

GTC-1600

160 TON MAX. CRANE CAPACITY



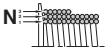
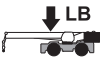
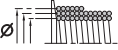
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Key

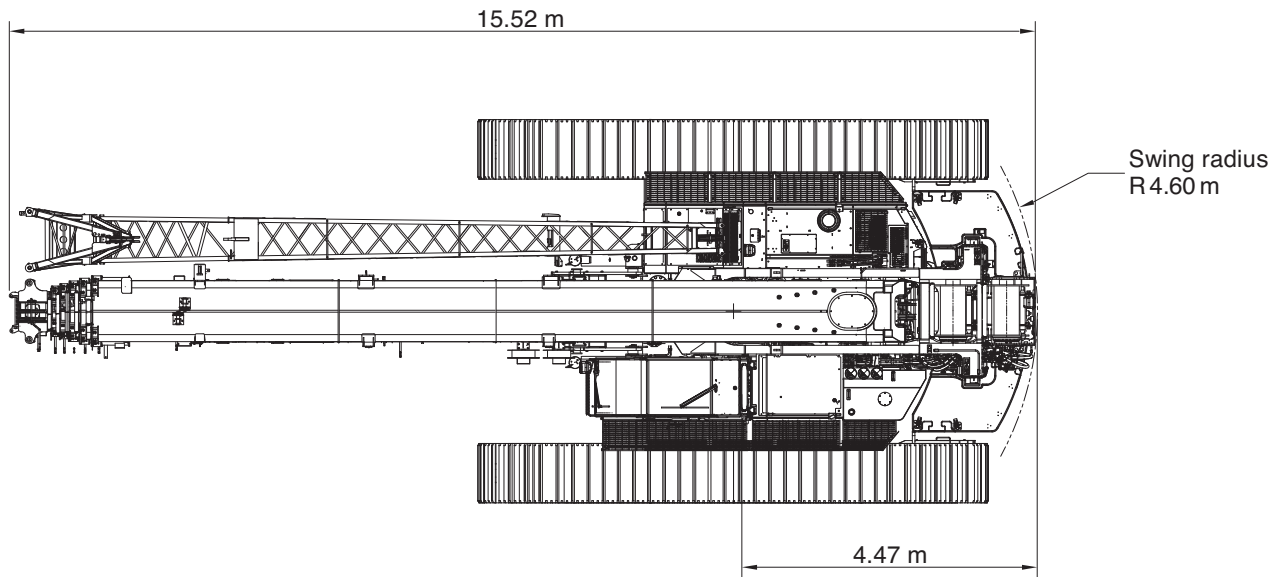
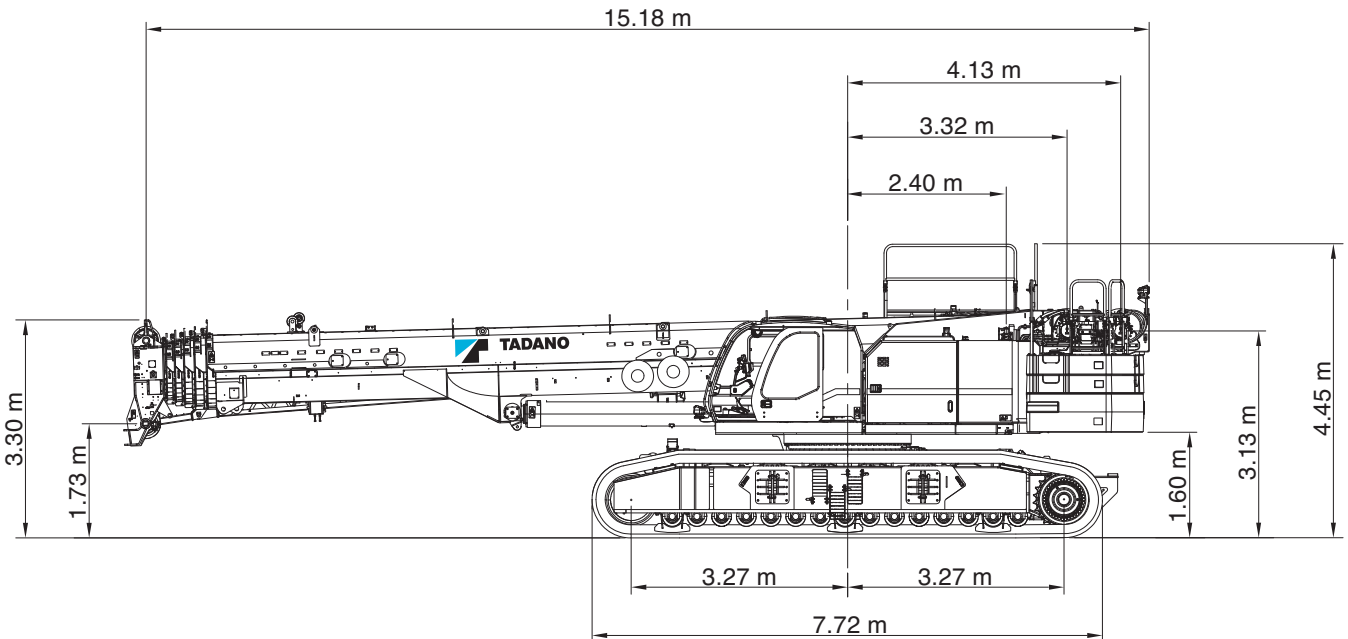
	Counterweight		Jib offset angle
	Radius		Max. line pull
	Main boom		Rope length
	Folding swing-away jib		Rope
	Insert		Hook block
	Carbody counterweight		Assembly weight
	Overall width		Transport variant
	Roll / list angle		Wire rope layer
	Total weight		Total wire rope
	Hook block		Winch layer diameter
	Overhaul ball		Wind speed in m/s
	Travel speed		
	Gradeability		
	Working speeds		

