TADANO

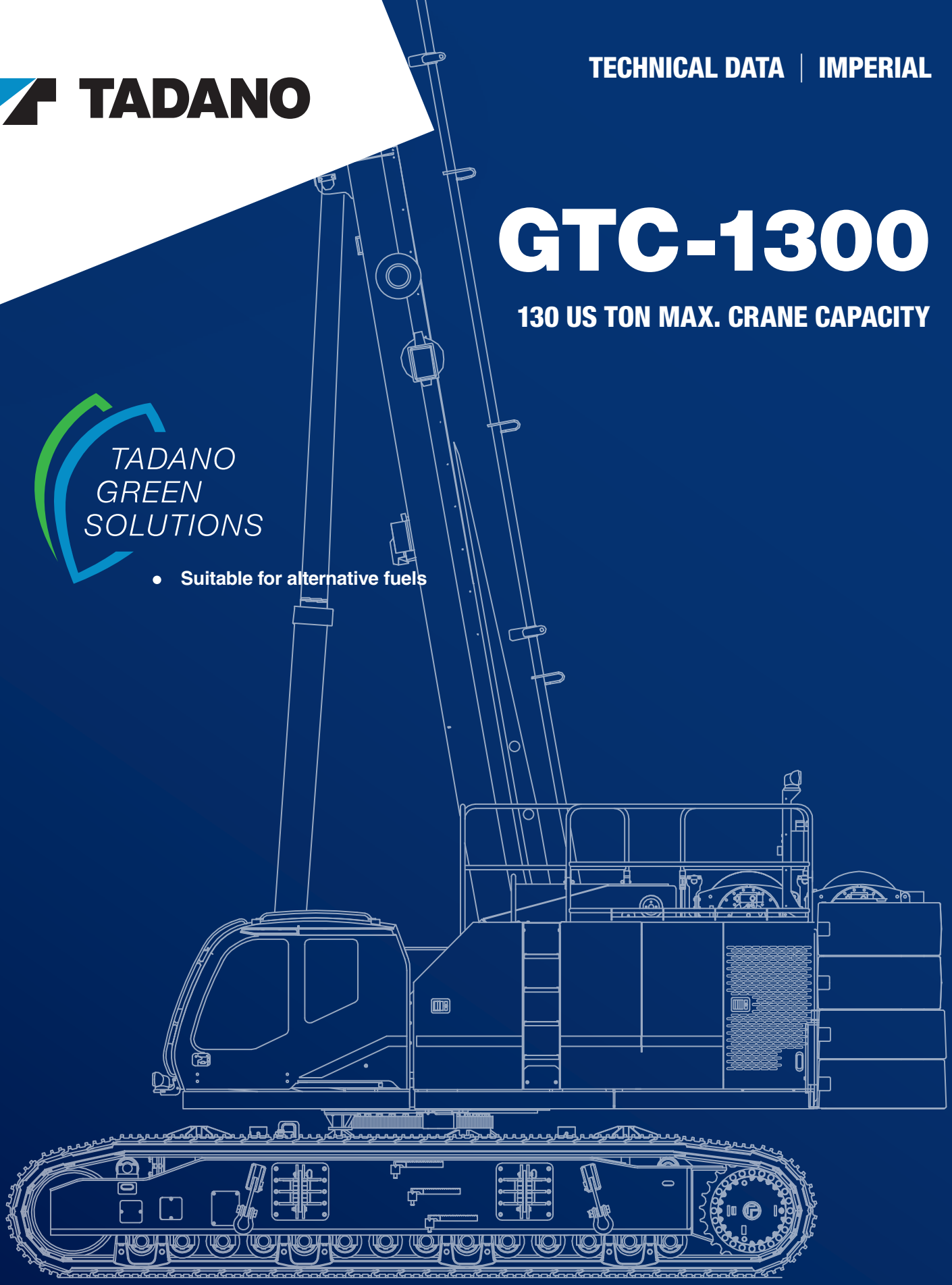
TECHNICAL DATA | IMPERIAL

GTC-1300

130 US TON MAX. CRANE CAPACITY

TADANO GREEN SOLUTIONS

- Suitable for alternative fuels



TADANO

January 2025. 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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Contents

Specifications 7

Vehicle dimensions 8-9
General dimensions 9

Transportation 11

Transport dimensions 12
Transport plan 13
Transport dimensions 14-16
Machine weights 17

Operation 19

Speeds and gradeability 20
Main winch and auxiliary winch performance 20
Hook blocks 21
MB: Main boom 22-30
HLJ: Heavy lift jib 32-33
FJ: Folding swing-away jib 34-38
WP: Work platform 40-41
Notes to Lifting Capacity 42

Technical Description 43

Crane specifications 44-45
Optional equipment 45

Key

Counterweight

Radius

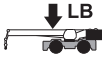
Main boom

Folding swing-away jib

Carbody counterweight

Overall width

Roll / list angle



Total weight

Hook block

Overhaul ball

Travel speed

Gradeability

Working speeds

Jib offset angle

Max. line pull

Rope length

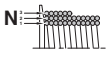
Rope

Hook block

Number of lines

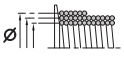
Assembly weight

Transport variant



Wire rope layer

Total wire rope



Winch layer diameter

Wind speed in mph

Highlights

155‘ full power 5-Stage boom; 12.8’ to 105’ jib (tiltable from 0° to 40°)

Lifting capacities up to 4° out of level with full pick and carry.

Jib capacities to 1.5° or 2.5° out of level depending on jib length.

Dual hook operation with auxiliary nose sheave or jib

Powerful winches with 0.875“ rope (23,560 lb pull / 293 ft/min speed)

Tool-free self-rigging operation

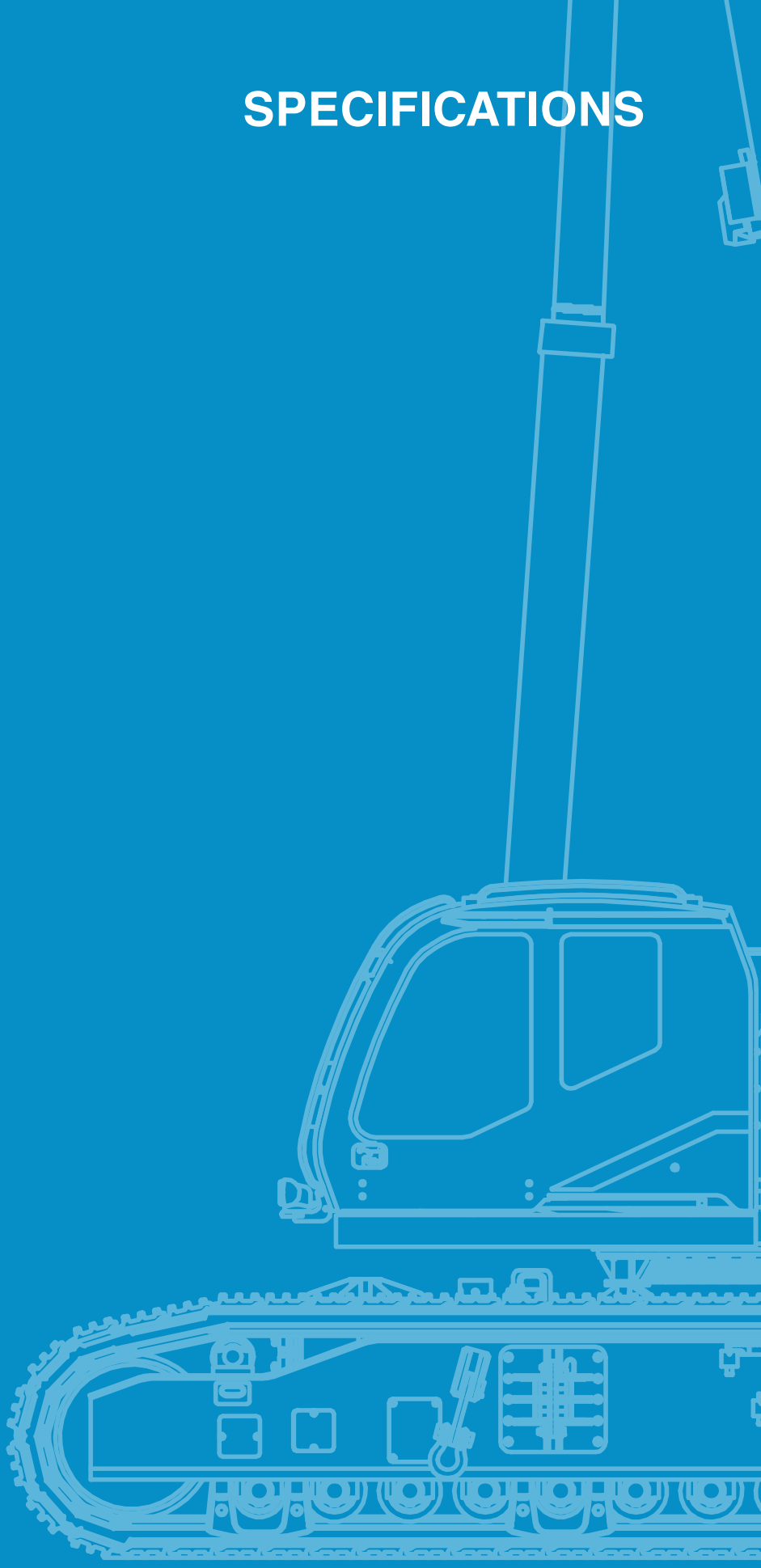
Remote control for all rigging operations standard

