TADANO

TECHNICAL DATA | IMPERIAL

GTC-900

90 US TON MAX. CRANE CAPACITY

TADANO GREEN SOLUTIONS

- Suitable for alternative fuels

TADANO

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Key

Counterweight

Radius

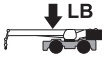
Main boom

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

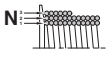
Rope

Hook block

Number of lines

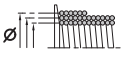
Assembly weight

Transport variant



Wire rope layer

Total wire rope



Winch layer diameter

Wind speed in mph

Highlights

141.1‘ 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

Optional carbody jack system for tool-free self-rigging operation

Remote control for all rigging operations standard

Full crane operation remote optional

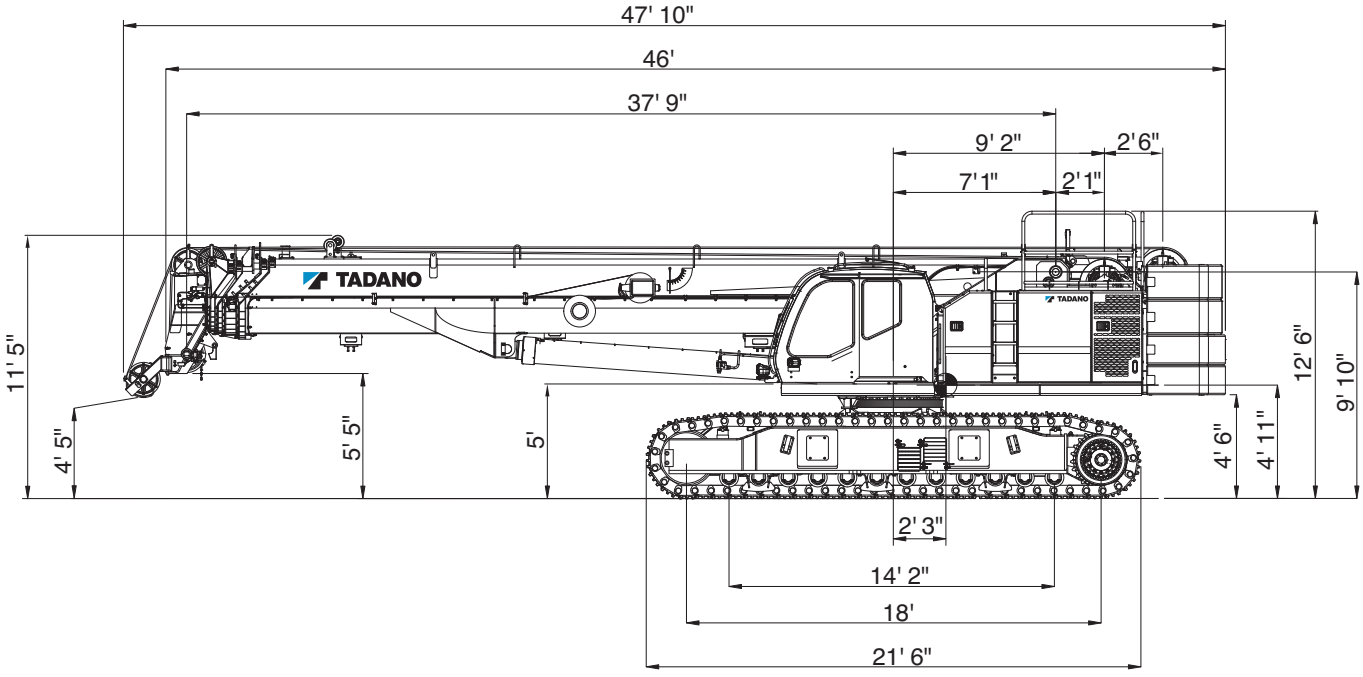
Best in class gradeability at 78 %

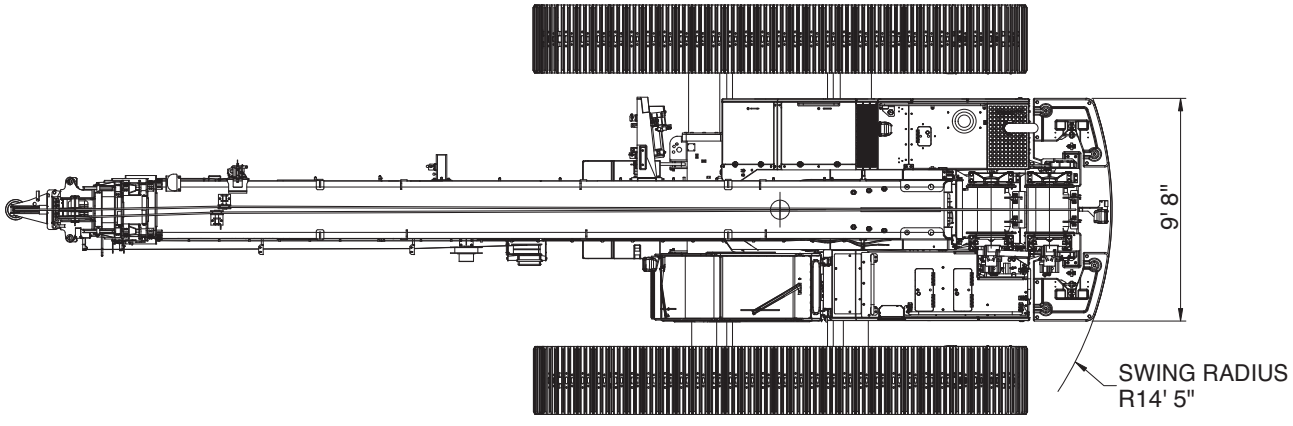
Notes

SPECIFICATIONS

Specifications

Vehicle dimensions

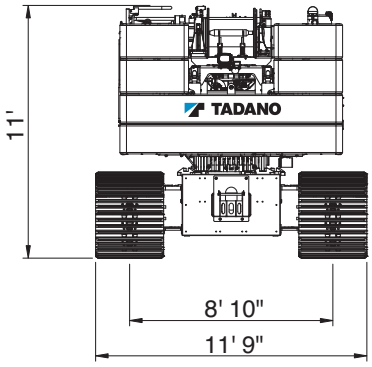




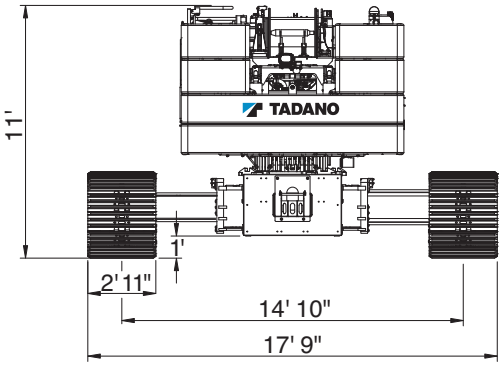
Specifications

Vehicle dimensions

Tracks retracted



Tracks extended



General dimensions	
Overall length	46’
Overall width (tracks extended)	17’ 9”
Overall width (tracks retracted)	11’ 9”
Overall width (tracks removed)	9’ 8”
Overall height (working)	12’ 6”

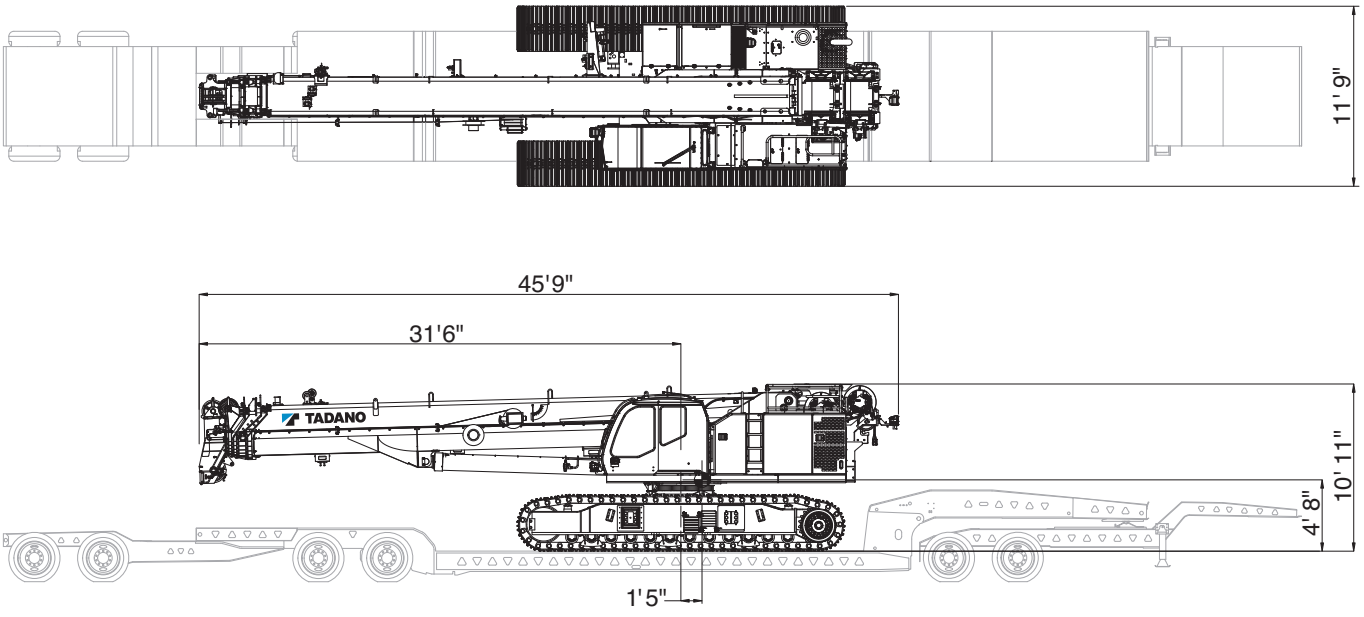
Notes

TECHNICAL DATA FOR TRANSPORTATION

Transportation

Transport dimensions

No carbody jacks



Transportation

Transport plan

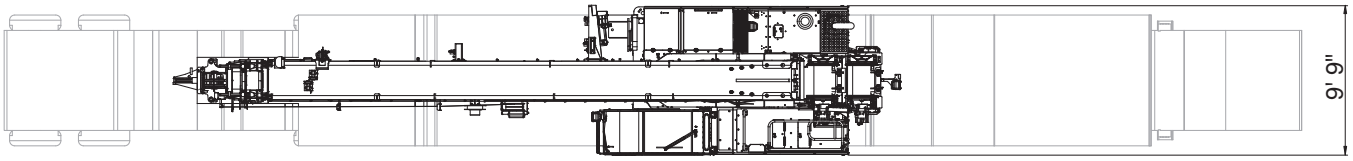
No carbody jacks – 3 trailers

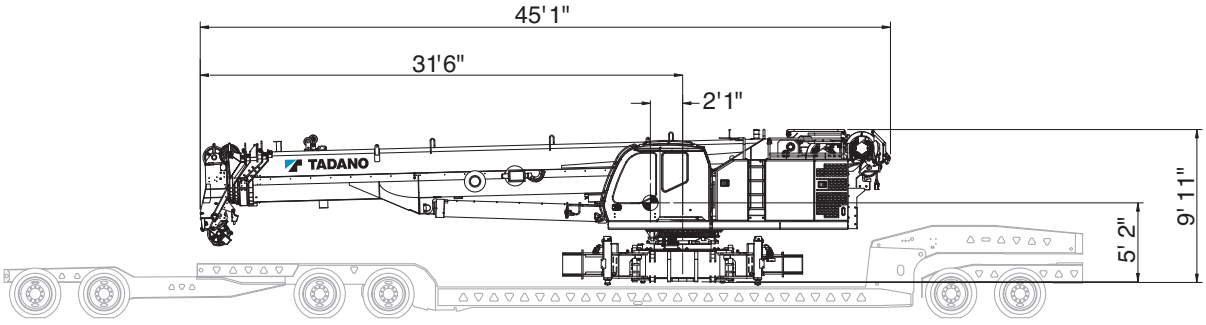
	lb	Dimensions L x W x H	1	2	3
Crane (with 2 winches, boom, wire rope, aux. nose sheave)	110,066	44‘ 11“ x 11‘ 6“ x 11‘ 0“	X		
Counterweight A - 1 piece	15,000	9‘ 8“ x 3‘ 5“ x 3‘ 8“		X	
Counterweight B - 1 piece	15,000	9‘ 8“ x 3‘ 8“ x 1‘ 6“		X	
Counterweight C - 1 piece	3,750	3‘ 0“ x 3‘ 3“ x 1‘ 6“			X
Counterweight C - 1 piece	3,750	3‘ 0“ x 3‘ 3“ x 1‘ 6“			X
Counterweight C - 1 piece	3,750	3‘ 0“ x 3‘ 3“ x 1‘ 6“			X
Counterweight C - 1 piece	3,750	3‘ 0“ x 3‘ 3“ x 1‘ 6“		X	
Counterweight - Carbody - 1 piece	10,000	3‘ 2“ x 4‘ 3“ x 2‘ 8“		X	
Counterweight - Carbody - 1 piece	10,000	3‘ 2“ x 4‘ 3“ x 2‘ 8“			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 - 90 US ton	1,385	5‘ 2“ x 2‘ 0“ x 1‘ 6“			X
Overhaul ball - 8.8 US ton	440	2‘ 5“ x 0‘ 11“ x 0‘ 11“			X
Miscellaneous items (crate)	500	4‘ 0“ x 3‘ 0“ x 3‘ 0“			X
Total net weight on trailer			**110,066 lb**	**43,750 lb**	**26,355 lb**

