must be deducted from the lifting capacities.
- Working radius is measured from the front plate of the frame.
- The supplied Technical Data document is part of the use and maintenance manual.
- All specifications and features herein described can be changed without prior advice.
- All indicated data are indicative only and are not binding as crane performs differently depending on its use.





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SERIAL NUMBER: