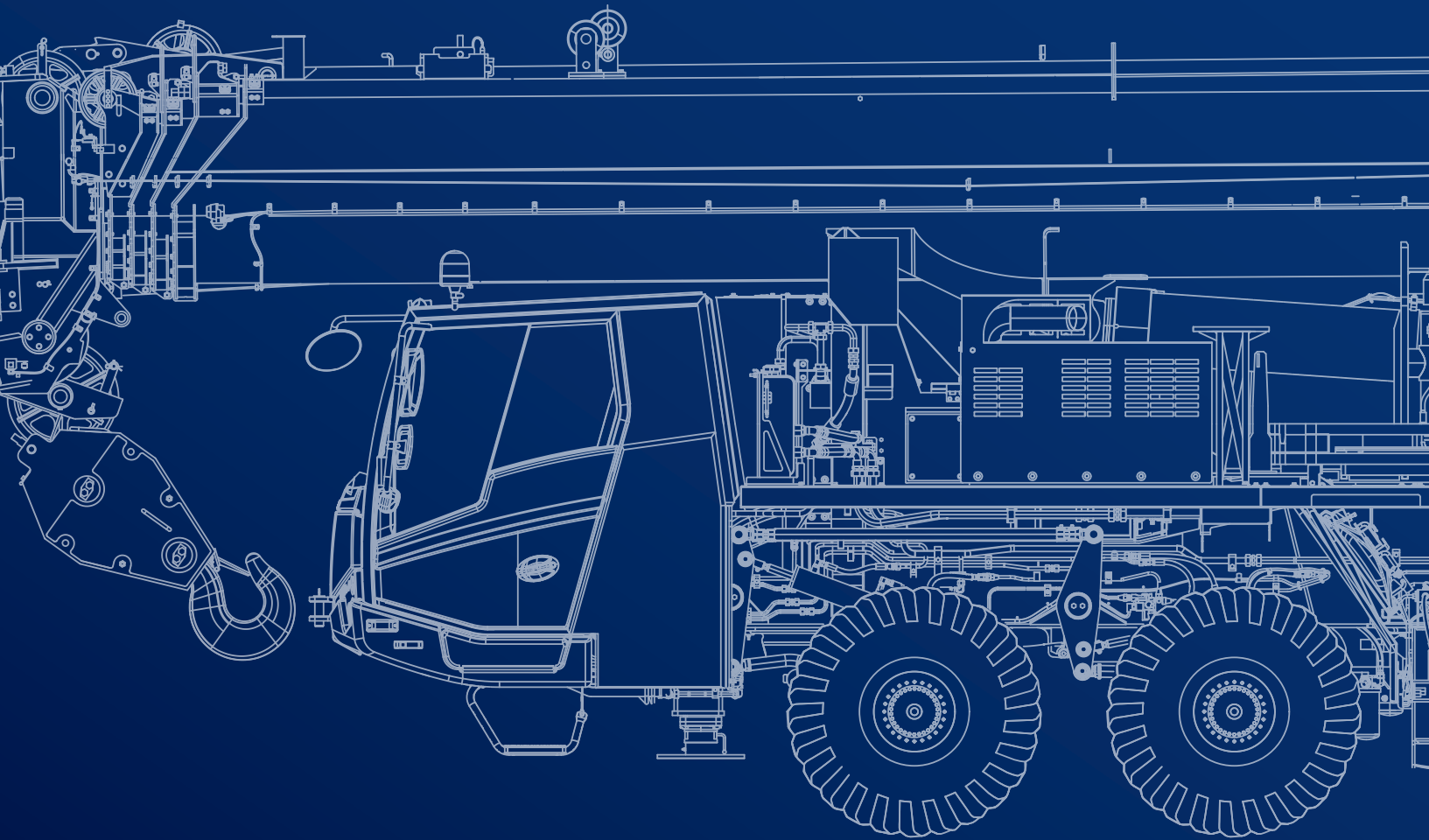


# **GT-800XL-2**

**80 US TON MAX. CRANE CAPACITY**



April 2023. Unless otherwise specified, all information in this brochure refers to a standard crane equipment, and it is intended as general information only. No liability is assumed. Errors reserved. Product specifications and prices are subject to changes without notice. The photographs and/or drawings in this brochure are for illustrative purposes only. For correct and safe crane operation, the original operating manual and lifting capacity charts are essential. Failure to follow the corresponding Operator's Manual when using our equipment or failure to otherwise act responsibly may result in property damage, serious injury or death. The sole warranty applicable with respect to our equipment is the standard warranty as per general terms and conditions of sales and service (ask your local Tadano dealer for details), and Tadano makes no other warranty, express or implied. All rights reserved. Any use of the trademarks, logos, brand names and model names used herein is prohibited.

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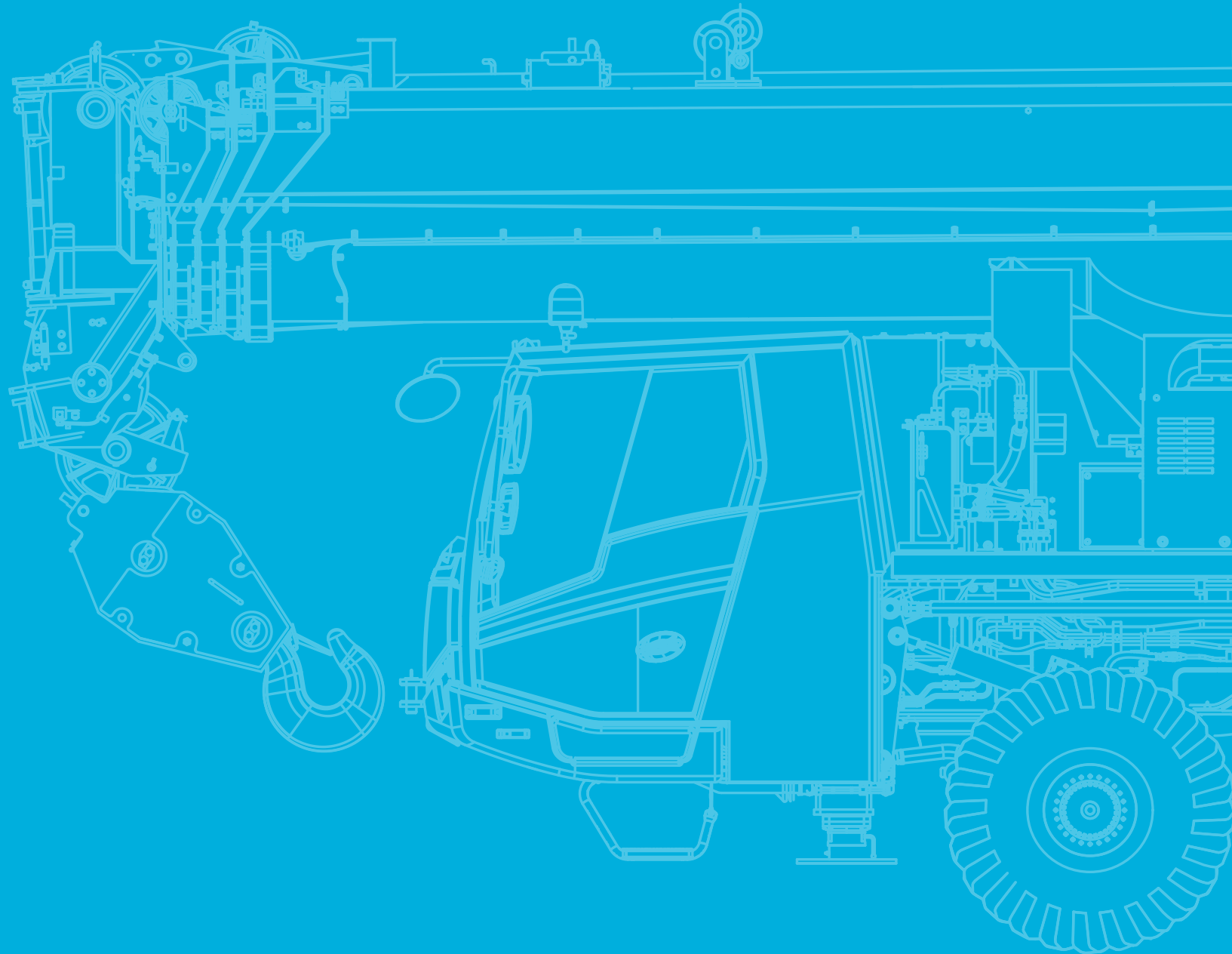
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# Key



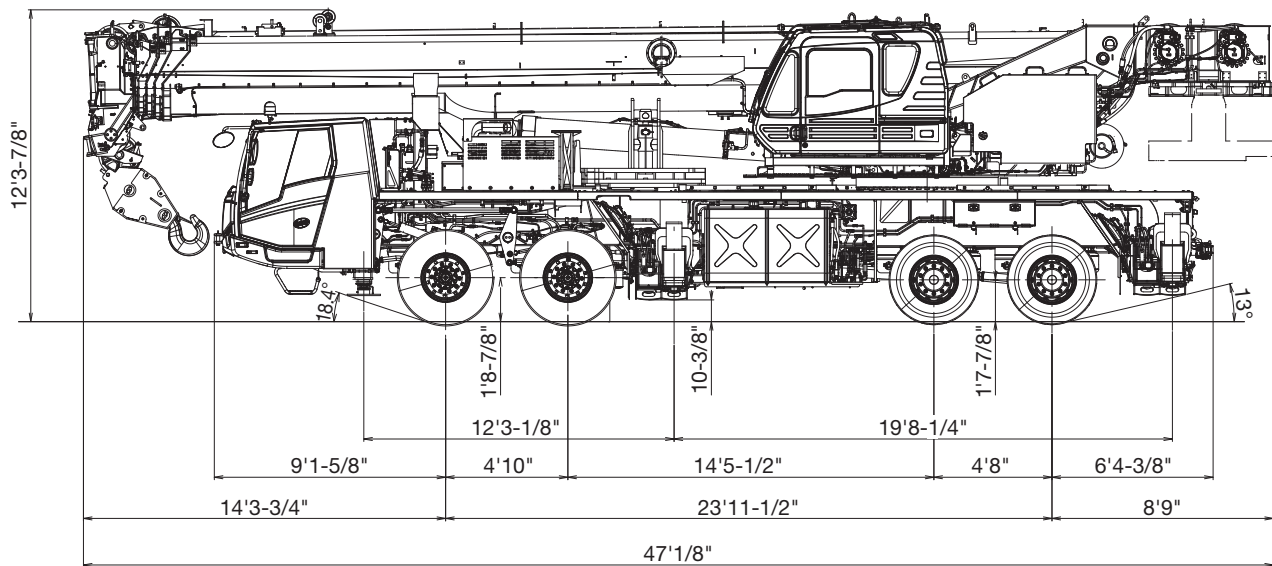
	Counterweight		Max. line pull
	Lifting capacities on outriggers · 360°		Rope diameter
	Radius		Rope length
	Main boom		Hook block
	Main boom length		Number of lines
	Folding swing-away jib		Number of sheaves in hook block
	Tires		Line pulls available
	Hook block		Possible load of hook block
	Hook ball		Weight of hook block
	Hoist		Distance head sheave axle – hook ground
	Travel speed		Max. outrigger load
	Working speeds		Length of stroke (support cylinders)
	Rope		Base machine
	Base jib		Gross vehicle weight
	Top jib		Weight on front axle
	Boom telescoping		Weight on rear axle
	Boom elevation		Wire rope layer
	Slewing		Total wire rope
	Dolly		