Transportation

Transport dimensions

With carbody jacks





Transportation

Transport plan

With carbody jacks – tracks removed – 3 trailers

	lb	Dimensions L x W x H	1	2	3
Crane (with 2 winches, boom, wire rope, aux. nose sheave, tracks removed)	75,359	44‘ 11“ x 9‘ 8“ x 10‘ 1“	X		
Left track frame	19,325	2‘ 11“ x 3‘ 0“ x 3‘ 9“		X	
Right track frame	19,475	2‘ 11“ x 3‘ 0“ x 3‘ 9“			X
Counterweight A	15,000	9‘ 8“ x 3‘ 5“ x 3‘ 8“		X	
Counterweight B - 1 piece	15,000	9‘ 8“ x 3‘ 8“ x 1‘ 6“			X
Counterweight C - 1 piece	3,750	3‘ 0“ x 3‘ 3“ x 1‘ 6“			X
Counterweight C - 1 piece	3,750	3‘ 0“ x 3‘ 3“ x 1‘ 6“		X	
Counterweight C - 1 piece	3,750	3‘ 0“ x 3‘ 3“ x 1‘ 6“			X
Counterweight C - 1 piece	3,750	3‘ 0“ x 3‘ 3“ x 1‘ 6“		X	
Counterweight - Carbody - 1 piece	10,000	3‘ 2“ x 4‘ 3“ x 2‘ 8“	X		
Counterweight - Carbody - 1 piece	10,000	3‘ 2“ x 4‘ 3“ x 2‘ 8“	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 - 90 US ton	1,385	5‘ 2“ x 2‘ 0“ x 1‘ 6“		X	
Overhaul ball - 8.8 US ton	440	2‘ 5“ x 0‘ 11“ x 0‘ 11“			X
Miscellaneous items (crate)	500	4‘ 0“ x 3‘ 0“ x 3‘ 0“			X
Total net weight on trailer			**95,359 lb**	**43,960 lb**	**44,945 lb**

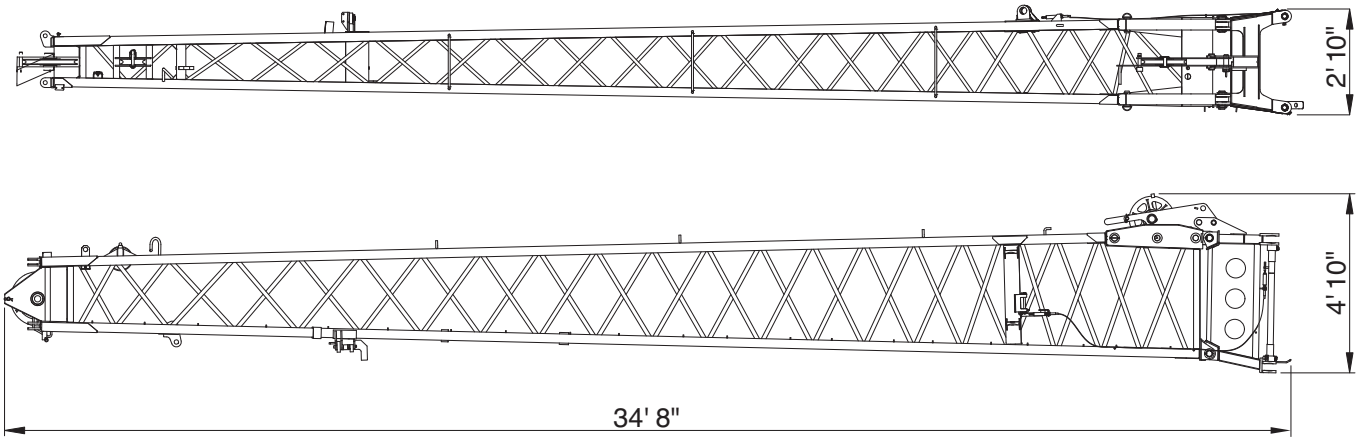
With carbody jacks – tracks removed – 4 trailers

	lb	Dimensions L x W x H	1	2	3	4
Crane (with 2 winches, boom, wire rope, aux. nose sheave, tracks removed)	75,359	44‘ 11“ x 9‘ 8“ x 10‘ 1“	X			
Left track frame	19,325	2‘ 11“ x 3‘ 0“ x 3‘ 9“		X		
Right track frame	19,475	2‘ 11“ x 3‘ 0“ x 3‘ 9“			X	
Counterweight A	15,000	9‘ 8“ x 3‘ 5“ x 3‘ 8“		X		
Counterweight B - 1 piece	15,000	9‘ 8“ x 3‘ 8“ x 1‘ 6“			X	
Counterweight C - 1 piece	3,750	3‘ 0“ x 3‘ 3“ x 1‘ 6“			X	
Counterweight C - 1 piece	3,750	3‘ 0“ x 3‘ 3“ x 1‘ 6“		X		
Counterweight C - 1 piece	3,750	3‘ 0“ x 3‘ 3“ x 1‘ 6“			X	
Counterweight C - 1 piece	3,750	3‘ 0“ x 3‘ 3“ x 1‘ 6“		X		
Counterweight - Carbody - 1 piece	10,000	3‘ 2“ x 4‘ 3“ x 2‘ 8“				X
Counterweight - Carbody - 1 piece	10,000	3‘ 2“ x 4‘ 3“ x 2‘ 8“				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 - 90 US ton	1,385	5‘ 2“ x 2‘ 0“ x 1‘ 6“		X		
Overhaul ball - 8.8 US ton	440	2‘ 5“ x 0‘ 11“ x 0‘ 11“			X	
Miscellaneous items (crate)	500	4‘ 0“ x 3‘ 0“ x 3‘ 0“			X	
Total net weight on trailer			**75,359 lb**	**43,960 lb**	**44,945 lb**	**20,000 lb**

Transportation

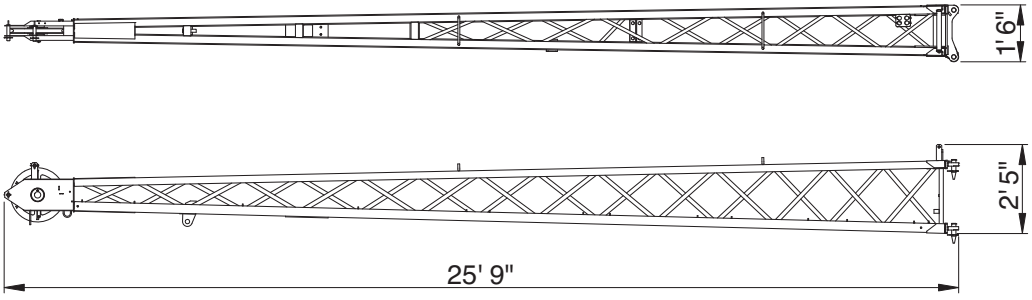
Transport dimensions

Extension 33’ 3”



lb
2,030

Jib point 24’ 8”

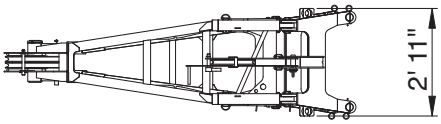


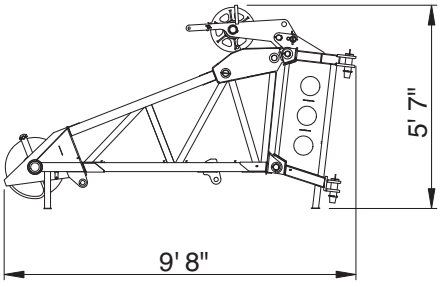
lb
750

Transportation

Transport dimensions

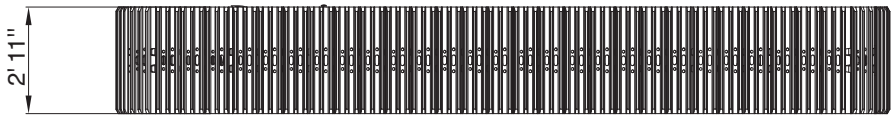
Heavy lift jib 8’ 2”