SPECIFICATIONS



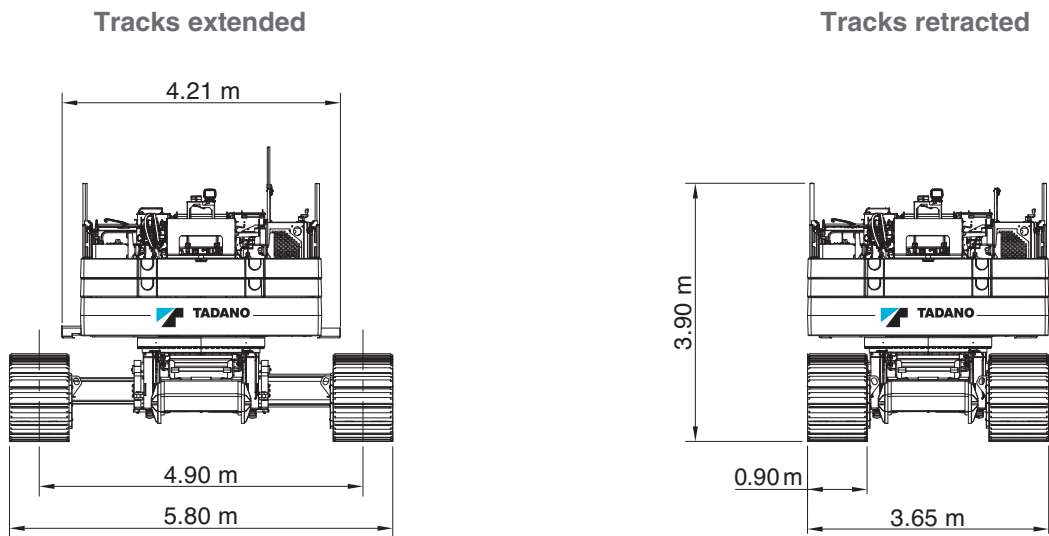
Specifications

Vehicle dimensions



Specifications

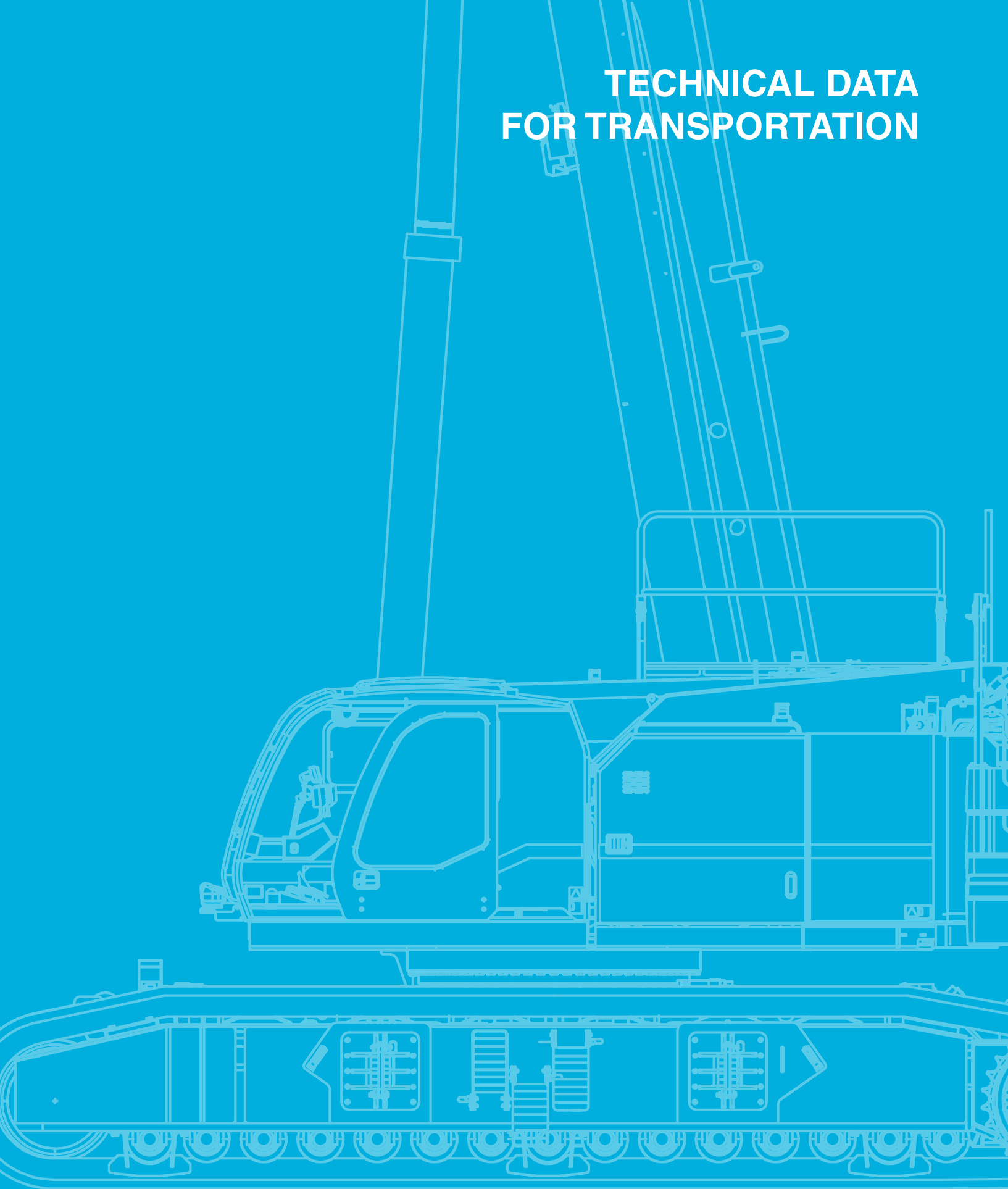
Vehicle dimensions



General dimensions	
Overall length	15.52 m
Overall width (tracks extended)	5.80 m
Overall width (tracks retracted)	3.65 m
Overall width (tracks removed)	3.30 m
Overall height (working)	4.45 m