# SPECIFICATIONS

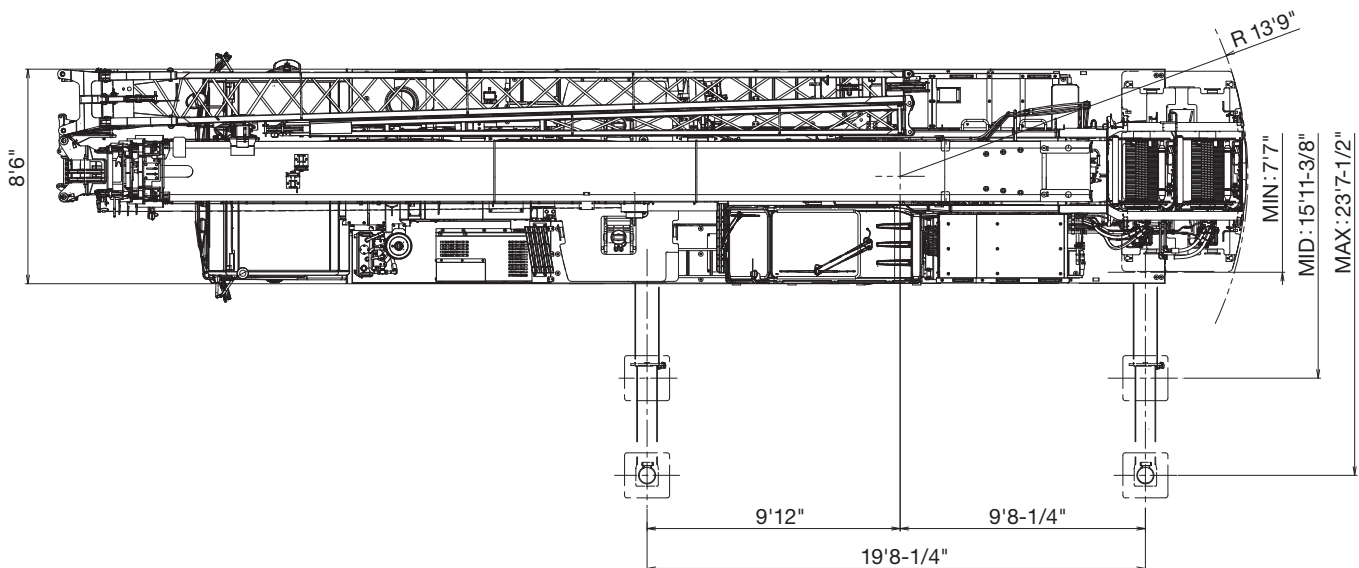


# Specifications

## Vehicle dimensions

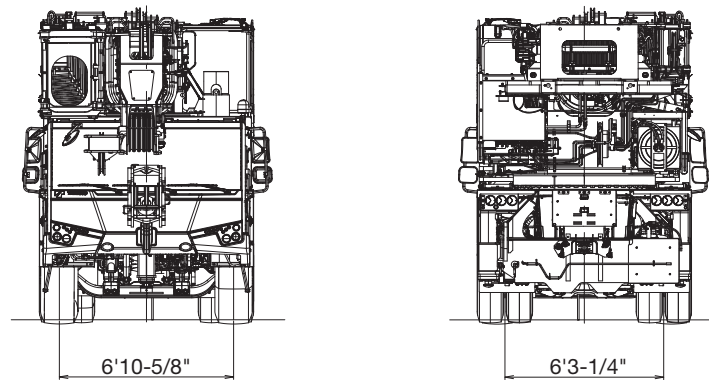


Dimension is with boom angle at -0.4 degree.



# Specifications

## Vehicle dimensions

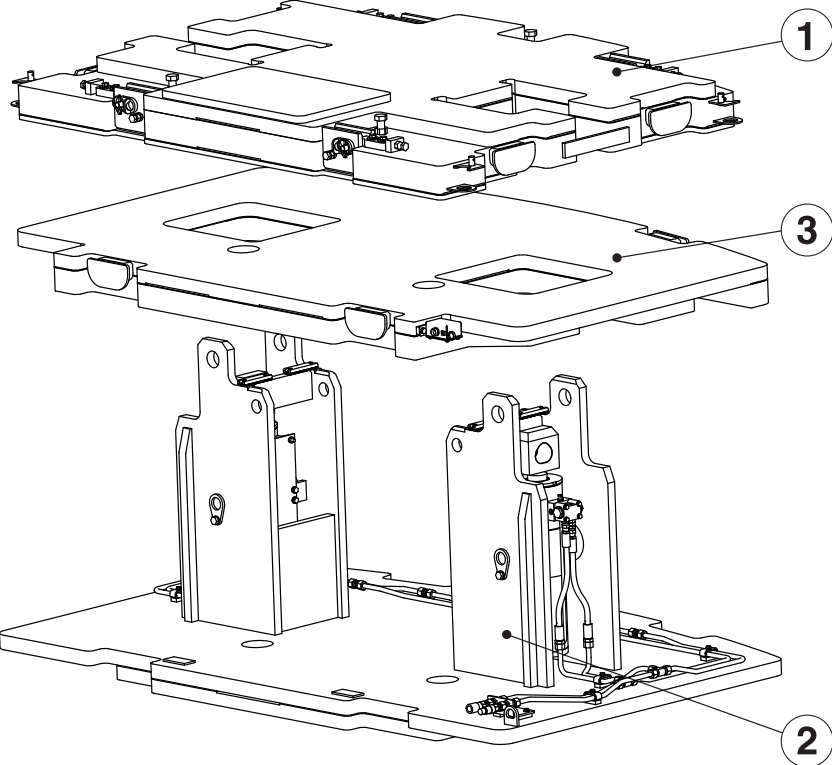


## General dimensions

Overall length	approx. 47'-1/8"
Overall width	approx. 8' 6"
Overall height	approx. 12' 3-7/8"
Turning radius: Front tire (curb to curb)	46' 3"

# Specifications

## Counterweight

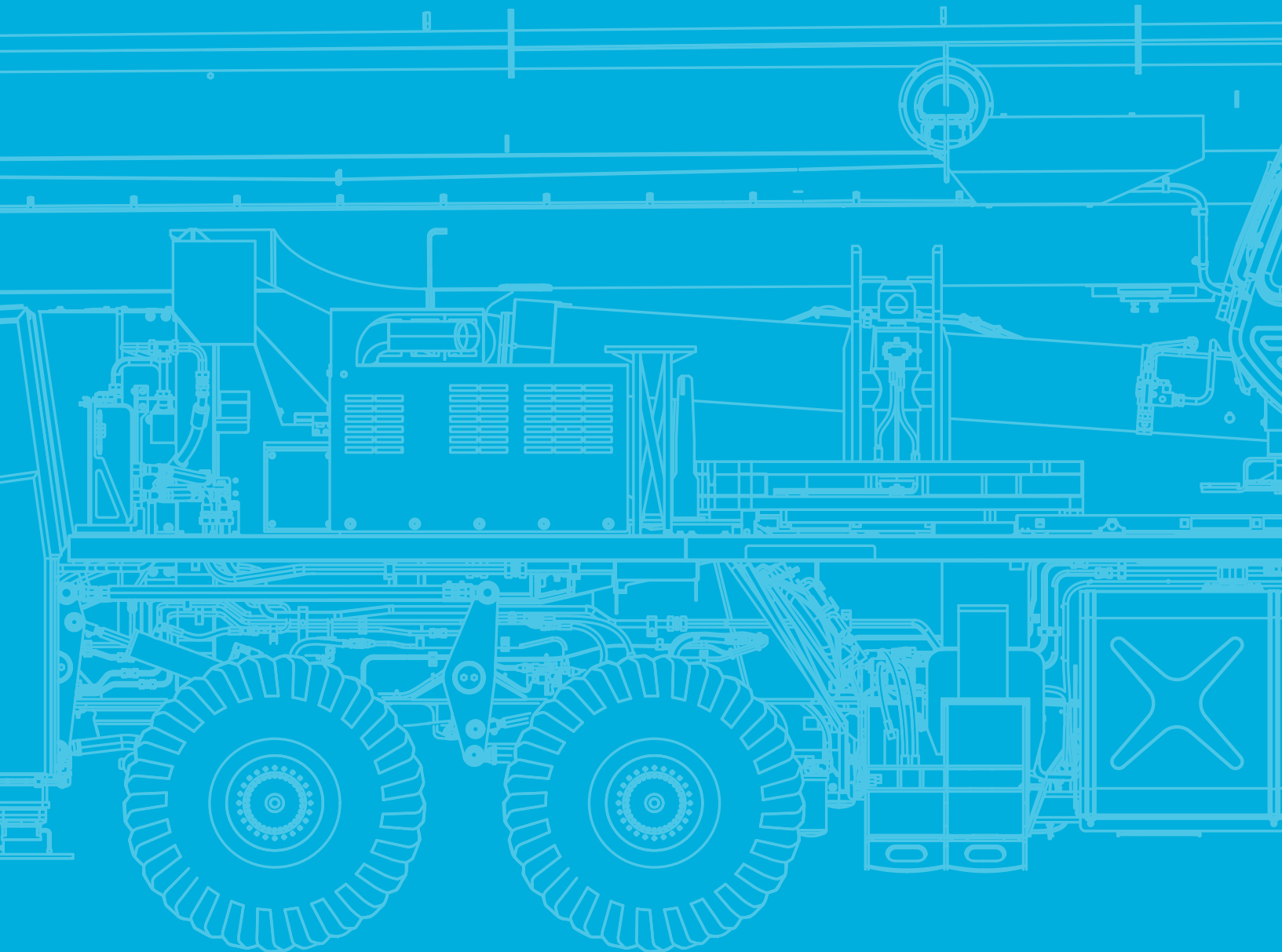


## Configurations

	0 lb	6,700 lb	12,400 lb	17,900 lb
① 6,700 lb		1	1	1
② 5,700 lb			1	1
③ 5,500 lb				1


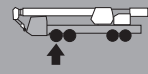
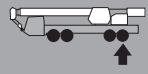











# TECHNICAL DATA FOR OFF-ROAD DRIVING

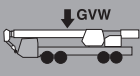
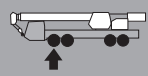
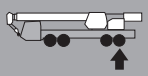

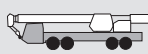


# Off-road driving

## Axle weight distribution chart

			
	87,450 lb	41,850 lb	45,600 lb
<b>Remove:</b>			
 7.9 ton	-400 lb	-650 lb	250 lb
 Top jib +  Base jib	-2,550 lb	-2,750 lb	200 lb
Single top	-100 lb	-200 lb	100 lb
<b>Add:</b>			
 7.9 ton (stowed on the carrier)	400 lb	450 lb	-50 lb
 55 ton	1,450 lb	2,500 lb	-1,050 lb
 6,700 lb on upper	6,700 lb	-2,900 lb	9,600 lb
 6,700 lb on upper + 5,700 lb on carrier deck	12,400 lb	1,200 lb	11,200 lb
 6,700 lb on upper + 11,200 lb on carrier deck	17,900 lb	5,150 lb	12,750 lb

