

GTC-700

70 US TON MAX. CRANE CAPACITY





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Key



- 

Counterweight
- 

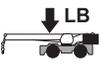
Radius
- 

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
- 

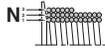
Rope length
- 

Rope
- 

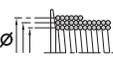
Hook block
- 

Number of lines
- 

Assembly weight
- 

Transport variant
- 

Wire rope layer
- 

Total wire rope
- 

Winch layer diameter
- 

Wind speed in mph

Highlights



118.1' full power boom; 8.2' to 58.1' jib (tiltable from 3.5° to 45°)

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 19 mm rope

Remote control for all rigging operations standard

Full crane operation remote optional

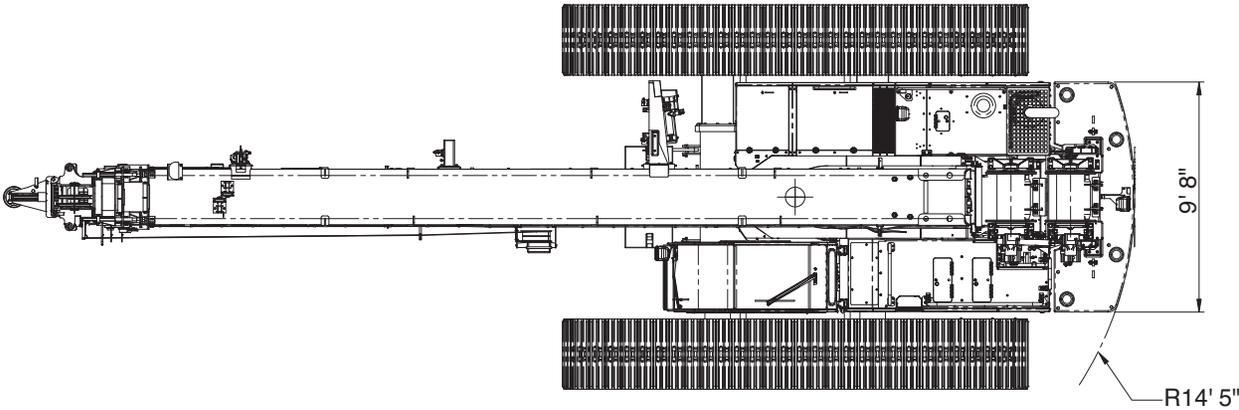
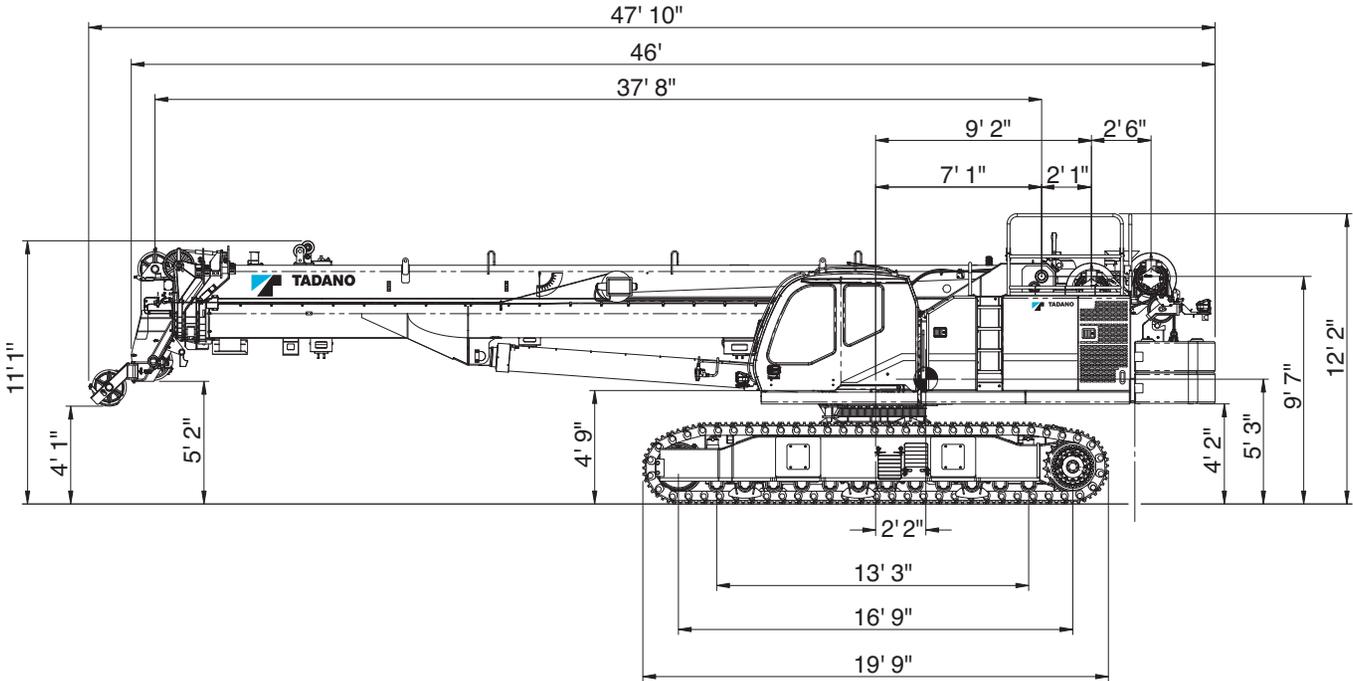
Best in class gradeability at 78 %