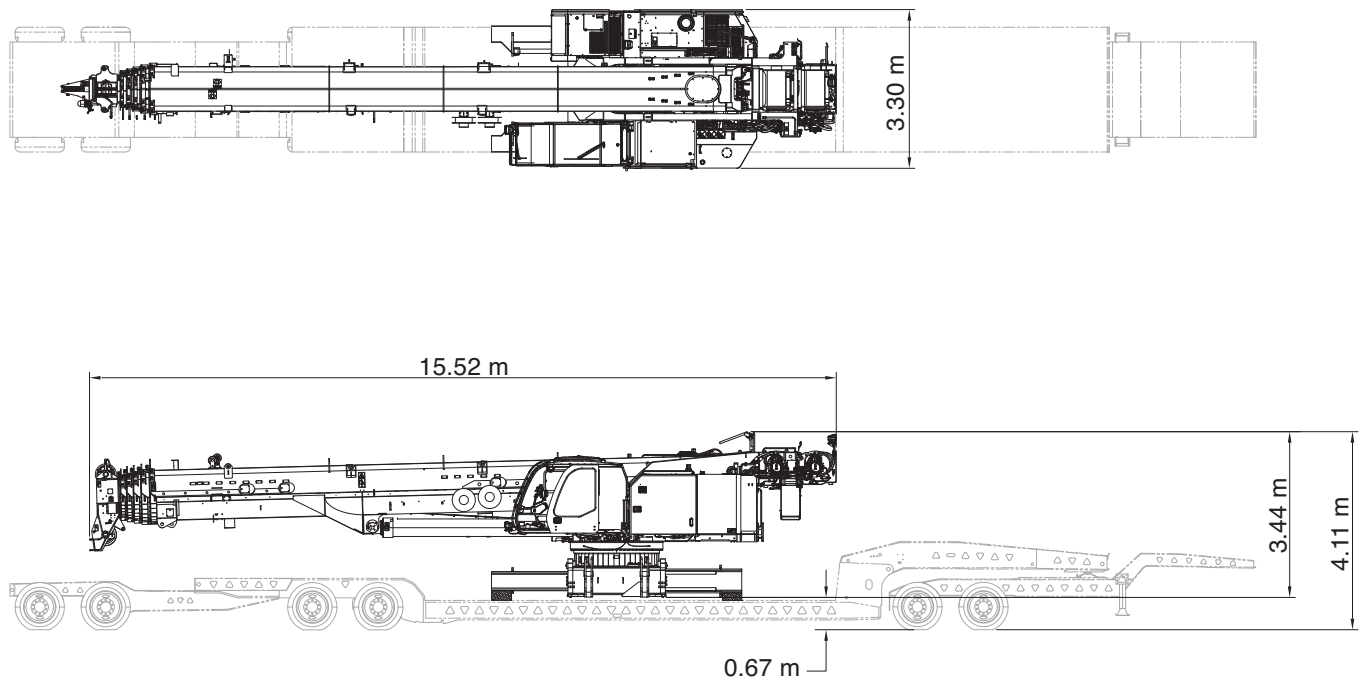
Notes

TECHNICAL DATA FOR TRANSPORTATION



Transportation

Transport dimensions



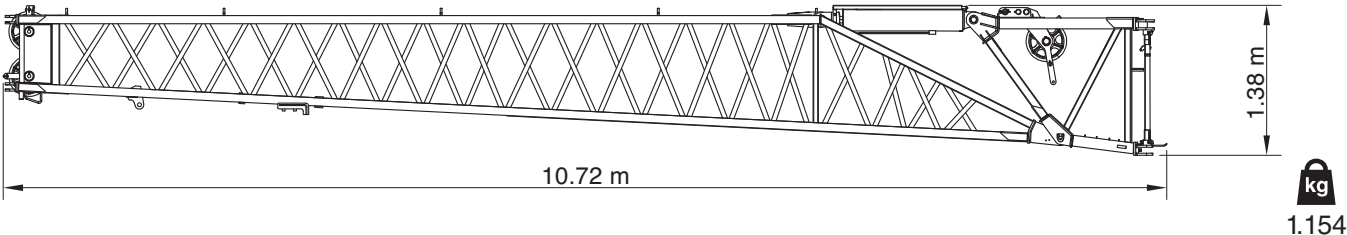
Transportation

Transport plan							
	kg	Dimensions L x W x H					
Crane transporter (with 2 winches, boom, wire rope, aux. nose sheave)	43.416	15.52 m x 3.30 m x 3.44 m	X				
Left track frame	13.708	7.72 m x 1.09 m x 1.33 m		X			
Right track frame	13.708	7.72 m x 1.09 m x 1.33 m			X		
Counterweight – Base assembly	18.280	1.83 m x 3.65 m x 1.78 m				X	
Counterweight – Mid	6.668	0.55 m x 3.65 m x 1.78 m					X
Counterweight – Upper	6.849	0.43 m x 3.65 m x 1.78 m					X
Carbody counterweight – Front counterweight with toolbox	5.978	1.34 m x 1.29 m x 0.91 m		X			
Carbody counterweight – Rear counterweight with shelf, 2 bars, 4 outrigger pads	5.742	2.69 m x 1.34 m x 0.95 m			X		
Heavy lift jib	657	2.67 m x 3.76 m x 0.96 m					X
Main jib	1.154	10.72 m x 1.38 m x 0.96 m					X
Fly jib	341	7.86 m x 0.53 m x 0.86 m					X
Jib insert	439	7.10 m x 0.96 m x 1.33 m					X
Jib insert	439	7.10 m x 0.96 m x 1.33 m					X
Hook block - 100 t	1.091	1.60 m x 0.57 m x 0.66 m				X	
Hook block - 45 t	606	1.34 m x 0.54 m x 0.53 m					X
Overhaul ball - 10 t	300	0.96 m x 0.28 m x 0.28 m			X		
Miscellaneous items (crate)	227	1.22 m x 0.91 m x 0.91 m				X	
Total net weight on trailer (kg)			43.416	19.686	19.750	19.598	17.153