## Axle weight distribution equipped with dolly

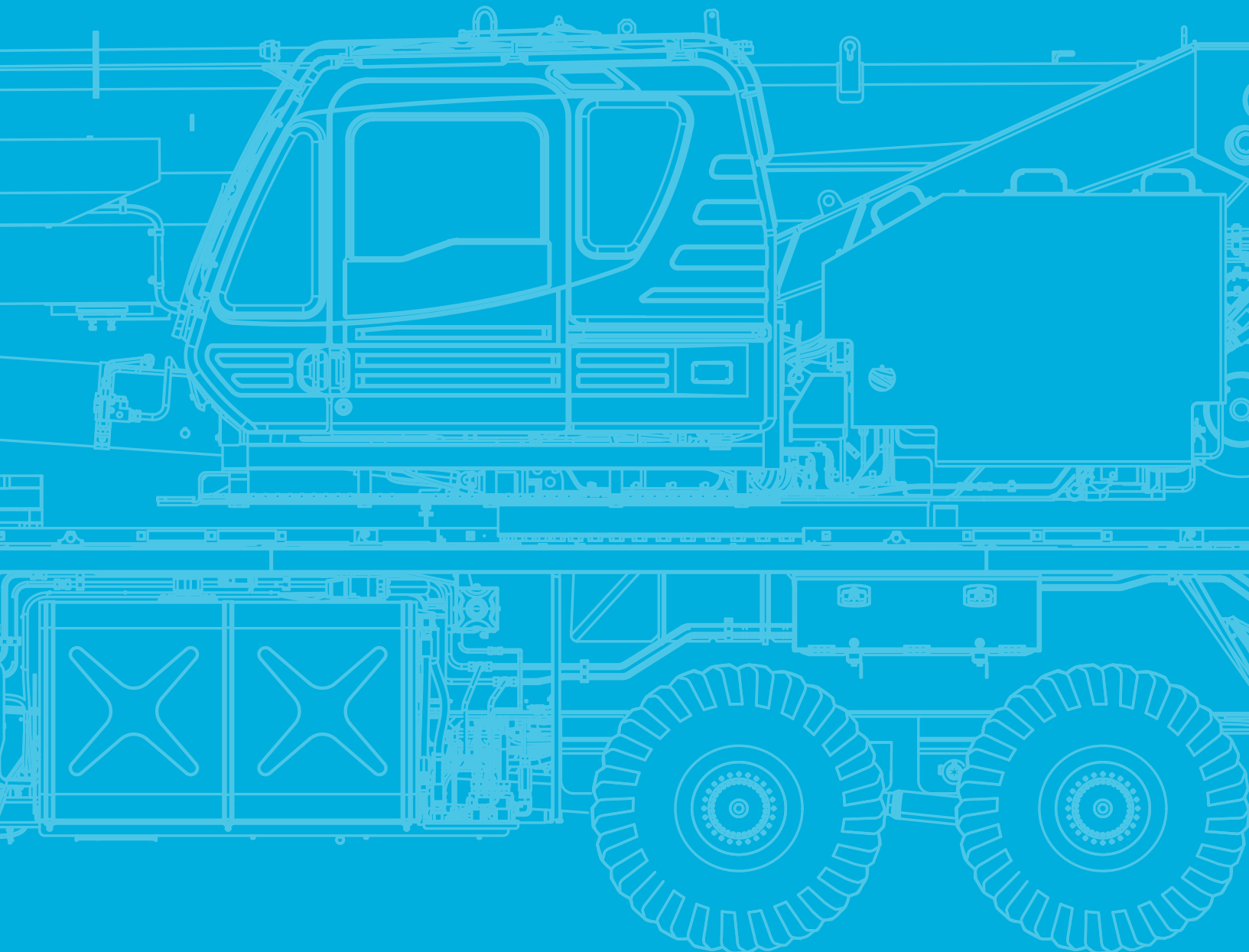
				
	87,050 lb	33,700 lb	38,500 lb	14,850 lb
without 7.9 ton hook – dolly weight is not included				

## Speeds



Max. traveling speed: 65 mph

# TECHNICAL DATA FOR OPERATION




# Operation






## Main boom

	approx. 142 s (39.5 ft – 154.3 ft)		-1.5° – 80.5° approx. 46 s (20° – 60°)
---	------------------------------------	---	---

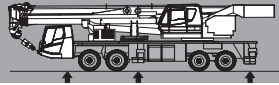


## Slewing

	1.5 min <sup>-1</sup>
---	-----------------------







## Hoist

				
	446 ft/min	15,900 lb	3/4"	892'
	446 ft/min	15,900 lb	3/4"	482'

## Outrigger cylinders

			
	44,700 lb	132,500 lb	122,800 lb
	2' 1-3/16"	1' 5-11/16"	1' 7-7/8"

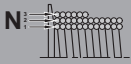



## Hook blocks

					
7.9 ton	15,800 lb	–	1	370 lb	7.5 ft
22 ton	44,000 lb	1	2	690 lb	7.6 ft
55 ton	110,000 lb	3	6	1410 lb	8.0 ft
100 ton	200,000 lb	7	14	1800 lb	8.0 ft

# Operation

## Line speeds and pulls

### Main or auxiliary winch – 15" drum

	  <sup>1)</sup>		 <sup>2)</sup>
	low	high	
1	253 ft/min.	354 ft/min.	21,800 lb
2	276 ft/min.	384 ft/min.	19,900 lb
3	299 ft/min.	413 ft/min.	18,200 lb
4	318 ft/min.	446 ft/min.	16,800 lb
5	341 ft/min.	476 ft/min.	15,600 lb

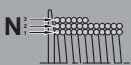


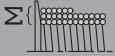
Maximum permissible line pull wire strength. 15,900 lb with 7 x 35 class rope.

1) Line speed based only on hook block, not loaded.

2) Developed by machinery with each layer of wire rope, but not based on rope strength or other limitations in machinery or equipment.

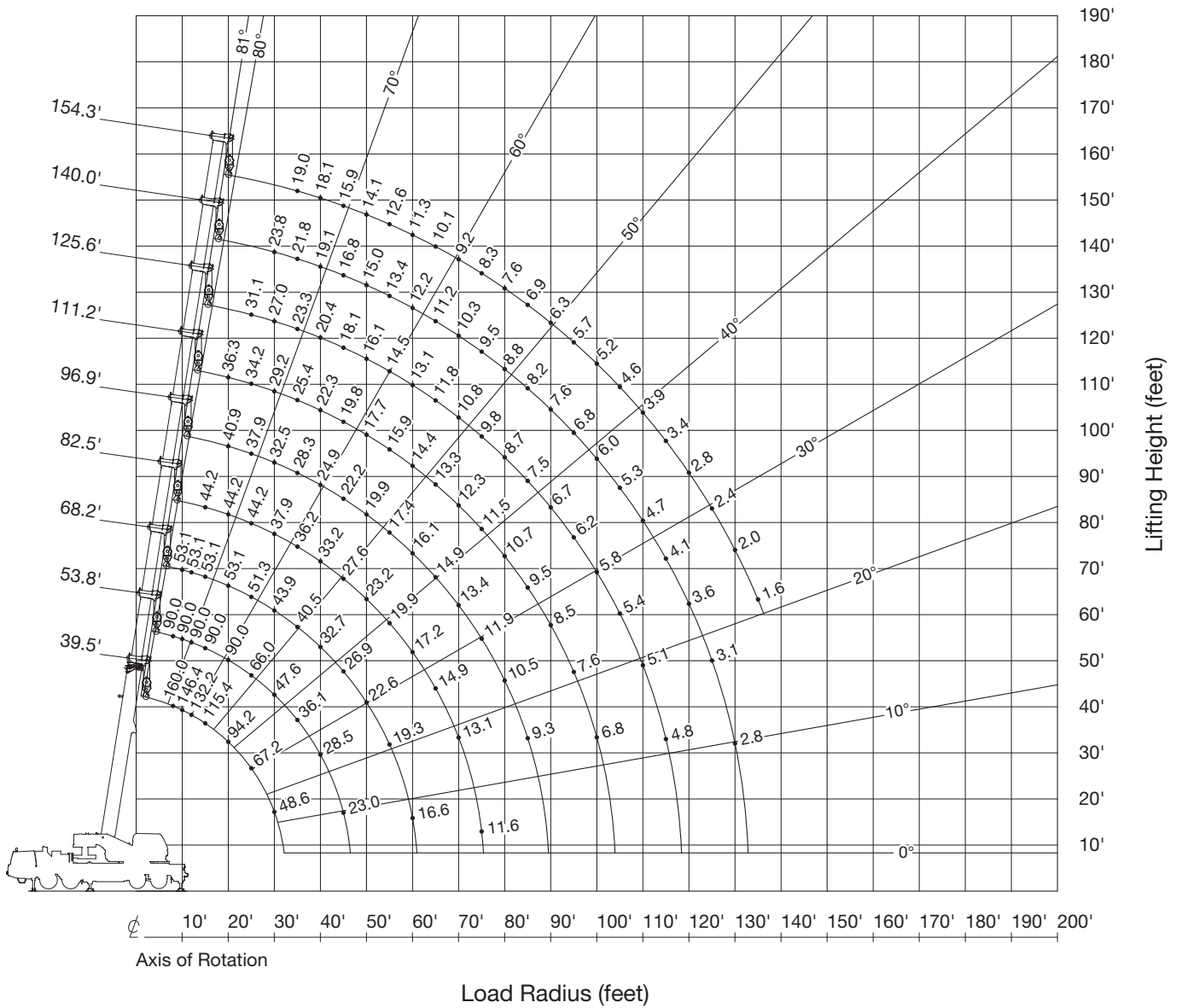
## Drum wire rope capacities

### Main and auxiliary drum grooved lagging 3/4" wire rope

	 	
1	147.0 ft	147.0 ft
2	159.4 ft	306.4 ft
3	172.2 ft	478.7 ft
4	184.7 ft	663.4 ft
5	197.2 ft	860.6 ft

## Drum dimensions

Root diameter	15"
Length	29-1/4"
Flange diameter	26-5/8"





**NOTE:**

Boom geometry shown are for unloaded condition and machine standing level on firm supporting surface. Boom deflection and subsequent radius and boom angle change must be accounted for when applying load to hook.