SPECIFICATIONS



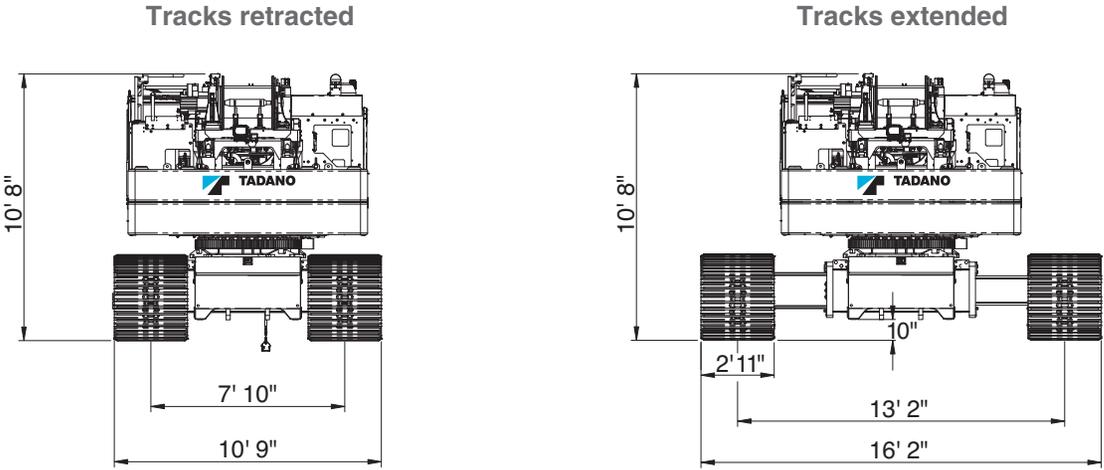
Specifications

Vehicle dimensions



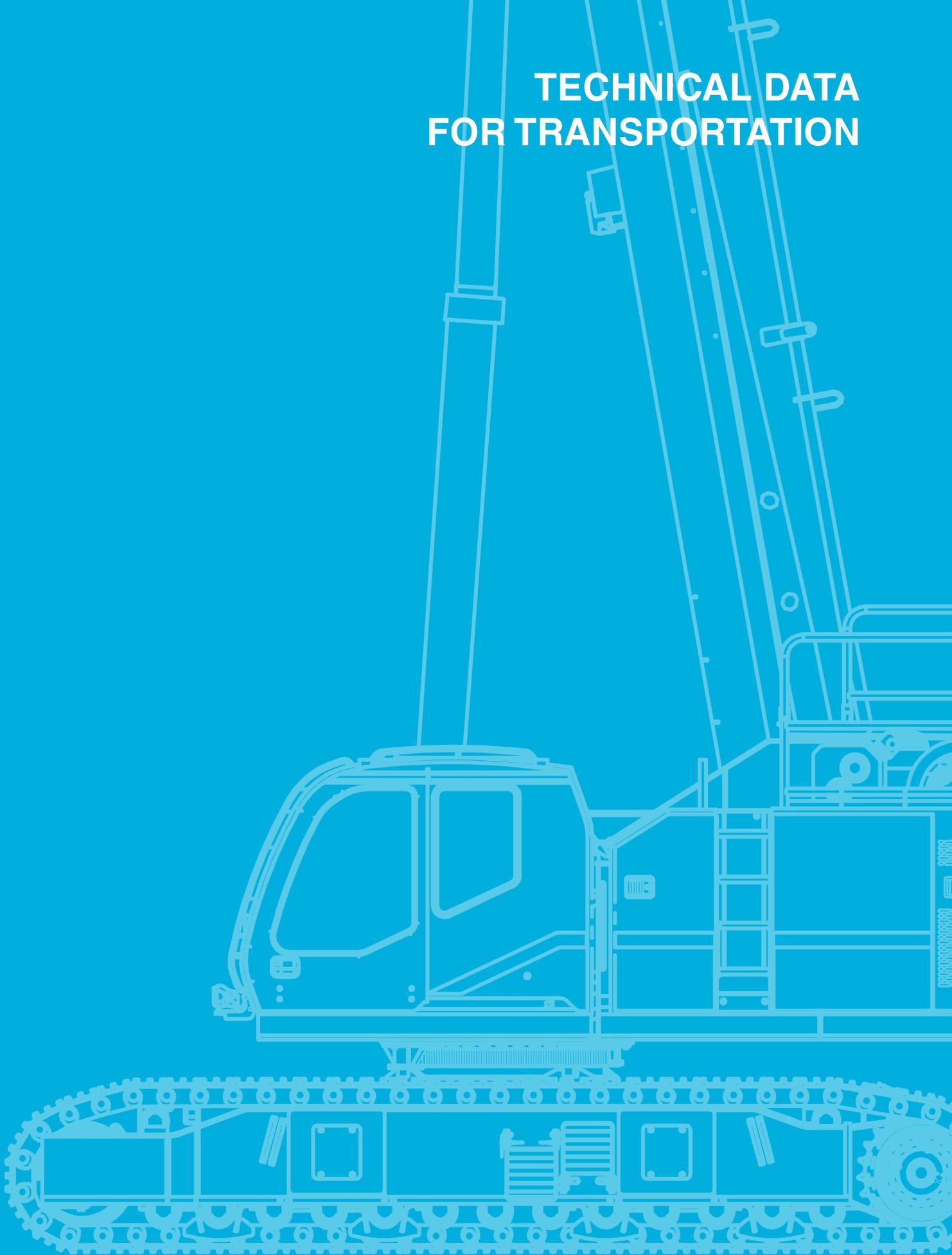
Specifications

Vehicle dimensions



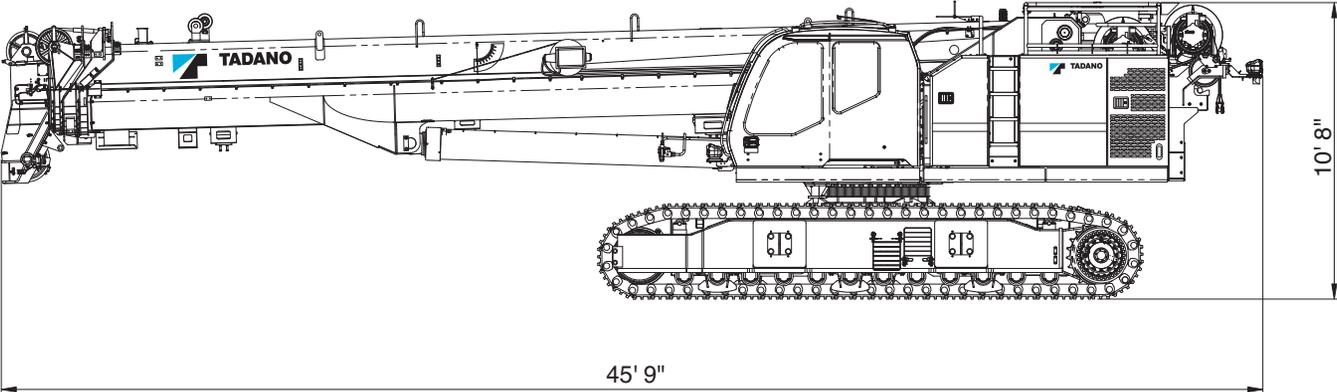
General dimensions	
Overall length	46'
Overall width (tracks extended)	16' 2"
Overall width (tracks retracted)	10' 9"
Overall height (working)	12' 2"

TECHNICAL DATA FOR TRANSPORTATION



Transportation

Transport dimensions



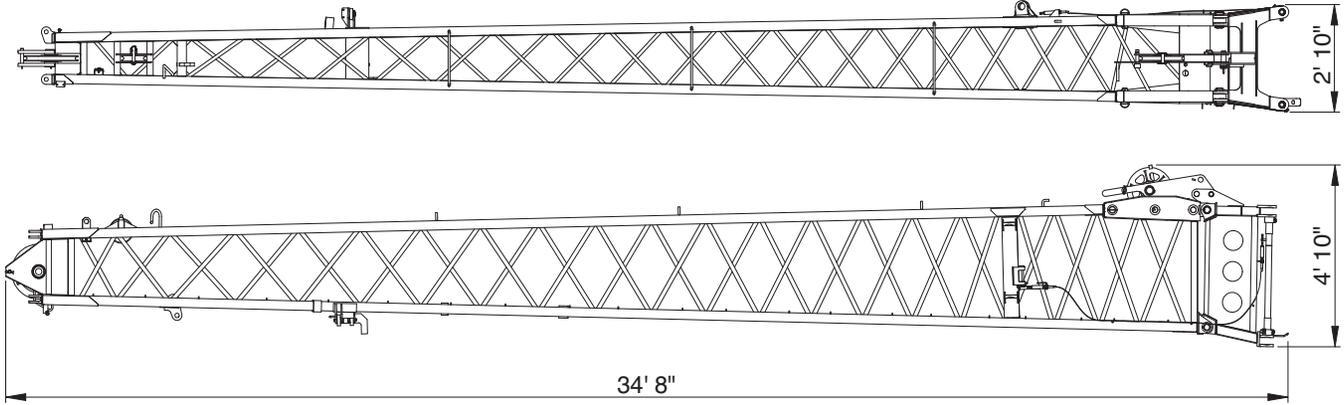
Transportation

Transport plan				
	lb	Dimensions L x W x H		
			1	2
Crane (with 2 winches, boom, wire rope, aux. nose sheave)	92,390	45' 1" x 10' 9" x 10' 9"	X	
Counterweight A - 1 piece	15,000	9' 8" x 3' 8" x 3' 5"		X
Counterweight B - 1 piece	15,000	9' 8" x 1' 6" x 3' 5"		X
Counterweight - Carbody - 1 piece	6,613	4' 3" x 3' 2" x 2' 5"		X
Counterweight - Carbody - 1 piece	6,613	4' 3" x 4' 9" x 2' 6"		X
Jib base section	2,030	34' 8" x 4' 10" x 3' 0"	X	
Jib point	750	25' 9" x 2' 5" x 2' 5"	X	
Hook block - 70 ton	1,200	5' 2" x 2' 0" x 1' 6"	X	
Overhaul ball - 8.8 ton	440	2' 5" x 0' 11" x 0' 11"	X	
Miscellaneous items (crate)	50	4' 0" x 3' 0" x 3' 0"	X	
Total net weight on trailer			96,860 lb	43,226 lb

Transportation

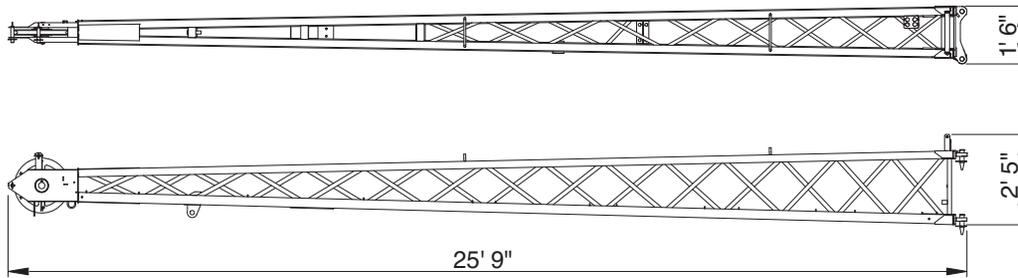
Transport dimensions

Extension 33' 3"



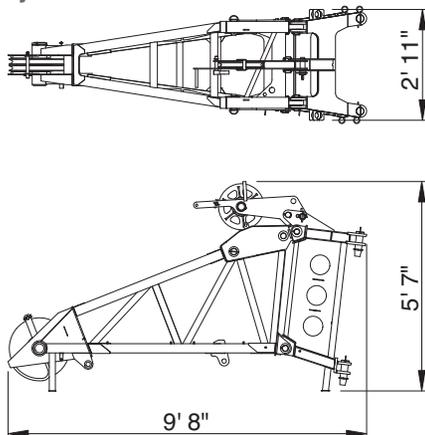
lb
2,030

Jib point 24' 8"



lb
750

Heavy lift jib 8' 2"