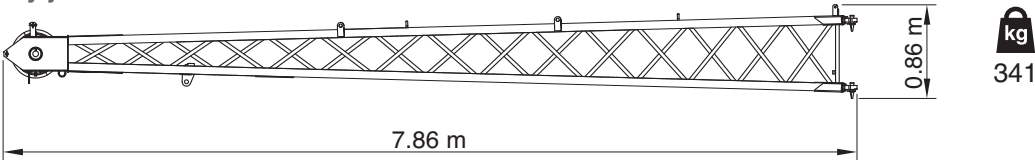
Transportation

Transport dimensions

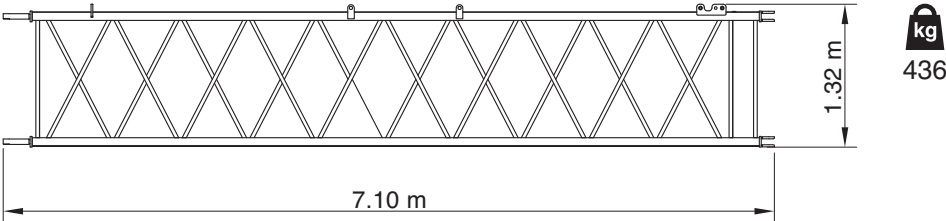
Main jib



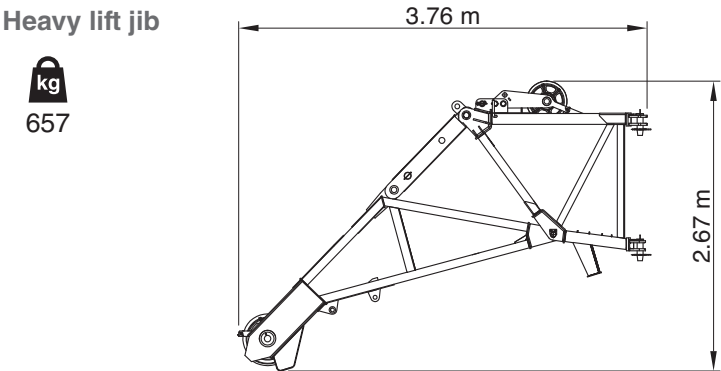
Fly jib



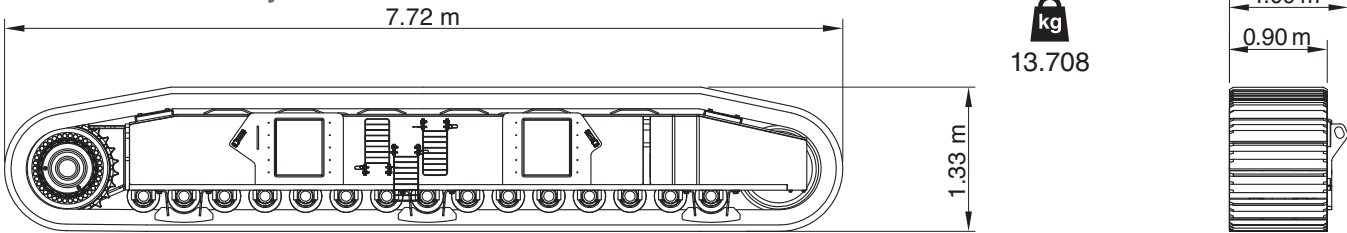
Jib insert



Heavy lift jib



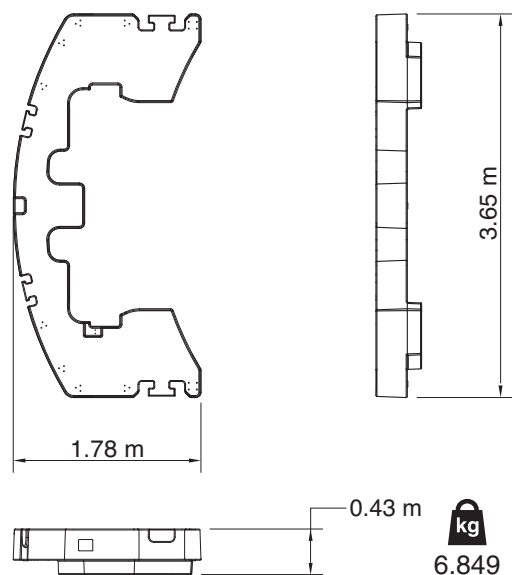
Track frame assembly



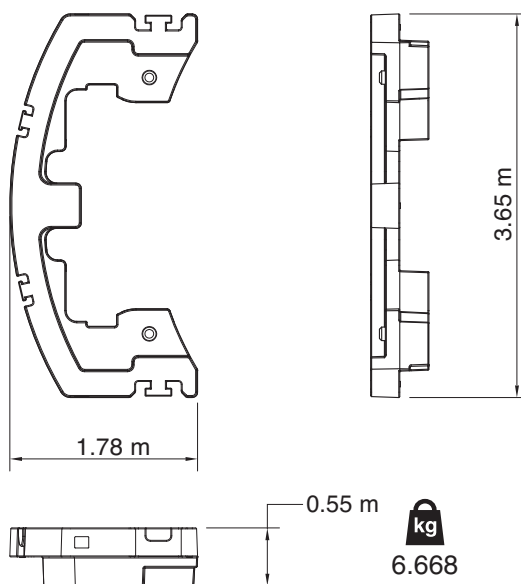
Transportation

Transport dimensions

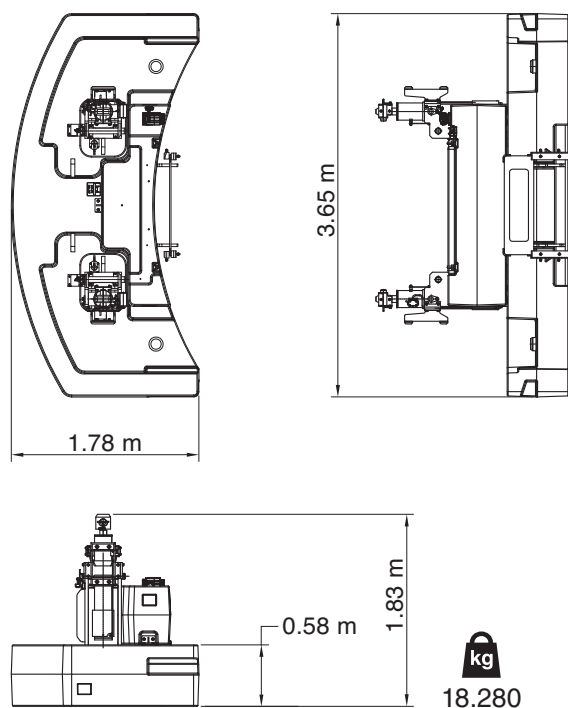