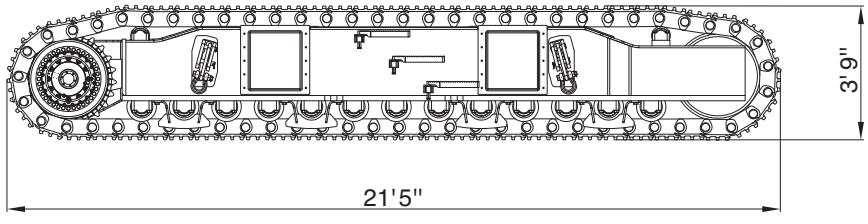




lb
972

Track frame assembly





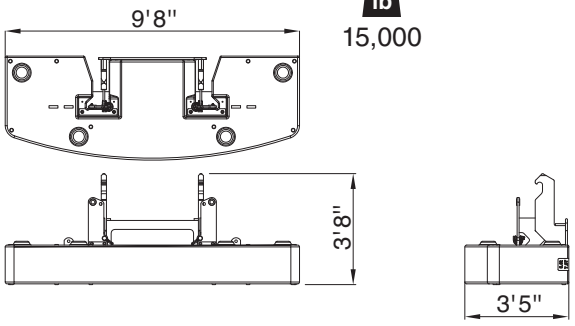
lb
19,940

Transportation

Transport dimensions

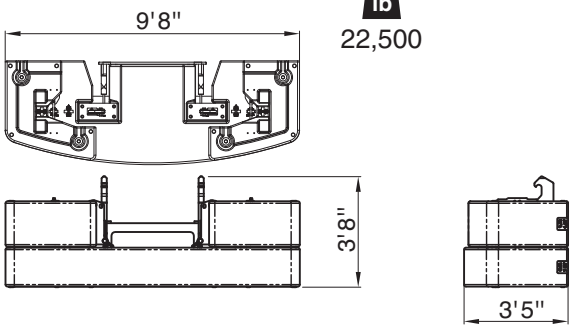
Configuration „A“

lb 15,000



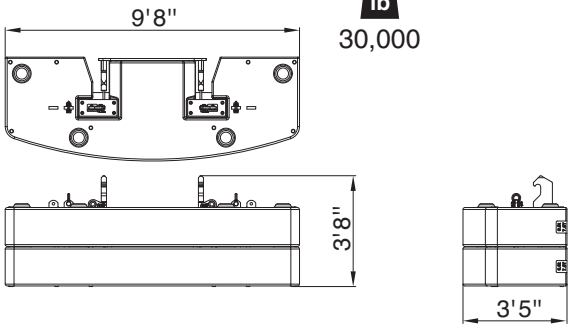
Configuration „A+“

lb 22,500



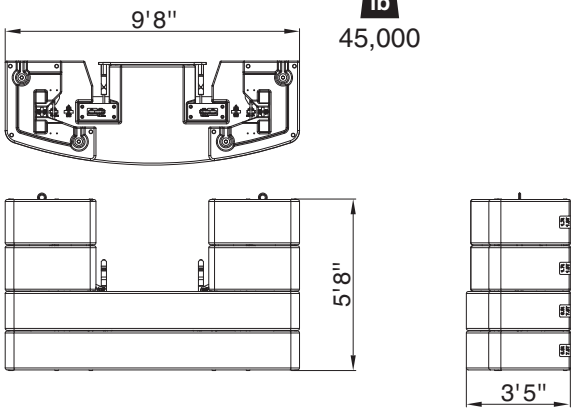
Configuration „B“

lb 30,000



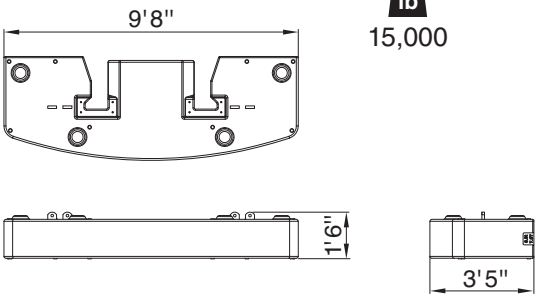
Configuration „C“

lb 45,000



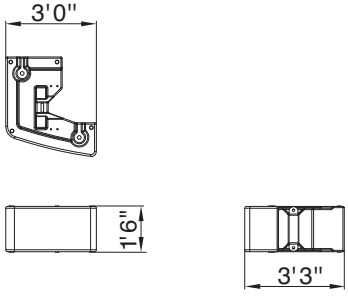
Counterweight „B“ section

lb 15,000



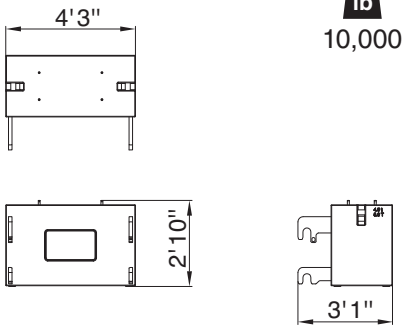
Counterweight „C“ section – 4 pieces

lb 3,750



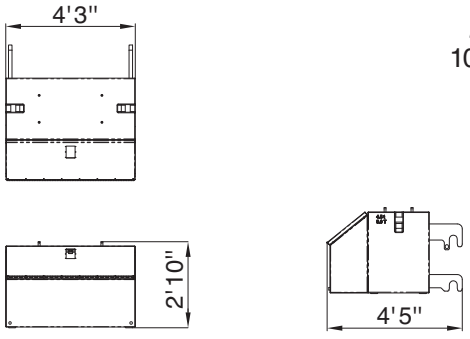
Carbody counterweight

lb 10,000

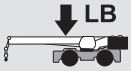


Rear carbody counterweight with toolbox

lb 10,175



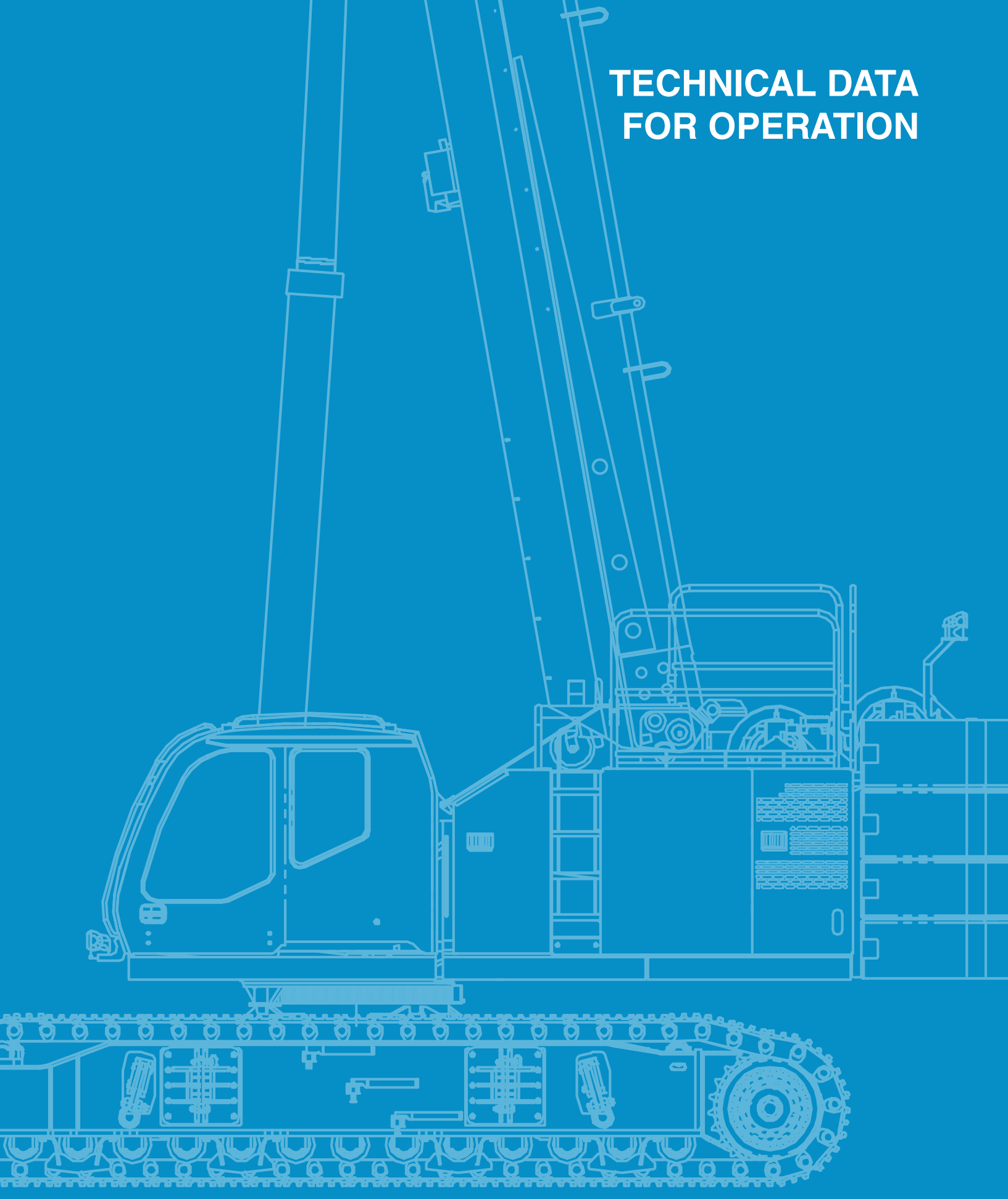
Transportation

Machine weights	
 Standard equipment package	180,171 lb
Upper	45,000 lb
Carbody	20,000 lb
Standard Crane with 5 section - 141.1 ft boom, full counterweight, 2 winches with wire rope, auxiliary nose sheave and 35.4 inch 3-bar semi grouser track shoes	175,066 lb
Standard Crane with 5 section - 141.1 ft boom, auxiliary winch with wire rope and 35.4 inch 3-bar semi grouser track shoes (counterweight removed)	110,066 lb
Standard Crane with auxiliary winch with wire rope (counterweight and track frames removed)	76,221 lb

Optional Equipment	
Heavy lift jib: 8.2 ft	972 lb
Jib base: 33.1 ft	2,030 lb
Jib tip: 24.7 ft	750 lb
Auxiliary nose sheave	105 lb
90 ton 6	1,442 lb
55 ton 3	1,395 lb
22 ton 1	655 lb
8.8 ton	295 lb
Carbody jacks	3,774 lb
Track frame with 900 mm 3-bar semi-grouser track shoe	19,140 lb
Track frame with 800 mm flat steel track shoe	18,980 lb

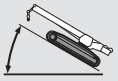
Notes

TECHNICAL DATA FOR OPERATION

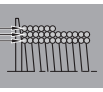
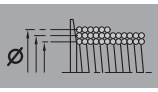


Operation

Speeds and gradeability

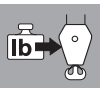
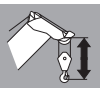
	0.7 mph / 2.1 mph		78 %

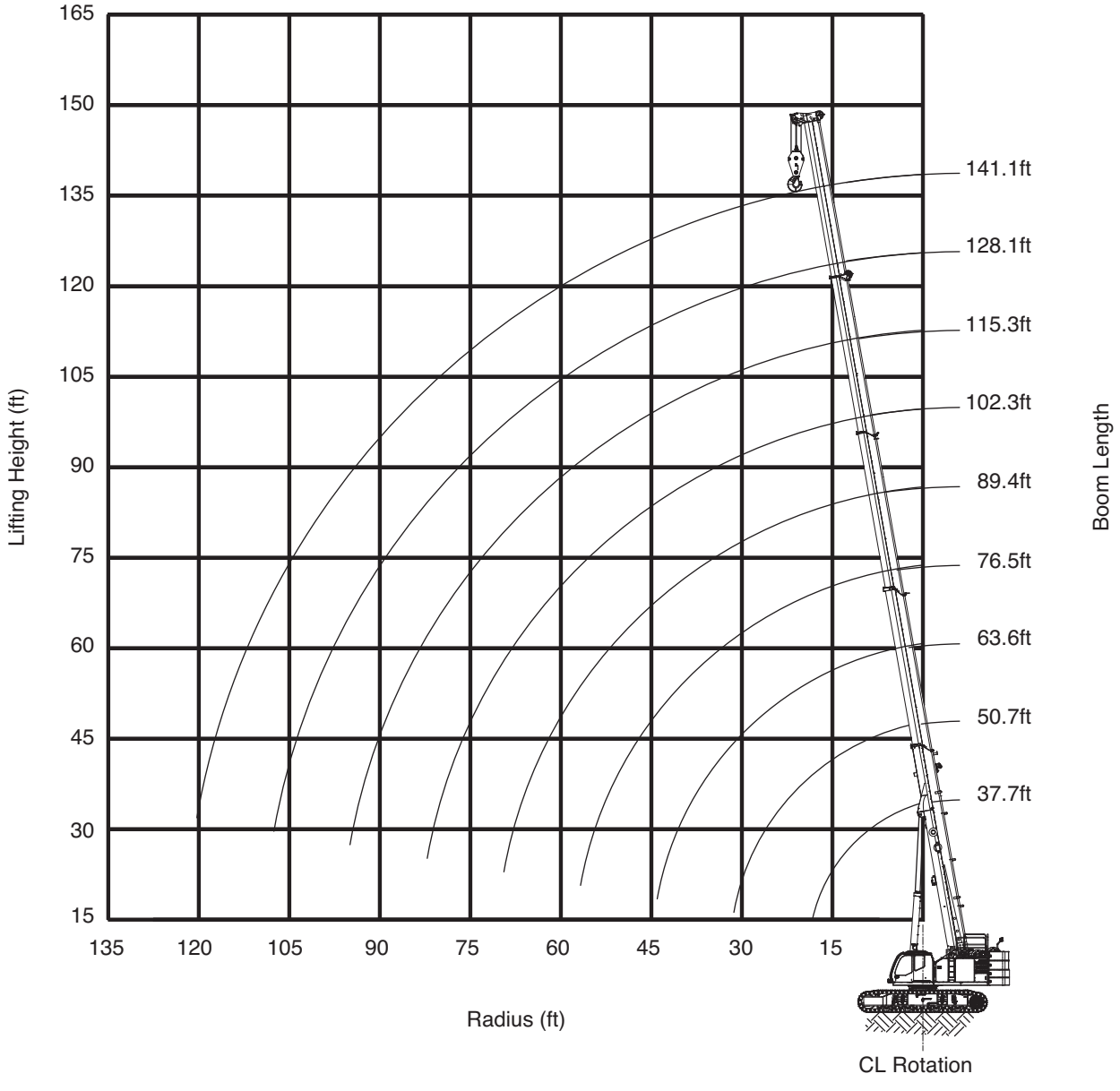
Main winch and auxiliary winch performance

N 	lb	high	normal	ø 		Σ
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: 3/4 inch diameter rotation resistant. Line pulls are not based on wire rope strength.