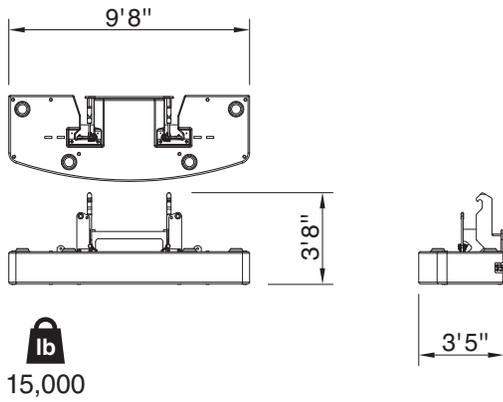


lb
972

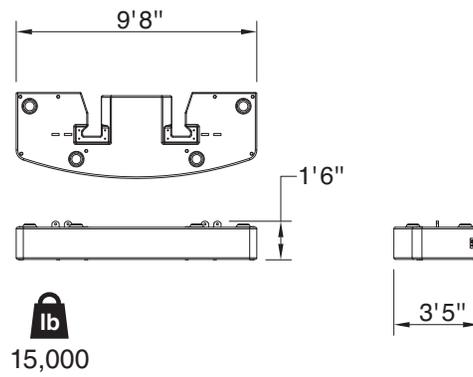
Transportation

Transport dimensions

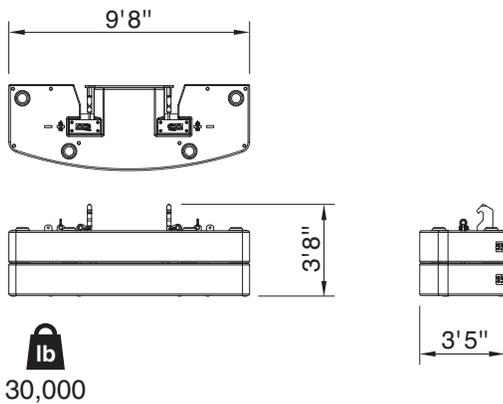
Configuration „A“



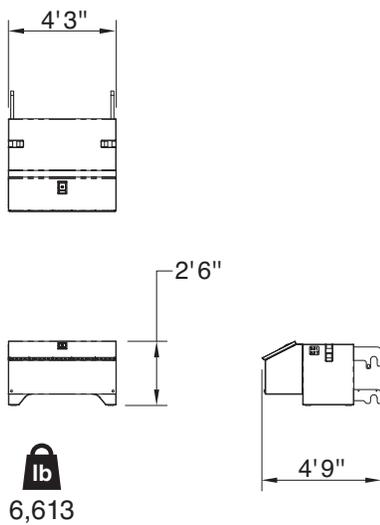
Counterweight „B“ section



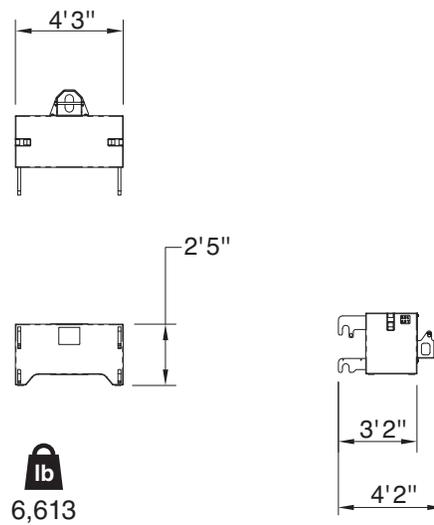
Configuration „B“



Rear carbody counterweight



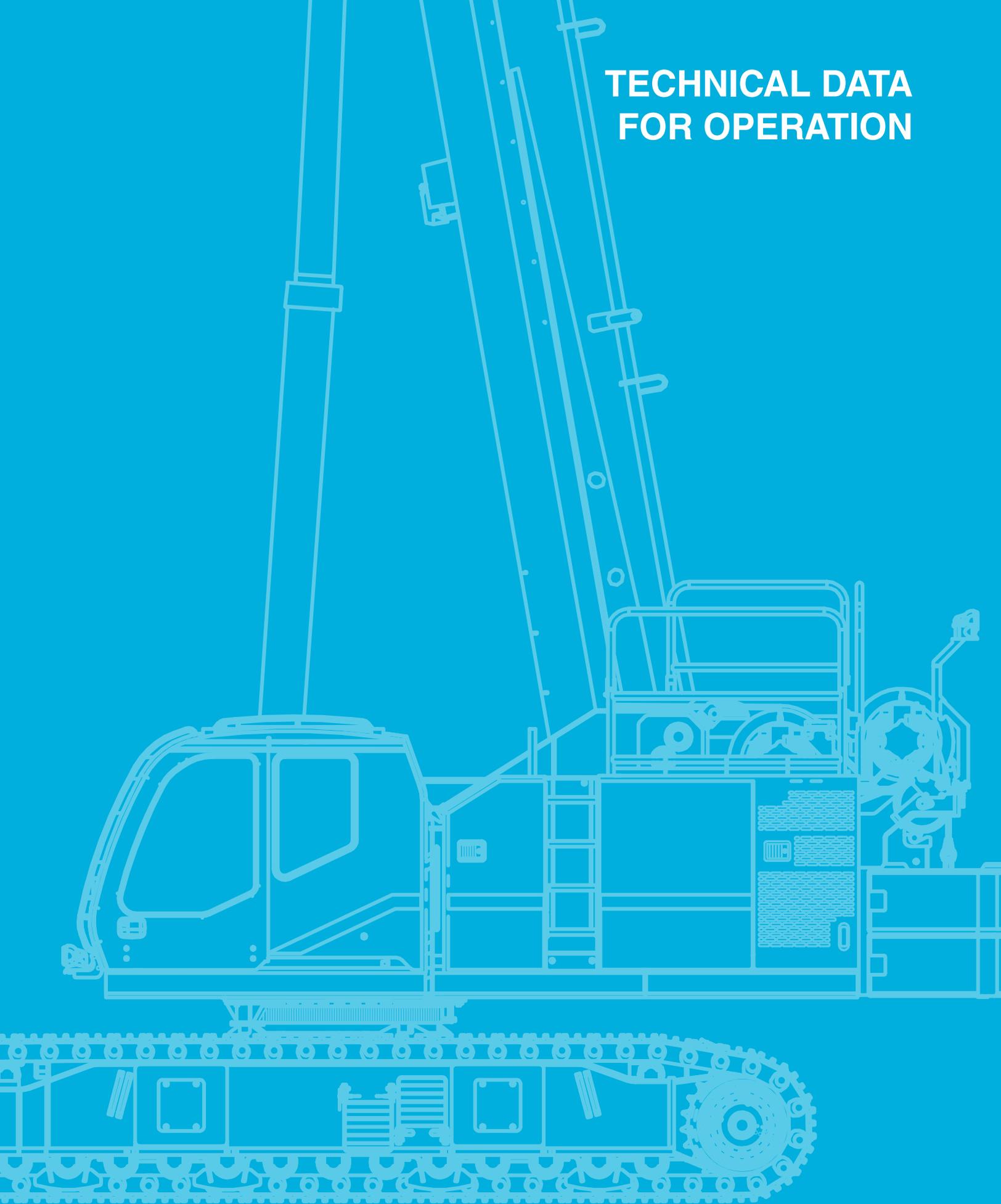
Front carbody counterweight



Transportation

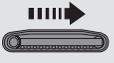
Machine weights		
	Standard equipment package	140,086 lb
	Upper	30,000 lb
	Carbody	13,226 lb
Standard Crane		
with 4 section - 118.1' boom, full counterweight, 2 winches with wire rope, bi-fold jib, auxiliary nose sheave and 35.4" 3-bar semi grouser track shoes		140,086 lb
Standard Crane		
with 4 section - 118.1' boom, 2 winches with wire rope, auxiliary nose sheave and 35.4" 3-bar semi grouser track shoes (counterweight removed)		96,860 lb
Optional Equipment		
Heavy lift jib: 8.2 ft		972 lb
Jib base: 33.1 ft		2,030 lb
Jib tip: 24.67 ft		750 lb
Auxiliary nose sheave		105 lb
	70 ton	1,200 lb
	60 ton	1,395 lb
	27.5 ton	655 lb
	8.8 ton	295 lb

TECHNICAL DATA FOR OPERATION

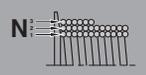
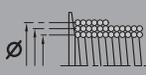
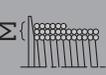