# Operation

MB

Fully extended – 360°

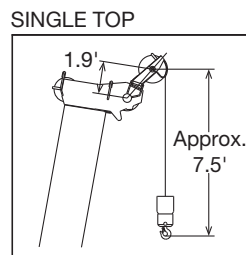
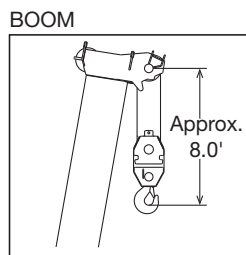
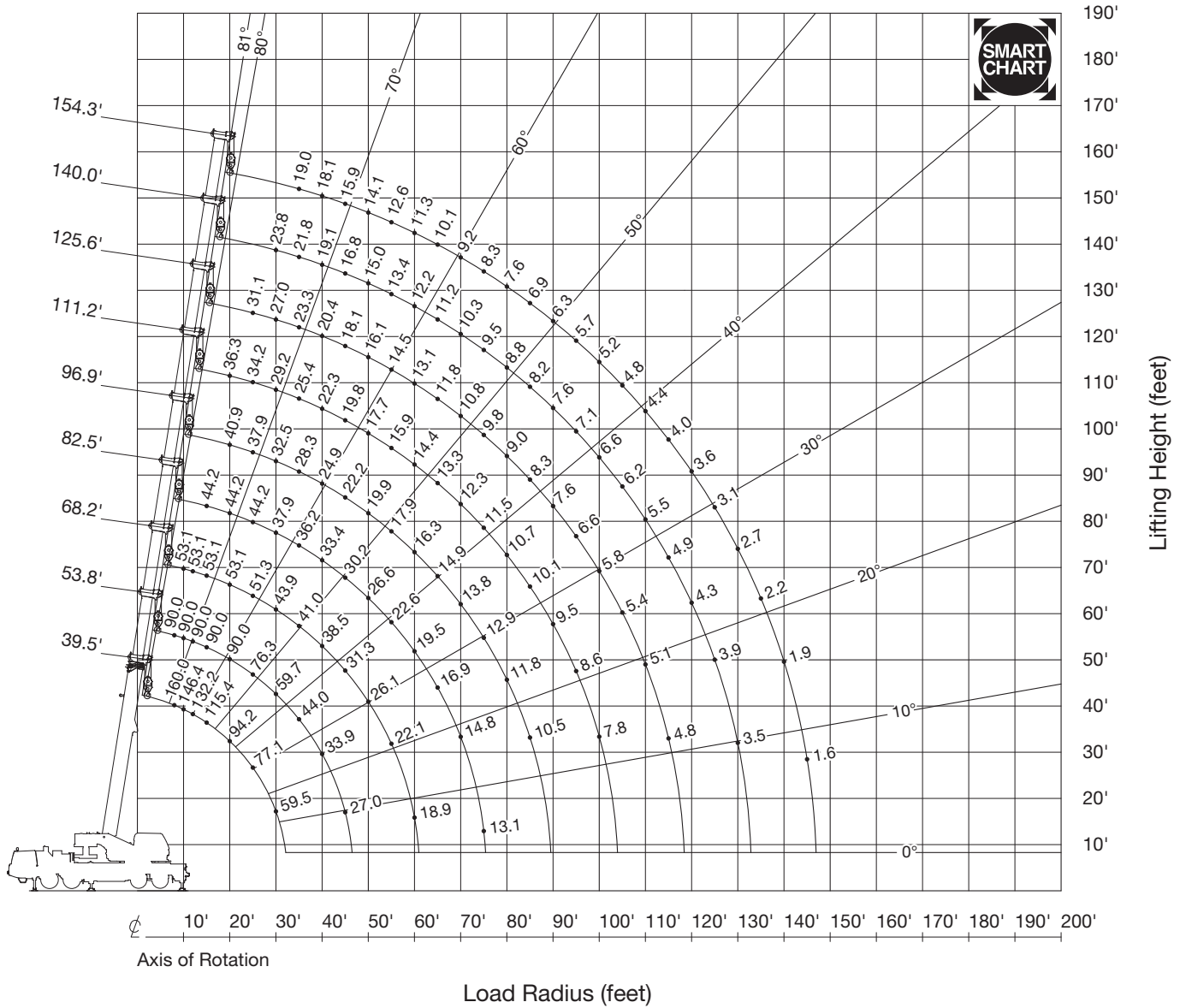
17,900 lb		23'7-1/2" x 19'8-1/4"										360°				
		39.5'	53.8'	68.2'	68.2'	82.5'	82.5'	96.9'	96.9'	111.2'	111.2'	125.6'	125.6'	140.0'	140.0'	154.3'
ft	lb															
8	160,000	90,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	146,400	90,000	53,100	41,000	-	-	-	-	-	-	-	-	-	-	-	-
12	132,200	90,000	53,100	41,000	-	-	-	-	-	-	-	-	-	-	-	-
15	115,400	90,000	53,100	41,000	44,200	36,200	-	-	-	-	-	-	-	-	-	-
20	94,200	90,000	53,100	41,000	44,200	36,200	40,900	34,300	36,300	33,300	-	-	-	-	-	-
25	67,200	66,000	51,300	41,000	44,200	36,200	37,900	33,700	34,200	30,500	31,100	26,100	-	-	-	-
30	48,600	47,600	43,900	41,000	37,900	36,200	32,500	29,400	29,200	26,600	27,000	22,300	23,800	22,300	-	-
35	-	36,100	35,700	40,500	32,900	36,200	28,300	25,900	25,400	23,400	23,300	19,400	21,800	20,800	19,000	-
40	-	28,500	28,100	32,700	28,900	33,200	24,900	23,200	22,300	20,900	20,400	17,100	19,100	18,400	18,100	-
45	-	23,000	22,500	26,900	23,900	27,600	22,200	20,900	19,800	18,800	18,100	15,200	16,800	16,400	15,900	-
50	-	-	18,300	22,600	19,700	23,200	19,900	19,000	17,700	17,100	16,100	13,600	15,000	14,800	14,100	-
55	-	-	15,100	19,300	16,400	19,900	17,300	17,400	15,900	15,600	14,500	12,300	13,400	13,400	12,600	-
60	-	-	12,500	16,600	13,800	17,200	14,600	16,100	14,400	14,400	13,100	11,100	12,100	12,100	11,300	-
65	-	-	-	-	11,600	14,900	12,500	14,900	13,100	13,300	11,800	10,100	10,900	11,200	10,100	-
70	-	-	-	-	9,700	13,100	10,600	13,400	11,200	12,300	10,800	9,300	9,900	10,300	9,200	-
75	-	-	-	-	8,200	11,600	9,000	11,900	9,600	11,500	9,800	8,500	9,000	9,500	8,300	-
80	-	-	-	-	-	-	7,700	10,500	8,300	10,700	8,700	7,800	8,200	8,800	7,600	-
85	-	-	-	-	-	-	6,500	9,300	7,100	9,500	7,500	7,200	7,500	8,200	6,900	-
90	-	-	-	-	-	-	-	-	6,100	8,500	6,500	6,700	6,700	7,600	6,300	-
95	-	-	-	-	-	-	-	-	5,200	7,600	5,600	6,200	5,900	6,800	5,700	-
100	-	-	-	-	-	-	-	-	4,400	6,800	4,800	5,800	5,100	6,000	5,200	-
105	-	-	-	-	-	-	-	-	-	-	4,100	5,400	4,400	5,300	4,600	-
110	-	-	-	-	-	-	-	-	-	-	3,500	5,100	3,700	4,700	3,900	-
115	-	-	-	-	-	-	-	-	-	-	3,000	4,800	3,200	4,100	3,400	-
120	-	-	-	-	-	-	-	-	-	-	-	-	2,700	3,600	2,800	-
125	-	-	-	-	-	-	-	-	-	-	-	-	2,200	3,100	2,400	-
130	-	-	-	-	-	-	-	-	-	-	-	-	1,900	2,800	2,000	-
135	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,600	-
 1)	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	20°

## Telescopic conditions (%)

	1, 2	1	1	2	1	2	1	2	1	2	1	2	1	2	1, 2
2nd boom	0	50	100	0	100	0	100	0	100	0	100	0	100	50	100
3rd boom	0	0	0	33	16	50	33	67	50	83	67	100	83	100	100
4th boom	0	0	0	33	16	50	33	67	50	83	67	100	83	100	100
Top boom	0	0	0	33	16	50	33	67	50	83	67	100	83	100	100

1) Minimum boom angle (°) for indicator length (no load)

2) Telescopic mode



**NOTE:**

Boom geometry shown are for unloaded condition and machine standing level on firm supporting surface. Boom deflection and subsequent radius and boom angle change must be accounted for when applying load to hook.



## Fully extended – SMART CHART

17,900 lb		23'7-1/2" x 19'8-1/4"														360°	
ft		lb															
	39.5'	53.8'	68.2'	68.2'	82.5'	82.5'	96.9'	96.9'	111.2'	111.2'	125.6'	125.6'	140.0'	140.0'	154.3'		
8	160,000	90,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10	146,400	90,000	53,100	41,000	-	-	-	-	-	-	-	-	-	-	-	-	
12	132,200	90,000	53,100	41,000	-	-	-	-	-	-	-	-	-	-	-	-	
15	115,400	90,000	53,100	41,000	44,200	36,200	-	-	-	-	-	-	-	-	-	-	
20	94,200	90,000	53,100	41,000	44,200	36,200	40,900	34,300	36,300	33,300	-	-	-	-	-	-	
25	77,100	76,300	51,300	41,000	44,200	36,200	37,900	33,700	34,200	30,500	31,100	26,100	-	-	-	-	
30	59,500	59,700	43,900	41,000	37,900	36,200	32,500	29,400	29,200	26,600	27,000	22,300	23,800	22,300	-	-	
35	-	44,000	38,100	41,000	32,900	36,200	28,300	25,900	25,400	23,400	23,300	19,400	21,800	20,800	19,000	-	
40	-	33,900	33,300	38,500	28,900	33,400	24,900	23,200	22,300	20,900	20,400	17,100	19,100	18,400	18,100	-	
45	-	27,000	26,500	31,300	25,600	30,200	22,200	20,900	19,800	18,800	18,100	15,200	16,800	16,400	15,900	-	
50	-	-	21,400	26,100	22,800	26,600	19,900	19,000	17,700	17,100	16,100	13,600	15,000	14,800	14,100	-	
55	-	-	17,500	22,100	18,900	22,600	17,900	17,400	15,900	15,600	14,500	12,300	13,400	13,400	12,600	-	
60	-	-	14,400	18,900	15,900	19,500	16,300	16,100	14,400	14,400	13,100	11,100	12,100	12,200	11,300	-	
65	-	-	-	-	13,400	16,900	14,200	14,900	13,100	13,300	11,800	10,100	10,900	11,200	10,100	-	
70	-	-	-	-	11,300	14,800	12,200	13,800	12,000	12,300	10,800	9,300	9,900	10,300	9,200	-	
75	-	-	-	-	9,600	13,100	10,400	12,900	11,000	11,500	9,800	8,500	9,000	9,500	8,300	-	
80	-	-	-	-	-	-	9,000	11,800	9,600	10,700	9,000	7,800	8,200	8,800	7,600	-	
85	-	-	-	-	-	-	7,700	10,500	8,300	10,100	8,300	7,200	7,500	8,200	6,900	-	
90	-	-	-	-	-	-	-	-	7,200	9,500	7,600	6,700	6,900	7,600	6,300	-	
95	-	-	-	-	-	-	-	-	6,200	8,600	6,600	6,200	6,300	7,100	5,700	-	
100	-	-	-	-	-	-	-	-	5,400	7,800	5,700	5,800	5,800	6,600	5,200	-	
105	-	-	-	-	-	-	-	-	-	-	5,000	5,400	5,300	6,200	4,800	-	
110	-	-	-	-	-	-	-	-	-	-	4,300	5,100	4,600	5,500	4,400	-	
115	-	-	-	-	-	-	-	-	-	-	3,700	4,800	4,000	4,900	4,000	-	
120	-	-	-	-	-	-	-	-	-	-	-	-	3,400	4,300	3,600	-	
125	-	-	-	-	-	-	-	-	-	-	-	-	3,000	3,900	3,100	-	
130	-	-	-	-	-	-	-	-	-	-	-	-	2,500	3,500	2,700	-	
135	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,200	-	
140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,900	-	
145	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,600	-	
	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	

### Telescopic conditions (%)

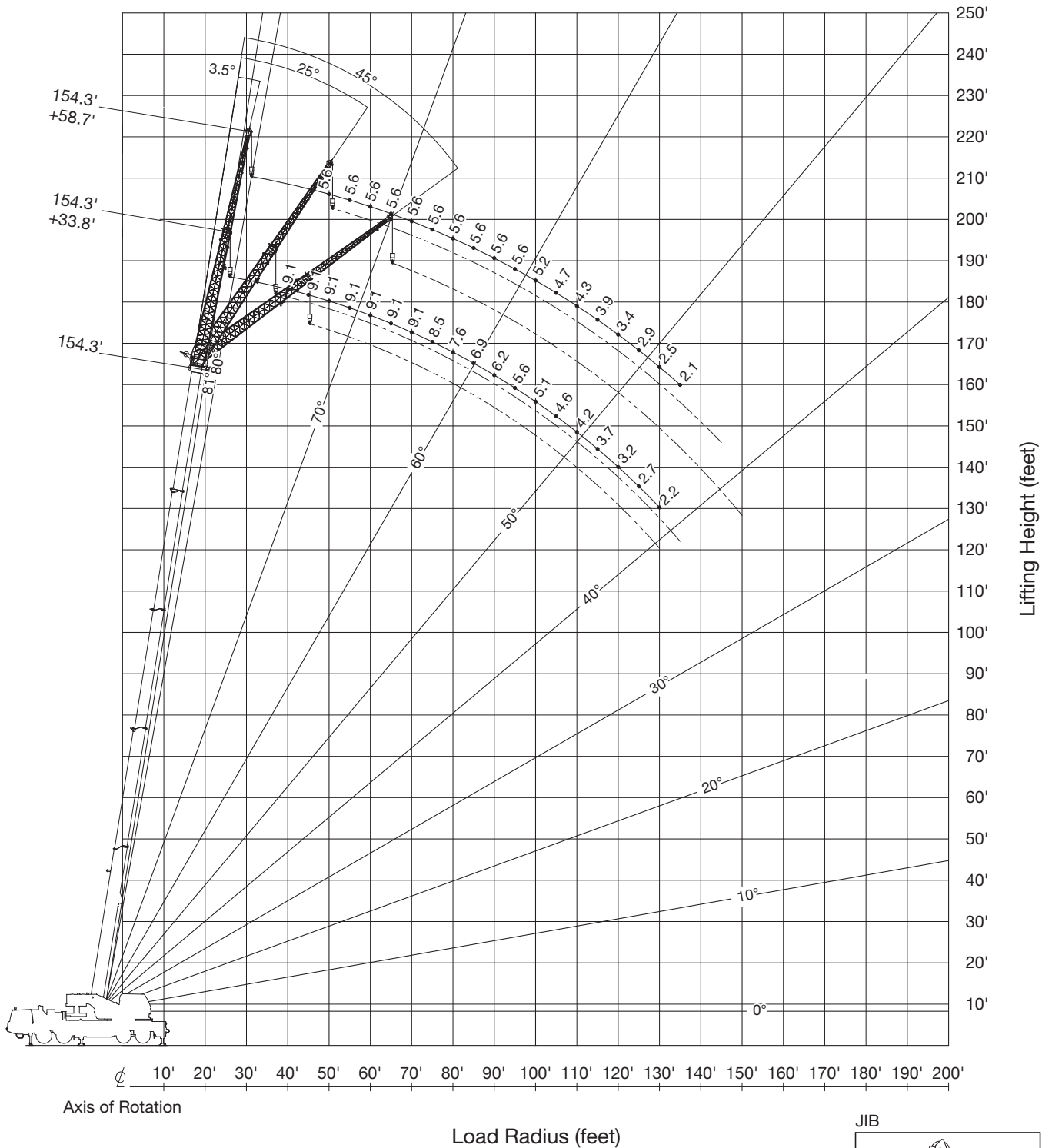
	1, 2	1	1	2	1	2	1	2	1	2	1	2	1	2	1, 2
2nd boom	0	50	100	0	100	0	100	0	100	0	100	0	100	50	100
3rd boom	0	0	0	33	16	50	33	67	50	83	67	100	83	100	100
4th boom	0	0	0	33	16	50	33	67	50	83	67	100	83	100	100
Top boom	0	0	0	33	16	50	33	67	50	83	67	100	83	100	100

1) Minimum boom angle (°) for indicator length (no load)

2) Telescopic mode



Smart Chart



**NOTE:**

Jib geometry shown are for unloaded condition and machine standing level on firm supporting surface. Boom deflection and subsequent radius and boom angle change must be accounted for when applying load to hook.