Operation

Hook blocks					
					
1	17,153	13.7-0-22	6	295	7.6 ft
2	34,306	27.5-1-19	6	771	10.0 ft
3	51,459	27.5-1-19	6	771	10.0 ft
4	68,612	60-3-19	6	1,410	10.0 ft
5	85,765	60-3-19	6	1,410	10.0 ft
6	102,918	60-3-19	6	1,410	10.0 ft
7	120,071	60-3-19	6	1,442	10.0 ft
8	137,224	90-6-19	6	1,442	10.8 ft
9	154,377	90-6-19	6	1,442	10.8 ft
10	171,530	90-6-19	6	1,442	10.8 ft
11	180,000	90-6-19	6	1,442	10.8 ft
12	180,000	90-6-19	6	1,442	10.8 ft


165
150
135
120
105
90
75
60
45
30
15
Lifting Height (ft)
135
120
105
90
75
60
45
30
15
Radius (ft)
141.1ft
128.1ft
115.3ft
102.3ft
89.4ft
76.5ft
63.6ft
50.7ft
37.7ft
Boom Length
CL Rotation

Operation

MB

45,000 lb + 20,000 lb | 17'10" | 20 mph | 360° | ASME B30.5

	37.7 ft				50.7 ft				63.6 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	180.0	180.0	180.0	145.4	111.6	111.6	111.6	110.5	98.6	98.6	98.5	77.1	10
12	160.6	160.6	160.6	143.1	111.6	111.6	111.6	110.5	97.2	97.2	97.2	77.1	12
15	140.3	140.3	140.3	112.0	111.6	111.6	111.6	103.0	95.5	95.3	91.2	77.1	15
20	113.8	107.1	101.0	80.5	110.2	101.5	93.7	71.9	81.7	78.7	75.9	72.1	20
25	79.1	76.0	73.0	61.9	76.5	71.9	67.7	53.1	68.9	66.8	63.8	57.2	25
30	59.9	58.5	57.1	49.2	57.4	54.7	52.2	40.6	55.8	52.4	49.2	45.0	30
35	-	-	-	-	45.2	43.5	42.0	35.3	43.8	41.5	39.4	36.4	35
40	-	-	-	-	37.4	37.4	37.4	28.6	36.2	36.2	36.2	35.7	40
45	-	-	-	-	-	-	-	-	34.8	33.6	32.5	30.9	45
50	-	-	-	-	-	-	-	-	30.0	29.2	28.4	27.2	50
55	-	-	-	-	-	-	-	-	26.2	25.7	25.2	24.5	55

	76.5 ft				89.4 ft				102.3 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	96.1	96.1	81.8	59.6	-	-	-	-	-	-	-	-	10
12	96.1	91.3	81.8	59.6	-	-	-	-	-	-	-	-	12
15	76.9	76.9	75.9	59.6	75.5	70.3	63.3	46.9	32.1	32.1	32.1	32.1	15
20	69.5	66.2	63.2	59.2	61.7	58.1	55.0	46.9	37.2	37.2	37.2	36.9	20
25	58.4	56.1	53.9	50.9	51.8	49.2	46.9	43.8	37.2	37.2	37.2	36.9	25
30	50.1	48.4	46.8	43.2	44.4	42.4	40.7	38.3	37.2	37.2	36.8	34.3	30
35	43.6	41.2	38.6	35.2	38.5	37.0	35.6	33.8	35.5	33.9	32.4	30.4	35
40	35.7	33.7	31.9	29.3	33.8	32.7	31.2	28.3	31.2	30.0	28.8	27.2	40
45	29.5	28.1	26.7	25.2	29.5	27.8	26.2	24.0	27.7	26.7	25.8	24.3	45
50	24.9	24.3	23.9	23.5	24.9	23.6	22.3	20.5	24.8	24.0	22.9	20.9	50
55	22.9	22.6	22.4	22.0	21.2	20.2	19.2	17.8	22.2	21.0	19.8	18.2	55
60	21.4	21.2	21.1	20.8	18.2	17.4	16.6	15.5	19.2	18.2	17.3	16.0	60
65	20.2	20.1	20.0	19.4	15.8	15.1	14.5	13.6	16.8	15.9	15.2	14.1	65
70	-	-	-	-	13.7	13.2	12.7	11.9	14.7	14.0	13.4	12.4	70
75	-	-	-	-	12.0	11.6	11.2	10.6	12.9	12.3	11.8	11.1	75
80	-	-	-	-	10.6	10.3	10.0	9.8	11.4	10.9	10.6	10.5	80
85	-	-	-	-	-	-	-	-	10.3	10.1	10.1	9.9	85
90	-	-	-	-	-	-	-	-	9.7	9.6	9.6	9.5	90
95	-	-	-	-	-	-	-	-	9.2	9.2	9.2	9.2	95

	115.3 ft				128.1 ft				141.1 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	37.2	37.2	37.2	31.0	-	-	-	-	-	-	-	-	20
25	36.3	36.3	36.2	31.0	34.8	34.8	32.3	26.0	28.8	28.8	25.0	18.0	25
30	36.2	36.1	34.1	31.0	34.4	33.9	31.8	26.0	28.8	28.2	25.0	18.0	30
35	33.5	31.7	30.2	28.1	31.8	29.9	28.2	26.0	27.1	25.7	24.5	18.0	35
40	29.5	28.2	26.9	25.2	28.2	26.6	25.3	23.5	24.7	23.6	22.6	18.0	40
45	26.3	25.2	24.1	22.7	25.1	23.9	22.7	21.2	22.7	21.5	20.4	18.0	45
50	23.6	22.6	21.8	20.6	22.5	21.5	20.6	19.3	20.5	19.4	18.5	17.3	50
55	21.3	20.5	19.8	18.4	20.3	19.5	18.7	17.7	18.5	17.7	16.9	15.8	55
60	19.2	18.6	17.6	16.1	18.5	17.7	17.1	16.2	16.9	16.1	15.5	14.5	60
65	17.4	16.4	15.5	14.3	16.8	16.2	15.7	14.6	15.4	14.8	14.2	13.4	65
70	15.3	14.5	13.8	12.9	15.3	14.8	14.2	13.8	14.1	13.5	13.1	12.4	70
75	13.5	12.9	12.5	12.1	14.0	13.7	13.4	12.8	12.9	12.5	12.0	11.4	75
80	12.1	11.9	11.8	11.5	13.2	13.0	12.5	11.6	11.9	11.5	11.1	10.6	80
85	11.4	11.3	11.1	10.9	12.5	11.9	11.4	10.6	11.0	10.6	10.3	9.6	85
90	10.8	10.7	10.6	10.4	11.3	10.8	10.3	9.6	10.1	9.8	9.4	8.7	90
95	10.3	10.2	10.1	9.9	10.2	9.8	9.4	8.8	9.3	9.0	8.5	7.9	95
100	9.8	9.7	9.6	9.2	9.3	8.9	8.6	8.1	8.6	8.1	7.7	7.1	100
105	9.3	9.1	9.0	8.6	8.5	8.2	7.8	7.4	7.7	7.3	7.0	6.5	105
110	-	-	-	-	7.7	7.5	7.2	6.8	7.0	6.6	6.3	5.9	110
115	-	-	-	-	7.0	6.8	6.6	6.3	6.3	6.0	5.7	5.3	115
120	-	-	-	-	6.5	6.3	6.2	5.5	5.7	5.4	5.2	4.9	120
125	-	-	-	-	-	-	-	-	5.1	4.9	4.7	4.2	125
130	-	-	-	-	-	-	-	-	4.6	4.4	4.2	3.6	130

30,000 lb + 20,000 lb | 17'10" | 20 mph | 360° | ASME B30.5

ft	37.7 ft 0.5°	1.5°	2.5°	4°	50.7 ft 0.5°	1.5°	2.5°	4°	63.6 ft 0.5°	1.5°	2.5°	4°	ft
						1,000 lb							
10	-	180.0	180.0	145.4	-	111.6	111.6	110.5	-	98.6	98.5	77.1	10
12	-	160.6	160.6	143.1	-	111.6	111.6	110.5	-	97.2	97.2	77.1	12
15	-	140.3	135.1	112.0	-	111.6	111.6	103.0	-	95.3	91.2	77.1	15
20	-	89.8	84.6	77.6	-	84.7	78.0	69.6	-	78.7	73.0	63.4	20
25	-	63.3	60.7	57.2	-	59.5	56.0	51.2	-	56.7	52.5	46.9	25
30	-	48.4	47.3	-	-	45.0	42.8	39.8	-	42.7	40.1	36.5	30
35	-	-	-	-	-	37.4	37.4	35.3	-	36.2	36.2	34.9	35
40	-	-	-	-	-	32.4	31.5	28.6	-	32.7	31.3	29.5	40
45	-	-	-	-	-	-	-	-	-	27.7	26.7	25.4	45
50	-	-	-	-	-	-	-	-	-	23.9	23.2	22.2	50
55	-	-	-	-	-	-	-	-	-	20.9	20.5	19.9	55

ft	76.5 ft 0.5°	1.5°	2.5°	4°	89.4 ft 0.5°	1.5°	2.5°	4°	102.3 ft 0.5°	1.5°	2.5°	4°	ft
						1,000 lb							
10	-	96.1	81.8	59.6	-	-	-	-	-	-	-	-	10
12	-	91.3	81.8	59.6	-	-	-	-	-	-	-	-	12
15	-	76.9	75.9	59.6	-	70.3	63.3	46.9	-	32.1	32.1	32.1	15
20	-	66.2	63.2	59.2	-	58.1	55.0	46.9	-	37.2	37.2	36.9	20
25	-	55.9	51.1	44.8	-	49.2	46.9	42.7	-	37.2	37.2	36.9	25
30	-	42.4	39.2	35.1	-	41.7	38.2	33.6	-	37.2	36.8	33.4	30
35	-	33.3	31.2	29.7	-	32.9	30.4	27.2	-	33.6	30.9	27.3	35
40	-	28.6	28.0	27.2	-	26.7	24.9	22.4	-	27.5	25.4	22.7	40
45	-	26.3	25.8	24.9	-	22.0	20.6	18.8	-	22.8	21.3	19.2	45
50	-	24.0	23.1	21.8	-	18.4	17.3	15.9	-	19.2	18.0	16.3	50
55	-	21.0	20.3	19.3	-	15.5	14.7	13.6	-	16.4	15.4	14.5	55
60	-	18.6	18.0	17.2	-	13.2	12.9	12.5	-	14.2	13.9	13.4	60
65	-	16.6	16.2	15.6	-	12.1	11.9	11.7	-	13.1	12.9	12.5	65
70	-	-	-	-	-	11.2	11.1	11.0	-	12.2	12.1	11.8	70
75	-	-	-	-	-	10.5	10.4	10.3	-	11.5	11.3	11.1	75
80	-	-	-	-	-	9.9	9.9	9.8	-	10.8	10.6	10.5	80
85	-	-	-	-	-	-	-	-	-	10.1	10.1	9.8	85
90	-	-	-	-	-	-	-	-	-	9.6	9.4	9.0	90
95	-	-	-	-	-	-	-	-	-	8.9	8.7	8.5	95