Operation

Speeds and gradeability

	0.8 mph / 2.3 mph		78 %
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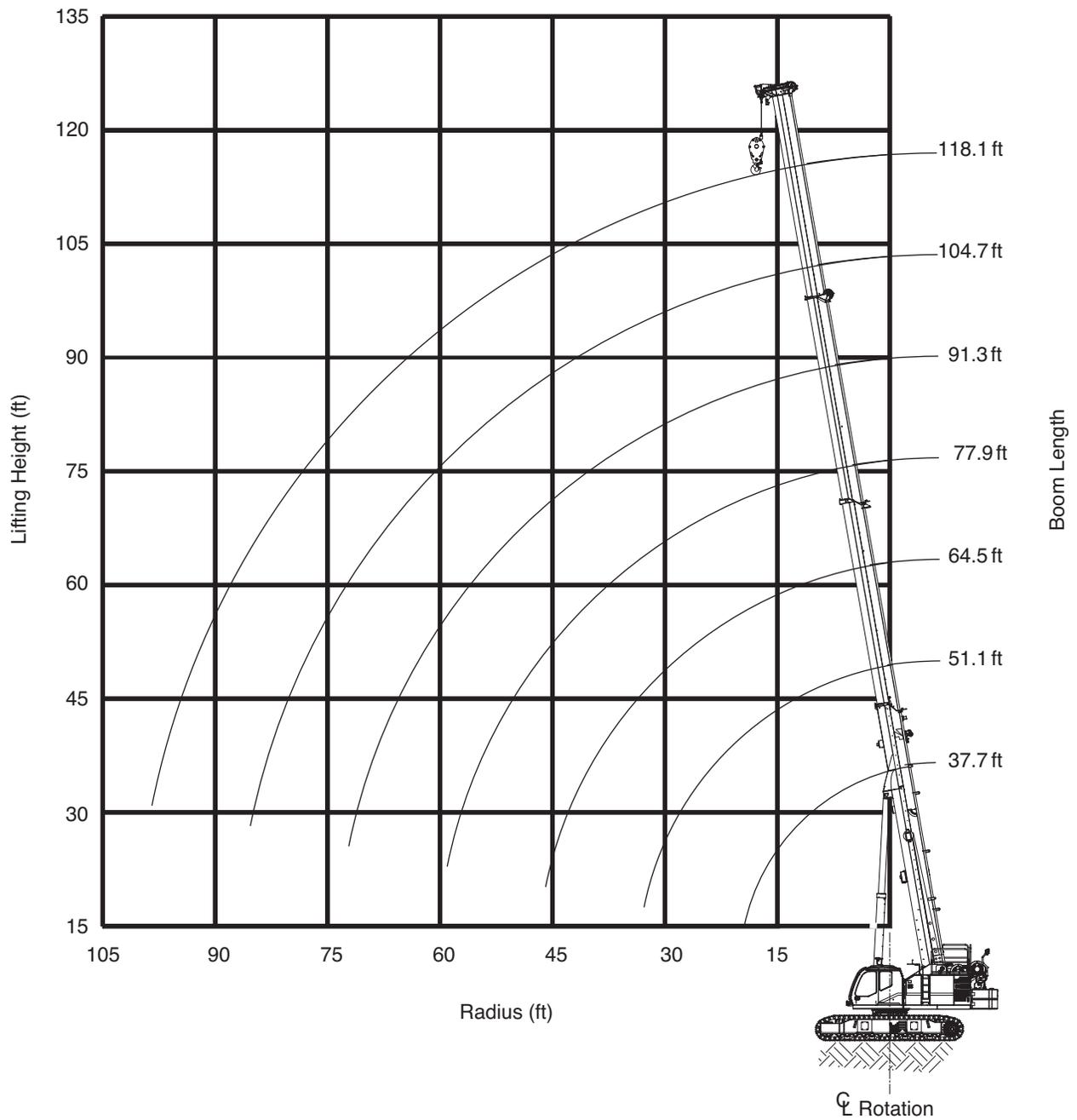
Main winch and auxiliary winch performance

						
1	19,828 lb	290.3 ft/min.	172.5 ft/min.	15.0 in.	112.2 ft	112.2 ft
2	17,962 lb	316.2 ft/min.	187.9 ft/min.	16.6 in.	122.3 ft	234.5 ft
3	16,411 lb	342.1 ft/min.	203.7 ft/min.	18.2 in.	132.2 ft	366.7 ft
4	15,107 lb	368.0 ft/min.	219.1 ft/min.	19.7 in.	142.4 ft	509.1 ft
5	14,006 lb	394.3 ft/min.	234.5 ft/min.	21.3 in.	152.2 ft	661.2 ft
6	13,039 lb	420.2 ft/min.	249.9 ft/min.	22.9 in.	162.4 ft	823.6 ft

Wire Rope: 19 mm diameter rotation resistant. Line pulls are not based on wire rope strength.

Operation

Hook blocks					
					
1	17,153	8.8-0-19	5	295	7.6 ft
2	34,306	27.5-1-19	5	771	10.0 ft
3	51,459	27.5-1-19	5	771	10.0 ft
4	68,612	60-3-19	5	1,410	10.0 ft
5	85,765	60-3-19	5	1,410	10.0 ft
6	102,918	60-3-19	5	1,410	10.0 ft
7	120,071	60-3-19	5	1,410	10.0 ft
8	137,224	70-6-19	5	1,433	10.3 ft
9	154,377	70-6-19	5	1,433	10.3 ft
10	171,530	70-6-19	5	1,433	10.3 ft



Operation

MB

30,000 lb + 13,200 lb		16'2"				20 mph				360°				ASME B30.5
37.7 ft					51.1 ft				64.5 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	140.0	140.0	140.0	130.2	115.5	115.5	115.5	96.0	78.8	78.8	78.8	77.0	10	
12	121.6	121.6	121.6	121.6	115.5	115.5	115.5	96.0	77.6	77.6	77.6	77.0	12	
15	96.7	96.7	96.7	90.3	95.8	95.8	94.0	80.5	76.1	76.1	76.1	72.8	15	
20	70.9	69.7	65.9	60.7	70.0	66.4	61.4	54.9	69.4	63.6	57.8	50.5	20	
25	52.0	49.9	48.0	45.3	50.5	47.5	44.7	41.0	49.4	45.6	42.3	37.9	25	
30	39.5	38.6	37.6	36.3	38.1	37.3	36.9	34.5	37.2	36.1	36.1	33.4	30	
35	-	-	-	-	32.3	31.1	30.0	28.4	32.7	31.1	29.6	27.6	35	
40	-	-	-	-	26.6	25.8	25.1	24.1	27.0	25.9	24.8	23.3	40	
45	-	-	-	-	-	-	-	-	22.8	22.0	21.2	20.1	45	
50	-	-	-	-	-	-	-	-	19.5	19.0	18.4	17.6	50	
55	-	-	-	-	-	-	-	-	17.0	16.6	16.2	15.7	55	

77.9 ft					91.3 ft				104.7 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
10	38.6	38.6	38.6	38.6	-	-	-	-	-	-	-	-	10	
12	38.6	38.6	38.6	38.6	-	-	-	-	-	-	-	-	12	
15	37.1	37.1	37.1	37.1	36.4	36.4	36.4	36.4	-	-	-	-	15	
20	37.1	37.1	37.1	37.1	36.2	36.2	36.2	36.2	34.5	34.5	34.5	31.4	20	
25	37.1	37.1	37.1	37.1	36.1	36.1	36.1	36.1	34.2	34.2	34.2	31.4	25	
30	37.1	35.5	33.0	30.6	36.1	35.5	32.7	29.0	33.9	33.7	32.2	28.2	30	
35	30.3	29.6	28.8	26.8	30.8	28.5	26.5	23.9	31.1	28.5	26.3	23.4	35	
40	27.3	25.9	24.5	22.7	25.2	23.6	22.1	20.0	25.5	23.7	22.0	19.8	40	
45	23.0	22.0	21.0	19.6	21.0	19.8	18.7	17.1	21.4	20.0	18.7	16.9	45	
50	19.8	19.0	18.2	17.1	17.8	16.9	16.0	14.7	18.2	17.1	16.0	15.4	50	
55	17.2	16.6	16.0	15.1	15.3	14.5	13.8	12.9	15.6	15.2	14.8	13.8	55	
60	15.1	14.6	14.2	13.5	13.2	12.6	12.2	11.9	14.3	13.9	13.2	12.3	60	
65	13.4	13.1	12.7	12.2	11.7	11.5	11.3	11.1	12.9	12.3	11.7	10.9	65	
70	12.0	11.8	11.6	11.2	10.8	10.7	10.5	10.4	11.4	10.9	10.4	9.8	70	
75	-	-	-	-	10.1	10.0	9.9	9.7	10.2	9.8	9.4	8.8	75	
80	-	-	-	-	9.4	9.3	9.3	9.0	9.1	8.8	8.4	8.0	80	
85	-	-	-	-	-	-	-	-	8.2	7.9	7.6	7.2	85	
90	-	-	-	-	-	-	-	-	7.4	7.1	6.9	6.6	90	
95	-	-	-	-	-	-	-	-	6.7	6.5	6.3	6.1	95	

118.1 ft					
0.5° 1.5° 2.5° 4°					
ft	1,000 lb				ft
20	29.8	29.8	28.8	25.3	20
25	29.8	29.4	27.8	25.3	25
30	27.6	26.2	24.9	23.3	30
35	24.6	23.5	22.5	21.2	35
40	22.2	21.3	20.5	19.4	40
45	20.2	19.4	18.8	16.9	45
50	18.5	17.4	16.2	14.7	50
55	16.1	15.1	14.2	12.9	55
60	14.0	13.2	12.4	11.4	60
65	12.3	11.6	11.0	10.1	65
70	10.8	10.3	9.7	9.0	70
75	9.6	9.1	8.6	8.0	75
80	8.5	8.1	7.7	7.1	80
85	7.6	7.2	6.9	6.4	85
90	6.8	6.5	6.2	5.8	90
95	6.0	5.8	5.6	5.2	95
100	5.4	5.2	5.0	4.7	100
105	4.9	4.7	4.5	4.3	105
110	4.3	4.2	4.1	3.9	110