Full crane operation remote optional

Best in class gradeability at 70%

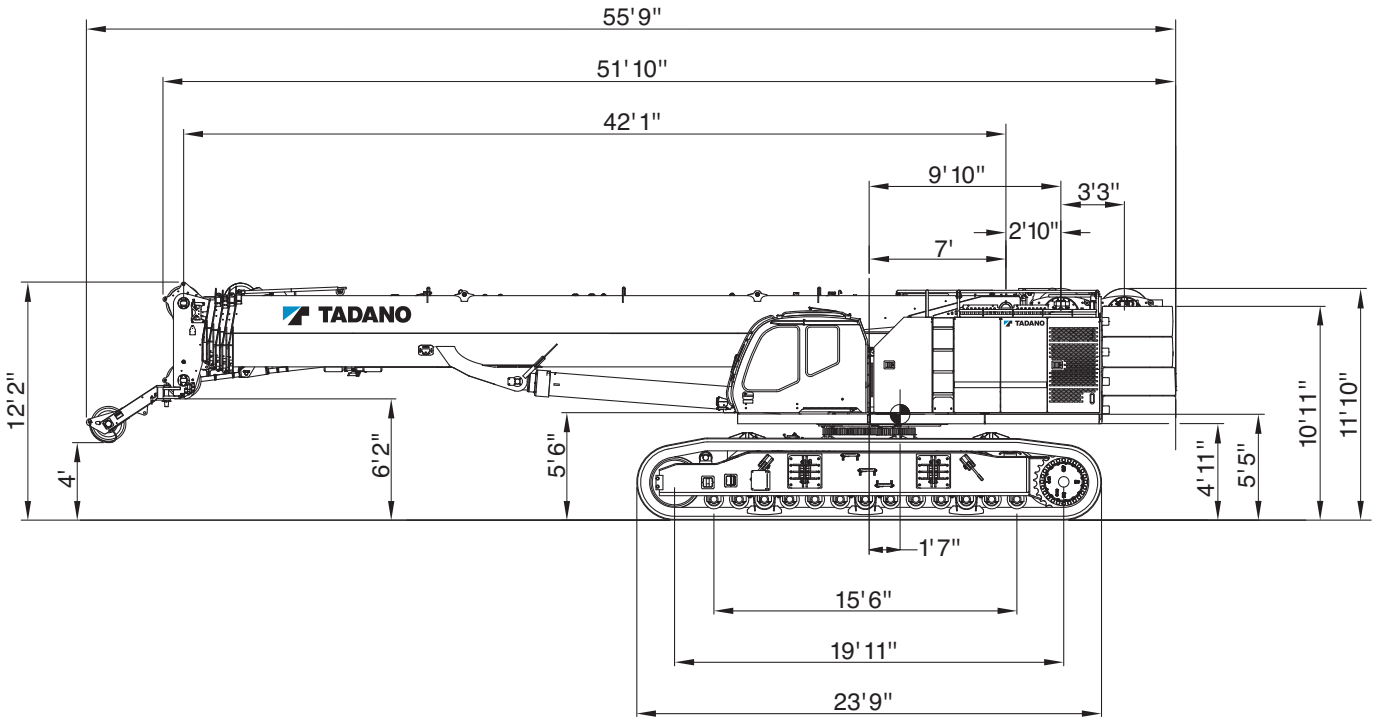
Notes

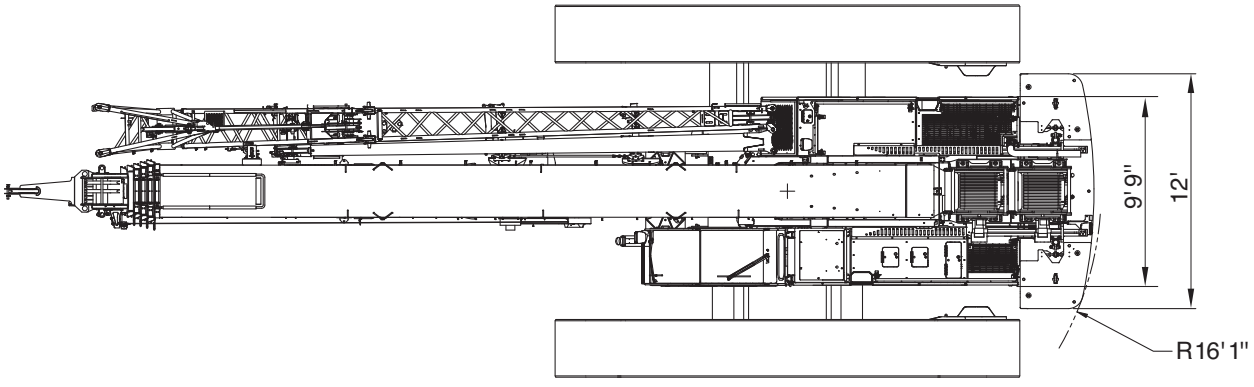
SPECIFICATIONS



Specifications

Vehicle dimensions

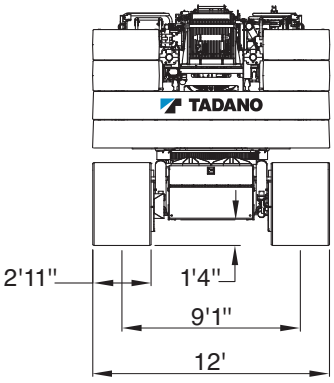




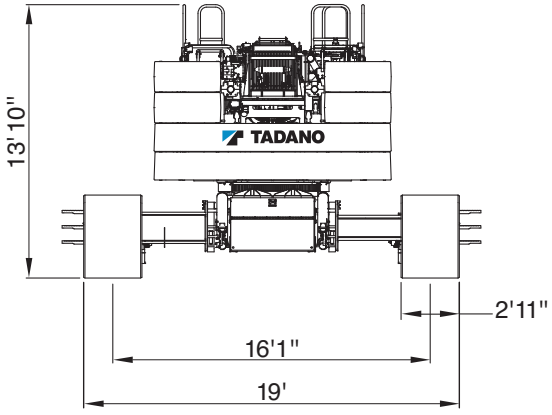
Specifications

Vehicle dimensions

Tracks retracted



Tracks extended

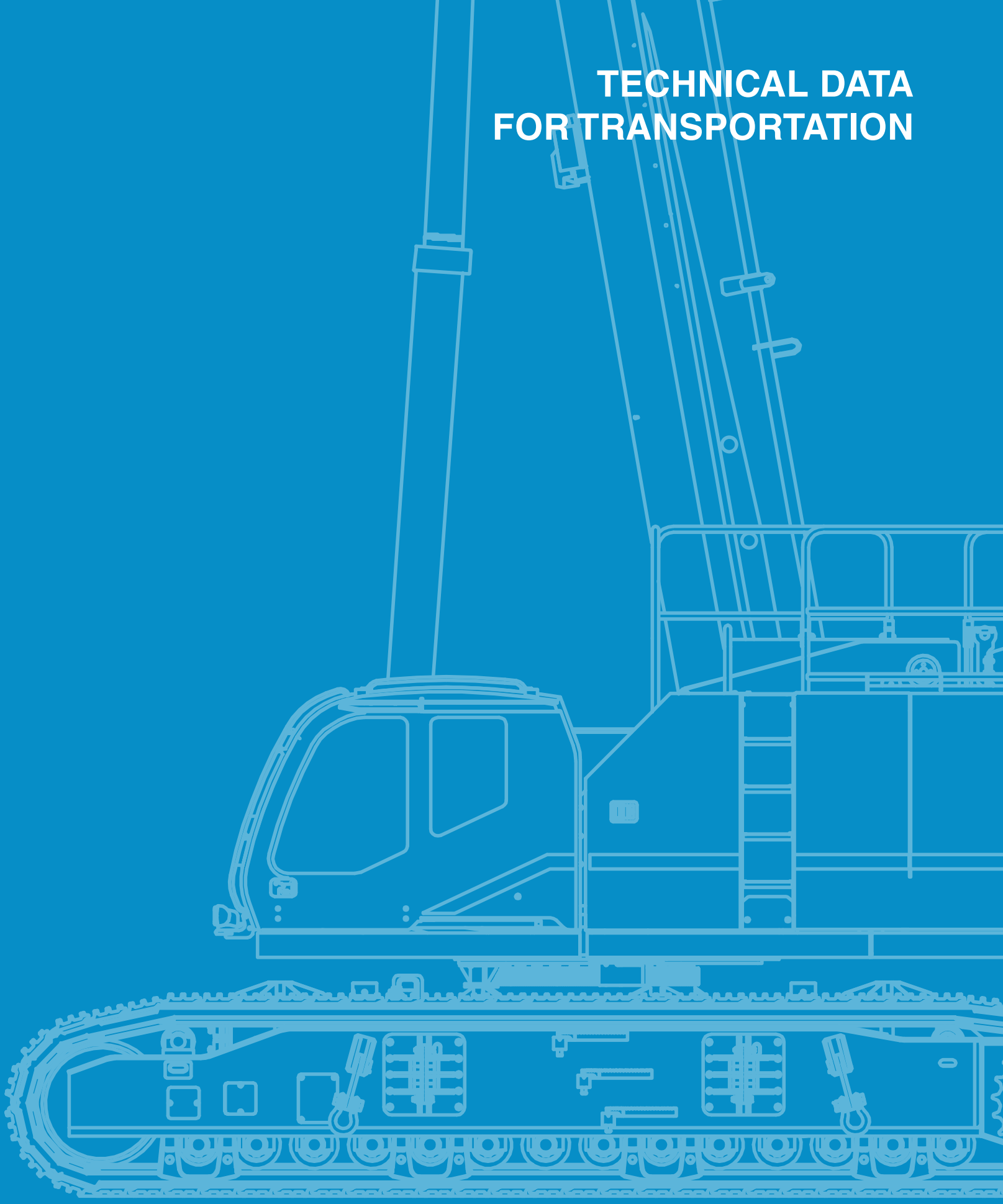


General dimensions

Overall length	51’ 10”
Overall width (tracks extended)	19’
Overall width (tracks retracted)	12’ 0”
Overall width (tracks removed)	9’ 9”
Overall height (working)	13’ 10”

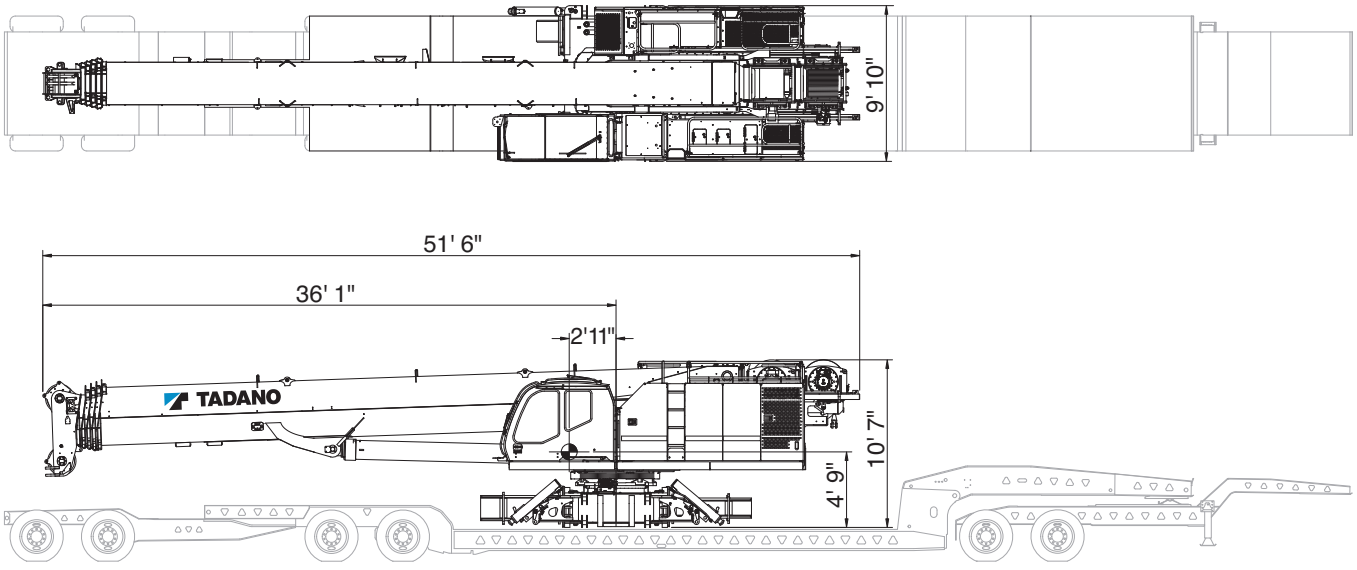
Notes

TECHNICAL DATA FOR TRANSPORTATION



Transportation

Transport dimensions



Transportation

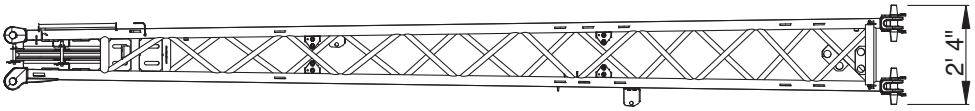
Transport plan

	lb	Dimensions L x W x H	1	2	3	4	5
Crane transporter (with 2 winches, boom, wire rope)	106,726	51‘ 8“ x 9‘ 10“ x 10‘ 7“	X				
Left track frame	30,300	23‘ 9“ x 3‘ 10“ x 4‘ 2“		X			
Right track frame	30,300	23‘ 9“ x 3‘ 10“ x 4‘ 2“			X		
Counterweight A	23,350	4‘ 2“ x 12‘ 0“ x 3‘ 11“				X	
Counterweight B - 1 piece	23,350	4‘ 1“ x 12‘ 0“ x 1‘ 6“					X
Counterweight C - 1 piece	5,825	3‘ 5“ x 3‘ 8“ x 1‘ 6“					X
Counterweight C - 1 piece	5,825	3‘ 5“ x 3‘ 8“ x 1‘ 6“					X
Counterweight C - 1 piece	5,825	3‘ 5“ x 3‘ 8“ x 1‘ 6“				X	
Counterweight C - 1 piece	5,825	3‘ 5“ x 3‘ 8“ x 1‘ 6“				X	
Counterweight - Carbody - 1 piece	10,000	3‘ 1“ x 4‘ 3“ x 2‘ 10“		X			
Counterweight - Carbody - 1 piece	10,000	3‘ 1“ x 4‘ 3“ x 2‘ 10“			X		
Heavy lift jib	2,300	14‘ 5“ x 2‘ 9“ x 5‘ 0“				X	
Jib base section	1,003	21‘ 0“ x 2‘ 4“ x 3‘ 5“				X	
Jib point	1,000	25‘ 7“ x 1‘ 6“ x 2‘ 3“				X	
Jib insert	1,053	23‘ 5“ x 2‘ 2“ x 3‘ 4“					X
Jib insert	1,053	23‘ 5“ x 2‘ 2“ x 3‘ 4“					X
Auxiliary nose sheave	298	4‘ 1“ x 2‘ 1“ x 2‘ 11“				X	
Hook block - 130 ton	2,257	5‘ 8“ x 1‘ 11“ x 1‘ 11“		X			
Overhaul ball - 13 ton	440	2‘ 8“ x 1‘ 0“ x 1‘ 0“			X		
Miscellaneous items (crate)	500	4‘ 0“ x 3‘ 0“ x 3‘ 0“				X	
Total net weight on trailer (lb)			**106,726**	**42,557**	**40,740**	**40,101**	**37,106**