ft	115.3 ft 0.5°	1.5°	2.5°	4°	128.1 ft 0.5°	1.5°	2.5°	4°	141.1 ft 0.5°	1.5°	2.5°	4°	ft
						1,000 lb							
20	-	37.2	37.2	31.0	-	-	-	-	-	-	-	-	20
25	-	36.3	36.2	31.0	-	34.8	32.3	26.0	-	28.8	25.0	18.0	25
30	-	36.1	34.1	31.0	-	33.9	31.8	26.0	-	28.2	25.0	18.0	30
35	-	31.7	30.2	27.0	-	29.9	28.2	26.0	-	25.7	24.5	18.0	35
40	-	27.8	25.6	22.7	-	26.6	25.3	22.5	-	23.6	22.6	18.0	40
45	-	23.3	21.5	19.2	-	23.5	21.7	19.2	-	21.5	20.4	18.0	45
50	-	19.7	18.4	16.8	-	20.0	18.6	17.7	-	19.4	18.5	16.8	50
55	-	16.9	16.2	15.6	-	17.9	17.3	15.8	-	17.7	16.4	14.6	55
60	-	15.5	15.1	14.6	-	16.4	15.3	13.9	-	15.5	14.3	12.8	60
65	-	14.4	14.1	13.6	-	14.4	13.6	12.4	-	13.5	12.6	11.3	65
70	-	13.5	13.1	12.2	-	12.7	12.0	11.0	-	11.9	11.1	10.0	70
75	-	12.3	11.8	11.0	-	11.3	10.7	9.8	-	10.5	9.8	8.9	75
80	-	11.1	10.6	9.9	-	10.1	9.6	8.8	-	9.3	8.7	7.9	80
85	-	10.0	9.6	9.0	-	9.0	8.6	7.9	-	8.2	7.7	7.0	85
90	-	9.0	8.7	8.2	-	8.1	7.7	7.1	-	7.3	6.8	6.2	90
95	-	8.2	7.9	7.5	-	7.3	6.9	6.4	-	6.5	6.1	5.5	95
100	-	7.5	7.2	6.9	-	6.5	6.2	5.8	-	5.7	5.4	4.9	100
105	-	6.8	6.7	6.4	-	5.8	5.6	5.2	-	5.0	4.7	4.3	105
110	-	-	-	-	-	5.2	5.0	4.7	-	4.4	4.1	3.6	110
115	-	-	-	-	-	4.7	4.5	4.3	-	3.8	3.5	3.1	115
120	-	-	-	-	-	4.3	4.1	3.9	-	3.2	2.9	2.6	120
125	-	-	-	-	-	-	-	-	-	2.6	2.4	2.1	125
130	-	-	-	-	-	-	-	-	-	2.2	2.0	1.8	130

22,500 lb + 20,000 lb | 17'10" | 20 mph | 360° | ASME B30.5

ft	37.7 ft 0.5°	1.5°	2.5°	4°	50.7 ft 0.5°	1.5°	2.5°	4°	63.6 ft 0.5°	1.5°	2.5°	4°	ft
						1,000 lb							
10	-	180.0	180.0	145.4	-	111.6	111.6	110.5	-	98.6	98.5	77.1	10
12	-	160.6	160.6	143.1	-	111.6	111.6	110.5	-	97.2	97.2	77.1	12
15	-	134.9	122.6	107.4	-	111.6	111.4	94.3	-	95.3	91.2	77.1	15
20	-	81.2	76.4	70.1	-	76.3	70.3	62.5	-	72.6	65.5	56.9	20
25	-	57.0	54.7	51.4	-	53.4	50.2	45.8	-	50.8	46.9	41.8	25
30	-	43.4	42.4	40.8	-	40.1	38.2	37.4	-	38.0	36.2	36.2	30
35	-	-	-	-	-	35.1	33.8	32.0	-	35.4	33.7	31.3	35
40	-	-	-	-	-	28.9	28.2	27.0	-	29.3	28.1	26.4	40
45	-	-	-	-	-	-	-	-	-	24.7	23.9	22.6	45
50	-	-	-	-	-	-	-	-	-	21.3	20.6	19.7	50
55	-	-	-	-	-	-	-	-	-	18.6	18.2	17.6	55

ft	76.5 ft 0.5°	1.5°	2.5°	4°	89.4 ft 0.5°	1.5°	2.5°	4°	102.3 ft 0.5°	1.5°	2.5°	4°	ft
						1,000 lb							
10	-	96.1	81.8	59.6	-	-	-	-	-	-	-	-	10
12	-	91.3	81.8	59.6	-	-	-	-	-	-	-	-	12
15	-	76.9	75.9	59.6	-	70.3	63.3	46.9	-	32.1	32.1	32.1	15
20	-	66.2	63.2	53.7	-	58.1	55.0	46.9	-	37.2	37.2	36.9	20
25	-	50.1	45.6	39.9	-	49.1	44.2	38.0	-	37.2	37.2	36.9	25
30	-	37.7	34.8	32.6	-	37.1	33.9	29.7	-	37.2	34.2	29.7	30
35	-	31.4	30.7	29.7	-	29.1	26.8	23.9	-	29.9	27.3	24.1	35
40	-	28.6	27.9	25.9	-	23.4	21.8	19.5	-	24.2	22.4	19.9	40
45	-	24.9	23.8	22.2	-	19.1	17.9	16.2	-	20.0	18.6	17.0	45
50	-	21.4	20.6	19.4	-	15.9	15.2	14.7	-	16.7	16.2	15.6	50
55	-	18.7	18.0	17.1	-	14.2	13.9	13.6	-	15.3	15.0	14.5	55
60	-	16.4	15.9	15.2	-	13.1	12.9	12.5	-	14.2	13.9	13.4	60
65	-	14.6	14.3	13.7	-	12.1	11.9	11.7	-	13.1	12.9	12.5	65
70	-	-	-	-	-	11.2	11.1	11.0	-	12.2	12.0	11.3	70
75	-	-	-	-	-	10.5	10.4	10.3	-	11.2	10.8	10.2	75
80	-	-	-	-	-	9.9	9.9	9.8	-	10.1	9.7	9.2	80
85	-	-	-	-	-	-	-	-	-	9.1	8.8	8.4	85
90	-	-	-	-	-	-	-	-	-	8.3	8.0	7.7	90
95	-	-	-	-	-	-	-	-	-	7.6	7.4	7.2	95

ft	115.3 ft 0.5°	1.5°	2.5°	4°	128.1 ft 0.5°	1.5°	2.5°	4°	141.1 ft 0.5°	1.5°	2.5°	4°	ft
						1,000 lb							
20	-	37.2	37.2	31.0	-	-	-	-	-	-	-	-	20
25	-	36.3	36.2	31.0	-	34.8	32.3	26.0	-	28.8	25.0	18.0	25
30	-	36.1	34.0	29.2	-	33.9	31.8	26.0	-	28.2	25.0	18.0	30
35	-	30.2	27.4	23.9	-	29.9	27.2	23.6	-	25.7	24.5	18.0	35
40	-	24.6	22.6	19.9	-	24.9	22.7	20.6	-	23.6	22.5	18.0	40
45	-	20.5	19.0	18.2	-	20.9	20.1	18.3	-	21.0	19.2	16.9	45
50	-	18.1	17.5	16.8	-	19.1	17.7	15.8	-	18.1	16.6	14.6	50
55	-	16.7	16.2	15.1	-	16.5	15.3	13.8	-	15.5	14.3	12.7	55
60	-	15.4	14.5	13.3	-	14.3	13.4	12.1	-	13.4	12.4	11.0	60
65	-	13.6	12.8	11.8	-	12.5	11.8	10.6	-	11.7	10.8	9.6	65
70	-	12.0	11.4	10.6	-	11.0	10.3	9.4	-	10.2	9.4	8.4	70
75	-	10.7	10.2	9.5	-	9.7	9.1	8.4	-	8.9	8.3	7.4	75
80	-	9.6	9.1	8.5	-	8.6	8.1	7.4	-	7.8	7.3	6.5	80
85	-	8.6	8.2	7.7	-	7.6	7.2	6.6	-	6.8	6.3	5.7	85
90	-	7.7	7.4	6.9	-	6.7	6.4	5.9	-	6.0	5.6	5.0	90
95	-	6.9	6.7	6.3	-	6.0	5.7	5.2	-	5.2	4.8	4.3	95
100	-	6.3	6.0	5.7	-	5.3	5.0	4.6	-	4.5	4.1	3.6	100
105	-	5.7	5.5	5.3	-	4.7	4.5	4.1	-	3.8	3.4	3.0	105
110	-	-	-	-	-	4.1	3.9	3.5	-	3.1	2.8	2.4	110
115	-	-	-	-	-	3.6	3.4	3.1	-	2.5	2.2	1.9	115
120	-	-	-	-	-	3.1	3.0	2.7	-	2.0	1.8	1.4	120
125	-	-	-	-	-	-	-	-	-	1.5	1.3	*	125
130	-	-	-	-	-	-	-	-	-	1.1	0.9	*	130

* For explanations see page 29

15,000 lb + 20,000 lb | 17'10" | 20 mph | 360° | ASME B30.5

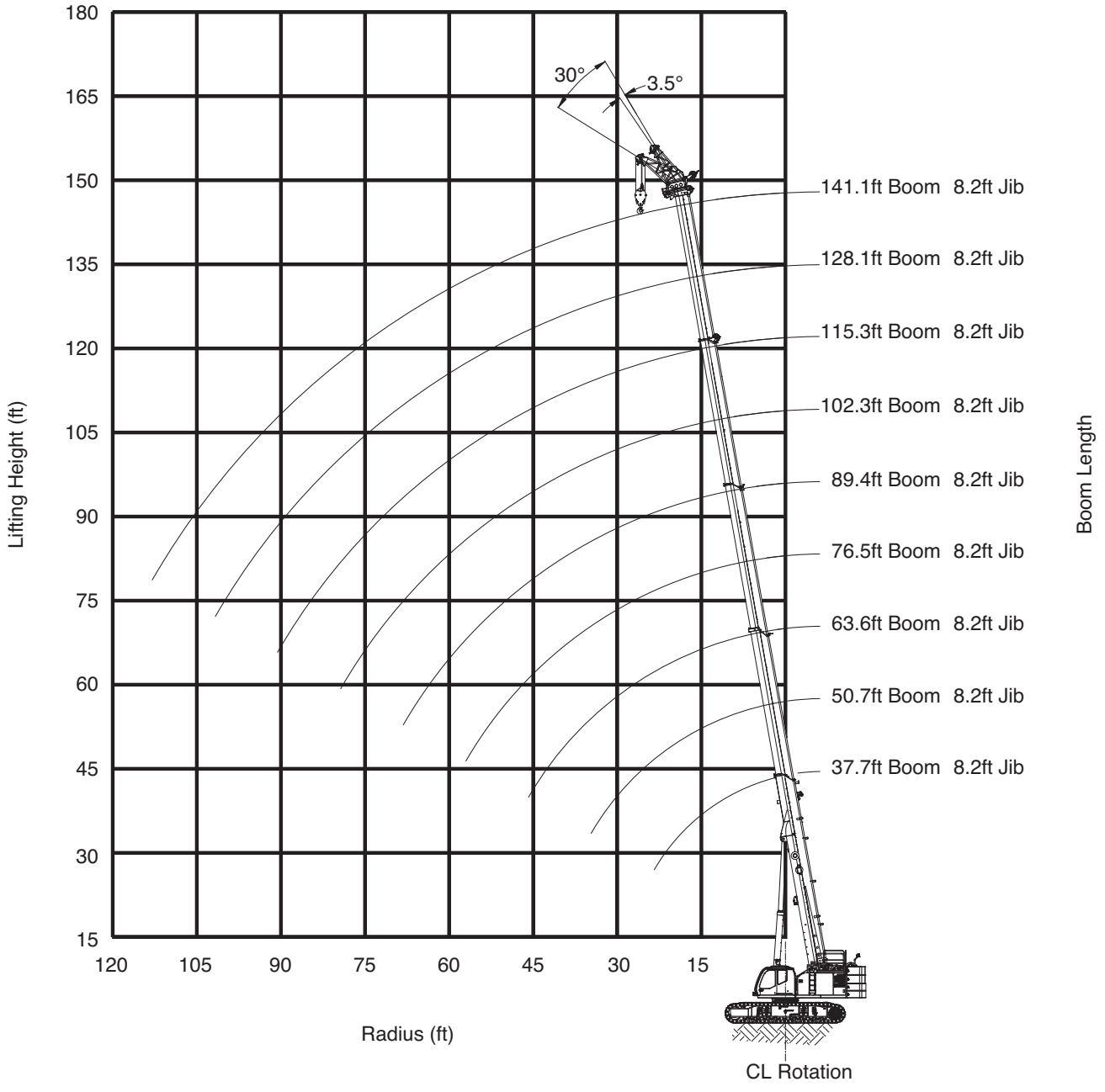
ft	37.7 ft 0.5°	1.5°	2.5°	4°	50.7 ft 0.5°	1.5°	2.5°	4°	63.6 ft 0.5°	1.5°	2.5°	4°	ft
						1,000 lb							
10	-	180.0	180.0	145.4	-	111.6	111.6	110.5	-	98.6	98.5	77.1	10
12	-	160.6	160.6	137.9	-	111.6	111.6	110.5	-	97.2	97.2	77.1	12
15	-	121.0	109.9	96.1	-	111.6	99.6	84.1	-	95.3	91.2	75.0	15
20	-	72.5	68.2	62.4	-	67.9	62.5	55.4	-	64.4	58.0	50.2	20
25	-	50.6	48.5	45.6	-	47.2	44.3	40.3	-	44.7	41.2	36.6	25
30	-	38.3	37.4	36.0	-	37.4	37.3	34.7	-	36.2	36.2	33.9	30
35	-	-	-	-	-	31.0	29.9	28.2	-	31.4	29.9	27.7	35
40	-	-	-	-	-	25.5	24.7	23.7	-	25.9	24.8	23.2	40
45	-	-	-	-	-	-	-	-	-	21.7	20.9	19.8	45
50	-	-	-	-	-	-	-	-	-	18.6	18.0	17.2	50
55	-	-	-	-	-	-	-	-	-	16.2	15.8	15.3	55