Operation

MB

15,000 lb + 13,200 lb		16'2"				20 mph				360°				ASME B30.5	
37.7 ft		51.1 ft				64.5 ft									
0.5°		1.5°		2.5°		4°		0.5°		1.5°		2.5°		4°	
ft	1,000 lb													ft	
10	-	129.6	129.6	129.6	-	115.5	115.5	96.0	-	78.8	78.8	77.0	10		
12	-	107.7	107.7	98.3	-	106.8	104.8	85.0	-	77.6	77.6	75.0	12		
15	-	85.4	79.9	70.5	-	82.2	73.2	62.4	-	76.1	67.7	56.2	15		
20	-	54.1	51.0	46.8	-	51.2	47.2	42.1	-	48.9	44.2	38.4	20		
25	-	38.3	36.7	34.5	-	37.3	36.5	33.4	-	36.1	35.8	32.1	25		
30	-	29.2	28.5	27.4	-	29.6	28.2	26.3	-	29.7	27.9	25.5	30		
35	-	-	-	-	-	23.6	22.7	21.4	-	23.7	22.5	20.9	35		
40	-	-	-	-	-	19.4	18.8	17.9	-	19.5	18.7	17.5	40		
45	-	-	-	-	-	-	-	-	-	16.4	15.8	14.9	45		
50	-	-	-	-	-	-	-	-	-	14.0	13.5	12.9	50		
55	-	-	-	-	-	-	-	-	-	12.1	11.8	11.4	55		

77.9 ft		91.3 ft				104.7 ft									
0.5°		1.5°		2.5°		4°		0.5°		1.5°		2.5°		4°	
ft	1,000 lb													ft	
10	-	38.6	38.6	38.6	-	-	-	-	-	-	-	-	-	10	
12	-	38.6	38.6	38.6	-	-	-	-	-	-	-	-	-	12	
15	-	37.1	37.1	37.1	-	36.4	36.4	36.4	-	-	-	-	15		
20	-	37.1	37.1	37.1	-	36.2	36.2	35.8	-	34.5	34.5	31.4	20		
25	-	35.2	33.6	30.9	-	35.1	31.7	27.3	-	34.2	31.1	26.5	25		
30	-	29.5	27.4	24.7	-	26.9	24.6	21.6	-	26.9	24.4	22.3	30		
35	-	23.7	22.3	20.3	-	21.3	19.7	18.6	-	22.1	20.9	18.5	35		
40	-	19.6	18.5	17.1	-	18.1	17.5	16.8	-	18.7	17.4	15.5	40		
45	-	16.5	15.7	14.6	-	16.3	15.7	14.4	-	15.7	14.7	13.2	45		
50	-	14.1	13.4	12.6	-	14.3	13.5	12.5	-	13.4	12.5	11.4	50		
55	-	12.2	11.7	11.0	-	12.3	11.8	10.9	-	11.5	10.8	9.9	55		
60	-	10.6	10.2	9.7	-	10.8	10.3	9.6	-	9.9	9.4	8.6	60		
65	-	9.3	9.1	8.6	-	9.5	9.1	8.5	-	8.7	8.2	7.6	65		
70	-	8.3	8.1	7.9	-	8.4	8.0	7.6	-	7.6	7.2	6.6	70		
75	-	-	-	-	-	7.4	7.2	6.8	-	6.6	6.3	5.9	75		
80	-	-	-	-	-	6.7	6.5	6.2	-	5.8	5.6	5.2	80		
85	-	-	-	-	-	-	-	-	-	5.1	4.9	4.6	85		
90	-	-	-	-	-	-	-	-	-	4.5	4.4	4.1	90		
95	-	-	-	-	-	-	-	-	-	4.0	3.9	3.7	95		

118.1 ft		0.5°		1.5°		2.5°		4°					
ft	1,000 lb										ft		
20	-	29.8	28.8	25.3									20
25	-	29.4	27.8	25.3									25
30	-	26.2	24.0	20.8									30
35	-	21.7	19.8	17.2									35
40	-	17.9	16.4	14.4									40
45	-	14.9	13.8	12.2									45
50	-	12.6	11.7	10.4									50
55	-	10.8	10.0	9.0									55
60	-	9.3	8.6	7.8									60
65	-	8.0	7.5	6.7									65
70	-	6.9	6.5	5.9									70
75	-	6.0	5.6	5.1									75
80	-	5.2	4.9	4.4									80
85	-	4.5	4.2	3.8									85
90	-	3.9	3.7	3.3									90
95	-	3.3	3.1	2.7									95
100	-	2.7	2.5	2.2									100
105	-	2.2	2.1	1.8									105
110	-	1.8	1.7	1.5									110

Operation

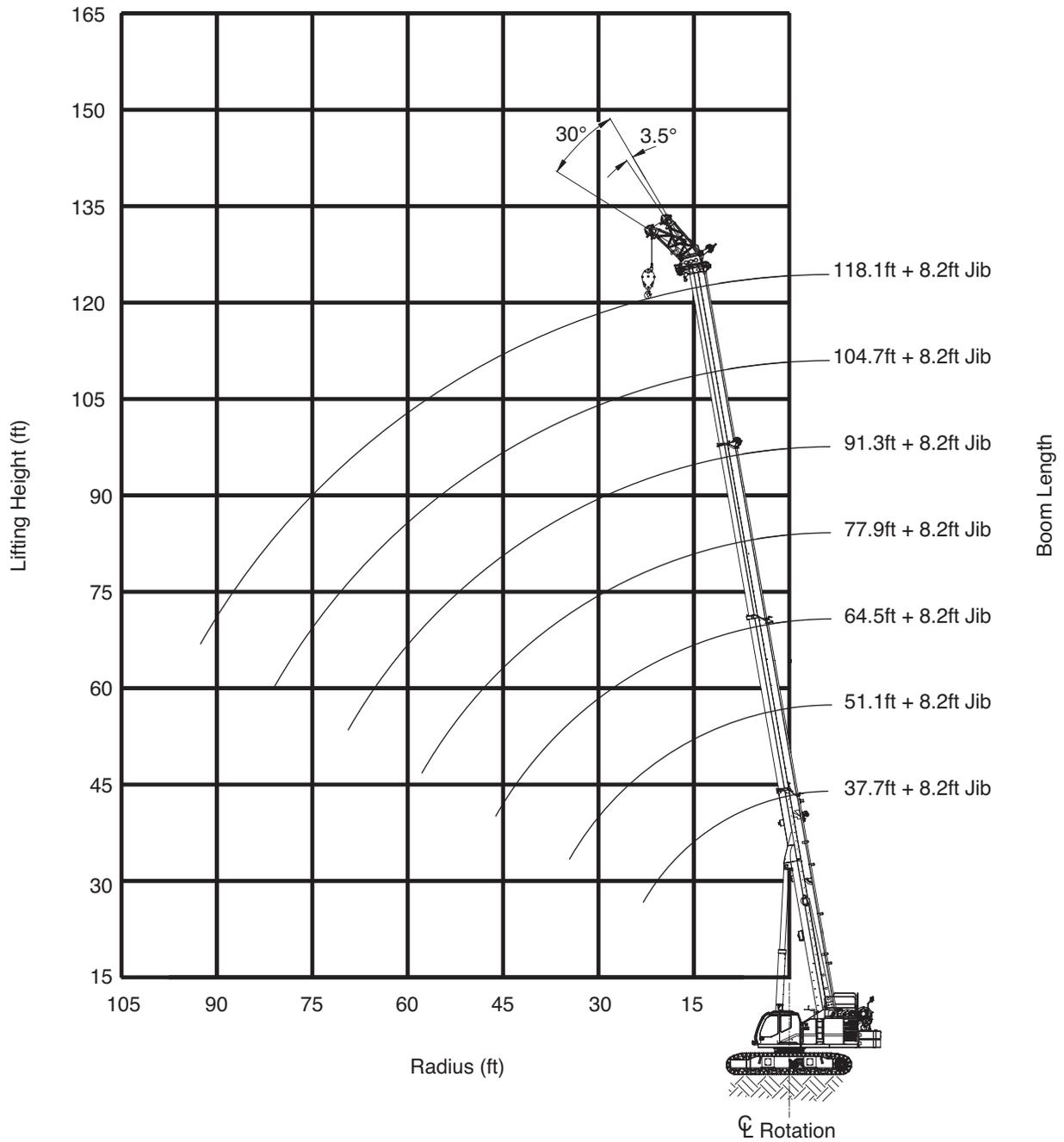
MB

0 lb + 13,200 lb		16'2"				20 mph				360°				ASME B30.5
37.7 ft		51.1 ft				64.5 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	-	113.0	113.0	-	-	112.2	102.4	-	-	78.8	78.8	-	10	
12	-	93.7	85.0	-	-	89.4	75.8	-	-	77.6	66.4	-	12	
15	-	63.2	57.5	-	-	59.1	52.3	-	-	55.6	48.1	-	15	
20	-	38.3	36.0	-	-	37.3	35.7	-	-	36.1	34.8	-	20	
25	-	26.6	25.4	-	-	27.3	25.6	-	-	27.4	25.3	-	25	
30	-	19.8	19.2	-	-	20.5	19.4	-	-	20.7	19.4	-	30	
35	-	-	-	-	-	16.0	15.3	-	-	16.3	15.3	-	35	
40	-	-	-	-	-	12.8	12.4	-	-	13.1	12.5	-	40	
45	-	-	-	-	-	-	-	-	-	10.8	10.3	-	45	
50	-	-	-	-	-	-	-	-	-	9.0	8.6	-	50	
55	-	-	-	-	-	-	-	-	-	7.5	7.3	-	55	