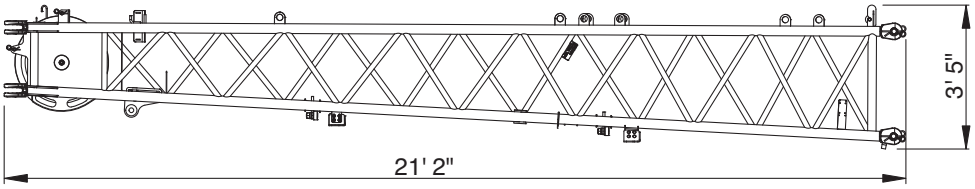
Transportation

Transport dimensions

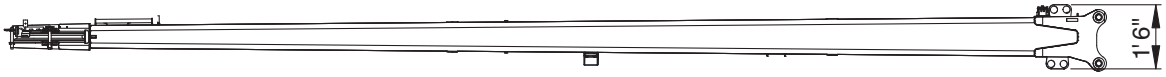
Main jib



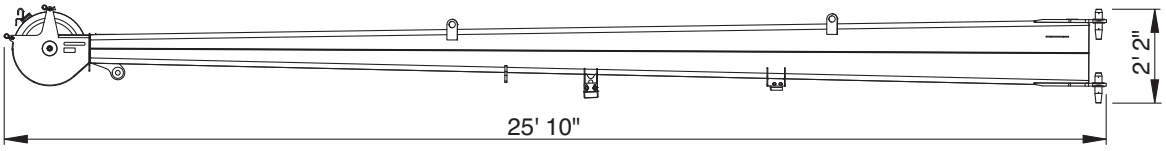
lb
1,003



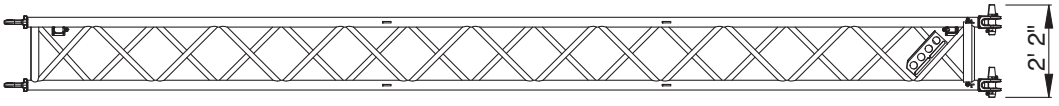
Fly jib



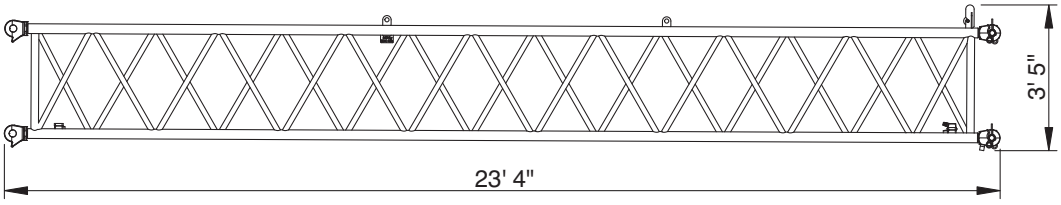
lb
1,000



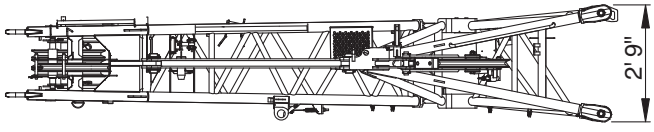
Lattice jib insert



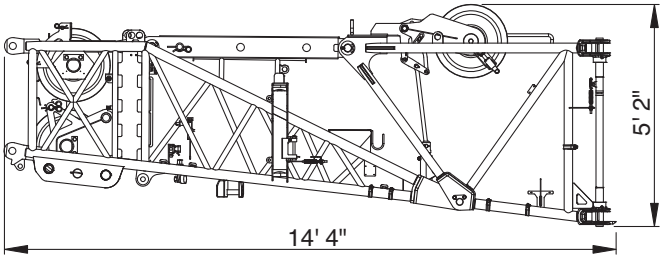
lb
1,053



Heavy lift jib



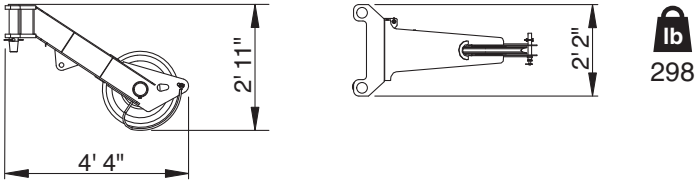
lb
2,300



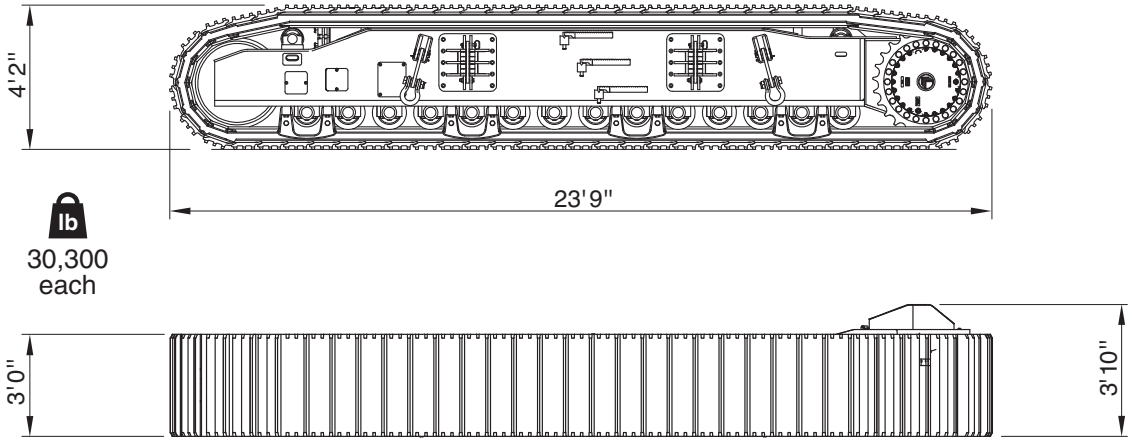
Transportation

Transport dimensions

Auxiliary nose sheave



Track frame assembly

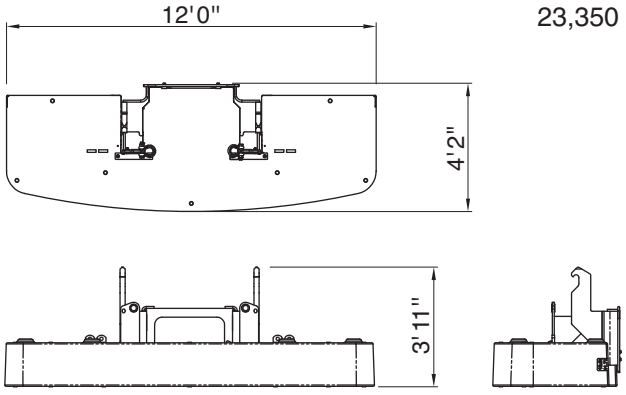


Transportation

Transport dimensions

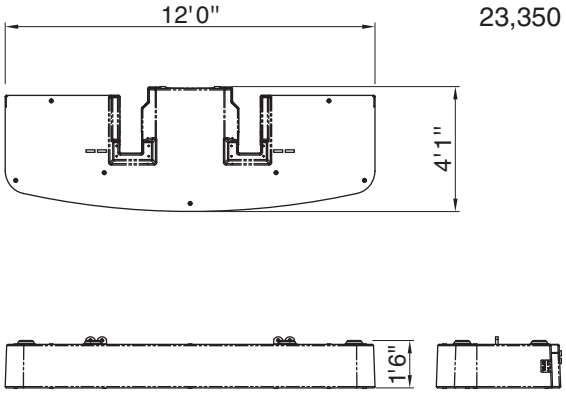
Configuration A

lb 23,350



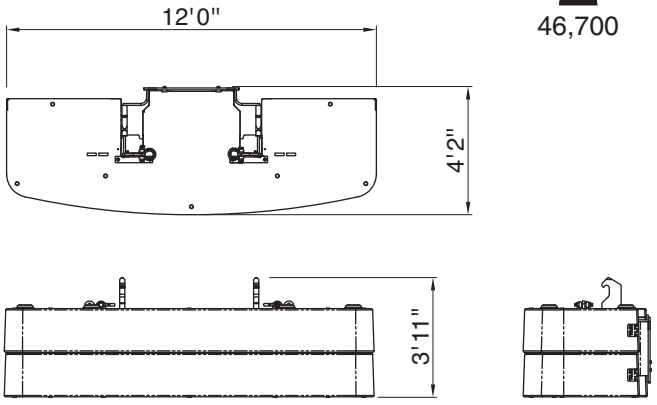
Configuration segement B

lb 23,350



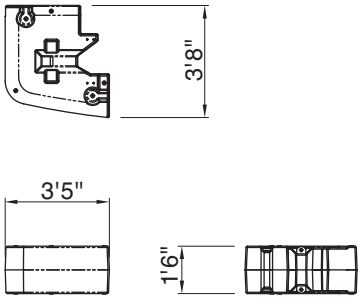
Configuration B

lb 46,700



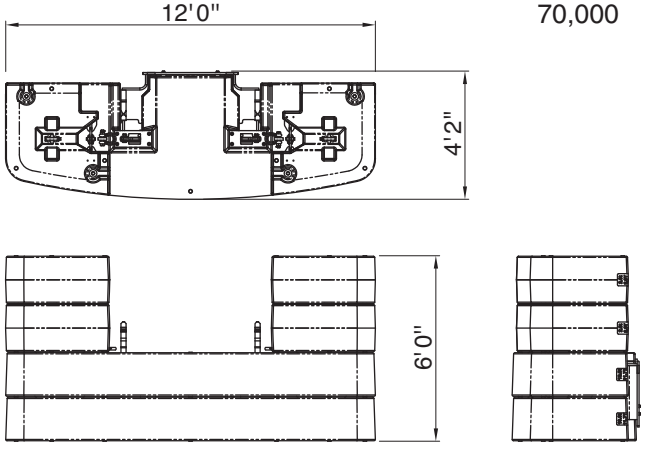
Configuration segement C

lb 5,825



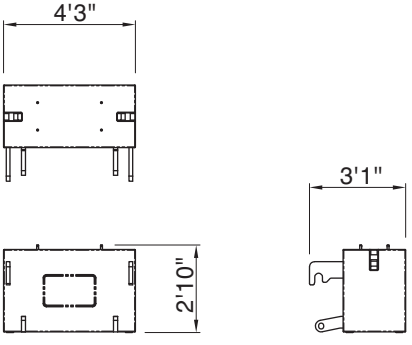
Configuration C

lb 70,000

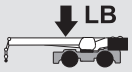
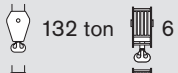
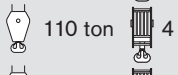
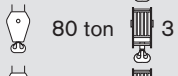
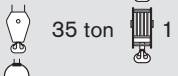


Carbody counterweight – 2 pieces

lb 10,000

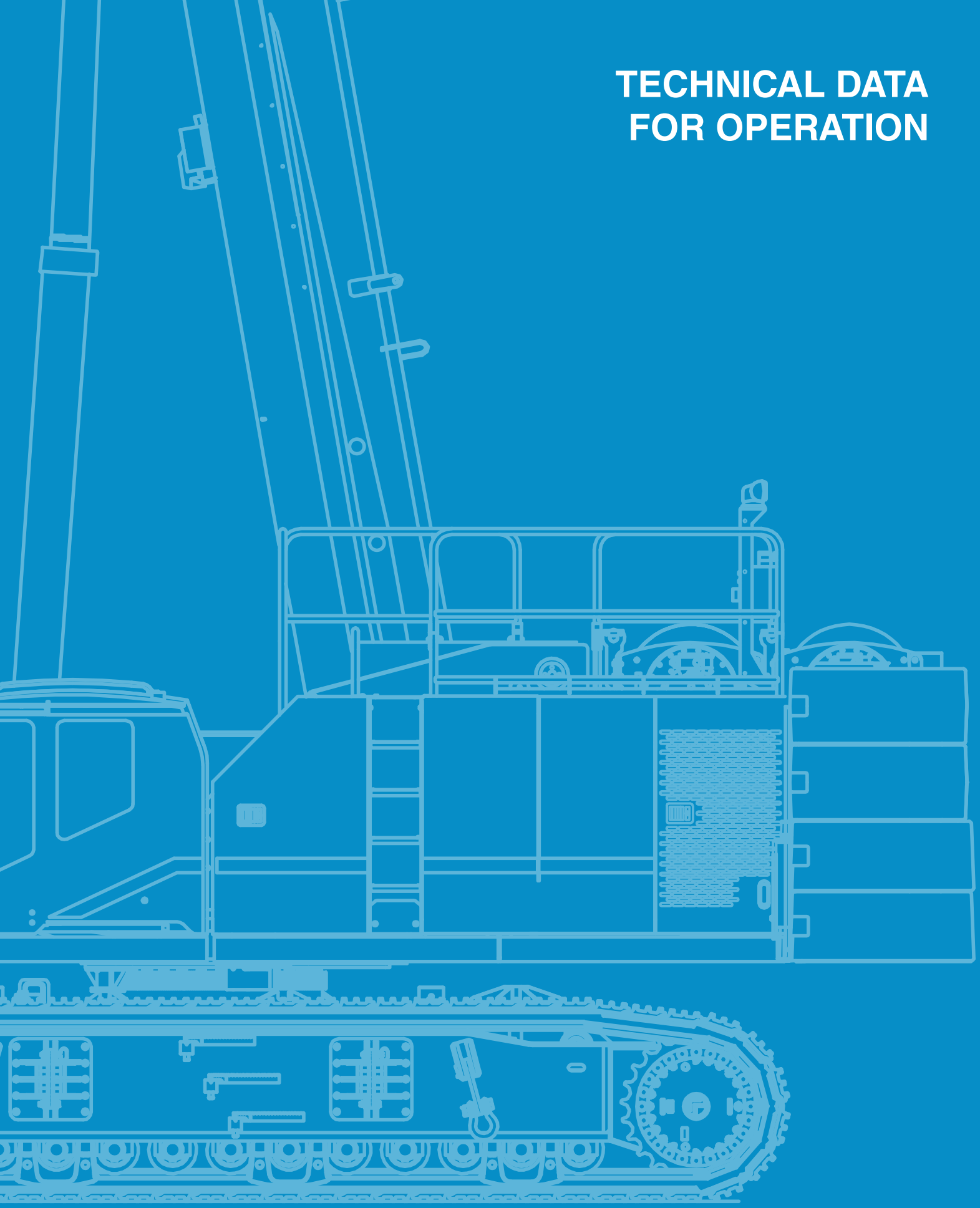


Transportation

Machine weights	
 Standard equipment package	264,296 lb
Upper	70,000 lb
Carbody	20,000 lb
Standard Crane with 5 section – 155 ft boom, full counterweight, auxiliary winch with wire rope and 36 inch 3-bar semi grouser track shoes	259,993 lb
Standard Crane with 5 section – 155 ft boom, auxiliary winch with wire rope (counterweight and track frames removed)	106,466 lb
Standard Crane with auxiliary winch with wire rope (155 ft boom, boom hoist cylinder, counterweight and track frames removed)	70,666 lb
Optional Equipment	
Heavy lift jib: 12.5 ft	2,300 lb
Main jib: 33.5 ft	3,303 lb
Full jib: 59.1 ft	4,303 lb
Lattice jib insert, 2 pieces: 23.4 ft each	2,106 lb
Auxiliary nose sheave	298 lb
 132 ton 6	2,300 lb
 110 ton 4	2,275 lb
 80 ton 3	1,480 lb
 35 ton 1	939 lb
13.7 ton	440 lb

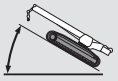
Notes

TECHNICAL DATA FOR OPERATION



Operation

Speeds and gradeability

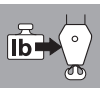
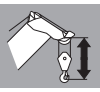
	0.5 mph / 1.4 mph		70 %

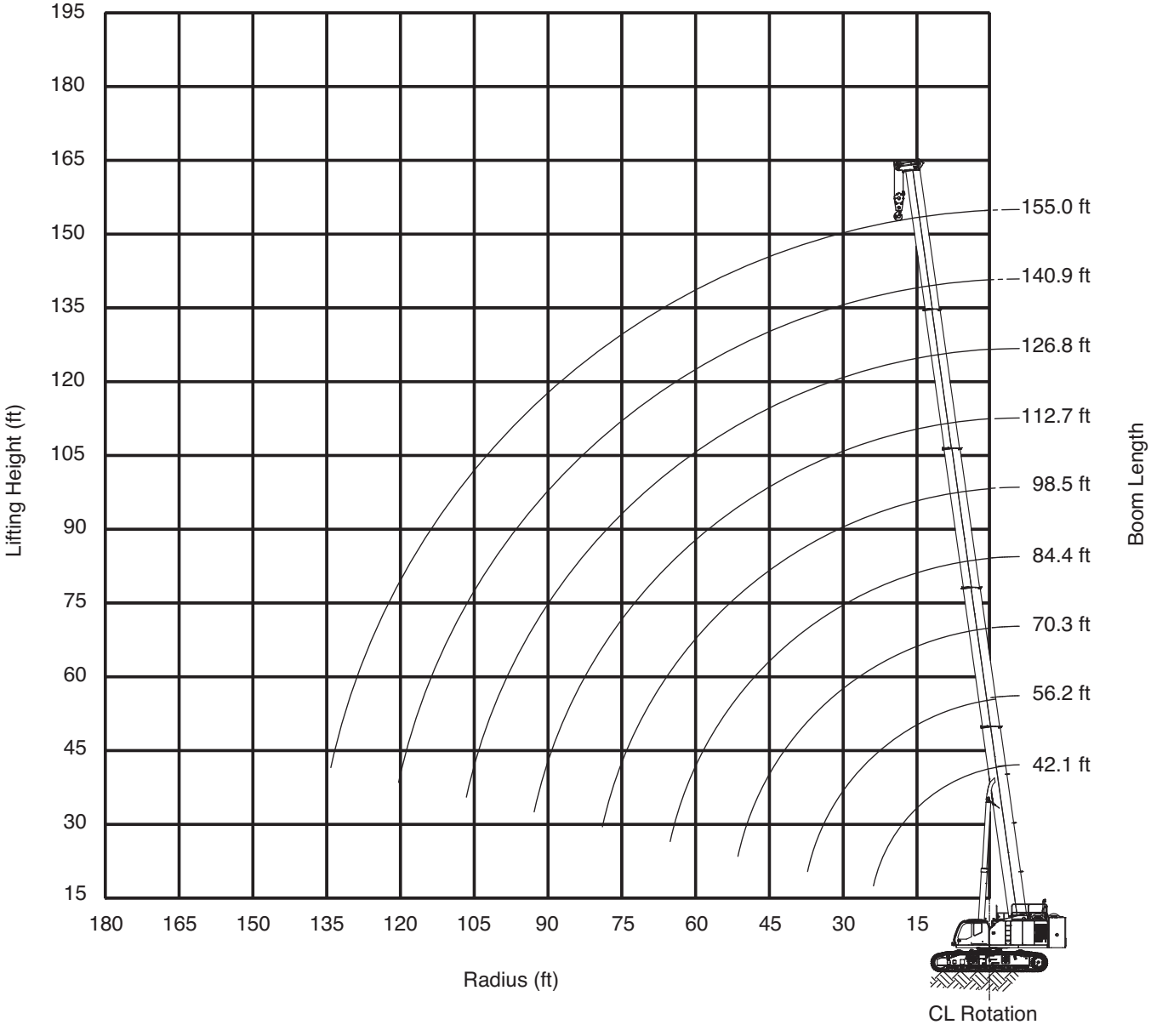
Main winch and auxiliary winch performance

N	lb	high	normal	ø		Σ
1	23,560 lb	220.1 ft/min.	130.9 ft/min.	18.9 in.	123.3 ft	123.3 ft
2	21,501 lb	238.5 ft/min.	141.7 ft/min.	20.4 in.	133.8 ft	257.1 ft
3	19,759 lb	256.8 ft/min.	152.8 ft/min.	22.0 in.	143.9 ft	401.0 ft
4	18,282 lb	274.9 ft/min.	163.7 ft/min.	23.6 in.	154.2 ft	555.2 ft
5	17,002 lb	293.2 ft/min.	174.5 ft/min.	25.1 in.	164.4 ft	719.6 ft
6	15,894 lb	311.6 ft/min.	185.3 ft/min.	26.7 in.	174.6 ft	894.2 ft

Wire Rope: 22 mm diameter rotation resistant. Line pulls are not based on wire rope strength.