ft	76.5 ft 0.5°	1.5°	2.5°	4°	89.4 ft 0.5°	1.5°	2.5°	4°	102.3 ft 0.5°	1.5°	2.5°	4°	ft
						1,000 lb							
10	-	96.1	81.8	59.6	-	-	-	-	-	-	-	-	10
12	-	91.3	81.8	59.6	-	-	-	-	-	-	-	-	12
15	-	76.9	75.9	59.6	-	70.3	63.3	46.9	-	32.1	32.1	32.1	15
20	-	63.1	56.0	47.4	-	58.1	53.7	44.6	-	37.2	37.2	36.9	20
25	-	44.2	40.1	35.0	-	43.3	38.8	33.2	-	37.2	37.2	32.9	25
30	-	33.6	33.6	32.6	-	32.5	29.5	25.8	-	33.2	29.9	25.8	30
35	-	31.4	29.7	27.1	-	25.2	23.2	20.5	-	26.0	23.8	20.8	35
40	-	26.1	24.7	22.8	-	20.1	18.6	17.7	-	20.9	19.5	18.6	40
45	-	22.0	20.9	19.5	-	17.1	16.7	16.1	-	18.3	17.7	17.0	45
50	-	18.8	18.0	16.9	-	15.5	15.2	14.7	-	16.7	16.2	15.6	50
55	-	16.3	15.7	14.9	-	14.2	13.9	13.6	-	15.3	15.0	13.8	55
60	-	14.3	13.8	13.2	-	13.1	12.9	12.5	-	13.8	13.2	12.2	60
65	-	12.7	12.3	11.8	-	12.1	11.9	11.6	-	12.2	11.6	10.8	65
70	-	-	-	-	-	11.2	11.0	10.4	-	10.8	10.3	9.6	70
75	-	-	-	-	-	10.2	9.9	9.4	-	9.6	9.2	8.6	75
80	-	-	-	-	-	9.2	9.0	8.7	-	8.6	8.2	7.7	80
85	-	-	-	-	-	-	-	-	-	7.7	7.4	7.0	85
90	-	-	-	-	-	-	-	-	-	6.9	6.7	6.4	90
95	-	-	-	-	-	-	-	-	-	6.3	6.1	5.9	95

ft	115.3 ft 0.5°	1.5°	2.5°	4°	128.1 ft 0.5°	1.5°	2.5°	4°	141.1 ft 0.5°	1.5°	2.5°	4°	ft
						1,000 lb							
20	-	37.2	37.2	31.0	-	-	-	-	-	-	-	-	20
25	-	36.3	36.3	31.0	-	34.8	32.3	26.0	-	28.8	25.0	18.0	25
30	-	33.0	29.7	25.5	-	31.9	28.6	24.5	-	28.2	25.0	18.0	30
35	-	26.4	23.9	21.6	-	25.9	23.9	22.1	-	25.5	23.0	18.0	35
40	-	21.6	20.8	19.7	-	22.8	21.2	18.6	-	21.3	19.3	16.7	40
45	-	19.7	19.0	17.2	-	19.5	17.9	15.8	-	18.0	16.4	14.2	45
50	-	17.7	16.5	14.9	-	16.6	15.3	13.6	-	15.3	14.0	12.2	50
55	-	15.3	14.3	13.0	-	14.2	13.2	11.8	-	13.1	12.0	10.5	55
60	-	13.3	12.5	11.4	-	12.3	11.4	10.2	-	11.3	10.4	9.1	60
65	-	11.6	11.0	10.1	-	10.6	9.9	8.9	-	9.8	9.0	7.8	65
70	-	10.2	9.7	8.9	-	9.3	8.7	7.8	-	8.4	7.7	6.8	70
75	-	9.0	8.6	7.9	-	8.1	7.6	6.8	-	7.3	6.7	5.8	75
80	-	8.0	7.6	7.1	-	7.1	6.6	6.0	-	6.3	5.8	5.0	80
85	-	7.1	6.8	6.3	-	6.2	5.8	5.2	-	5.4	4.9	4.3	85
90	-	6.3	6.0	5.6	-	5.4	5.1	4.6	-	4.6	4.2	3.5	90
95	-	5.6	5.4	5.0	-	4.7	4.4	3.9	-	3.8	3.4	2.8	95
100	-	5.0	4.8	4.5	-	4.1	3.8	3.3	-	3.0	2.7	2.2	100
105	-	4.5	4.4	4.1	-	3.4	3.1	2.8	-	2.4	2.1	*	105
110	-	-	-	-	-	2.8	2.6	2.3	-	*	*	*	110
115	-	-	-	-	-	2.3	2.1	1.8	-	*	*	*	115
120	-	-	-	-	-	1.9	1.7	1.5	-	*	*	*	120
125	-	-	-	-	-	-	-	-	-	*	*	*	125
130	-	-	-	-	-	-	-	-	-	*	*	*	130

* For explanations see page 29

Page 27 + 28:
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.

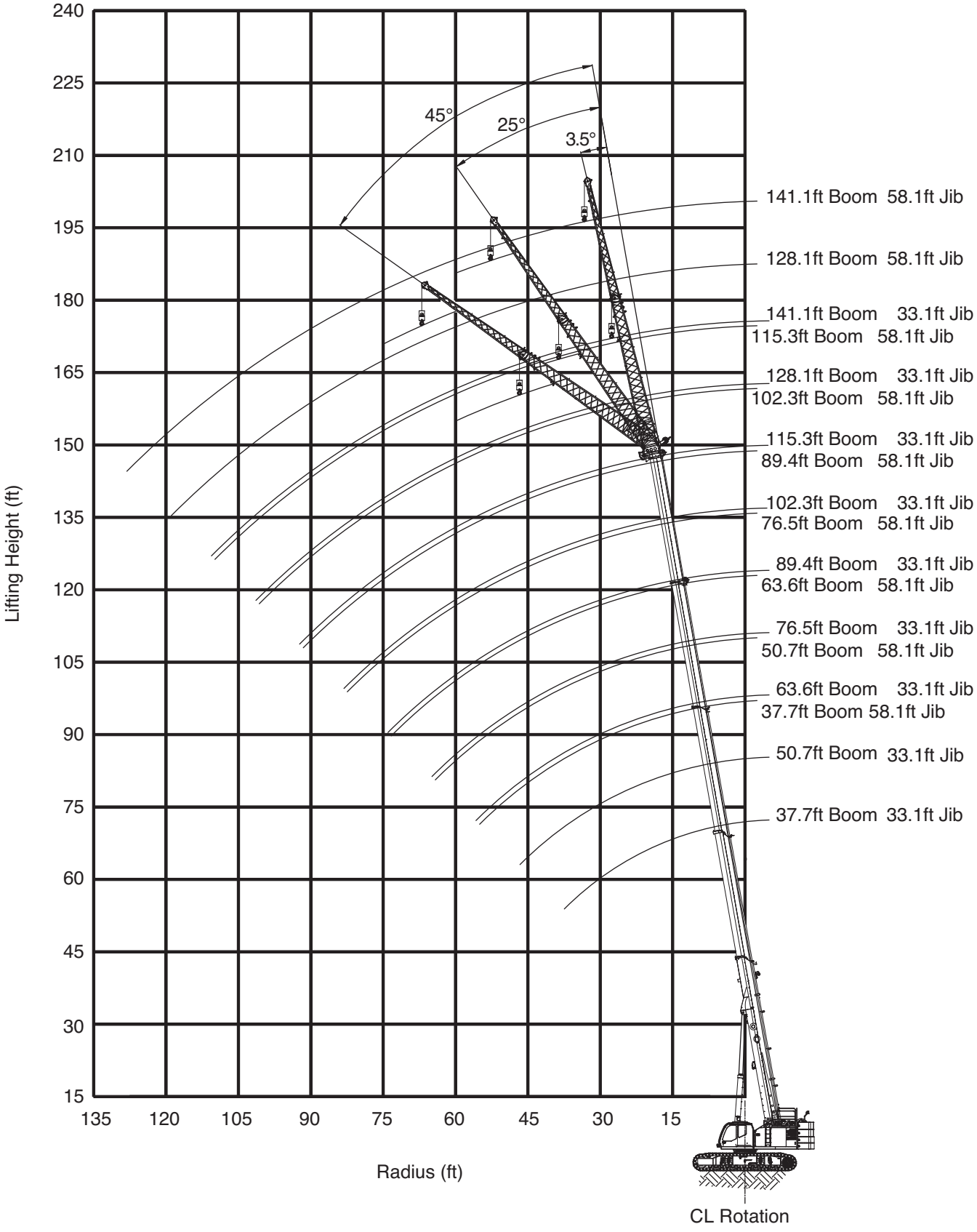

180
165
150
135
120
105
90
75
60
45
30
15
Lifting Height (ft)
120
105
90
75
60
45
30
15
Radius (ft)
30°
3.5°
141.1ft Boom 8.2ft Jib
128.1ft Boom 8.2ft Jib
115.3ft Boom 8.2ft Jib
102.3ft Boom 8.2ft Jib
89.4ft Boom 8.2ft Jib
76.5ft Boom 8.2ft Jib
63.6ft Boom 8.2ft Jib
50.7ft Boom 8.2ft Jib
37.7ft Boom 8.2ft Jib
Boom Length
CL Rotation

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

45,000 lb + 20,000 lb | 17'10" | 0.5° | 8.2 ft | 20 mph | 360° | ASME B30.5

	37.7 ft		102.3 ft		115.3 ft		128.1 ft		141.1 ft		
	3.5°	30°	3.5°	30°	3.5°	30°	3.5°	30°	3.5°	30°	
ft	1,000 lb										ft
10	47.8	36.8	-	-	-	-	-	-	-	-	10
12	45.9	35.8	-	-	-	-	-	-	-	-	12
15	43.3	34.7	-	-	-	-	-	-	-	-	15
20	39.9	33.2	29.7	28.1	-	-	-	-	-	-	20
25	37.4	32.3	26.9	25.8	28.0	26.6	28.2	-	-	-	25
30	35.7	32.2	23.4	22.6	24.6	23.5	25.5	24.2	23.3	-	30
35	35.1	32.2	20.6	20.0	21.8	21.0	22.9	21.8	23.3	22.4	35
40	-	-	18.4	17.9	19.6	19.0	20.6	19.8	21.4	20.4	40
45	-	-	16.5	16.1	17.7	17.2	18.8	18.1	19.6	18.8	45
50	-	-	14.9	14.7	16.1	15.7	17.2	16.6	18.0	17.3	50
55	-	-	13.6	13.4	14.8	14.5	15.8	15.4	16.6	16.1	55
60	-	-	12.4	12.3	13.6	13.3	14.6	14.2	15.4	15.0	60
65	-	-	11.4	11.3	12.6	12.4	13.5	13.2	14.3	14.0	65
70	-	-	10.6	10.5	11.7	11.5	12.6	12.4	13.0	13.1	70
75	-	-	9.8	9.7	10.8	10.7	11.8	11.6	11.9	12.0	75
80	-	-	9.1	9.0	10.1	10.0	11.0	10.9	10.9	11.0	80
85	-	-	8.5	8.4	9.5	9.4	10.4	10.2	10.0	10.1	85
90	-	-	7.9	7.9	8.9	8.8	9.7	9.7	9.1	9.2	90
95	-	-	7.4	-	8.4	8.3	9.2	9.1	8.4	8.4	95
100	-	-	7.0	-	7.9	7.9	8.7	8.6	7.7	7.8	100
105	-	-	-	-	7.5	-	7.9	8.0	7.1	7.1	105
110	-	-	-	-	7.1	-	7.1	7.2	6.4	6.5	110
115	-	-	-	-	6.8	-	6.5	6.5	5.7	5.8	115
120	-	-	-	-	-	-	5.8	-	5.1	5.1	120
125	-	-	-	-	-	-	5.3	-	4.4	4.5	125
130	-	-	-	-	-	-	-	-	3.8	-	130
135	-	-	-	-	-	-	-	-	3.2	-	135
140	-	-	-	-	-	-	-	-	2.7	-	140
	4	4	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.