# Operation

## Fully extended – 360°

		17,900 lb		23'7-1/2" x 19'8-1/4"		33.8'		360°																													
		111.2'		125.6'		140.0'		154.3'																													
		3.5°		25°		45°		3.5°		25°		45°		3.5°		25°		45°																			
ft																			lb																		
30	14,600	11,500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																	
35	14,600	11,500	-	-	-	-	13,200	11,300	-	-	-	-	-	10,400	10,100	-	-	-	-	-																	
40	14,600	11,500	12,600	10,900	-	-	13,200	11,300	-	-	-	-	-	10,400	10,100	-	-	-	-	9,100																	
45	14,600	11,500	12,000	10,900	-	-	13,200	11,300	11,700	10,900	-	-	-	10,400	10,100	-	-	-	-	9,100																	
50	14,600	11,500	11,400	10,900	9,100	9,000	13,200	11,300	11,200	10,800	-	-	-	10,400	10,100	10,200	10,100	-	-	9,100																	
55	14,600	11,500	10,900	10,600	8,900	8,700	13,200	11,300	10,800	10,400	8,800	8,600	10,400	10,100	10,200	10,100	8,700	8,600	9,100	9,100																	
60	13,500	11,500	10,500	10,200	8,600	8,500	12,700	10,400	10,400	10,100	8,600	8,400	10,400	10,100	10,100	10,000	8,400	8,400	9,100	9,100																	
65	12,300	11,500	10,100	9,800	8,400	8,300	11,400	9,400	10,000	9,300	8,400	8,200	10,400	10,100	9,800	9,700	8,200	8,200	9,100	9,100																	
70	11,200	10,900	9,700	9,400	8,200	8,100	10,400	8,600	9,700	8,600	8,200	8,000	9,800	9,400	9,500	9,100	8,100	8,000	9,100	9,100																	
75	10,200	10,100	9,400	9,100	8,000	7,900	9,400	7,800	9,300	7,800	8,000	7,800	8,900	8,600	9,100	8,400	7,900	7,800	8,500	8,800																	
80	9,300	9,400	9,100	8,800	7,900	7,700	8,600	7,100	8,700	7,200	7,800	7,200	8,000	7,800	8,300	7,800	7,700	7,600	7,600	7,900																	
85	8,600	8,800	8,600	8,600	7,700	7,600	7,800	6,500	8,000	6,600	7,700	6,700	7,300	7,200	7,500	7,200	7,600	7,100	6,900	7,200																	
90	7,500	8,200	8,000	8,100	7,600	7,500	7,200	6,000	7,300	6,100	7,500	6,100	6,600	6,700	6,900	6,600	7,000	6,600	6,200	6,500																	
95	6,600	7,700	7,300	7,700	7,400	7,400	6,600	5,500	6,700	5,600	6,800	5,600	6,000	6,100	6,300	6,200	6,400	6,200	5,600	5,900																	
100	5,800	7,300	6,300	7,200	6,700	7,200	5,800	5,000	6,200	5,200	6,300	5,200	5,500	5,700	5,700	5,700	5,900	5,700	5,100	5,400																	
105	5,000	6,800	5,500	6,800	5,800	6,800	5,100	4,700	5,700	4,800	5,800	4,800	5,000	5,300	5,200	5,300	5,400	5,300	4,600	4,900																	
110	4,300	6,100	4,800	6,400	-	-	4,400	4,300	5,000	4,400	5,200	4,400	4,500	4,900	4,800	4,900	4,900	4,900	4,200	4,500																	
115	3,700	5,500	4,100	5,800	-	-	3,800	3,900	4,300	4,000	4,500	4,100	3,900	4,500	4,400	4,600	4,500	4,600	3,700	4,000																	
120	3,200	4,900	3,500	5,200	-	-	3,300	3,600	3,700	3,700	-	-	3,300	4,100	3,800	4,200	4,100	4,300	3,200	3,700																	
125	2,700	4,500	3,000	4,600	-	-	2,800	3,400	3,200	3,400	-	-	2,800	3,600	3,300	3,900	3,500	4,000	2,700	3,200																	
130	2,300	4,000	-	-	-	-	2,400	3,100	2,600	3,200	-	-	2,400	3,100	2,800	3,500	3,000	-	2,200	2,700																	
135	1,900	3,600	-	-	-	-	1,900	2,800	2,200	2,900	-	-	1,900	2,700	2,300	3,000	-	-	-	2,200																	
140	-	-	-	-	-	-	-	2,600	1,700	2,700	-	-	-	2,300	1,900	2,600	-	-	-	-																	
145	-	-	-	-	-	-	-	2,400	-	-	-	-	-	2,000	-	2,200	-	-	-	-																	
1)	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1, 2																		