Operation

Hook blocks					
					
1	22,880	13.7-0-22	6	435	8.5 ft
2	45,760	35-1-22	6	939	9.75 ft
3	68,640	35-1-22	6	939	9.75 ft
4	91,520	80-3-22	6	1,480	9.75 ft
5	114,400	80-3-22	6	1,480	9.75 ft
6	137,280	80-3-22	6	1,480	9.75 ft
7	160,160	110-4-22	6	2,275	10.2 ft
8	183,040	110-4-22	6	2,275	10.2 ft
9	205,920	110-4-22	6	2,275	10.2 ft
10	228,800	132-6-22	6	2,300	10.3 ft
11	251,680	132-6-22	6	2,300	10.3 ft
12	274,560	132-6-22	6	2,300	10.3 ft


195
180
165
150
135
120
105
90
75
60
45
30
15
Lifting Height (ft)
180 165 150 135 120 105 90 75 60 45 30 15
Radius (ft)
155.0 ft
140.9 ft
126.8 ft
112.7 ft
98.5 ft
84.4 ft
70.3 ft
56.2 ft
42.1 ft
Boom Length
CL Rotation

Operation

MB

70,000 lb + 10,000 lb | 19'1" | 20 mph | 360° | ASME B30.5

	42.1 ft				56.2 ft				70.3 ft				
	0.5°	1.5°	2.5°	4°	0.5°	1.5°	2.5°	4°	0.5°	1.5°	2.5°	4°	
ft	1,000 lb												ft
10	264.6	264.6	264.6	264.6	168.7	168.7	168.7	168.7	163.3	163.3	155.5	143.5	10
12	241.2	241.2	241.2	239.8	168.7	168.7	168.7	168.7	149.9	149.9	146.3	135.8	12
15	211.1	211.1	211.1	187.9	168.7	168.7	168.7	168.7	145.2	139.1	132.9	124.6	15
20	164.4	164.4	164.4	135.5	164.2	164.2	154.9	136.1	124.3	119.1	114.7	108.8	20
25	127.8	123.4	117.4	104.3	127.7	119.5	111.6	101.1	107.6	104.1	100.9	94.6	25
30	97.2	93.7	90.4	83.5	96.1	90.8	86.0	79.4	94.8	88.4	82.6	74.8	30
35	76.8	75.3	73.8	-	75.6	72.2	69.1	64.7	74.7	70.4	66.4	61.0	35
40	-	-	-	-	61.6	59.3	57.2	54.2	60.8	57.8	55.0	51.0	40
45	-	-	-	-	51.4	49.9	48.5	46.5	50.6	48.4	46.4	43.4	45
50	-	-	-	-	-	-	-	-	42.9	41.3	39.7	37.5	50
55	-	-	-	-	-	-	-	-	36.9	35.7	34.5	32.9	55
60	-	-	-	-	-	-	-	-	32.0	31.2	30.4	29.2	60

	84.4 ft				98.5 ft				112.7 ft				
	0.5°	1.5°	2.5°	4°	0.5°	1.5°	2.5°	4°	0.5°	1.5°	2.5°	4°	
ft	1,000 lb												ft
12	126.1	126.1	117.0	106.2	-	-	-	-	-	-	-	-	12
15	124.5	115.2	107.6	98.4	96.9	96.8	89.5	52.7	-	-	-	-	15
20	106.2	99.6	94.0	87.0	92.1	85.1	79.5	52.7	65.2	65.2	65.2	43.9	20
25	91.9	87.1	82.9	77.5	80.5	75.2	70.8	52.7	65.2	65.2	62.1	43.9	25
30	80.4	76.8	73.7	67.6	70.9	66.9	63.4	52.7	64.6	60.3	56.6	43.9	30
35	70.7	65.6	61.0	58.3	62.9	59.8	57.0	52.6	57.8	54.4	51.4	43.9	35
40	58.8	57.2	55.4	50.8	56.2	52.7	48.9	43.9	52.1	49.3	46.9	43.8	40
45	52.3	49.5	47.0	43.4	46.9	43.8	42.4	40.6	47.0	44.8	41.8	37.4	45
50	44.6	42.5	40.5	37.7	40.9	39.8	38.8	37.4	41.1	38.3	35.7	32.3	50
55	38.5	36.8	35.3	33.1	37.2	36.4	35.5	33.0	35.1	32.9	31.3	30.0	55
60	33.5	32.2	31.0	29.2	34.1	32.9	31.4	29.2	30.3	29.5	28.7	27.7	60
65	29.5	28.5	27.5	26.1	30.4	29.1	27.9	26.1	27.8	27.2	26.5	25.6	65
70	26.1	25.3	24.6	23.5	27.0	25.9	24.9	23.5	25.7	25.1	24.6	23.7	70
75	23.3	22.7	22.2	-	24.1	23.3	22.4	21.2	23.7	23.3	22.8	21.4	75
80	-	-	-	-	21.7	21.0	20.3	19.3	22.1	21.6	20.7	19.4	80
85	-	-	-	-	19.5	19.0	18.5	17.7	20.3	19.5	18.8	17.7	85
90	-	-	-	-	17.8	17.4	17.0	16.4	18.4	17.7	17.1	16.2	90
95	-	-	-	-	-	-	-	-	16.7	16.2	15.7	14.9	95
100	-	-	-	-	-	-	-	-	15.3	14.8	14.4	13.8	100
105	-	-	-	-	-	-	-	-	14.0	13.7	13.4	13.0	105

70,000 lb + 10,000 lb					19'1"				20 mph				360°	ASME B30.5
	126.8 ft				140.9 ft				155.0 ft					
	0.5°	1.5°	2.5°	4°	0.5°	1.5°	2.5°	4°	0.5°	1.5°	2.5°	4°		
ft	1,000 lb													ft
20	51.5	51.5	47.7	36.6	-	-	-	-	-	-	-	-		20
25	64.1	59.0	54.7	36.6	49.5	49.5	47.3	28.4	-	-	-	-		25
30	58.6	54.0	50.3	36.6	49.5	48.0	44.5	28.4	39.0	39.0	36.9	24.9		30
35	53.1	49.3	46.3	36.6	48.3	44.6	41.5	28.4	39.0	37.8	35.2	24.9		35
40	48.2	45.2	42.6	36.6	44.5	41.2	38.6	28.4	38.6	35.7	33.5	24.9		40
45	44.0	41.5	39.4	36.6	40.9	38.2	35.9	28.4	36.2	33.7	31.7	24.9		45
50	40.2	38.1	36.1	32.3	37.6	35.3	33.4	28.4	33.9	31.8	30.1	24.9		50
55	36.2	33.6	31.3	28.2	34.8	32.8	31.2	28.2	31.9	30.0	28.2	24.9		55
60	31.3	29.2	27.3	24.9	32.0	29.8	27.7	25.7	29.8	28.0	26.5	24.6		60
65	27.3	25.6	24.0	23.0	28.1	26.6	25.6	24.0	27.4	26.2	24.9	22.4		65
70	23.9	22.8	22.2	21.3	26.0	25.0	23.6	21.5	25.1	23.9	22.3	20.0		70
75	21.7	21.1	20.6	19.9	23.8	22.5	21.1	19.3	22.8	21.3	19.9	17.9		75
80	20.1	19.6	19.2	18.6	21.4	20.2	19.0	17.5	20.4	19.0	17.8	16.1		80
85	18.7	18.3	17.9	17.4	19.2	18.2	17.2	15.8	18.2	17.0	16.0	14.4		85
90	17.4	17.1	16.8	16.2	17.3	16.4	15.5	14.3	16.3	15.3	14.4	13.0		90
95	16.3	16.0	15.7	14.9	15.6	14.8	14.1	13.0	14.6	13.7	12.9	11.7		95
100	15.2	15.0	14.5	13.7	14.1	13.4	12.8	11.8	13.1	12.3	11.6	10.5		100
105	14.3	13.8	13.4	12.7	12.8	12.2	11.6	10.8	11.8	11.1	10.4	9.5		105
110	13.2	12.7	12.3	11.8	11.6	11.1	10.6	9.8	10.6	9.9	9.3	8.5		110
115	12.1	11.8	11.5	11.0	10.5	10.1	9.6	9.0	9.5	8.9	8.4	7.7		115
120	-	-	-	-	9.5	9.2	8.8	8.2	8.5	8.0	7.5	6.7		120
125	-	-	-	-	8.7	8.4	8.0	7.5	7.6	7.1	6.5	5.8		125
130	-	-	-	-	7.9	7.7	7.4	7.0	6.6	6.1	5.7	5.0		130
135	-	-	-	-	-	-	-	-	5.6	5.2	4.9	4.3		135
140	-	-	-	-	-	-	-	-	4.8	4.5	4.1	3.7		140
145	-	-	-	-	-	-	-	-	4.1	3.8	3.5	3.2		145

Operation

MB

46,700 lb + 10,000 lb	19'1"	20 mph	360°	ASME B30.5

	42.1 ft				56.2 ft				70.3 ft				
	0.5°	1.5°	2.5°	4°	0.5°	1.5°	2.5°	4°	0.5°	1.5°	2.5°	4°	
ft	1,000 lb												ft
10	-	264.6	264.6	264.6	-	168.7	168.7	168.7	-	163.3	155.5	143.5	10
12	-	241.2	241.2	239.8	-	168.7	168.7	168.7	-	149.9	146.3	135.8	12
15	-	204.6	204.6	187.9	-	168.7	168.7	168.7	-	139.1	132.9	124.6	15
20	-	146.2	136.0	122.8	-	140.6	128.0	112.3	-	119.1	114.7	103.7	20
25	-	101.5	96.5	89.5	-	98.2	91.5	82.7	-	95.2	87.3	77.2	25
30	-	76.5	73.7	69.8	-	74.1	70.0	64.4	-	72.0	67.1	60.5	30
35	-	61.0	59.7	-	-	58.4	55.7	52.0	-	56.8	53.5	48.9	35
40	-	-	-	-	-	47.6	45.8	43.2	-	46.2	43.8	40.5	40
45	-	-	-	-	-	39.6	38.4	36.7	-	38.4	36.6	34.1	45
50	-	-	-	-	-	-	-	-	-	32.4	31.0	29.2	50
55	-	-	-	-	-	-	-	-	-	27.6	26.7	25.3	55
60	-	-	-	-	-	-	-	-	-	23.9	23.2	22.2	60

	84.4 ft				98.5 ft				112.7 ft				
	0.5°	1.5°	2.5°	4°	0.5°	1.5°	2.5°	4°	0.5°	1.5°	2.5°	4°	
ft	1,000 lb												ft
12	-	126.1	117.0	106.2	-	-	-	-	-	-	-	-	12
15	-	115.2	107.6	98.4	-	96.8	89.5	52.7	-	-	-	-	15
20	-	99.6	94.0	87.0	-	85.1	79.5	52.7	-	65.2	65.2	43.9	20
25	-	87.1	80.1	69.7	-	75.2	70.8	52.7	-	65.2	62.1	43.9	25
30	-	69.7	67.0	59.5	-	65.6	59.3	51.4	-	60.3	56.6	43.9	30
35	-	57.8	53.9	48.6	-	52.5	50.4	47.6	-	52.6	47.7	41.5	35
40	-	47.4	44.5	40.6	-	47.8	44.6	40.1	-	42.7	39.7	34.8	40
45	-	39.6	37.4	34.4	-	40.2	37.7	34.2	-	38.1	36.6	34.1	45
50	-	33.6	31.9	29.6	-	34.3	32.3	29.6	-	34.9	32.7	29.7	50
55	-	28.9	27.6	25.7	-	29.6	28.0	25.8	-	30.2	28.4	26.0	55
60	-	25.0	24.0	22.5	-	25.7	24.4	22.6	-	26.4	24.9	22.9	60
65	-	21.8	21.0	19.8	-	22.6	21.5	20.0	-	23.3	22.0	20.3	65
70	-	19.2	18.6	17.6	-	19.9	19.0	17.8	-	20.6	19.6	18.1	70
75	-	17.0	16.6	-	-	17.6	16.9	15.9	-	18.3	17.4	16.2	75
80	-	-	-	-	-	15.7	15.1	14.3	-	16.3	15.6	14.6	80
85	-	-	-	-	-	14.0	13.6	12.9	-	14.6	14.0	13.1	85
90	-	-	-	-	-	12.7	12.4	11.9	-	13.1	12.6	11.9	90
95	-	-	-	-	-	-	-	-	-	11.8	11.4	10.8	95
100	-	-	-	-	-	-	-	-	-	10.7	10.3	9.8	100
105	-	-	-	-	-	-	-	-	-	9.8	9.5	9.2	105

46,700 lb + 10,000 lb					19'1"				20 mph			360°			ASME B30.5
	126.8 ft				140.9 ft				155.0 ft						
	0.5°	1.5°	2.5°	4°	0.5°	1.5°	2.5°	4°	0.5°	1.5°	2.5°	4°			
ft	1,000 lb														ft
20	-	51.5	47.7	36.6	-	-	-	-	-	-	-	-			20
25	-	59.0	54.7	36.6	-	49.5	47.3	28.4	-	-	-	-			25
30	-	54.0	50.3	36.6	-	48.0	44.5	28.4	-	39.0	36.9	24.9			30
35	-	49.3	46.3	36.6	-	44.6	41.5	28.4	-	37.8	35.2	24.9			35
40	-	43.3	39.4	34.3	-	41.2	38.6	28.4	-	35.7	33.5	24.9			40
45	-	36.1	33.0	29.0	-	36.5	33.2	28.4	-	33.7	31.7	24.9			45
50	-	31.3	30.0	28.2	-	32.2	30.4	26.9	-	31.7	28.9	24.9			50
55	-	29.1	28.0	25.8	-	28.6	26.4	23.5	-	27.3	25.0	21.9			55
60	-	26.7	25.1	22.8	-	24.9	23.1	20.6	-	23.7	21.7	19.1			60
65	-	23.6	22.2	20.3	-	21.8	20.3	18.2	-	20.6	19.0	16.8			65
70	-	20.9	19.8	18.1	-	19.2	17.9	16.1	-	18.1	16.7	14.7			70
75	-	18.7	17.7	16.2	-	17.0	15.9	14.3	-	15.9	14.6	13.0			75
80	-	16.7	15.9	14.6	-	15.0	14.1	12.7	-	13.9	12.9	11.4			80
85	-	15.0	14.2	13.2	-	13.3	12.5	11.3	-	12.3	11.3	10.1			85
90	-	13.5	12.9	11.9	-	11.9	11.1	10.1	-	10.8	10.0	8.8			90
95	-	12.2	11.6	10.8	-	10.5	9.9	9.0	-	9.5	8.8	7.7			95
100	-	11.0	10.5	9.8	-	9.4	8.8	8.0	-	8.3	7.7	6.6			100
105	-	9.9	9.5	9.0	-	8.3	7.8	7.1	-	7.2	6.5	5.5			105
110	-	9.0	8.7	8.2	-	7.4	6.9	6.2	-	6.0	5.4	4.5			110
115	-	8.2	7.9	7.5	-	6.4	6.0	5.3	-	5.0	4.4	3.6			115
120	-	-	-	-	-	5.5	5.1	4.5	-	4.0	3.5	2.8			120
125	-	-	-	-	-	4.7	4.4	3.9	-	3.1	2.7	*			125
130	-	-	-	-	-	4.0	3.7	3.4	-	2.4	*	*			130
135	-	-	-	-	-	-	-	-	-	*	*	*			135
140	-	-	-	-	-	-	-	-	-	*	*	*			140
145	-	-	-	-	-	-	-	-	-	*	*	*			145

An asterisk (*) on the chart indicates positions without rated loads. These areas are susceptible to instability in either the forward or backward direction. Even without a load, the boom should not be positioned in these configurations of the load chart to avoid tipping.