77.9 ft		91.3 ft				104.7 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
10	-	38.6	38.6	-	-	-	-	-	-	-	-	-	10
12	-	38.6	38.6	-	-	-	-	-	-	-	-	-	12
15	-	37.1	37.1	-	-	36.4	36.4	-	-	-	-	-	15
20	-	34.6	33.8	-	-	33.4	29.5	-	-	31.6	29.2	-	20
25	-	27.2	24.8	-	-	24.5	24.4	-	-	25.0	22.4	-	25
30	-	20.7	19.2	-	-	20.8	19.0	-	-	19.6	17.7	-	30
35	-	16.4	15.3	-	-	16.5	15.3	-	-	15.5	14.1	-	35
40	-	13.3	12.5	-	-	13.5	12.5	-	-	12.5	11.5	-	40
45	-	10.9	10.3	-	-	11.2	10.4	-	-	10.3	9.5	-	45
50	-	9.1	8.7	-	-	9.4	8.8	-	-	8.5	7.9	-	50
55	-	7.7	7.3	-	-	7.9	7.5	-	-	7.1	6.6	-	55
60	-	6.5	6.3	-	-	6.7	6.4	-	-	6.0	5.5	-	60
65	-	5.6	5.4	-	-	5.8	5.5	-	-	5.0	4.7	-	65
70	-	4.9	4.7	-	-	5.0	4.7	-	-	4.2	3.9	-	70
75	-	-	-	-	-	4.3	4.1	-	-	3.5	3.2	-	75
80	-	-	-	-	-	3.7	3.5	-	-	2.8	2.6	-	80
85	-	-	-	-	-	-	-	-	-	2.2	2.0	-	85
90	-	-	-	-	-	-	-	-	-	1.6	1.5	-	90
95	-	-	-	-	-	-	-	-	-	1.2	1.0	-	95

118.1 ft					
	0.5°	1.5°	2.5°	4°	
ft	1,000 lb				ft
20	-	29.8	26.0	-	20
25	-	22.6	20.0	-	25
30	-	17.7	15.8	-	30
35	-	14.1	12.7	-	35
40	-	11.4	10.3	-	40
45	-	9.3	8.5	-	45
50	-	7.7	7.0	-	50
55	-	6.3	5.8	-	55
60	-	5.2	4.7	-	60
65	-	4.3	3.9	-	65
70	-	3.5	3.1	-	70
75	-	2.7	2.4	-	75
80	-	2.0	1.7	-	80
85	-	*	*	-	85
90	-	*	*	-	90
95	-	*	*	-	95
100	-	*	*	-	100
105	-	*	*	-	105
110	-	*	*	-	110

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.



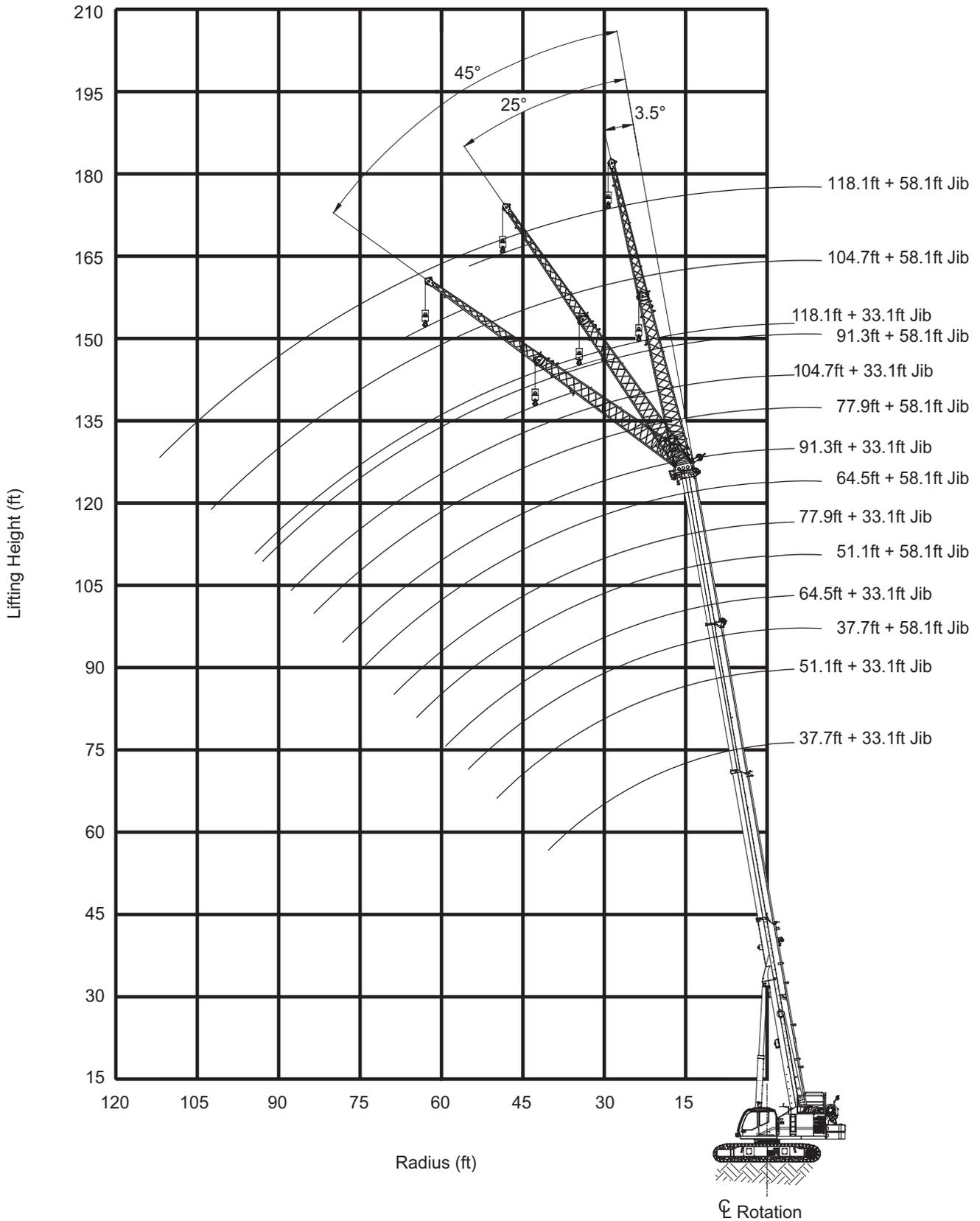
Operation

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

ft	37.7 ft		77.9 ft		91.3 ft		104.7 ft		118.1 ft		ft	
	3.5°	30°	3.5°	30°	3.5°	30°	3.5°	30°	3.5°	30°		
1,000 lb												
10	45.5	35.4	-	-	-	-	-	-	-	-	-	10
12	43.7	34.5	-	-	-	-	-	-	-	-	-	12
15	41.4	33.4	33.3	33.3	-	-	-	-	-	-	-	15
20	38.3	32.1	27.3	26.9	24.2	26.9	30.1	-	-	-	-	20
25	36.0	31.3	27.0	26.6	23.3	22.6	26.0	24.9	27.0	25.7	-	25
30	34.4	31.2	26.7	26.3	21.1	20.6	22.7	21.9	23.8	22.8	-	30
35	32.1	31.2	26.5	26.1	18.4	18.1	20.0	19.5	21.2	20.4	-	35
40	-	-	24.6	24.0	16.3	16.1	17.9	17.5	19.1	18.5	-	40
45	-	-	22.4	22.0	14.6	14.4	16.1	15.8	17.3	16.8	-	45
50	-	-	19.6	19.8	13.1	13.0	14.6	14.3	15.8	15.4	-	50
55	-	-	17.0	17.1	11.9	11.8	13.3	13.1	14.4	14.2	-	55
60	-	-	14.8	14.9	10.8	10.8	12.2	12.0	13.3	13.1	-	60
65	-	-	13.1	13.1	9.9	9.9	11.2	11.1	11.8	12.0	-	65
70	-	-	11.6	11.6	9.1	9.1	10.4	10.3	10.3	10.5	-	70
75	-	-	10.3	-	8.4	8.4	9.6	9.5	9.1	9.2	-	75
80	-	-	-	-	7.8	7.8	8.6	8.7	8.0	8.1	-	80
85	-	-	-	-	7.2	-	7.6	7.7	7.0	7.1	-	85
90	-	-	-	-	6.7	-	6.8	6.9	6.2	6.3	-	90
95	-	-	-	-	-	-	6.1	-	5.5	5.5	-	95
100	-	-	-	-	-	-	5.4	-	4.8	4.9	-	100
105	-	-	-	-	-	-	4.9	-	4.2	4.3	-	105
110	-	-	-	-	-	-	-	-	3.7	-	-	110
115	-	-	-	-	-	-	-	-	3.1	-	-	115
	4	4	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.