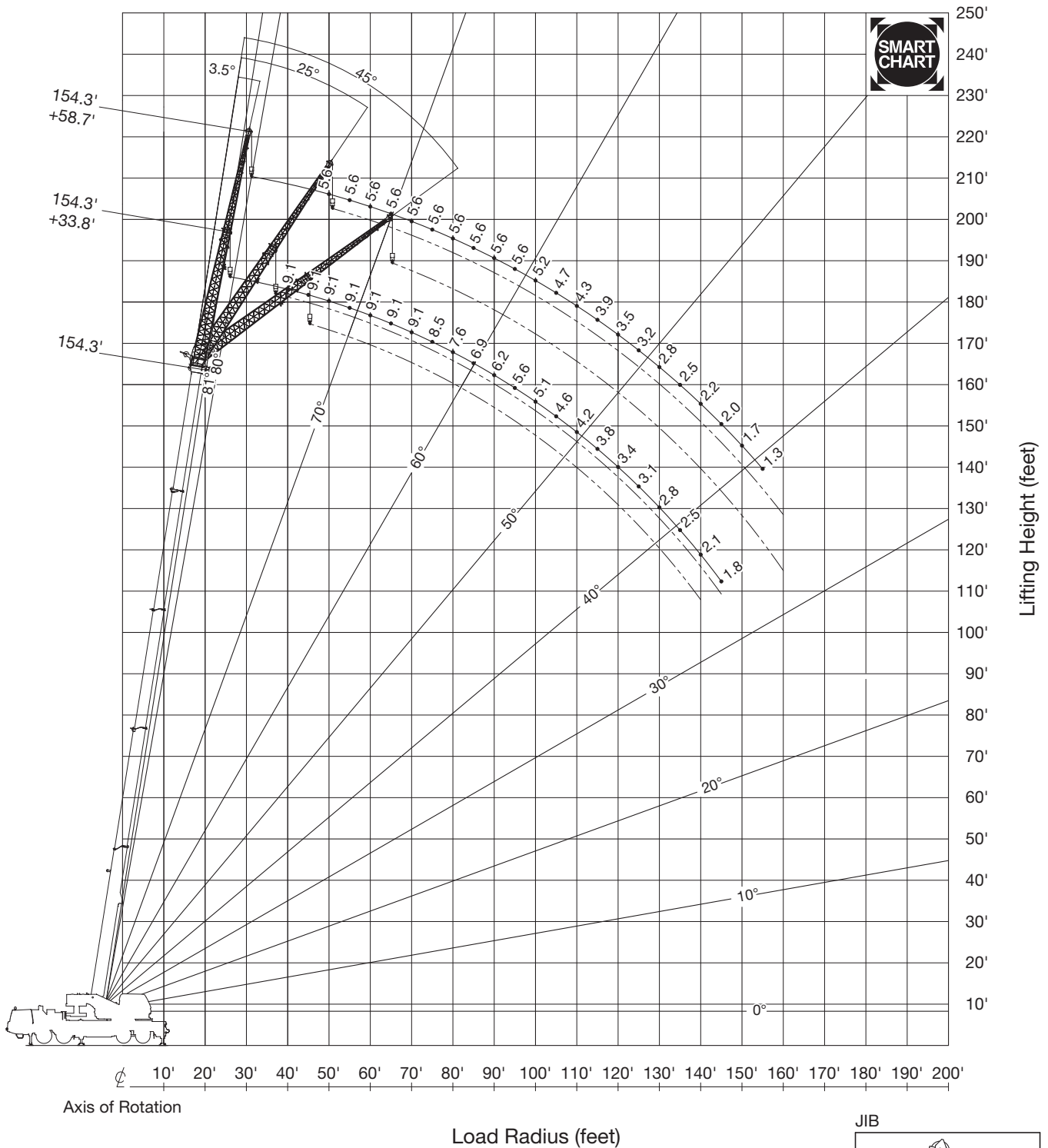
1) Telescopic mode

# Operation

## Fully extended – 360°

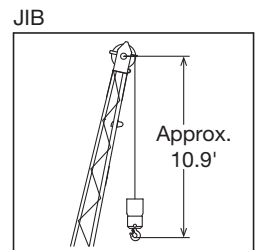
17,900 lb		23'7-1/2" x 19'8-1/4"				58.7'				360°							
111.2'		125.6'				140.0'				154.3'							
3.5°		25°		45°		3.5°		25°		45°		3.5°		25°		45°	
ft	lb																
35	7,700	7,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	7,700	7,000	-	-	-	-	6,900	6,300	-	-	-	-	6,200	5,900	-	-	-
45	7,700	7,000	-	-	-	-	6,900	6,300	-	-	-	-	6,200	5,900	-	-	-
50	7,700	7,000	-	-	-	-	6,900	6,300	-	-	-	-	6,200	5,900	-	-	5,600
55	7,700	7,000	6,500	6,300	-	-	6,900	6,300	-	-	-	-	6,200	5,900	-	-	5,600
60	7,700	7,000	6,500	6,300	-	-	6,900	6,300	-	-	-	-	6,200	5,900	-	-	5,600
65	7,700	7,000	6,500	6,300	-	-	6,900	6,300	6,800	6,300	-	-	6,200	5,900	6,000	5,900	5,600
70	7,700	7,000	6,500	6,300	5,300	4,800	6,900	6,300	6,600	6,300	-	-	6,200	5,900	6,000	5,900	5,600
75	7,700	7,000	6,400	6,300	5,100	4,800	6,900	6,300	6,400	6,200	5,100	4,800	6,200	5,900	6,000	5,900	5,600
80	7,700	7,000	6,200	6,100	5,000	4,800	6,900	6,300	6,200	6,000	5,000	4,800	6,200	5,900	6,000	5,900	5,600
85	7,700	7,000	5,900	5,800	4,800	4,800	6,900	6,300	6,000	5,800	4,900	4,800	6,200	5,900	5,900	5,800	5,600
90	7,500	7,000	5,700	5,600	4,700	4,700	6,900	5,700	5,800	5,500	4,700	4,700	6,200	5,900	5,800	5,700	5,600
95	7,000	6,900	5,500	5,400	4,600	4,500	6,500	5,300	5,600	5,200	4,600	4,600	6,100	5,800	5,600	5,400	5,600
100	6,500	6,700	5,300	5,200	4,500	4,400	6,000	4,800	5,400	4,900	4,500	4,500	5,500	5,300	5,500	5,200	5,400
105	5,800	6,400	5,100	5,000	4,400	4,300	5,500	4,400	5,200	4,700	4,400	4,300	5,000	4,900	5,300	4,900	4,400
110	5,200	6,100	4,900	4,900	4,300	4,200	5,000	4,100	5,000	4,300	4,300	4,200	4,600	4,500	5,000	4,700	4,300
115	4,500	5,800	4,800	4,700	4,200	4,200	4,500	3,700	4,900	4,000	4,200	4,000	4,200	4,200	4,600	4,300	4,200
120	4,000	5,400	4,700	4,600	4,100	4,100	3,900	3,500	4,500	3,700	4,100	3,800	3,700	3,900	4,200	4,000	4,200
125	3,500	5,000	4,200	4,500	4,100	4,100	3,400	3,200	4,200	3,400	4,100	3,500	3,200	3,600	3,800	3,700	4,000
130	3,000	4,500	3,600	4,300	4,000	4,000	2,900	2,900	3,700	3,100	4,000	3,200	2,700	3,300	3,500	3,500	3,700
135	2,600	4,100	3,200	4,300	-	-	2,500	2,700	3,200	2,800	3,500	3,000	2,300	3,000	3,100	3,200	3,400
140	2,200	3,700	2,700	4,000	-	-	2,100	2,400	2,800	2,600	3,000	2,700	1,900	2,600	2,600	3,000	3,100
145	1,900	3,300	-	3,600	-	-	1,800	2,200	2,300	2,400	-	-	-	2,300	2,200	2,800	2,600
150	1,500	3,000	-	3,200	-	-	-	2,100	1,900	2,200	-	-	-	2,000	1,900	2,500	2,200
155	-	2,700	-	-	-	-	-	1,900	-	2,000	-	-	-	1,700	-	2,200	2,400
160	-	2,400	-	-	-	-	-	1,700	-	1,800	-	-	-	-	-	1,800	-
1)	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1, 2

1) Telescopic mode



**NOTE:**

Jib geometry shown are for unloaded condition and machine standing level on firm supporting surface. Boom deflection and subsequent radius and boom angle change must be accounted for when applying load to hook.



# Operation

## Fully extended – SMART CHART

17,900 lb		23'7-1/2" x 19'8-1/4"						33.8'			360°					
3.5°		111.2'		45°		125.6'		45°		140.0'		45°		154.3'		
ft	3.5°	25°	45°	3.5°	25°	45°	3.5°	25°	45°	3.5°	25°	45°	3.5°	25°	45°	
30	14,600	11,500	-	-	-	-	-	-	-	-	-	-	-	-	-	
35	14,600	11,500	-	-	-	-	13,200	11,300	-	-	-	-	10,400	10,100	-	
40	14,600	11,500	12,600	10,900	-	-	13,200	11,300	-	-	-	-	10,400	10,100	-	
45	14,600	11,500	12,000	10,900	-	-	13,200	11,300	11,700	10,900	-	-	10,400	10,100	-	
50	14,600	11,500	11,400	10,900	9,100	9,000	13,200	11,300	11,200	10,800	-	-	10,400	10,100	10,200	
55	14,600	11,500	10,900	10,600	8,900	8,700	13,200	11,300	10,800	10,400	8,800	8,600	10,400	10,100	10,200	
60	13,500	11,500	10,500	10,200	8,600	8,500	12,700	10,400	10,400	10,100	8,600	8,400	10,400	10,100	10,000	
65	12,300	11,500	10,100	9,800	8,400	8,300	11,400	9,400	10,000	9,300	8,400	8,200	10,400	10,100	9,800	
70	11,200	10,900	9,700	9,400	8,200	8,100	10,400	8,600	9,700	8,600	8,200	8,000	9,800	9,400	9,500	
75	10,200	10,100	9,400	9,100	8,000	7,900	9,400	7,800	9,300	7,800	8,000	7,800	8,900	8,600	9,100	
80	9,300	9,400	9,100	8,800	7,900	7,700	8,600	7,100	8,700	7,200	7,800	7,200	8,000	7,800	8,300	
85	8,600	8,800	8,600	8,600	7,700	7,600	7,800	6,500	8,000	6,600	7,700	6,700	7,300	7,200	7,500	
90	7,900	8,200	8,000	8,100	7,600	7,500	7,200	6,000	7,300	6,100	7,500	6,100	6,600	6,700	6,900	
95	7,300	7,700	7,300	7,700	7,400	7,400	6,600	5,500	6,700	5,600	6,800	5,600	6,000	6,100	6,300	
100	6,700	7,300	6,800	7,200	6,800	7,200	6,000	5,000	6,200	5,200	6,300	5,200	5,500	5,700	5,700	
105	5,900	6,900	6,300	6,800	6,300	6,800	5,500	4,700	5,700	4,800	5,800	4,800	5,000	5,300	5,200	
110	5,200	6,500	5,700	6,400	-	-	5,100	4,300	5,200	4,400	5,300	4,400	4,600	4,900	4,800	
115	4,600	6,100	4,900	6,100	-	-	4,700	3,900	4,800	4,000	4,900	4,100	4,200	4,500	4,400	
120	4,000	5,700	4,300	5,800	-	-	4,100	3,600	4,400	3,700	-	-	3,800	4,200	4,000	
125	3,500	5,200	3,700	5,400	-	-	3,500	3,400	3,900	3,400	-	-	3,500	3,900	3,600	
130	3,000	4,700	-	-	-	-	3,000	3,100	3,400	3,200	-	-	3,100	3,600	3,300	
135	2,500	4,300	-	-	-	-	2,600	2,800	2,800	2,900	-	-	2,700	3,400	3,000	
140	-	-	-	-	-	-	2,600	2,400	2,700	-	-	-	2,200	3,000	2,500	
145	-	-	-	-	-	-	2,400	-	-	-	-	-	1,900	2,600	2,100	
150	-	-	-	-	-	-	2,200	-	-	-	-	-	2,200	2,100	2,800	
155	-	-	-	-	-	-	-	-	-	-	-	-	1,900	-	2,100	
1)	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2

1) Telescopic mode



Smart Chart

# Operation

## Fully extended – SMART CHART

17,900 lb		23'7-1/2" x 19'8-1/4"				58.7'				360°								
111.2'		125.6'				140.0'				154.3'								
3.5°		25°		45°		3.5°		25°		45°		3.5°		25°		45°		
ft							lb											
35	7,700	7,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	7,700	7,000	-	-	-	-	6,900	6,300	-	-	-	-	6,200	5,900	-	-	-	-
45	7,700	7,000	-	-	-	-	6,900	6,300	-	-	-	-	6,200	5,900	-	-	-	-
50	7,700	7,000	-	-	-	-	6,900	6,300	-	-	-	-	6,200	5,900	-	-	-	5,600
55	7,700	7,000	6,500	6,300	-	-	6,900	6,300	-	-	-	-	6,200	5,900	-	-	-	5,600
60	7,700	7,000	6,500	6,300	-	-	6,900	6,300	-	-	-	-	6,200	5,900	-	-	-	5,600
65	7,700	7,000	6,500	6,300	-	-	6,900	6,300	6,800	6,300	-	-	6,200	5,900	6,000	5,900	-	5,600
70	7,700	7,000	6,500	6,300	5,300	4,800	6,900	6,300	6,600	6,300	-	-	6,200	5,900	6,000	5,900	-	5,600
75	7,700	7,000	6,400	6,300	5,100	4,800	6,900	6,300	6,400	6,200	5,100	4,800	6,200	5,900	6,000	5,900	-	5,600
80	7,700	7,000	6,200	6,100	5,000	4,800	6,900	6,300	6,200	6,000	5,000	4,800	6,200	5,900	6,000	5,900	4,800	4,800
85	7,700	7,000	5,900	5,800	4,800	4,800	6,900	6,300	6,000	5,800	4,900	4,800	6,200	5,900	5,900	5,800	4,800	4,800
90	7,500	7,000	5,700	5,600	4,700	4,700	6,900	5,700	5,800	5,500	4,700	4,700	6,200	5,900	5,800	5,700	4,700	4,700
95	7,000	6,900	5,500	5,400	4,600	4,500	6,500	5,300	5,600	5,200	4,600	4,600	6,100	5,800	5,600	5,400	4,600	4,600
100	6,500	6,700	5,300	5,200	4,500	4,400	6,000	4,800	5,400	4,900	4,500	4,500	5,500	5,300	5,500	5,200	4,500	4,500
105	6,000	6,400	5,100	5,000	4,400	4,300	5,500	4,400	5,200	4,700	4,400	4,300	5,000	4,900	5,300	4,900	4,400	4,400
110	5,600	6,100	4,900	4,900	4,300	4,200	5,000	4,100	5,000	4,300	4,300	4,200	4,600	4,500	5,000	4,700	4,300	4,300
115	5,100	5,800	4,800	4,700	4,200	4,200	4,600	3,700	4,900	4,000	4,200	4,000	4,200	4,200	4,600	4,300	4,200	4,200
120	4,800	5,400	4,700	4,600	4,100	4,100	4,200	3,500	4,500	3,700	4,100	3,800	3,800	3,900	4,200	4,000	4,200	4,000
125	4,200	5,200	4,500	4,500	4,100	4,100	3,900	3,200	4,200	3,400	4,100	3,500	3,500	3,600	3,800	3,700	4,000	3,800
130	3,700	4,900	4,300	4,300	4,100	4,000	3,600	2,900	3,800	3,100	4,000	3,200	3,200	3,300	3,500	3,500	3,700	3,500
135	3,300	4,700	3,800	4,300	-	-	3,200	2,700	3,500	2,800	3,700	3,000	2,900	3,100	3,200	3,200	3,400	3,300
140	2,900	4,300	3,300	4,200	-	-	2,800	2,400	3,200	2,600	3,400	2,700	2,600	2,800	2,900	3,000	3,100	3,000
145	2,500	3,900	2,900	4,100	-	-	2,400	2,200	3,000	2,400	-	-	2,200	2,600	2,600	2,800	2,800	2,800
150	2,100	3,600	2,400	3,800	-	-	2,100	2,100	2,500	2,200	-	-	1,900	2,400	2,400	2,600	2,500	2,600
155	1,800	3,300	-	-	-	-	1,800	1,900	2,100	2,000	-	-	1,600	2,200	2,100	2,400	-	2,400
160	-	3,000	-	-	-	-	1,500	1,700	1,800	1,800	-	-	-	-	1,700	2,200	-	-
1)	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2

1) Telescopic mode



# Notes to Lifting Capacity

## GENERAL

1. RATED LIFTING CAPACITIES apply only to the machine as originally manufactured and normally equipped by Tadano Ltd. Modifications to the machine or use of optional equipment other than that specified can result in a reduction of capacity.
2. Hydraulic cranes can be hazardous if improperly operated or maintained. Operation and maintenance of this machine must be in compliance with information, in the operation and maintenance manual supported with the crane. If this manual is missing, order a replacement through the distributor.
3. The operator and other personnel associated with this machine shall fully acquaint themselves with the latest American National Standards Institute (ANSI) safety standards for cranes.

## SET UP

1. Rated lifting capacities on the chart are the maximum allowable crane capacities and are based on the machine standing level on firm supporting surface under ideal job conditions. Depending on the nature of the supporting surface, it may be necessary to have structural supports under the outrigger floats to spread the loads to a larger bearing surface.
2. For outrigger operation, outriggers shall be properly extended with tires free of supporting surface before operating crane.