Operation

MB

23,300 lb + 10,000 lb	19'1"	20 mph	360°	ASME B30.5

	42.1 ft				56.2 ft				70.3 ft				
	0.5°	1.5°	2.5°	4°	0.5°	1.5°	2.5°	4°	0.5°	1.5°	2.5°	4°	
ft	1,000 lb												ft
10	-	264.6	264.6	-	-	168.7	168.7	-	-	163.3	155.5	-	10
12	-	235.0	235.0	-	-	168.7	168.7	-	-	149.9	146.3	-	12
15	-	184.7	178.5	-	-	168.7	164.0	-	-	139.1	132.9	-	15
20	-	116.8	108.5	-	-	112.2	101.9	-	-	108.0	96.2	-	20
25	-	80.3	76.1	-	-	77.5	72.1	-	-	75.1	68.6	-	25
30	-	59.8	57.5	-	-	57.8	54.5	-	-	56.1	52.0	-	30
35	-	47.1	46.1	-	-	45.0	42.8	-	-	43.7	40.9	-	35
40	-	-	-	-	-	36.1	34.7	-	-	35.0	33.0	-	40
45	-	-	-	-	-	29.7	28.7	-	-	28.6	27.1	-	45
50	-	-	-	-	-	-	-	-	-	23.7	22.6	-	50
55	-	-	-	-	-	-	-	-	-	19.8	19.0	-	55
60	-	-	-	-	-	-	-	-	-	16.7	16.2	-	60

	84.4 ft				98.5 ft				112.7 ft				
	0.5°	1.5°	2.5°	4°	0.5°	1.5°	2.5°	4°	0.5°	1.5°	2.5°	4°	
ft	1,000 lb												ft
12	-	126.1	117.0	-	-	-	-	-	-	-	-	-	12
15	-	115.2	107.6	-	-	96.8	89.5	-	-	-	-	-	15
20	-	99.6	87.2	-	-	85.1	79.5	-	-	65.2	65.2	-	20
25	-	69.7	68.2	-	-	67.6	61.1	-	-	65.2	59.7	-	25
30	-	57.1	52.3	-	-	57.2	51.9	-	-	51.3	47.1	-	30
35	-	44.9	41.6	-	-	45.3	41.6	-	-	45.3	41.7	-	35
40	-	36.3	34.0	-	-	36.9	34.2	-	-	37.5	34.5	-	40
45	-	29.9	28.2	-	-	30.6	28.5	-	-	31.3	29.0	-	45
50	-	25.0	23.7	-	-	25.8	24.2	-	-	26.5	24.7	-	50
55	-	21.2	20.1	-	-	21.9	20.6	-	-	22.7	21.2	-	55
60	-	18.0	17.2	-	-	18.8	17.7	-	-	19.6	18.3	-	60
65	-	15.4	14.7	-	-	16.2	15.3	-	-	17.0	15.9	-	65
70	-	13.2	12.7	-	-	14.0	13.3	-	-	14.7	13.9	-	70
75	-	11.5	11.1	-	-	12.2	11.6	-	-	12.9	12.2	-	75
80	-	-	-	-	-	10.6	10.1	-	-	11.3	10.7	-	80
85	-	-	-	-	-	9.3	8.9	-	-	9.9	9.4	-	85
90	-	-	-	-	-	8.2	7.9	-	-	8.7	8.2	-	90
95	-	-	-	-	-	-	-	-	-	7.6	7.2	-	95
100	-	-	-	-	-	-	-	-	-	6.7	6.3	-	100
105	-	-	-	-	-	-	-	-	-	5.8	5.6	-	105

23,300 lb + 10,000 lb					19'1"				20 mph				360°				ASME B30.5
	126.8 ft				140.9 ft				155.0 ft								
	0.5°	1.5°	2.5°	4°	0.5°	1.5°	2.5°	4°	0.5°	1.5°	2.5°	4°					
ft	1,000 lb																ft
20	-	51.5	47.7	-	-	-	-	-	-	-	-	-					20
25	-	59.0	54.7	-	-	49.5	47.3	-	-	-	-	-					25
30	-	51.7	45.6	-	-	48.0	44.5	-	-	39.0	36.9	-					30
35	-	40.6	37.6	-	-	40.8	37.1	-	-	37.8	35.2	-					35
40	-	36.6	34.3	-	-	35.4	31.9	-	-	33.4	29.8	-					40
45	-	31.5	29.0	-	-	29.4	26.7	-	-	28.0	25.1	-					45
50	-	26.8	24.8	-	-	24.8	22.7	-	-	23.6	21.3	-					50
55	-	23.0	21.4	-	-	21.1	19.4	-	-	20.0	18.1	-					55
60	-	19.9	18.5	-	-	18.1	16.6	-	-	17.0	15.4	-					60
65	-	17.3	16.2	-	-	15.6	14.4	-	-	14.5	13.1	-					65
70	-	15.1	14.2	-	-	13.4	12.4	-	-	12.4	11.2	-					70
75	-	13.3	12.5	-	-	11.6	10.7	-	-	10.6	9.6	-					75
80	-	11.7	11.0	-	-	10.1	9.3	-	-	9.0	8.1	-					80
85	-	10.3	9.7	-	-	8.7	8.0	-	-	7.6	6.7	-					85
90	-	9.1	8.5	-	-	7.5	6.8	-	-	6.2	5.3	-					90
95	-	8.0	7.5	-	-	6.2	5.6	-	-	4.8	4.1	-					95
100	-	7.0	6.6	-	-	5.1	4.5	-	-	*	*	-					100
105	-	6.1	5.7	-	-	4.0	3.5	-	-	*	*	-					105
110	-	5.2	4.9	-	-	3.1	2.7	-	-	*	*	-					110
115	-	4.5	4.2	-	-	2.3	*	-	-	*	*	-					115
120	-	-	-	-	-	*	*	-	-	*	*	-					120
125	-	-	-	-	-	*	*	-	-	*	*	-					125
130	-	-	-	-	-	*	*	-	-	*	*	-					130
135	-	-	-	-	-	-	-	-	-	*	*	-					135
140	-	-	-	-	-	-	-	-	-	*	*	-					140
145	-	-	-	-	-	-	-	-	-	*	*	-					145

An asterisk (*) on the chart indicates positions without rated loads. These areas are susceptible to instability in either the forward or backward direction. Even without a load, the boom should not be positioned in these configurations of the load chart to avoid tipping.

0 lb + 10,000 lb	19'1"	20 mph	360°	ASME B30.5

	42.1 ft				56.2 ft				70.3 ft				
	0.5°	1.5°	2.5°	4°	0.5°	1.5°	2.5°	4°	0.5°	1.5°	2.5°	4°	
ft	1,000 lb												ft
10	-	252.9	252.9	-	-	168.7	168.7	-	-	163.3	155.5	-	10
12	-	208.0	208.0	-	-	168.7	168.7	-	-	149.9	146.3	-	12
15	-	149.6	132.8	-	-	141.2	121.7	-	-	133.6	112.3	-	15
20	-	85.6	79.3	-	-	82.2	74.3	-	-	78.9	69.9	-	20
25	-	57.8	54.5	-	-	55.7	51.5	-	-	53.8	48.8	-	25
30	-	42.1	40.3	-	-	40.6	38.0	-	-	39.3	36.1	-	30
35	-	32.4	31.6	-	-	30.8	29.1	-	-	29.8	27.6	-	35
40	-	-	-	-	-	24.1	22.9	-	-	23.1	21.6	-	40
45	-	-	-	-	-	19.1	18.3	-	-	18.2	17.1	-	45
50	-	-	-	-	-	-	-	-	-	14.5	13.6	-	50
55	-	-	-	-	-	-	-	-	-	11.6	10.9	-	55
60	-	-	-	-	-	-	-	-	-	9.2	8.8	-	60

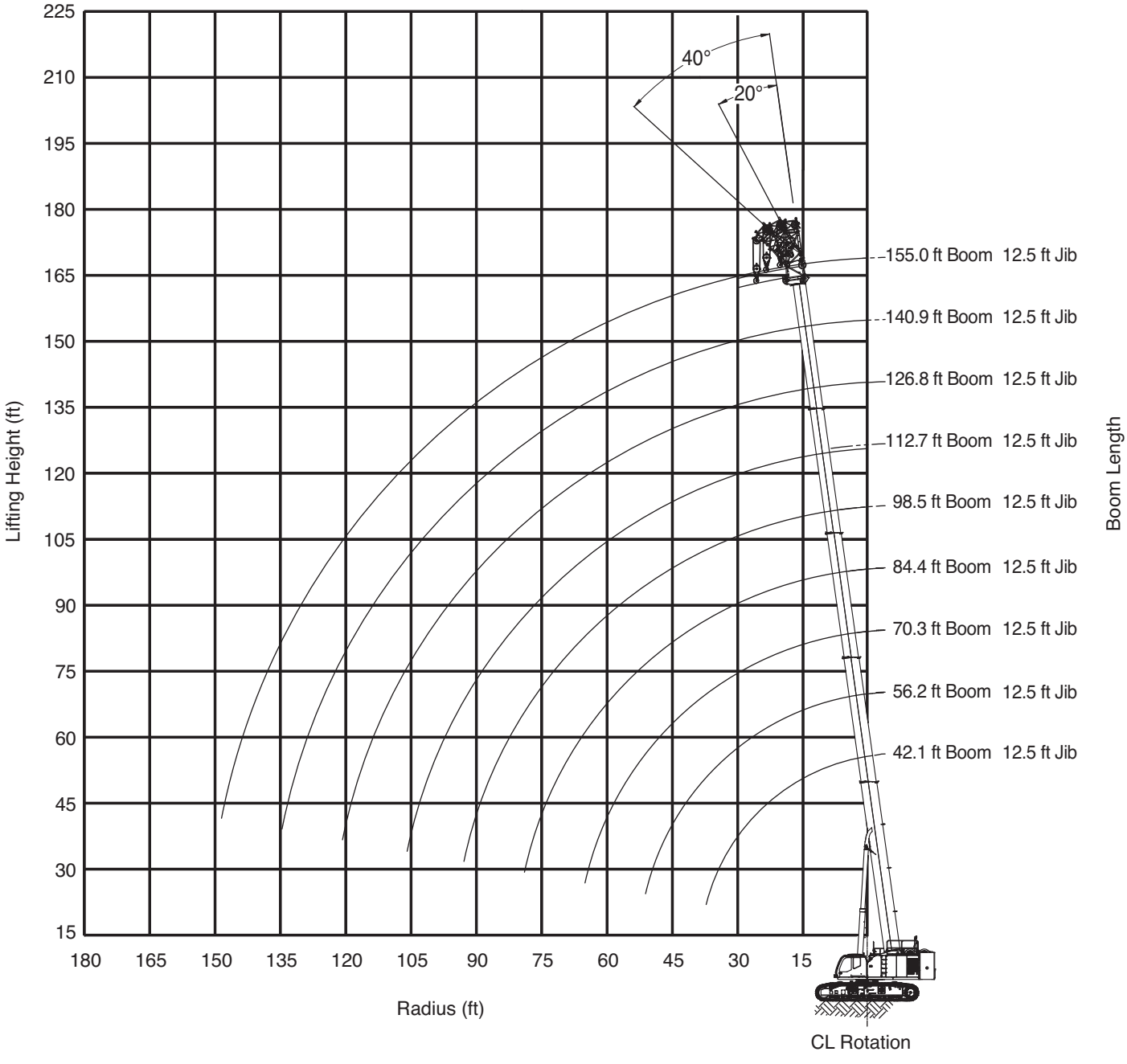
	84.4 ft				98.5 ft				112.7 ft				
	0.5°	1.5°	2.5°	4°	0.5°	1.5°	2.5°	4°	0.5°	1.5°	2.5°	4°	
ft	1,000 lb												ft
12	-	126.1	117.0	-	-	-	-	-	-	-	-	-	12
15	-	115.2	97.5	-	-	96.8	87.9	-	-	-	-	-	15
20	-	71.8	68.9	-	-	68.8	67.2	-	-	65.2	56.7	-	20
25	-	54.8	49.1	-	-	54.9	48.5	-	-	54.9	48.1	-	25
30	-	40.5	36.9	-	-	41.0	36.9	-	-	41.5	37.0	-	30
35	-	31.2	28.7	-	-	31.9	29.0	-	-	32.5	29.3	-	35
40	-	24.6	22.8	-	-	25.4	23.3	-	-	26.1	23.8	-	40
45	-	19.7	18.3	-	-	20.6	19.0	-	-	21.4	19.6	-	45
50	-	16.0	14.9	-	-	16.8	15.6	-	-	17.7	16.2	-	50
55	-	13.0	12.2	-	-	13.9	12.9	-	-	14.7	13.6	-	55
60	-	10.6	9.9	-	-	11.5	10.6	-	-	12.3	11.4	-	60
65	-	8.6	8.1	-	-	9.5	8.8	-	-	10.3	9.5	-	65
70	-	6.9	6.3	-	-	7.8	7.3	-	-	8.6	8.0	-	70
75	-	5.2	4.9	-	-	6.3	5.7	-	-	7.2	6.6	-	75
80	-	-	-	-	-	4.8	4.4	-	-	5.8	5.2	-	80
85	-	-	-	-	-	3.6	3.2	-	-	4.5	4.0	-	85
90	-	-	-	-	-	2.6	2.4	-	-	3.4	3.0	-	90
95	-	-	-	-	-	-	-	-	-	2.4	*	-	95
100	-	-	-	-	-	-	-	-	-	*	*	-	100
105	-	-	-	-	-	-	-	-	-	*	*	-	105

An asterisk (*) on the chart indicates positions without rated loads. These areas are susceptible to instability in either the forward or backward direction. Even without a load, the boom should not be positioned in these configurations of the load chart to avoid tipping.

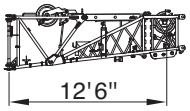
0 lb + 10,000 lb					19'1"				20 mph				360°				ASME B30.5
	126.8 ft				140.9 ft				155.0 ft								
	0.5°	1.5°	2.5°	4°	0.5°	1.5°	2.5°	4°	0.5°	1.5°	2.5°	4°					
ft	1,000 lb																ft
20	-	51.5	47.7	-	-	-	-	-	-	-	-	-					20
25	-	47.3	44.1	-	-	45.4	41.2	-	-	-	-	-					25
30	-	41.3	36.6	-	-	37.1	32.5	-	-	33.8	29.2	-					30
35	-	32.6	29.2	-	-	29.6	26.1	-	-	26.8	23.3	-					35
40	-	26.4	23.8	-	-	24.0	21.3	-	-	21.6	18.8	-					40
45	-	21.7	19.7	-	-	19.6	17.5	-	-	17.4	15.3	-					45
50	-	18.0	16.4	-	-	16.2	14.4	-	-	14.2	12.4	-					50
55	-	15.1	13.8	-	-	13.3	11.9	-	-	11.5	10.0	-					55
60	-	12.7	11.7	-	-	11.0	9.8	-	-	9.2	8.0	-					60
65	-	10.8	9.9	-	-	9.0	8.0	-	-	7.3	*	-					65
70	-	9.1	8.3	-	-	7.3	6.4	-	-	*	*	-					70
75	-	7.7	7.0	-	-	5.8	4.9	-	-	*	*	-					75
80	-	6.4	5.7	-	-	*	*	-	-	*	*	-					80
85	-	5.1	4.5	-	-	*	*	-	-	*	*	-					85
90	-	4.0	3.5	-	-	*	*	-	-	*	*	-					90
95	-	3.0	2.5	-	-	*	*	-	-	*	*	-					95
100	-	*	*	-	-	*	*	-	-	*	*	-					100
105	-	*	*	-	-	*	*	-	-	*	*	-					105
110	-	*	*	-	-	*	*	-	-	*	*	-					110
115	-	*	*	-	-	*	*	-	-	*	*	-					115
120	-	-	-	-	-	*	*	-	-	*	*	-					120
125	-	-	-	-	-	*	*	-	-	*	*	-					125
130	-	-	-	-	-	*	*	-	-	*	*	-					130
135	-	-	-	-	-	-	-	-	-	*	*	-					135
140	-	-	-	-	-	-	-	-	-	*	*	-					140
145	-	-	-	-	-	-	-	-	-	*	*	-					145

An asterisk (*) on the chart indicates positions without rated loads. These areas are susceptible to instability in either the forward or backward direction. Even without a load, the boom should not be positioned in these configurations of the load chart to avoid tipping.