Operation



Operation



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

37.7 ft			77.9 ft			91.3 ft			104.7 ft			118.1 ft					
3.5°			25°			45°			3.5°			25°			45°		
ft	1,000 lb															ft	
10	14.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	
12	14.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	
15	14.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	
20	14.6	-	-	14.6	-	-	-	-	-	-	-	-	-	-	-	20	
25	14.6	14.6	-	14.6	-	-	14.6	-	-	14.6	-	-	-	-	-	25	
30	14.6	14.3	11.9	14.6	14.6	-	14.6	-	-	14.6	-	-	13.3	-	-	30	
35	14.6	13.2	11.2	14.6	14.6	-	14.6	14.0	-	14.6	-	-	13.3	-	-	35	
40	14.6	12.2	10.7	14.6	14.0	11.3	14.1	13.4	-	14.6	13.9	-	13.3	14.1	-	40	
45	13.7	11.4	10.3	14.6	13.3	11.0	13.5	12.8	11.0	14.1	13.3	11.1	13.3	13.6	-	45	
50	12.5	10.8	9.9	14.6	12.7	10.6	12.8	12.3	10.7	13.4	12.6	10.8	13.3	12.6	10.9	50	
55	11.6	10.3	9.8	14.6	12.1	10.3	11.7	11.3	10.4	12.3	11.6	10.5	12.6	11.7	10.6	55	
60	10.8	10.0	-	14.0	11.6	10.1	10.7	10.4	10.2	11.4	10.8	10.3	11.7	11.0	10.3	60	
65	-	-	-	13.2	11.2	9.8	9.9	9.6	9.5	10.5	10.1	9.8	10.9	10.3	9.9	65	
70	-	-	-	12.4	10.8	9.6	9.1	9.0	8.8	9.8	9.4	9.2	10.2	9.6	9.3	70	
75	-	-	-	11.5	10.4	9.5	8.5	8.3	8.3	9.1	8.8	8.6	9.5	9.0	8.8	75	
80	-	-	-	10.4	10.1	9.4	7.9	7.8	7.7	8.5	8.2	8.1	8.9	8.5	8.3	80	
85	-	-	-	9.4	9.7	9.4	7.4	7.3	7.2	8.0	7.8	7.7	8.0	8.0	7.9	85	
90	-	-	-	8.6	8.8	-	6.9	6.8	6.8	7.5	7.3	7.2	7.2	7.6	7.5	90	
95	-	-	-	7.8	8.0	-	6.5	6.4	6.4	7.0	6.9	6.8	6.4	6.9	7.1	95	
100	-	-	-	7.1	7.3	-	6.1	6.0	-	6.4	6.5	6.5	5.8	6.2	6.5	100	
105	-	-	-	6.6	-	-	5.7	5.7	-	5.8	6.1	6.2	5.2	5.6	5.8	105	
110	-	-	-	-	-	-	5.4	5.4	-	5.2	5.5	-	4.6	5.0	5.2	110	
115	-	-	-	-	-	-	5.1	-	-	4.7	4.9	-	4.1	4.5	4.6	115	
120	-	-	-	-	-	-	-	-	-	4.3	4.5	-	3.7	4.0	-	120	
125	-	-	-	-	-	-	-	-	-	3.9	4.0	-	3.3	3.5	-	125	
130	-	-	-	-	-	-	-	-	-	3.5	-	-	2.8	3.0	-	130	
135	-	-	-	-	-	-	-	-	-	-	-	-	2.4	2.6	-	135	
140	-	-	-	-	-	-	-	-	-	-	-	-	2.0	-	-	140	
145	-	-	-	-	-	-	-	-	-	-	-	-	1.7	-	-	145	
	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.

Operation



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

37.7 ft			77.9 ft			91.3 ft			104.7 ft			118.1 ft					
3.5°			25°			45°			3.5°			25°			45°		
ft	1,000 lb															ft	
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12
15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15
20	9.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
25	9.8	-	-	*	-	-	-	-	-	-	-	-	-	-	-	-	25
30	9.8	-	-	8.1	-	-	7.6	-	-	*	-	-	-	-	-	-	30
35	9.8	-	-	8.1	-	-	7.6	-	-	7.3	-	-	*	-	-	-	35
40	9.1	8.1	-	8.1	-	-	7.6	-	-	7.3	-	-	7.0	-	-	-	40
45	8.3	7.6	-	8.1	8.1	-	7.6	-	-	7.3	-	-	7.0	-	-	-	45
50	7.6	7.1	6.0	8.1	7.7	-	7.6	7.6	-	7.3	-	-	7.0	-	-	-	50
55	7.1	6.7	5.7	8.1	7.4	-	7.6	7.5	-	7.3	7.3	-	7.0	*	-	-	55
60	6.6	6.2	5.4	8.1	7.1	5.7	7.6	7.2	-	7.3	7.3	-	7.0	7.0	-	-	60
65	6.1	5.8	5.2	7.6	6.8	5.5	7.6	6.9	5.6	7.3	7.0	-	7.0	7.0	-	-	65
70	5.8	5.4	4.9	7.2	6.4	5.3	7.5	6.6	5.4	7.3	6.8	5.4	7.0	6.9	*	-	70
75	5.4	5.1	4.7	6.9	6.1	5.1	7.1	6.3	5.2	7.3	6.5	5.2	7.0	6.6	5.3	-	75
80	5.1	4.9	4.6	6.5	5.8	5.0	6.8	6.0	5.0	7.1	6.2	5.1	7.0	6.4	5.2	-	80
85	4.9	4.7	-	6.2	5.6	4.9	6.5	5.8	4.9	6.8	6.0	5.0	6.9	6.1	5.0	-	85
90	-	-	-	6.0	5.4	4.7	6.1	5.6	4.8	6.5	5.8	4.9	6.7	5.9	4.9	-	90
95	-	-	-	5.7	5.2	4.6	5.7	5.4	4.7	6.1	5.5	4.7	6.3	5.7	4.8	-	95
100	-	-	-	5.5	5.0	4.5	5.3	5.2	4.6	5.7	5.4	4.6	6.0	5.5	4.7	-	100
105	-	-	-	5.3	4.8	4.5	5.0	5.0	4.5	5.4	5.2	4.5	5.6	5.3	4.6	-	105
110	-	-	-	5.1	4.7	4.4	4.7	4.7	4.4	5.1	5.0	4.5	5.1	5.2	4.5	-	110
115	-	-	-	5.0	4.5	-	4.4	4.4	4.4	4.8	4.7	4.4	4.6	4.9	4.4	-	115
120	-	-	-	4.8	4.5	-	4.2	4.2	4.2	4.5	4.5	4.3	4.1	4.7	4.3	-	120
125	-	-	-	4.7	4.4	-	3.9	3.9	-	4.3	4.3	4.3	3.7	4.3	4.3	-	125
130	-	-	-	-	-	-	3.7	3.7	-	3.9	4.0	4.0	3.4	3.8	4.1	-	130
135	-	-	-	-	-	-	3.5	3.5	-	3.6	3.8	-	2.9	3.4	3.7	-	135
140	-	-	-	-	-	-	3.4	-	-	3.2	3.5	-	2.6	3.1	-	-	140
145	-	-	-	-	-	-	-	-	-	2.9	3.1	-	2.2	2.6	-	-	145
150	-	-	-	-	-	-	-	-	-	2.6	2.8	-	1.9	2.2	-	-	150
155	-	-	-	-	-	-	-	-	-	2.3	-	-	1.5	1.8	-	-	155
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

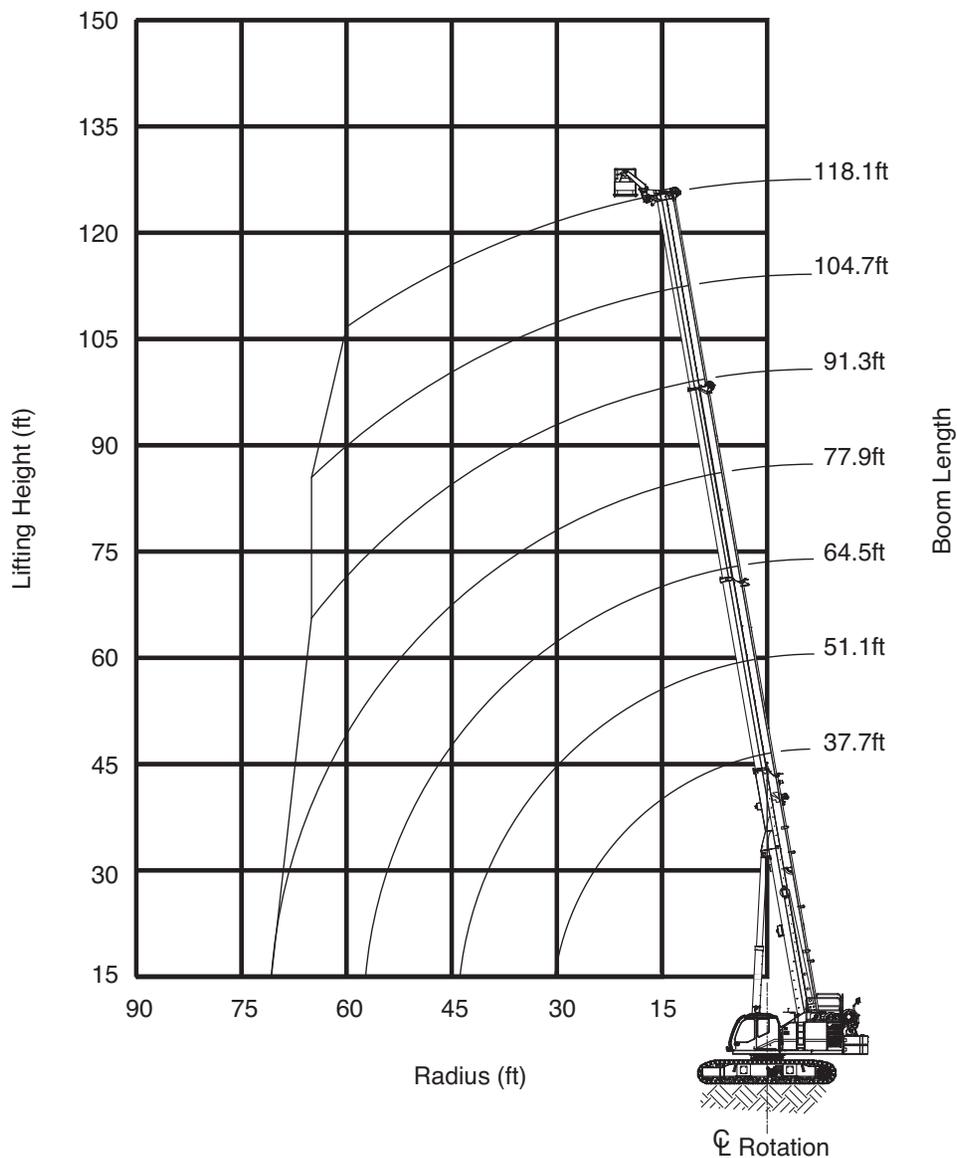
Load chart data is for reference, load charts supplied in the crane cab shall be used for lift planning.