## OPERATION

1. Rated lifting capacities have been tested to and meet minimum requirements of SAE J1063-Cantilevered Boom Crane Structures Method of Test.
2. Rated lifting capacities do not exceed 85% of the tipping load on outriggers fully extended as determined by SAE J765-Crane Stability Test Code.  
Rated lifting capacities for partially extended outriggers are determined from the formula, rated lifting capacities = (tipping load - 0.1 × tip reaction) / 1.25.
3. Rated lifting capacities are based on actual load radius increased by boom deflection.
4. The weight of handling device such as hook blocks, slings, etc., must be considered as part of the load and must be deducted from the lifting capacities.
5. Rated lifting capacities are based on freely suspended loads and make no allowance for such factors as the effect of wind, sudden stopping of loads, supporting surface conditions, operating speeds, side loads, etc. Side pull on boom or jib is extremely dangerous. Such action can damage the boom, jib or slewing mechanism, and lead to overturning of the crane.
6. Rated lifting capacities do not account for wind on lifted load or boom. We recommend against working under the condition that the load is out of control due to a strong wind. During boom lift, consider that the rated lifting capacity is reduced by 50% when the wind speed is 20 mph to 27 mph; reduced by 70% when the wind speed is 27 mph to 31 mph. If the wind speed is 31 mph or over, stop operation. During jib lift, stop operation if the wind speed is 20 mph or over.
7. Rated lifting capacities at load radius shall not be exceeded. Do not tip the crane to determine allowable loads.
8. Do not operate at boom lengths, radii, or boom angle, where no capacities are shown. Crane may overturn without any load on the hook.
9. When boom length is between values listed, refer to the rated lifting capacities of the next longer and next shorter booms for the same radius. The lesser of the two rated lifting capacities shall be used.
10. When making lifts at a load radius not shown, use the next longer radius to determine allowable capacity.
11. Load per line should not exceed 15,900 lb for main winch and auxiliary winch.
12. Check the actual number of parts of line with LOAD MOMENT INDICATOR (AML-E2) before operation. Maximum lifting capacity is restricted by the number of parts of line of LOAD MOMENT INDICATOR (AML-E2).  
Limited capacity is as determined from the formula, single line pull for main winch 15,900 lb x number of parts of line.
13. The boom angle before loading should be greater to account for deflection. For rated lifting capacities, the loaded boom angle and the load radius is for reference only. The 41.0' boom length capacities are based on boom fully retracted.
14. The maximum capacity without boom pin (B-pin) is shown in the rated lifting capacity table.
15. The ability to telescope loads is limited by hydraulic pressure, boom angle, boom length, crane maintenance, etc.
16. For lifting capacity of single top, deduct the weight of the load handling equipment from the rated lifting capacity of the boom.  
For the lifting capacity of single top, the net capacity shall not exceed 15,900 lb including the main boom hook mass attached to the boom.
17. When the base jib or top jib or both jibs are dismantled, set the jib state switch to the DISMOUNTED position.
18. When erecting and stowing jib, be sure to retain it by hand or by other means to prevent its free movement.
19. Use "ANTI-TWO BLOCK" disable switch when erecting and stowing jib and when stowing hook block. While the switch is pushed, the hoist does not stop, even when overwind condition occurs.
20. When lifting a load by using jib (aux. winch) and boom (main winch) simultaneously, do the following:
  - Enter the operation status as jib operation, not as boom operation.
  - Before starting operation, make sure that mass of load is within rated lifting capacity for jib.
21. Outriggers shall be extended 23'7-1/2" spread when mounting or dismantling removable counterweight.

## DEFINITIONS

1. Load radius: Horizontal distance from a projection of the axis of rotation to supporting surface before loading to the center of the vertical hoist line or tackle with load applied.
2. Loaded boom angle: The angle between the boom base section and the horizontal, after lifting the rated lifting capacity at the load radius.
3. Working area: Area measured in a circular arc about the centerline of rotation.
4. Freely suspended load: Load hanging free with no direct external force applied except by the hoist line.
5. Side load: Horizontal side force applied to the lifted load either on the ground or in the air.



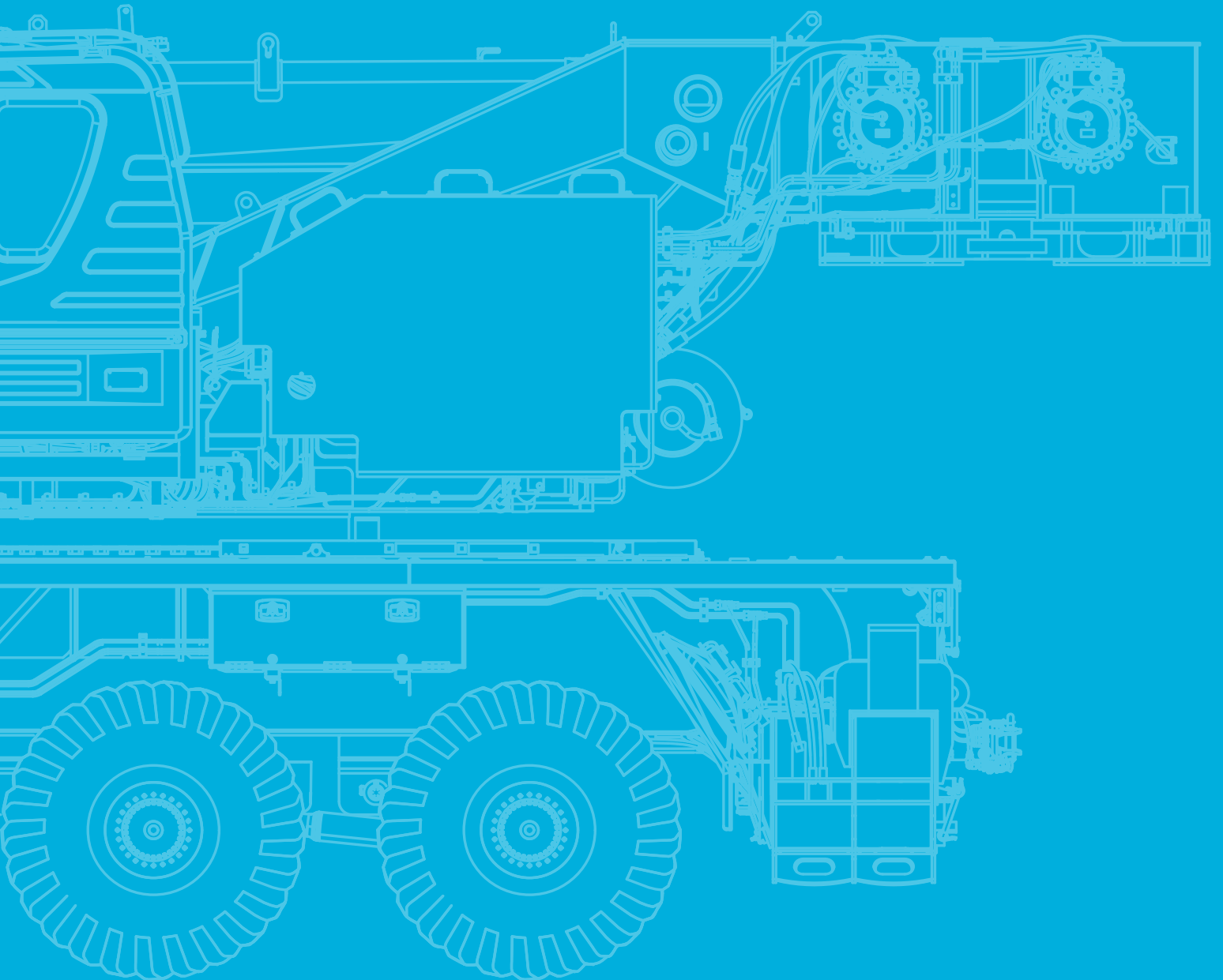
# Warning and Operating Instructions

## Notes for Load Moment Indicator (AML-E2)

1. Set AML select keys in accordance with the actually operating crane conditions and don't fail to make sure, before crane operation, that the displays on front panel are correct.
2. When operating crane:
  - Set starter switch to "ON".
  - Press the outrigger state select key to register for the outrigger operation. If the display agrees with the actual state, press the set key to register. After the completion of the registration, the display returns to the crane operation status.
  - Press the counterweight state select key to register for the counterweight state. If the display agrees with the actual state, press the set key to register. After the completion of the registration, the display returns to the crane operation status.
  - Press the lift state select key to register the lift state to be used (single top/jib/boom).
  - Each time the lift state select key is pressed, the display changes. If the display agrees with the actual state, press the set key to register. After the completion of the registration, the display returns to the crane operation status.
  - When erecting and stowing jib, select the status of jib set (jib state indicative symbol lights up).
3. This machine is equipped with an automatic slewing stopping device (for the details, see operation and maintenance manual). But, operate very carefully because the automatic slewing stop does not work in the following cases.
  - When the "AML OVERRIDE" switch is set to "ON" and the "Override key switch" outside the cab is "ON".
4. During crane operation, make sure that the displays on front panel are in accordance with actual operating conditions.
5. The displayed values of LOAD MOMENT INDICATOR (AML-E2) are based on freely suspended loads and make no allowance for such factors as the effect of wind, sudden stopping of loads, supporting surface conditions, operating speed, side loads, etc. For safe operation, it is recommended when extending and lowering boom or slewing, lifting loads shall be appropriately reduced.
6. LOAD MOMENT INDICATOR (AML-E2) is intended as an aid to the operator. Under no condition should it be relied upon to replace use of capacity charts and operating instruction. Sole reliance upon LOAD MOMENT INDICATOR (AML-E2) aids in place of good operating practice can cause an accident. The operator must exercise caution to assure safety.
7. The lifting capacity differs depending on the outrigger extension width and slewing position. Work with the capacity corresponding to the outrigger extension width and slewing position. For the relationship among the outrigger extension width, slewing position and lifting capacities, refer to the working area charts.