Notes


225
210
195
180
165
150
135
120
105
90
75
60
45
30
15
Lifting Height (ft)
180
165
150
135
120
105
90
75
60
45
30
15
Radius (ft)
40°
20°
155.0 ft Boom 12.5 ft Jib
140.9 ft Boom 12.5 ft Jib
126.8 ft Boom 12.5 ft Jib
112.7 ft Boom 12.5 ft Jib
98.5 ft Boom 12.5 ft Jib
84.4 ft Boom 12.5 ft Jib
70.3 ft Boom 12.5 ft Jib
56.2 ft Boom 12.5 ft Jib
42.1 ft Boom 12.5 ft Jib
Boom Length
CL Rotation

Jib assembly

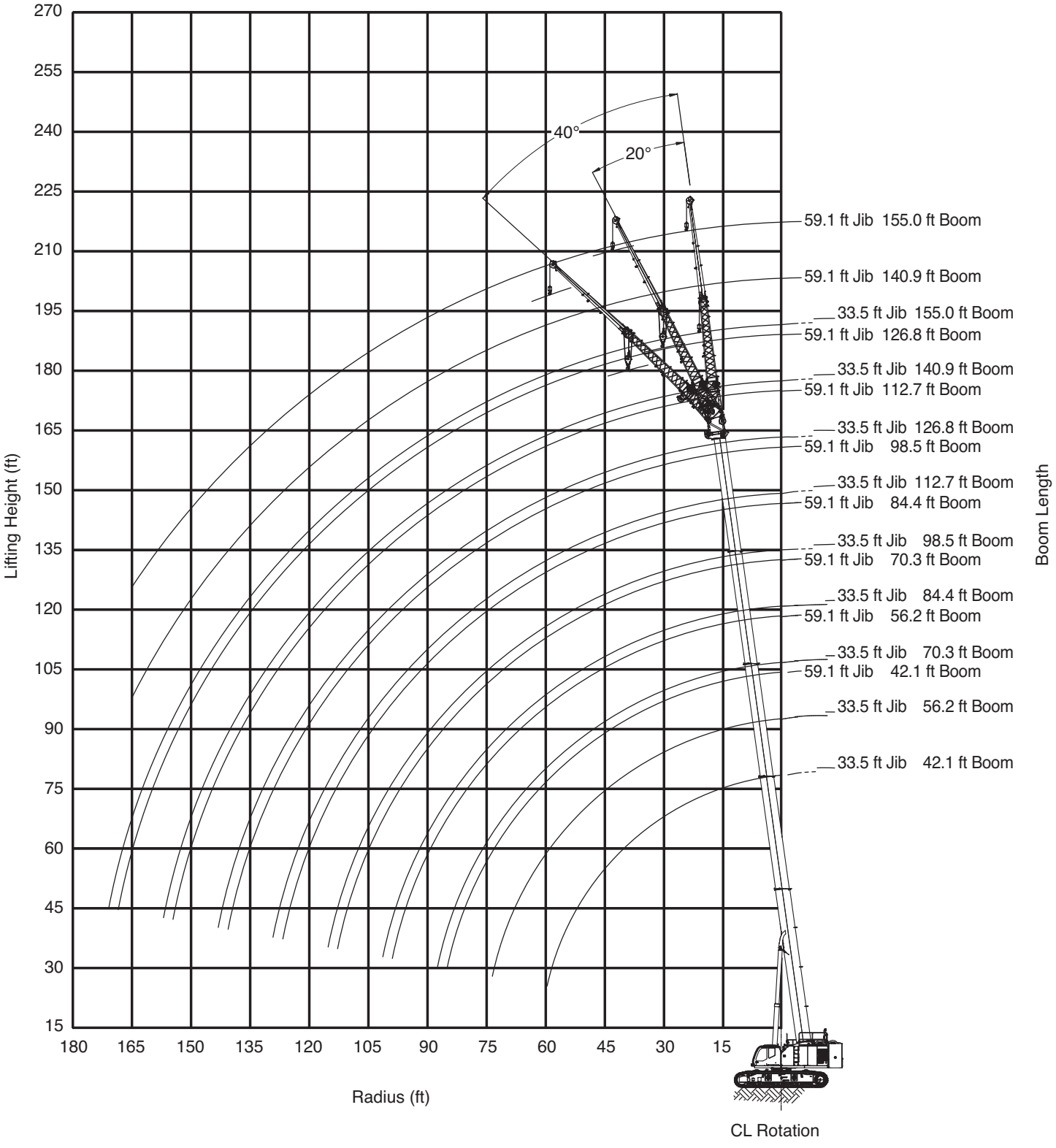


Tracks fully extended – 360° – Up to 0.5° slope – Heavy lift jib

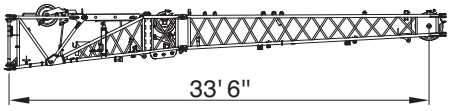
70,000 lb + 20,000 lb | 19'1" | 0.5° | 12.5 ft | 20 mph | 360° | ASME B30.5

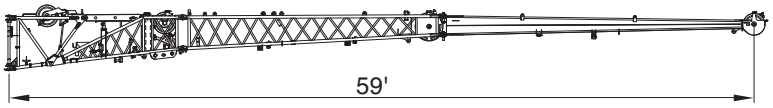
	42.1 ft			112.7 ft			126.8 ft			140.9 ft			155.0 ft			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
ft	1,000 lb															ft
10	88.2	72.1	-	-	-	-	-	-	-	-	-	-	-	-	-	10
12	88.2	72.0	55.6	-	-	-	-	-	-	-	-	-	-	-	-	12
14	88.2	68.3	54.9	-	-	-	-	-	-	-	-	-	-	-	-	14
16	88.2	64.9	53.1	-	-	-	-	-	-	-	-	-	-	-	-	16
18	83.0	61.9	51.4	-	-	-	-	-	-	-	-	-	-	-	-	18
20	77.8	59.3	49.9	-	-	-	-	-	-	-	-	-	-	-	-	20
22	73.2	56.9	48.5	-	-	-	-	-	-	-	-	-	-	-	-	22
24	69.1	54.7	47.3	-	34.9	-	-	-	-	-	-	-	-	-	-	24
26	65.6	52.8	46.2	37.3	34.9	31.3	-	-	-	-	-	-	-	-	-	26
28	62.4	51.1	45.3	36.5	34.1	31.3	31.9	29.4	-	-	-	-	-	-	-	28
30	59.5	49.5	44.4	36.4	33.0	30.6	30.8	29.4	26.8	-	27.4	-	-	-	-	30
35	53.4	46.2	42.9	33.5	30.6	28.6	29.8	27.6	25.9	27.5	26.8	24.2	-	24.4	-	35
40	48.8	43.8	-	31.1	28.7	26.9	27.6	25.7	24.3	26.9	25.0	23.7	24.5	24.1	21.9	40
45	45.4	42.9	-	29.0	26.9	25.4	25.6	24.1	22.9	25.1	23.5	22.3	24.1	22.6	21.5	45
50	-	-	-	26.7	25.4	24.1	23.6	22.7	21.6	23.5	22.1	21.1	22.7	21.4	20.4	50
55	-	-	-	24.7	24.1	23.0	21.8	21.4	20.5	21.9	21.0	20.1	21.5	20.3	19.4	55
60	-	-	-	22.9	22.6	22.0	20.2	20.1	19.5	20.4	19.9	19.1	20.2	19.3	18.5	60
65	-	-	-	21.3	21.1	20.9	18.8	18.7	18.6	19.1	18.9	18.3	18.9	18.4	17.7	65
70	-	-	-	19.9	19.7	19.6	17.5	17.4	17.4	17.9	17.7	17.5	17.8	17.6	17.0	70
75	-	-	-	18.6	18.4	18.4	16.4	16.3	16.2	16.8	16.7	16.6	16.8	16.6	16.3	75
80	-	-	-	17.4	17.3	17.2	15.3	15.3	15.2	15.8	15.7	15.7	15.9	15.7	15.7	80
85	-	-	-	16.4	16.3	16.2	14.4	14.3	14.3	14.9	14.8	14.7	15.0	14.9	14.8	85
90	-	-	-	15.4	15.3	15.3	13.5	13.5	13.4	14.1	14.0	14.0	14.0	14.1	14.1	90
100	-	-	-	13.1	13.2	-	11.6	11.7	11.8	12.2	12.5	12.5	10.9	11.2	11.4	100
110	-	-	-	10.8	10.8	-	9.9	9.9	-	9.6	9.8	9.9	8.2	8.5	8.7	110
120	-	-	-	-	-	-	8.4	8.4	-	7.3	7.5	-	5.6	5.9	6.1	120
130	-	-	-	-	-	-	7.2	-	-	5.2	5.4	-	3.5	3.8	-	130
140	-	-	-	-	-	-	-	-	-	3.5	3.6	-	1.8	1.9	-	140
	6	6	6	3	3	3	2	2	2	2	2	2	2	2	2	

Load chart data is for reference, load charts supplied in the crane cab shall be used for lift planning.


Lifting Height (ft)
270
255
240
225
210
195
180
165
150
135
120
105
90
75
60
45
30
15
180 165 150 135 120 105 90 75 60 45 30 15
Radius (ft)
40°
20°
59.1 ft Jib 155.0 ft Boom
59.1 ft Jib 140.9 ft Boom
33.5 ft Jib 155.0 ft Boom
59.1 ft Jib 126.8 ft Boom
33.5 ft Jib 140.9 ft Boom
59.1 ft Jib 112.7 ft Boom
33.5 ft Jib 126.8 ft Boom
59.1 ft Jib 98.5 ft Boom
33.5 ft Jib 112.7 ft Boom
59.1 ft Jib 84.4 ft Boom
33.5 ft Jib 98.5 ft Boom
59.1 ft Jib 70.3 ft Boom
33.5 ft Jib 84.4 ft Boom
59.1 ft Jib 56.2 ft Boom
33.5 ft Jib 70.3 ft Boom
59.1 ft Jib 42.1 ft Boom
33.5 ft Jib 56.2 ft Boom
33.5 ft Jib 42.1 ft Boom
Boom Length
CL Rotation

Jib assembly





Tracks fully extended – 360° – Up to 0.5° slope – Folding jib

70,000 lb + 20,000 lb | 19'1" | 0.5° | 33.5 ft | 20 mph | 360° | ASME B30.5

ft	42.1 ft			112.7 ft			126.8 ft			140.9 ft			155.0 ft			ft
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
								1,000 lb								
10	33.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10
12	33.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12
14	33.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14
16	33.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
18	33.1	32.4	-	-	-	-	-	-	-	-	-	-	-	-	-	18
20	33.1	32.4	-	-	-	-	-	-	-	-	-	-	-	-	-	20
22	33.1	30.8	-	-	-	-	-	-	-	-	-	-	-	-	-	22
24	33.1	29.3	-	29.5	-	-	-	-	-	-	-	-	-	-	-	24
26	33.1	27.9	20.5	29.5	-	-	24.5	-	-	-	-	-	-	-	-	26
28	33.1	26.7	20.5	29.5	-	-	24.5	-	-	-	-	-	-	-	-	28
30	33.1	25.6	20.4	29.5	-	-	24.5	-	-	23.1	-	-	-	-	-	30
35	30.2	23.1	19.0	29.3	22.6	-	24.5	-	-	23.1	-	-	19.0	-	-	35
40	26.6	21.1	17.9	26.9	22.0	-	22.7	19.2	-	23.1	-	-	19.0	-	-	40
45	23.7	19.5	16.9	24.8	20.6	17.6	21.1	18.8	-	21.9	17.7	-	19.0	-	-	45
50	21.3	18.1	16.1	23.1	19.5	17.2	19.8	17.7	15.4	20.4	17.5	15.1	19.0	16.9	-	50
55	19.4	17.0	15.5	21.6	18.4	16.4	18.6	16.8	15.1	19.2	16.5	14.8	19.0	16.7	14.7	55
60	17.8	16.1	15.2	20.3	17.5	15.7	17.5	15.9	14.4	18.1	15.7	14.2	18.1	15.9	14.6	60
65	16.5	15.5	-	19.2	16.6	15.1	16.6	15.1	13.8	17.1	14.9	13.6	17.2	15.2	13.9	65
70	-	-	-	18.1	15.9	14.5	15.7	14.4	13.2	16.2	14.2	13.0	16.3	14.5	13.4	70
75	-	-	-	17.2	15.2	13.9	14.8	13.7	12.7	15.4	13.6	12.5	15.5	13.9	12.9	75
80	-	-	-	16.2	14.6	13.4	13.9	13.2	12.2	14.6	13.1	12.1	14.6	13.4	12.4	80
85	-	-	-	15.3	14.0	13.0	13.1	12.6	11.8	13.8	12.6	11.7	13.8	12.9	11.9	85
90	-	-	-	14.4	13.5	12.6	12.3	12.1	11.4	13.1	12.1	11.3	13.1	12.4	11.5	90
100	-	-	-	12.8	12.6	11.9	11.0	11.3	10.7	11.7	11.3	10.6	11.9	11.6	10.8	100
110	-	-	-	11.0	11.2	11.4	9.5	10.1	10.1	10.6	10.5	10.0	9.8	10.6	10.2	110
120	-	-	-	9.6	9.8	-	8.2	8.7	9.0	8.7	9.5	9.5	7.5	8.6	9.2	120
130	-	-	-	8.4	8.5	-	7.1	7.5	-	6.8	7.6	8.0	5.4	6.4	7.1	130
140	-	-	-	-	-	-	6.2	6.5	-	5.0	5.7	-	3.6	4.5	5.0	140
150	-	-	-	-	-	-	-	-	-	3.6	4.1	-	2.1	2.8	3.2	150
160	-	-	-	-	-	-	-	-	-	1.9	-	-	-	-	-	160
	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	

Load chart data is for reference, load charts supplied in the crane cab shall be used for lift planning.