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

WP

WP750
Work platform



Shaded area is allowable operating range!

Limits of operation:

Max. load capacity = 750 lb · Max. radius when mounted on main boom = 70 ft · Max. occupancy = 2 persons

Notes:

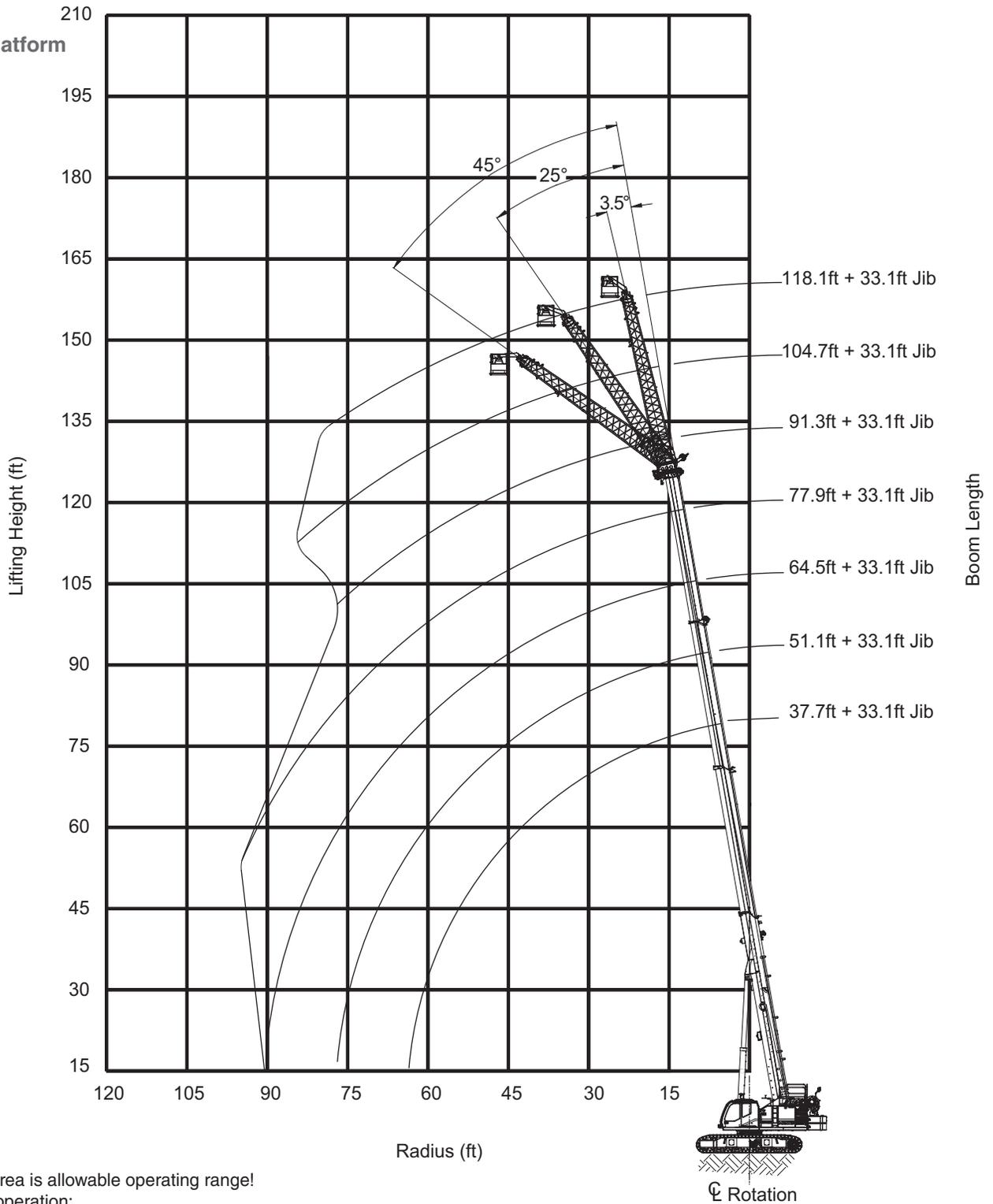
1. It is permissible to leave the jibs stowed on the boom while operating with work platform mounted to the main boom.
2. The hook block(s) must be removed when using the work platform.

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.

Operation

WP750
Work platform



Shaded area is allowable operating range!

Limits of operation:

Max. load capacity = 750 lb · Max. radius when mounted on jib = 95 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 33.1 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

Engine	Make/Model: Cummins B6.7 · Type: 6 cylinder, water cooled, 4 cycle · Aspiration: turbocharged and aftercooled · Max. output: 310 HP (231 kW) @2200 rpm · Max. torque: 950 lb-ft (1288 N-m) @1500 rpm · Piston disp: 6.7 l · Emission Cert: U.S. EPA Tier 4f, Euromot Stage V · Alternator: 70 amp.																		
Electrical system	24 VDC.																		
Fuel system	Capacity: 85 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 thirteen bottom sealed rollers on each track frame Idler: Oil filled, self lubricating with spring type tensioner. Track shoes: 35.4 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. One gear pump for cooling loop. Directional valves: Multiple pressure and flow compensated valves with integrated relief valves controlled by electrical signals. Pump output: 154 gpm @2200 rpm engine speed. 5,000 psi maximum pressure. Reservoir: 227 gallons capacity, spin-on filler/breather, sight gauge, cleanout, and sump drain. Filtration: Three 5 micron, full flow tank mounted return filters with electrical clogging indicator. 3 micron pilot oil in-line pressure filter. Diagnostic ports: Provided for system, load sense, and pilot pressure.																		
Bi-fold jib	<table> <tr> <td>Main jib:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Total length: 33' 1"</td> <td>Max. lifting height: 151' 11"</td> <td>Offset angles: 3.5°, 25° and 45°</td> <td></td> </tr> <tr> <td>Fly jib:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Total length: 58' 1"</td> <td>Max. lifting height: 176' 2"</td> <td>Offset angles: 3.5°, 25° and 45°</td> <td></td> </tr> </table>			Main jib:				Total length: 33' 1"	Max. lifting height: 151' 11"	Offset angles: 3.5°, 25° and 45°		Fly jib:				Total length: 58' 1"	Max. lifting height: 176' 2"	Offset angles: 3.5°, 25° and 45°	
Main jib:																			
Total length: 33' 1"	Max. lifting height: 151' 11"	Offset angles: 3.5°, 25° and 45°																	
Fly jib:																			
Total length: 58' 1"	Max. lifting height: 176' 2"	Offset angles: 3.5°, 25° and 45°																	

Optional equipment

Heavy lift jib	Total length: 8' 2"	Max. lifting height: 126' 8"	Offset angles: 3.5° and 30°
Hook blocks	70 ton quick reeve hook block – five, 19.5 inch steel sheaves, swivel hook and safety latch. 60 ton quick reeve hook block – three, 19.5 inch steel sheaves, swivel hook and safety latch. 27.5 ton quick reeve hook block – one, 19.5 inch steel sheave, swivel hook and safety latch.		
Overhaul ball	8.8 ton with swivel hook and safety latch.		
360° house lock	Actuated from the operator's cab.		
Track shoes	31.5 inch steel flat or 3-bar semi-grouser shoes. 35.4 inch steel flat shoes.		
Auger	Hydraulic auger boom package includes auger motor, hoses, fasteners, and stowage bracket assembly mounted to the 2nd stage section of boom for variable radius drilling.		
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.		
Controlled 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			

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