# TECHNICAL DESCRIPTION



# Technical Description

## Crane specifications

<b>Boom</b>	5 section full power synchronized telescoping boom, 39.5'-154.3', of round box construction with 5 sheaves, 17-5/16" root diameter, at boom head. The synchronization system consists of 2 telescope cylinders, an extension cable and retraction cable. Hydraulic cylinder fitted with holding valve. 2 easily removable wire rope guards, rope dead end provided on both sides of boom head. Boom telescope sections are supported by wear pads both vertically and horizontally. Extension speed 114.8' in 142 seconds.
<b>Boom elevation</b>	By a double acting hydraulic cylinder with holding valve. Elevation -1.5° - 80.5°, combination controls for hand or foot operation. Boom angle indicator. Automatic speed reduction and slow stop function. Boom raising speed 20° to 60° in 46 seconds.
<b>Jib</b>	2 stage bi-fold lattice type, 3.5°, 25° or 45° offset (tilt type). Single sheave, 15-5/8" root diameter, at the head of both jib sections. Stored alongside base boom section. Jib length is 33.8' or 58.7'. Assistant cylinders for mounting and stowing, controlled at right side of superstructure. Self stowing jib mounting pins.
<b>Auxiliary lifting sheave (single top)</b>	Single sheave, 15-5/8" root diameter. Mounted to main boom head for single line work (stowable).
<b>Anti-two block</b>	Pendant type over-winding cut out device with audio-visual (FAILURE lamp/BUZZER) warning system.
<b>Slewing</b>	Hydraulic axial piston motor through planetary slewing speed reducer. Continuous 360° full circle slewing on ball bearing turn table at 1.5 min <sup>-1</sup> {rpm}. Equipped with manually locked/released slewing brake. A 360° positive slewing lock for travel modes, manually engaged in cab. Twin slewing system: Free slewing or lock slewing controlled by selector switch on front console.
<b>Winch</b>	<p><b>MAIN WINCH:</b> Variable speed type with grooved drum driven by hydraulic axial piston motor through speed reducer. Power load lowering and raising. Equipped with automatic brake (neutral brake) and counterbalance valve. Controlled independently of auxiliary winch. Equipped with cable follower and drum rotation indicator.</p> <p><b>DRUM:</b> Grooved 15" root diameter x 29-1/4" wide. Wire rope: 892' of 3/4" diameter rope. Drum capacity: 1293' 7 layers. Maximum single line pull: 1st layer 21,800 lb. Maximum permissible line pull wire strength: 15,900 lb.</p> <p><b>AUXILIARY WINCH:</b> Variable speed type with grooved drum driven by hydraulic axial piston motor through speed reducer. Power load lowering and raising. Equipped with automatic brake (neutral brake) and counterbalance valve. Controlled independently of main winch. Equipped with cable follower and drum rotation indicator.</p> <p><b>DRUM:</b> Grooved 15" root diameter x 29-1/4" wide. Wire rope: 482' of 3/4" diameter rope. Drum capacity: 1293' 7 layers. Maximum single line pull: 1st layer 21,800 lb. Maximum permissible line pull wire strength: 15,900 lb.</p> <p><b>WIRE ROPE:</b> Non-rotating 3/4", 7 x 35 class. Breaking strength 79,400 lb.</p>
<b>Hook blocks</b>	<p>100 ton (option) - 7 sheaves with swivel hook and safety latch.</p> <p>55 ton - 3 sheaves with swivel hook and safety latch.</p> <p>22 ton (option) - 1 sheave with swivel hook block and safety latch.</p> <p>7.9 ton - Weighted hook with swivel and safety latch.</p>
<b>Counterweight</b>	<p>Pinned to superstructure frame.</p> <p>Total mass of counterweights: 6,700 lb, 12,400 lb, 17,900 lb.</p> <p>Hydraulically controlled counterweight.</p>
<b>Hydraulic system</b>	<p><b>PUMPS:</b> 2 variable piston pumps for crane functions. Tandem gear pump for slewing and optional equipment. Powered by carrier engine. Pump disconnect for crane is engaged/ disengaged by rocker switch from carrier cab.</p> <p><b>CONTROL VALVES:</b> Multiple valves actuated by pilot pressure with integral pressure relief valves.</p> <p><b>RESERVOIR:</b> 160 gallons capacity. External sight level gauge.</p> <p><b>FILTRATION:</b> BETA10 = 10 return filter, full flow with bypass protection, located inside of hydraulic reservoir. Accessible for easy replacement.</p> <p><b>OIL COOLER:</b> Air cooled fan type.</p>
<b>Cab and controls</b>	<p>Crane operation can be performed from upper cab mounted on rotating superstructure.</p> <p>15° tilt, left side, 1 man type, steel construction with sliding door access and safety glass windows opening at side. Door window is powered control. Windshield glass window and roof glass window are shatter-resistant. Adjustable control lever stands for slewing, boom elevating, boom telescoping, auxiliary winch and main winch. Control lever stands can change neutral positions and tilt for easy access to cab. 3 way adjustable operator's seat with high back, headrest and armrest. Engine throttle knob. Foot operated controls: boom elevating, boom telescoping and engine throttle. Hot water cab heater and air conditioning.</p> <p>Dash-mounted instrument panel, multi function display, starter switch (engine start/stop), 12 V power outlet, USB port, power window switch, slewing brake switch, telescoping/auxiliary winch select switch, free slewing/ lock slewing selector switch, air conditioning control switch.</p>

# Technical Description

## Crane specifications

Tadano electronic LOAD MOMENT INDICATOR system (AML-E2) including:  
 Control lever lockout function with audible and visual pre-warning. Number of parts of line. Boom position indicator. Outrigger state indicator. Slewing angle. Boom angle / boom length / jib offset angle / jib length / load radius / rated lifting capacities / actual loads read out. Potential lifting height. Ratio of actual load moment to rated load moment indication. Automatic speed reduction and slow stop function on boom elevation and slewing. Working condition register switch. Load radius / boom angle / tip height / slewing range preset function. External warning lamp. Tare function. Main hydraulic oil pressure. Fuel consumption monitor. Main winch / auxiliary winch select. Drum rotation indicator (audible and visible type) main and auxiliary winch.

AML-E2 monitors outrigger extended length and automatically programs the corresponding "RATED LIFTING CAPACITIES" table.

Operator's right hand console includes transmission gear selector, slewing lock lever and sight level bubble. Upper console includes, roof washer and wiper switch, emergency outrigger set up key switch, jib equipped / removed select switch, high speed winch (main / aux.) switch, cab tilt switch, pump disconnect enable switch and boom emergency.

*NOTE* : Each crane motion speed is based on unladen conditions.

## Carrier specifications

<b>Type</b>	Left-hand steering, 8 x 4.
<b>Frame</b>	High tensile steel, all welded mono-box construction.
<b>Engine</b>	Model: Cummins X12 (EPA 2021) · Type: Direct injection diesel · No. of cylinders: 6 · Combustion: 4 cycle, turbo charged and after cooled · Bore x stroke: 5.2 in. x 5.67 in. · Displacement: 720 cu. in liters · Air cleaner: Dry type, replaceable element · Oil filter: Full flow with replaceable element · Fuel filter: Full flow with replaceable element · Fuel tank: 100 gallons, right side of carrier · Cooling: Liquid pressurized, recirculating by-pass · Radiator: Fin and tube core, thermostat controlled · Fan: Suction type, 11-blade, 31.97 in. diameter · Starting: 24 volt · Charging: 24 volt system, negative ground · Battery: 2-120 amp. hour · Compressor, air: 25.9 cfm@2,000 rpm · Horsepower: Gross 500 HP (373 kW) · Torque, max.: 1700 ft-lb (2,305 Nm) · Capacity: Cooling water 5.5 gallons, lubrication 11 gallons, fuel 100 gallons, DEF/AdBlue 15.0 gallons.
<b>Transmission</b>	ZF TraXon 12TX 2615 SO - Automated Manual Transimission, electro-pneumatically operated dry-type clutch and automatic gear shifting with 12 forward gears and 2 reverse gears.
<b>Transfer case</b>	Two stage.
<b>Travel speed</b>	65 mph.
<b>Axle</b>	Front: Full floating type, steering axle. Rear: Full floating type, driving axle.
<b>Steering</b>	BOSCH-Servocom, dual circuit hydraulic and mechanical steering of both front axles. Transfer-mounted emergency steering pump.
<b>Suspension</b>	Front: Independent air suspension. Rear: Independent air suspension.
<b>Brake systems</b>	Service: ABS system. Full air brakes on all wheels. Dual air line system. Parking / Emergency : Spring loaded brake on rear 4-wheel controlled by knob of spring brake valve. Auxiliary: Constant throttle system with exhaust flap brake.
<b>Tires</b>	Front: 445/65R22.5 Single x 4 · Rear: 315/80R22.5 Dual x 4.
<b>Outriggers</b>	Four hydraulic, beam and jack outriggers. Hydraulically operated H-type outriggers. Vertical jack cylinders equipped with integral holding valve. Each outrigger beam and jack is controlled independently. Outrigger jack floats are attached thus eliminating the need of manually attaching and detaching them. Controls and sight level bubble located either side of carrier. 4 outrigger extension lengths are provided with corresponding "RATED LIFTING CAPACITIES" for crane duty in confined areas. Min. extension: 7' 7" center to center Mid. extension: 15' 11 3/8" center to center Max. extension: 23' 7-1/2" center to center      Float size (diameter): 21 3/8" x 21 3/8"
<b>Front jack</b>	A fifth hydraulically operated outrigger jack. Mounted to the front frame of carrier. Hydraulic cylinder equipped with integral holding valve and steel float.
<b>Carrier cab</b>	Two man full width cab of composite (steel sheet metal and fiber-glass) structure, with safety glass, air-cushioned seats, driver's seat offering various adjustment options, with memory function, engine dependent water heater, air conditioning, multifunction display and cruise control.

# Technical Description

## Standard equipment

### FOR SUPERSTRUCTURE:

<b>5 section full power synchronized telescoping boom</b>	39.5' - 154.3'
<b>5 section boom, single cylinder telescoping with pinning system</b>	41' - 167.3'
<b>Bi-fold lattice jib</b>	Tilt type, 33.8' or 58.7' quick reeving type with 3.5°, 25° or 45° pinned offsets and self storing pins.
<b>Auxiliary lifting sheave</b>	Single top - stowable.
<b>Hook block</b>	55 ton, 3 sheaves with swivel hook block and safety latch for 3/4" wire rope.
<b>Hook ball</b>	7.9 ton, with swivel.
<b>Variable speed main hoist</b>	With grooved drum, cable follower and 892' of 3/4" cable.
<b>Variable speed auxiliary hoist</b>	With grooved drum, cable follower and 482' of 3/4" cable.
<b>2-speed winch</b>	
<b>Tadano electronic load moment indicator system (AML-E2)</b>	
<b>Self-removable counterweight</b>	Total 17,900 lb.
<b>Independently controlled outriggers</b>	
<b>Three outrigger extension positions</b>	Min / mid / max.
<b>Outrigger extension length detectors</b>	
<b>Front jack</b>	Fifth jack.
<b>Trailer coupling device</b>	
<b>Hydraulic circuit for dolly</b>	Elevation, swing and swing brake.
<b>Smart Chart</b>	
<b>Drum rotation indicator</b>	Audible, visible and thumper type - main and auxiliary hoist.
<b>Anti-Two block device</b>	Overwind cutout.
<b>Winch over-unwinding prevention</b>	
<b>Telematics</b>	Machine data logging and monitoring system) with HELLO-NET via internet.
<b>Hydraulic oil cooler</b>	
<b>Weighted hook storage compartment</b>	
<b>Tadano twin slewing system and 360° positive slewing lock</b>	
<b>LED work lights</b>	
<b>Positive control</b>	
<b>Eco mode system</b>	
<b>Winch drum cameras</b>	
<b>Boom angle indicator</b>	
<b>15° tilt cab</b>	
<b>Self centering finger control levers</b>	With pilot control.
<b>Control pedals</b>	For boom elevating and boom telescoping.
<b>3 way adjustable cloth seat</b>	With armrests and high back.
<b>Hot water cab heater and air conditioner</b>	
<b>Tinted safety glass and sun visor</b>	
<b>Front windshield wiper and washer</b>	
<b>Roof window wiper and washer</b>	
<b>Power window</b>	Cab door.
<b>12 V power outlet</b>	
<b>USB port</b>	Power supply.

# Technical Description

## Standard equipment

### FOR CARRIER:

<b>Engine</b>	Cummins X12 (EPA 2021), direct injection diesel engine.
<b>Transmission</b>	ZF TraXon 12TX 2615 SO – Automatic manual transmission with electro-pneumatically operated dry-type clutch and automatic gear shifting with 12 forward gears and 2 reverse gears.
<b>Transfer case</b>	ZF TC27L, 2 stage.
<b>Hendrickson independent air suspensions</b>	
<b>Drive</b>	8 x 4.
<b>Inter wheel differential lock</b>	On axles 3 and 4.
<b>Aluminum disc wheels</b>	
<b>Tires</b>	Front: 445/65R22.5 Single x 4. Rear: 315/80R22.5 Dual x 4.
<b>Air disc brakes</b>	
<b>Anti-lock braking system (ABS)</b>	Engine compression brake.
<b>BOSCH-Servocom</b>	Dual circuit hydraulic and mechanical steering system with emergency steering pump multi function display.
<b>Fuel tank</b>	100 gallons.
<b>AdBlue tank</b>	15 gallons.
<b>Hook block tie down</b>	Front bumper.
<b>Towing hooks</b>	Front and rear.
<b>Carrier mounted storage box</b>	
<b>Aluminum fenders</b>	
<b>Air dryer</b>	
<b>Water separator with filter</b>	High filtration.
<b>Battery disconnect switch</b>	
<b>Backup camera</b>	
<b>Beacon lamp</b>	
<b>Resin full cab</b>	
<b>3 way adjustable air-cushioned seat</b>	
<b>Tilt telescoping steering wheel</b>	
<b>Hourmeter</b>	Operation from the carrier and superstructure.
<b>Air conditioning</b>	
<b>USB port</b>	Power supply.
<b>Cruise control</b>	
<b>Anemometer</b>	
<b>Clearance sonar</b>	Rear side.
<b>Tire inflation kit</b>	

## Optional equipment

### FOR SUPERSTRUCTURE:

<b>Hook block</b>	100 ton, 7 sheaves with swivel hook block and safety latch for 3/4" wire rope. 22 ton, 1 sheave with swivel hook block and safety latch for 3/4" wire rope.
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Lifting your dreams