240
225
210
195
180
165
150
135
120
105
90
75
60
45
30
15
Lifting Height (ft)
135
120
105
90
75
60
45
30
15
Radius (ft)
45°
25°
3.5°
141.1ft Boom 58.1ft Jib
128.1ft Boom 58.1ft Jib
141.1ft Boom 33.1ft Jib
115.3ft Boom 58.1ft Jib
128.1ft Boom 33.1ft Jib
102.3ft Boom 58.1ft Jib
115.3ft Boom 33.1ft Jib
89.4ft Boom 58.1ft Jib
102.3ft Boom 33.1ft Jib
76.5ft Boom 58.1ft Jib
89.4ft Boom 33.1ft Jib
63.6ft Boom 58.1ft Jib
76.5ft Boom 33.1ft Jib
50.7ft Boom 58.1ft Jib
63.6ft Boom 33.1ft Jib
37.7ft Boom 58.1ft Jib
50.7ft Boom 33.1ft Jib
37.7ft Boom 33.1ft Jib
CL Rotation

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

45,000 lb + 20,000 lb	17'10"	0.5°	33.1 ft	20 mph	360°	ASME B30.5

	37.7 ft			102.3 ft			115.3 ft			128.1 ft			141.1 ft			
	3.5°	25°	45°	3.5°	25°	45°	3.5°	25°	45°	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
25	14.6	14.6	-	14.6	-	-	-	-	-	-	-	-	-	-	-	25
30	14.6	14.3	11.9	14.6	-	-	14.6	-	-	-	-	-	-	-	-	30
35	14.6	13.2	11.2	14.6	14.6	-	14.6	-	-	14.6	-	-	13.5	-	-	35
40	14.6	12.2	10.7	14.6	14.6	-	14.6	14.6	-	14.6	-	-	13.5	-	-	40
45	13.7	11.4	10.2	14.6	13.7	11.1	14.6	13.7	-	14.6	13.5	-	13.5	-	-	45
50	12.5	10.8	9.9	13.5	12.7	10.8	13.8	12.7	10.9	14.0	12.7	10.9	13.5	12.5	-	50
55	11.6	10.3	9.8	12.4	11.7	10.5	12.8	11.8	10.6	13.0	11.9	10.7	13.0	11.8	10.7	55
60	10.8	10.0	-	11.4	10.8	10.3	11.8	11.0	10.3	12.1	11.1	10.4	12.1	11.1	10.3	60
65	-	-	-	10.6	10.1	9.9	11.0	10.3	10.0	11.3	10.4	10.0	11.3	10.4	9.9	65
70	-	-	-	9.9	9.4	9.2	10.3	9.7	9.4	10.6	9.9	9.5	10.6	9.9	9.4	70
75	-	-	-	9.2	8.8	8.7	9.6	9.1	8.9	9.9	9.3	9.0	10.0	9.3	8.9	75
80	-	-	-	8.6	8.3	8.2	9.0	8.6	8.4	9.3	8.8	8.5	9.5	8.8	8.5	80
85	-	-	-	8.0	7.8	7.7	8.5	8.1	8.0	8.8	8.3	8.1	8.9	8.4	8.1	85
90	-	-	-	7.6	7.4	7.3	8.0	7.7	7.5	8.3	7.9	7.7	8.5	8.0	7.8	90
95	-	-	-	7.1	6.9	6.9	7.6	7.3	7.2	7.9	7.5	7.4	8.1	7.6	7.4	95
100	-	-	-	6.7	6.6	6.5	7.2	6.9	6.8	7.5	7.2	7.0	7.7	7.3	7.1	100
105	-	-	-	6.3	6.2	-	6.8	6.6	6.5	7.1	6.8	6.7	7.3	7.0	6.8	105
110	-	-	-	6.0	5.9	-	6.5	6.3	6.2	6.8	6.5	6.4	7.0	6.7	6.5	110
115	-	-	-	5.7	5.6	-	6.1	6.0	6.0	6.5	6.3	6.2	6.7	6.4	6.3	115
120	-	-	-	5.4	5.4	-	5.9	5.7	-	6.2	6.0	5.9	6.1	6.1	6.0	120
125	-	-	-	5.2	-	-	5.6	5.5	-	5.9	5.8	5.7	5.6	5.9	5.8	125
130	-	-	-	-	-	-	5.4	5.3	-	5.7	5.6	-	5.0	5.4	5.6	130
135	-	-	-	-	-	-	5.2	5.1	-	5.3	5.3	-	4.5	4.9	5.0	135
140	-	-	-	-	-	-	5.0	-	-	4.8	5.0	-	4.0	4.4	-	140
	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

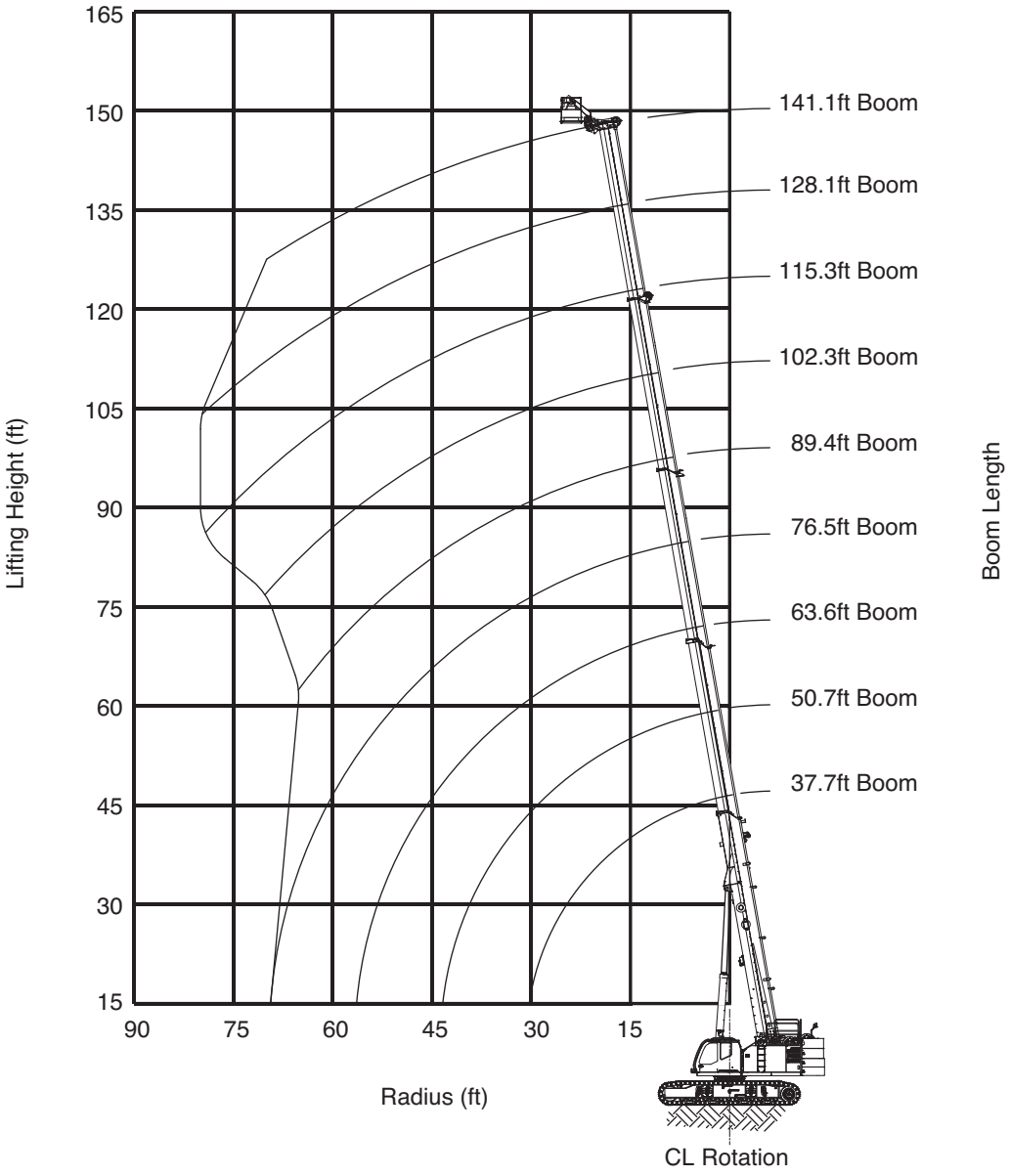
45,000 lb + 20,000 lb | 17'10" | 0.5° | 58.1 ft | 20 mph | 360° | ASME B30.5

	37.7 ft			102.3 ft			115.3 ft			128.1 ft			141.1 ft			
	3.5°	25°	45°	3.5°	25°	45°	3.5°	25°	45°	3.5°	25°	45°	3.5°	25°	45°	
ft	1,000 lb															ft
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10
15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15
20	9.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
25	9.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25
30	9.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30
35	9.9	-	-	7.5	-	-	-	-	-	-	-	-	-	-	-	35
40	9.1	8.1	-	7.5	-	-	7.2	-	-	6.9	-	-	-	-	-	40
45	8.3	7.6	-	7.5	-	-	7.2	-	-	6.9	-	-	6.7	-	-	45
50	7.6	7.1	-	7.5	-	-	7.2	-	-	6.9	-	-	6.7	-	-	50
55	7.1	6.7	5.7	7.5	7.5	-	7.2	7.2	-	6.9	-	-	6.7	-	-	55
60	6.6	6.2	5.4	7.5	7.3	-	7.2	7.2	-	6.9	6.9	-	6.7	-	-	60
65	6.1	5.8	5.2	7.5	7.0	5.6	7.2	7.1	-	6.9	6.9	-	6.7	6.7	-	65
70	5.8	5.4	4.9	7.5	6.8	5.4	7.2	6.9	5.4	6.9	6.9	-	6.7	6.7	-	70
75	5.4	5.1	4.7	7.4	6.5	5.2	7.2	6.6	5.3	6.9	6.7	5.3	6.7	6.7	-	75
80	5.2	4.8	4.6	7.1	6.2	5.1	7.2	6.4	5.2	6.9	6.5	5.2	6.7	6.6	5.2	80
85	4.9	4.7	-	6.8	6.0	5.0	6.9	6.1	5.0	6.9	6.2	5.0	6.7	6.3	5.1	85
90	-	-	-	6.5	5.7	4.8	6.7	5.9	4.9	6.9	6.0	4.9	6.7	6.1	5.0	90
95	-	-	-	6.1	5.5	4.7	6.4	5.7	4.8	6.6	5.8	4.8	6.7	5.9	4.8	95
100	-	-	-	5.8	5.3	4.6	6.0	5.5	4.7	6.3	5.6	4.7	6.4	5.7	4.8	100
105	-	-	-	5.4	5.2	4.5	5.7	5.3	4.6	5.9	5.4	4.6	6.0	5.6	4.7	105
110	-	-	-	5.1	5.0	4.5	5.4	5.1	4.5	5.6	5.3	4.5	5.8	5.4	4.6	110
115	-	-	-	4.8	4.7	4.4	5.1	5.0	4.4	5.4	5.1	4.5	5.5	5.2	4.5	115
120	-	-	-	4.6	4.5	4.3	4.9	4.7	4.3	5.1	4.9	4.4	5.2	4.9	4.4	120
125	-	-	-	4.3	4.3	4.3	4.6	4.5	4.3	4.8	4.7	4.3	5.0	4.7	4.3	125
130	-	-	-	4.1	4.1	4.1	4.4	4.3	4.2	4.6	4.5	4.3	4.8	4.5	4.3	130
135	-	-	-	3.9	3.9	-	4.2	4.1	4.1	4.4	4.3	4.2	4.5	4.3	4.2	135
140	-	-	-	3.7	3.7	-	4.0	3.9	3.9	4.2	4.1	4.0	4.4	4.2	4.1	140
145	-	-	-	3.5	3.5	-	3.8	3.7	-	4.0	3.9	3.9	4.2	4.0	3.9	145
150	-	-	-	3.4	-	-	3.7	3.6	-	3.9	3.7	3.7	3.7	3.8	3.8	150
160	-	-	-	-	-	-	3.4	3.3	-	3.6	3.5	-	2.9	3.4	3.5	160
170	-	-	-	-	-	-	-	-	-	3.0	3.2	-	2.1	2.5	3.3	170
180	-	-	-	-	-	-	-	-	-	-	-	-	1.5	1.7	-	180
190	-	-	-	-	-	-	-	-	-	-	-	-	0.9	-	-	190
	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