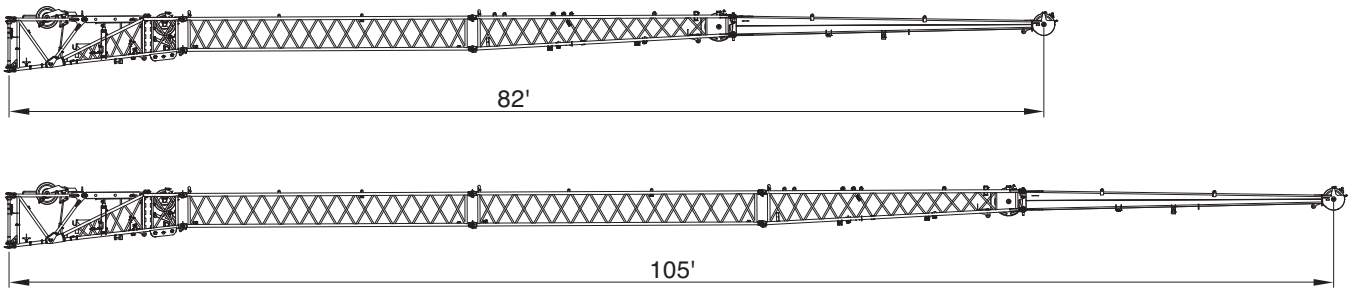
Tracks fully extended – 360° – Up to 0.5° slope – Folding jib

70,000 lb + 20,000 lb | 19'1" | 0.5° | 59.1 ft | 20 mph | 360° | ASME B30.5

	42.1 ft			112.7 ft			126.8 ft			140.9 ft			155.0 ft			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
ft	1,000 lb															ft
14	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14
16	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
18	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18
20	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
22	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22
24	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24
26	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26
28	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28
30	15.0	-	-	11.9	-	-	-	-	-	-	-	-	-	-	-	30
35	15.0	11.3	-	11.9	-	-	11.0	-	-	-	-	-	-	-	-	35
40	13.9	10.8	-	11.9	-	-	11.0	-	-	10.6	-	-	-	-	-	40
45	12.7	10.0	-	11.9	-	-	11.0	-	-	10.6	-	-	10.1	-	-	45
50	11.6	9.4	7.7	11.9	9.5	-	11.0	-	-	10.6	-	-	10.1	-	-	50
55	10.7	8.8	7.7	11.9	9.5	-	11.0	9.0	-	10.6	-	-	10.1	-	-	55
60	9.9	8.3	7.3	11.9	9.5	-	11.0	9.0	-	10.6	9.0	-	10.1	-	-	60
65	9.2	7.8	7.0	11.9	9.1	7.1	11.0	9.0	-	10.6	9.0	-	10.1	8.0	-	65
70	8.6	7.5	6.7	11.9	8.8	7.1	11.0	8.8	6.6	10.6	8.8	-	10.1	8.0	-	70
75	8.1	7.1	6.5	11.4	8.5	7.1	11.0	8.5	6.6	10.6	8.6	6.6	10.1	8.0	-	75
80	7.7	6.8	6.4	10.9	8.2	6.9	11.0	8.2	6.6	10.6	8.3	6.6	10.1	8.0	6.0	80
85	7.2	6.5	6.3	10.5	7.9	6.7	10.6	8.0	6.6	10.6	8.1	6.6	10.1	8.0	6.0	85
90	6.9	6.4	-	10.0	7.7	6.6	10.2	7.8	6.6	10.4	7.8	6.6	10.1	7.9	6.0	90
100	-	-	-	9.3	7.3	6.3	9.5	7.3	6.3	9.8	7.4	6.4	9.9	7.5	6.0	100
110	-	-	-	8.6	6.9	6.1	8.9	7.0	6.1	9.1	7.1	6.2	9.2	7.1	6.0	110
120	-	-	-	8.0	6.6	6.0	8.0	6.7	6.0	8.6	6.8	6.0	8.6	6.8	6.0	120
130	-	-	-	7.6	6.3	5.8	7.1	6.4	5.8	7.8	6.5	5.8	6.9	6.5	5.8	130
140	-	-	-	7.0	6.2	5.8	6.1	6.2	5.7	6.7	6.3	5.7	5.0	6.3	5.7	140
150	-	-	-	6.2	6.0	-	5.3	5.7	5.7	5.2	6.1	5.6	3.5	4.9	5.6	150
165	-	-	-	5.1	-	-	4.3	4.5	-	3.2	4.1	4.5	1.6	2.7	3.4	165
180	-	-	-	-	-	-	-	-	-	1.7	2.2	-	-	0.8	-	180
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

Load chart data is for reference, load charts supplied in the crane cab shall be used for lift planning.

Jib assembly



Tracks fully extended – 360° – Up to 0.5° slope – Folding jib

70,000 lb + 20,000 lb | 19'1" | 0.5° | 82.0 ft | 20 mph | 360° | ASME B30.5

	42.1 ft			112.7 ft			126.8 ft			140.9 ft			155.0 ft			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
ft	1,000 lb															ft
18	11.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18
20	11.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
22	11.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22
24	11.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24
26	11.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26
28	11.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28
30	11.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30
35	11.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35
40	11.2	-	-	8.2	-	-	-	-	-	-	-	-	-	-	-	40
45	11.2	9.9	-	8.2	-	-	7.7	-	-	7.5	-	-	-	-	-	45
50	11.2	9.3	-	8.2	-	-	7.7	-	-	7.5	-	-	7.1	-	-	50
55	10.6	8.6	-	8.2	-	-	7.7	-	-	7.5	-	-	7.1	-	-	55
60	9.7	7.9	-	8.2	-	-	7.7	-	-	7.5	-	-	7.1	-	-	60
65	8.9	7.4	-	8.2	8.2	-	7.7	-	-	7.5	-	-	7.1	-	-	65
70	8.2	6.9	6.0	8.2	8.2	-	7.7	7.7	-	7.5	-	-	7.1	-	-	70
75	7.6	6.5	5.7	8.2	8.1	-	7.7	7.7	-	7.5	7.5	-	7.1	-	-	75
80	7.1	6.1	5.4	8.2	7.7	-	7.7	7.7	-	7.5	7.5	-	7.1	7.1	-	80
85	6.6	5.8	5.2	8.2	7.4	5.8	7.7	7.6	-	7.5	7.5	-	7.1	7.1	-	85
90	6.2	5.5	5.0	8.2	7.1	5.6	7.7	7.3	5.6	7.5	7.4	-	7.1	7.1	-	90
100	5.4	5.0	-	8.2	6.6	5.3	7.7	6.8	5.4	7.5	6.9	5.4	7.1	6.7	5.4	100
110	4.9	4.6	-	8.0	6.1	5.0	7.3	6.3	5.1	7.3	6.4	5.2	7.1	6.2	5.2	110
120	-	-	-	7.3	5.7	4.9	6.8	5.9	4.9	6.8	6.0	5.0	6.6	5.8	5.0	120
130	-	-	-	6.7	5.4	4.7	6.0	5.6	4.7	6.3	5.6	4.8	6.2	5.5	4.9	130
140	-	-	-	6.1	5.1	4.5	5.3	5.1	4.6	5.9	5.3	4.7	5.2	5.2	4.7	140
150	-	-	-	5.7	4.9	4.4	4.7	4.7	4.5	5.2	5.0	4.5	3.7	4.9	4.6	150
165	-	-	-	4.7	4.5	-	3.9	4.1	4.1	3.5	4.4	4.3	1.9	3.5	4.3	165
180	-	-	-	-	-	-	3.1	3.4	-	2.0	3.0	-	-	1.7	2.6	180
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

Load chart data is for reference, load charts supplied in the crane cab shall be used for lift planning.

Tracks fully extended – 360° – Up to 0.5° slope – Folding jib

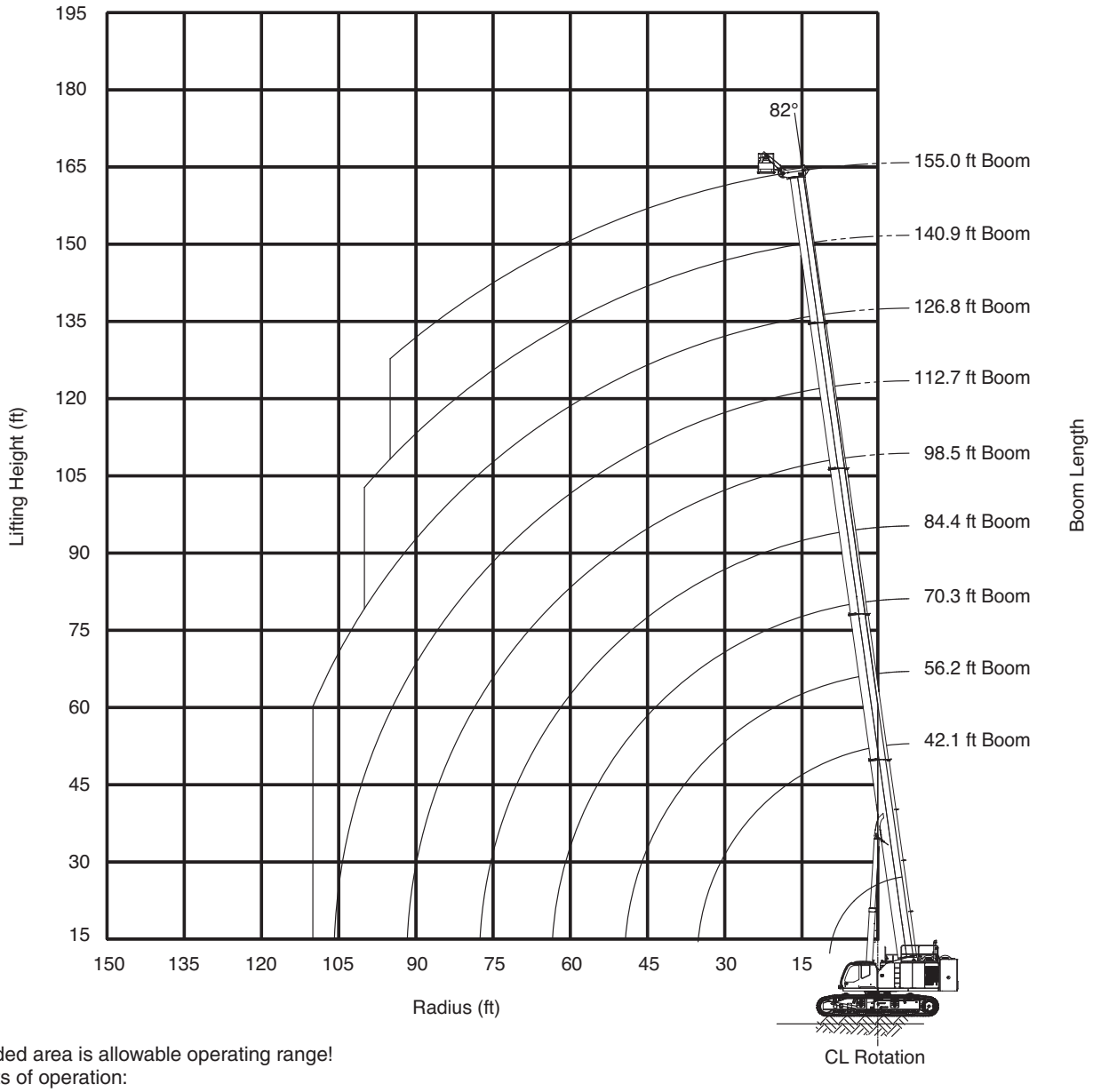
70,000 lb + 20,000 lb | 19'1" | 0.5° | 105.0 ft | 20 mph | 360° | ASME B30.5

	42.1 ft			112.7 ft			126.8 ft			140.9 ft			155.0 ft			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
ft	1,000 lb															ft
24	7.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24
26	7.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26
28	7.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28
30	7.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30
35	7.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35
40	7.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40
45	7.7	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	45
50	7.7	-	-	6.0	-	-	5.7	-	-	-	-	-	-	-	-	50
55	7.7	-	-	6.0	-	-	5.7	-	-	5.5	-	-	-	-	-	55
60	7.6	6.7	-	6.0	-	-	5.7	-	-	5.5	-	-	5.3	-	-	60
65	7.3	6.2	-	6.0	-	-	5.7	-	-	5.5	-	-	5.3	-	-	65
70	6.9	5.8	-	6.0	-	-	5.7	-	-	5.5	-	-	5.3	-	-	70
75	6.5	5.4	-	6.0	-	-	5.7	-	-	5.5	-	-	5.3	-	-	75
80	6.0	5.1	-	6.0	5.5	-	5.7	-	-	5.5	-	-	5.3	-	-	80
85	5.6	4.8	4.1	6.0	5.4	-	5.7	5.2	-	5.5	-	-	5.3	-	-	85
90	5.2	4.5	3.9	6.0	5.2	-	5.7	5.1	-	5.5	5.0	-	5.3	-	-	90
100	4.5	4.0	3.6	5.9	5.0	-	5.7	4.9	-	5.5	4.8	-	5.3	4.7	-	100
110	4.0	3.6	3.3	5.6	4.7	3.7	5.5	4.7	-	5.4	4.6	-	5.3	4.5	-	110
120	3.6	3.3	3.1	5.3	4.3	3.5	5.2	4.4	3.5	5.2	4.4	3.5	5.1	4.3	-	120
130	3.2	3.1	-	5.1	4.0	3.3	5.0	4.1	3.4	5.0	4.3	3.4	4.9	4.2	3.4	130
140	-	-	-	4.7	3.7	3.2	4.6	3.9	3.2	4.8	4.0	3.2	4.8	4.1	3.3	140
150	-	-	-	4.3	3.5	3.0	4.2	3.7	3.1	4.5	3.8	3.1	4.3	3.9	3.1	150
165	-	-	-	3.9	3.3	2.9	3.5	3.4	2.9	3.9	3.5	3.0	2.6	3.6	3.0	165
180	-	-	-	3.5	3.0	-	2.9	3.0	2.8	2.6	3.2	2.9	-	2.9	2.9	180
195	-	-	-	-	-	-	2.3	2.6	2.7	-	2.6	2.8	-	-	2.5	195
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

Load chart data is for reference, load charts supplied in the crane cab shall be used for lift planning.

Notes

WP750 Work platform

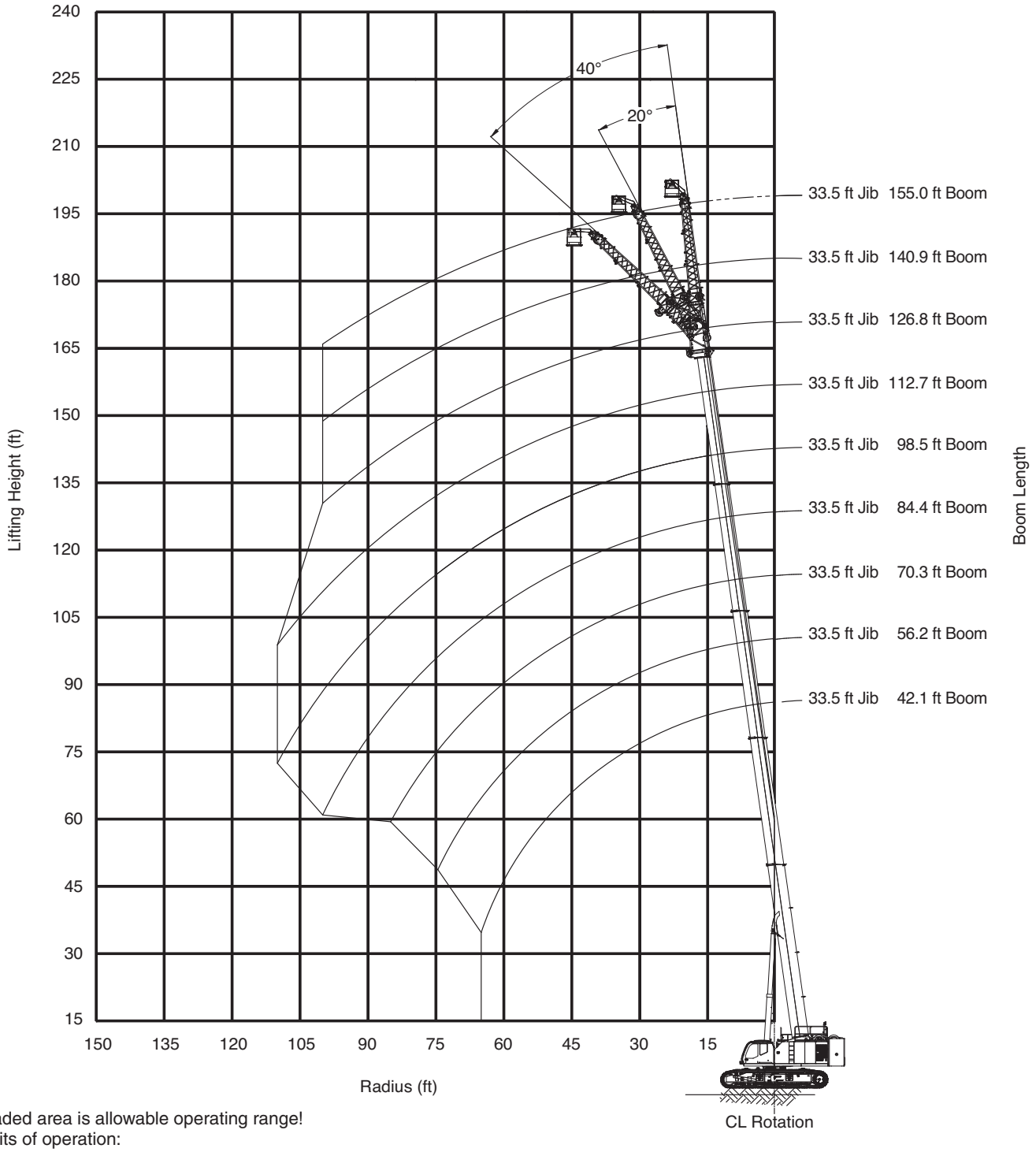


Shaded area is allowable operating range!
Limits of operation:
Max. load capacity = 750 lb · Max. radius when mounted on main boom = 110 ft · Max. occupancy = 2 persons

Notes:
1. It is permissible to leave the jibs stowed on the boom while operating with work platform mounted to the main boom.
2. The hook block(s) must be removed when using the work platform.

WARNING: Lifting a load during work platform operation is ***not*** allowed.
WARNING: Travelling the crane with person(s) in the work platform is ***not*** allowed.

WP750 Work platform



Shaded area is allowable operating range!
Limits of operation:
Max. load capacity = 750 lb · Max. radius when mounted on jib = 110 ft · Max. occupancy = 2 persons

Notes:
1. It is permissible to leave the jib section stowed on the boom while operating with work platform mounted to the 33.5 ft jib.
2. The hook block(s) must be removed when using the work platform.

WARNING: Lifting a load during work platform operation is ***not*** allowed.
WARNING: Travelling the crane with person(s) in the work platform is ***not*** allowed.

Notes to Lifting Capacity

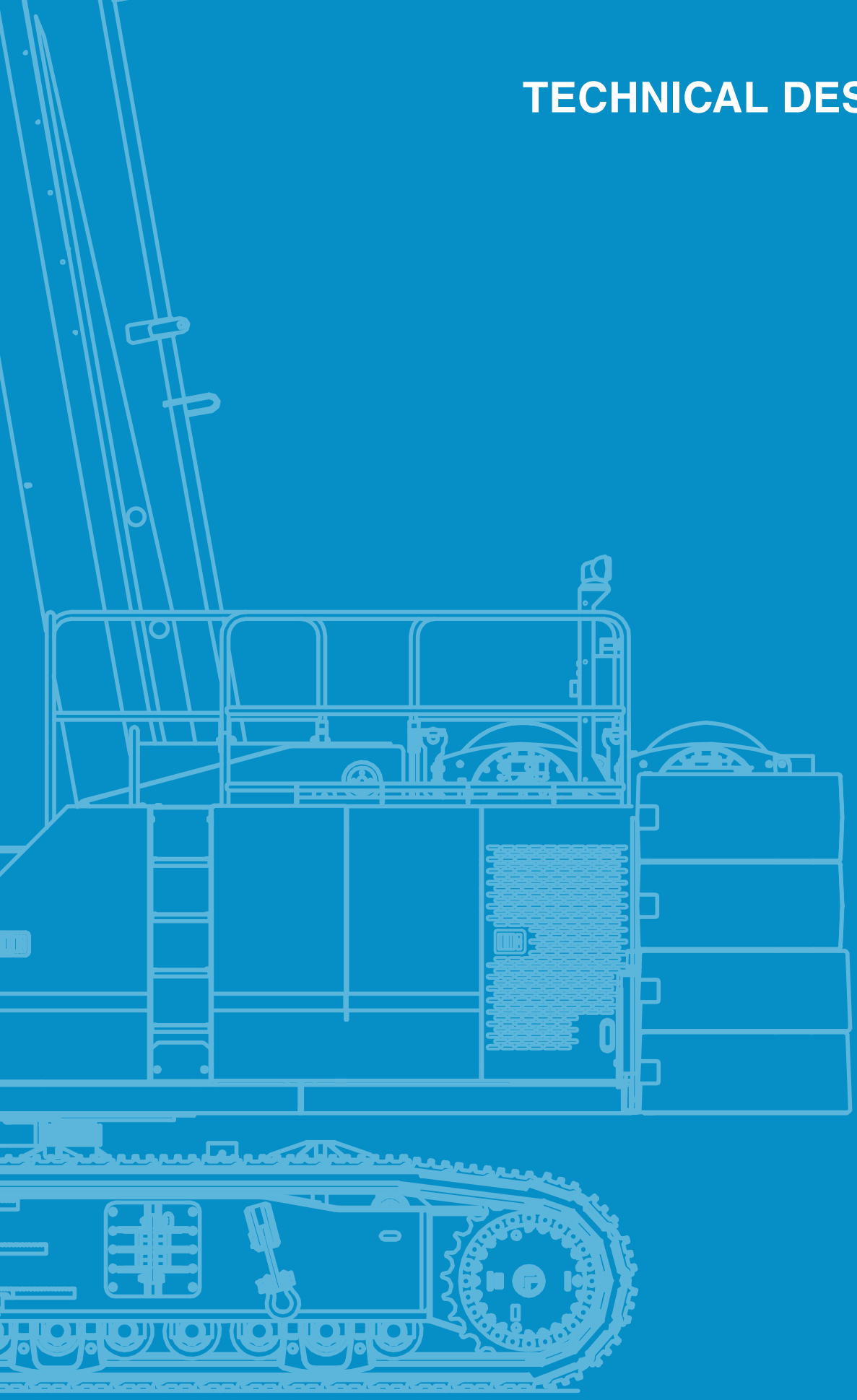
Definitions and Explanations

- Load capacity values in these charts are stated in lb x 1000.
- All ratings are for 360° of rotation unless otherwise specified on the chart.
- Load radius is defined as the horizontal distance from the axis of rotation (with no load) to the center of the lifting device after load is applied in feet (ft).
- Boom height dimensions are measured from ground to center of lower boom head sheave in feet (ft).
- Boom angle / boom length relationships given are an approximation of the resulting load radius, which should be an accurate measurement.
- Boom angle is the included angle between the longitudinal axis of the boom base section and the horizontal axis, after lifting load. The boom angle before lifting should be slightly greater than desired to account for boom deflection.
- Boom positions without rated loads in the charts are prohibited. These areas are indicated by an "*" and are susceptible to instability either in the forward direction or the backwards direction.
- It is acceptable to telescope boom with a load within the limits of rated capacities. However, boom angle, system hydraulic pressure, and/or boom lubrication may affect operation.
- Deduct the weight of the hook block, hook/ball, slings, spreader bar, or other suspended equipment from the listed rated capacities. This includes lifting accessories stowed on the boom such as jib, extension, and auger.
- Unless otherwise noted, travelling in low speed is allowed for all rated loads- reduce travel speed to minimize dynamic effects on the crane from swinging load, side loading, etc.
- This crane as originally manufactured meets the requirements of ASME B30.5 2014. Structure and stability have been tested in accordance with SAE J1063 and SAE J765.

Note

Data published herein is intended as a guide only and shall not be construed to warrant applicability for lifting purposes. Crane operation is subject to the computer charts and operation manual both supplied with the crane.

TECHNICAL DESCRIPTION



Technical Description

Crane specifications

Boom

5-section full power telescoping boom with 2 extension modes. System consists of three double acting hydraulic cylinders with load holding valves and extension and retraction cables.
Retracted length: 42' 1"
Extended length: 155' 0" Extension time: 200 s
Elevating angles: -2° to 82° Elevating time: 89 s
Boom head: Eight, 21.4 inch diameter cast nylon sheaves on heavy-duty roller bearings (6 load bearing and 2 lead in sheaves). Designed for quick reeving of head and load block.

Auxiliary boom head

Quick reeve, single 21.4 inch diameter high-strength, cast nylon sheave mounted on a heavy-duty roller bearing. Allows single or 2 part reeving.

Counterweight

6 piece counterweight design. Three upper counterweight configurations.
Configuration „A" = 23,350 lb
Configuration „B" = 46,700 lb
Configuration „C" = 70,000 lb
Two carbody counterweights, 10,000 lb each.

Winches

Planetary geared two-speed winch includes a hydraulic motor, multi-disc internal brake, counterbalance valve, grooved drum, cable follower, and 3rd wrap indicator. Drum rotation indicator is included (complete winch performance specs on page 20).

Main winch:
Rope diameter and length: 7/8" x 758 ft
Single line pull: 23,560 lb – first layer
Single line speed: 293 ft/min – 5th layer

Auxiliary winch:
Rope diameter and length: 7/8" x 613 ft
Single line pull: 23,560 lb – first layer
Single line speed: 293 ft/min – 5th layer

Travel

Each side frame contains a pilot controlled, two-speed track drive with hydraulic axial piston motor and parking brake. Travel system provides skid steering and counter rotation.
Travel speed: Low: 0.5 mph · High: 1.4 mph
Gradeability (unladen): 70%

Swing

Closed loop hydrostatic transmission with electronic displacement controlled piston pump. Operator selectable modes allow for either free swing with counter-swing or closed loop swing. Swing motor drives planetary gear reducer with a shaft mounted pinion, external gear shear ball slew bearing bolted to the superstructure and the carbody allows the superstructure to rotate 360°.
Swing speed: 0 - 1.5 rpm.
Swing parking brake: Spring applied failsafe brake with hydraulic release that is controlled from the operators cab.
Swing service brake: Hydraulically applied, controlled through foot actuated pedal.
House lock system: 4-position house lock (boom over front, rear or either side). Actuated from the operator's cab.

Load moment indicator

TADANO AML-C rated capacity limiter and anti-two block system:
OPTI-WIDTH™ – OPTIMAL lifting performance at any track WIDTH.
Control function shutdown. Audible and visual warnings.
LCD screen provides a continuous display of working boom length, boom angle, working load radius, tip height, swing position, parts-of-line (operator set), machine track configuration, relative load moment, maximum permissible load and actual load.
Anti-two block weight allows quick reeving of hook block.
Operator configurable working range limits with automatic soft stop.

Frame

The frame is an all-steel, welded structure, precision machined to accept attachment of the boom and swing components.

Operators cab

Fully-enclosed, air conditioned all-steel modular cab with lockable sliding door, acoustical lining, anti-slip floor and tinted safety glass.
Cab tilts 20°. Rear view, winch view, and right side view cameras are appropriately located as are three remote control work lights. Grab bars and steps are located for easy access to the cab. Defroster, heater, circulating fan. 2-speed windshield wiper, top glass wiper. Six-way adjustable fabric seat with headrest, seat belt. Dome light. Dry-chemical fire extinguisher. Four-way electronic armrest mounted joysticks control swing, main winch, auxiliary winch, boom extend, and boom hoist. Electronic foot pedals control the travel. Hydraulic brake pedal controls swing service brake function. Selectable modes for fine control and travel (using hand control for crane travel). Seat termination switch immediately disable all hydraulic functions as the operator rises from the seat. Functions can also be disabled by switch on console. Dash instrumentation: tachometer, hour meter, fuel gauge, and DEF level gauge. Indicators are provided for crane level, swing position, load moment, drum rotation, air filter restriction, engine oil temperature and pressure, hydraulic oil temperature and level, and hydraulic and air filter restriction, and low voltage.

Technical Description

Crane specifications

Engine	Make/Model: Cummins QSL9 · Type: 6 cylinder, water cooled, 4 cycle · Aspiration: turbocharged and aftercooled · Max. output: 350 HP (261 kW)@2100 rpm · Max. torque: 1,201 lb-ft (1,628 Nm)@1500 rpm · Piston disp: 8.9 l · Emission Cert: U.S. EPA Tier 4f, Euromot Stage IV · Alternator: 70 amp. · Throttle control by: accelerator pedal, auto-idle, or adaptive throttle.
Electrical system	24 VDC.
Fuel system	Capacity: 125 gallons. Filtration: Inline fuel/water separator and engine mounted fuel filter.
Side frames	Two welded steel side frames are paired with a track group. The side frames extend and retract hydraulically and are controlled from the cab. Track rollers: Two top and fourteen bottom sealed rollers on each track frame Idler: Oil filled, self lubricating with nitrogen type tensioner. Track shoes: 36 inch, 3-bar semi grouser.
Hydraulic system	Hydraulic pumps: Two high pressure, variable axial piston pumps with load sense and power limiting control for crane functions. One axial piston pump for swing function. Directional valves: Multiple pressure and flow compensated valves with integrated relief valves controlled by electrical signals. Pump output: 222 gpm@2100 rpm engine speed. 5,000 psi maximum pressure. Reservoir: 366 gallons capacity, filler breather cap, sight gauge, cleanout, and sump drain. Filtration: Three 5 micron, full flow tank mounted return filters with electrical clogging indicator. 2 micron pilot oil in-line pressure filter. Diagnostic ports: Provided for system, load sense, and pilot pressure.

Optional equipment

Jibs	Heavy lift jib: Total length: 12.5 ft	Max. lifting height: 166.5 ft	Offset angles: 20° and 40°
	Main jib: Total length: 33.5 ft	Max. lifting height: 187 ft	Offset angles: 20° and 40°
	Fly jib: Total length: 59.1 ft	Max. lifting height: 213 ft	Offset angles: 20° and 40°
	Long jib: Total length: 105 ft	Max. lifting height: 259 ft	Offset angles: 20° and 40°
Hook blocks	130 ton quick reeve hook block – six, 18 inch steel sheaves, swivel hook and safety latch. 99 ton quick reeve hook block – five, 18 inch steel sheaves, swivel hook and safety latch. 70 ton quick reeve hook block – three, 18 inch steel sheaves, swivel hook and safety latch. 27 ton quick reeve hook block – one, 18 inch steel sheave, swivel hook and safety latch.		
Overhaul ball	13.8 ton with swivel hook and safety latch.		
360° house lock	Actuated from the operator's cab.		
Track shoes	36 inch flat shoe.		
Tool circuit	Provides 5 gpm and 10 gpm@2,500 psi through a 50 ft twin hose reel with quick disconnect fittings to operate open center tools.		
High flow tool circuit	Provides 45 gpm@4800 psi.		
Free fall hoists	Winches are available in controlled free fall configurations.		
Cold weather packages	Cold weather options are available for operation to -40°C (consult factory for application support).		
Work platform	Model WP750 – 36 in. x 72 in., all steel, welded, two person platform with maximum capacity of 750 lb.		
Full function radio remote control package			
Boom mounted anemometer with cab display			
Automatic central lubrication system			

Notes

Notes

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Reaching new heights

TADANO