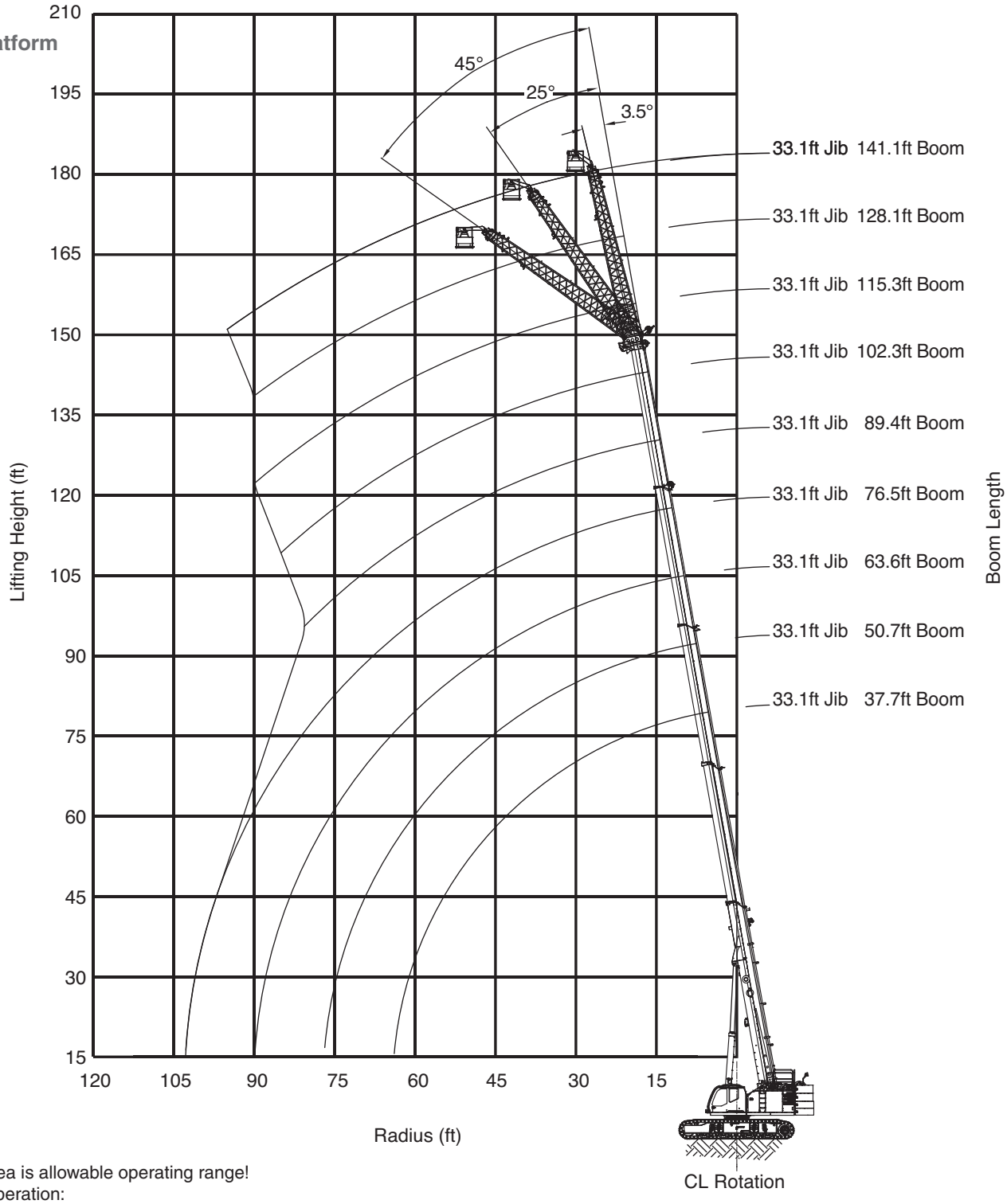


Shaded area is allowable operating range!
Limits of operation:
Max. load capacity = 750 lb · Max. radius when mounted on main boom = 80 ft · Max. occupancy = 2 persons

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 = 100 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

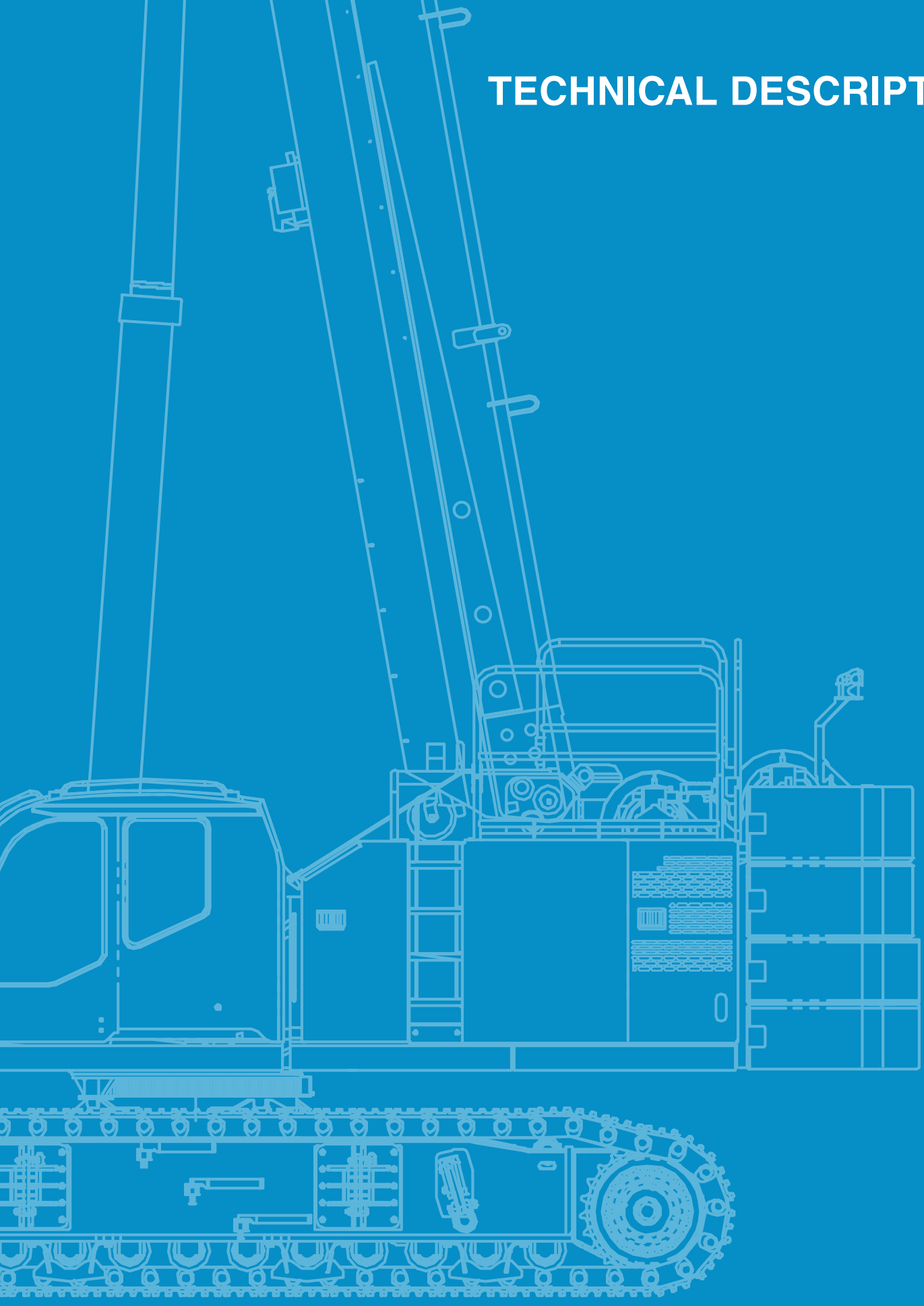
Definitions and Explanations

- 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

Boom

5-section full power telescoping boom with 2 extension modes. System consists of two double acting hydraulic cylinders with load holding valves and extension and retraction cables.
Retracted length: 37' 8"
Extended length: 141' 1" Extension time: 161 s
Elevating angles: -1.5° to 81.5° Elevating time: 83 s
Max. lifting height: 138'
Boom head: Six, 19.5 inch diameter cast nylon main sheaves on heavy-duty roller bearings. Two, 17.5 inch diameter lead in sheaves on heavy-duty roller bearings. Designed for quick reeving of head and load block.

Auxiliary boom head

Quick reeve, single 17.5 inch diameter high-strength sheave mounted on a heavy-duty roller bearing. Allows single part reeving.

Counterweight

6 piece counterweight design. Three upper counterweight configurations.
Configuration „A" = 15,000 lb
Configuration „A+" = 22,500 lb
Configuration „B" = 30,000 lb
Configuration „C" = 45,000 lb
Two carbody counterweights, 10,000 lb each.

Winches

Planetary geared two-speed winch includes a hydraulic motor, multidisc internal brake and counterbalance valve. Drum rotation indicator is included (complete winch performance specs on page 22).

Main winch:
Rope diameter and length: 3/4 in. x 695 ft
Single line pull: 19,830 lb – first layer
Single line speed: 368 ft/min – 4th layer

Auxiliary winch:
Rope diameter and length: 3/4 in. x 480 ft
Single line pull: 19,830 lb – first layer
Single line speed: 368 ft/min – 4th 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: 0.7 mph · High: 2.1 mph
Gradeability (unladen): 78 %
Unladen ground pressure: 11.8 psi

Swing

Gear motor driving a 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 - 2.2 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 video cameras. 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 hoist and boom extend. Foot pedals control the travel and swing service brake functions. Swing brake pedal is hydraulic. Selectable modes for fine control and travel. Travel function can be operated by foot pedals or joystick. 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 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.

Optional equipment

Heavy lift jib	Total length: 8.2 ft	Offset angles: 3.5° and 30°	Max. lifting height: 148.6 ft
Main jib	Total length: 33.1 ft	Offset angles: 3.5°, 25° and 45°	Max. lifting height: 173.6 ft
Fly jib	Total length: 58.1 ft	Offset angles: 3.5°, 25° and 45°	Max. lifting height: 198.0 ft

Hook blocks	90 ton quick reeve hook block – six, 19.5 inch steel sheaves, swivel hook and safety latch. 55 ton quick reeve hook block – three, 19.5 inch steel sheaves, swivel hook and safety latch. 22 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.
Carbody jack system	Includes carbody mounted jacks, valves, electric control pendant, and auto-level raise system.
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 inch x 72 inch, 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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