Upper counterweight



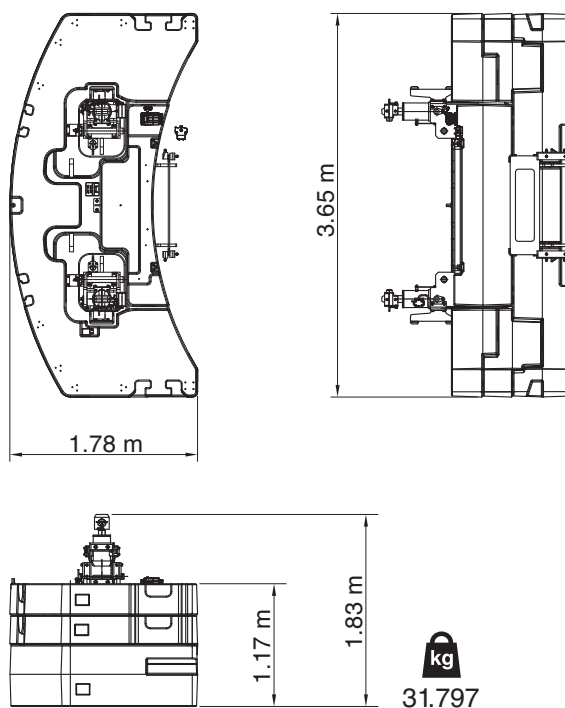
Mid counterweight



Counterweight configuration 18.3 t



Counterweight configuration 31.8 t

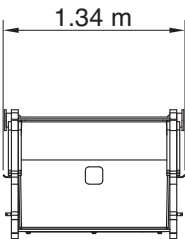
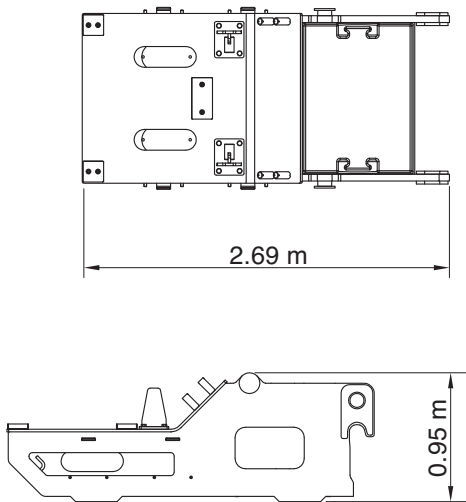


Transportation

Transport dimensions

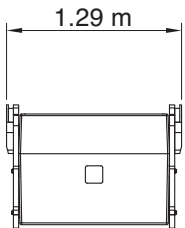
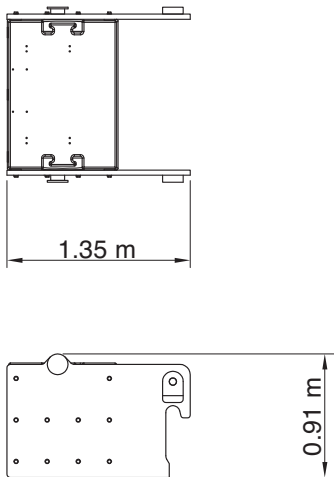
Rear carbody counterweight with shelf


5.742

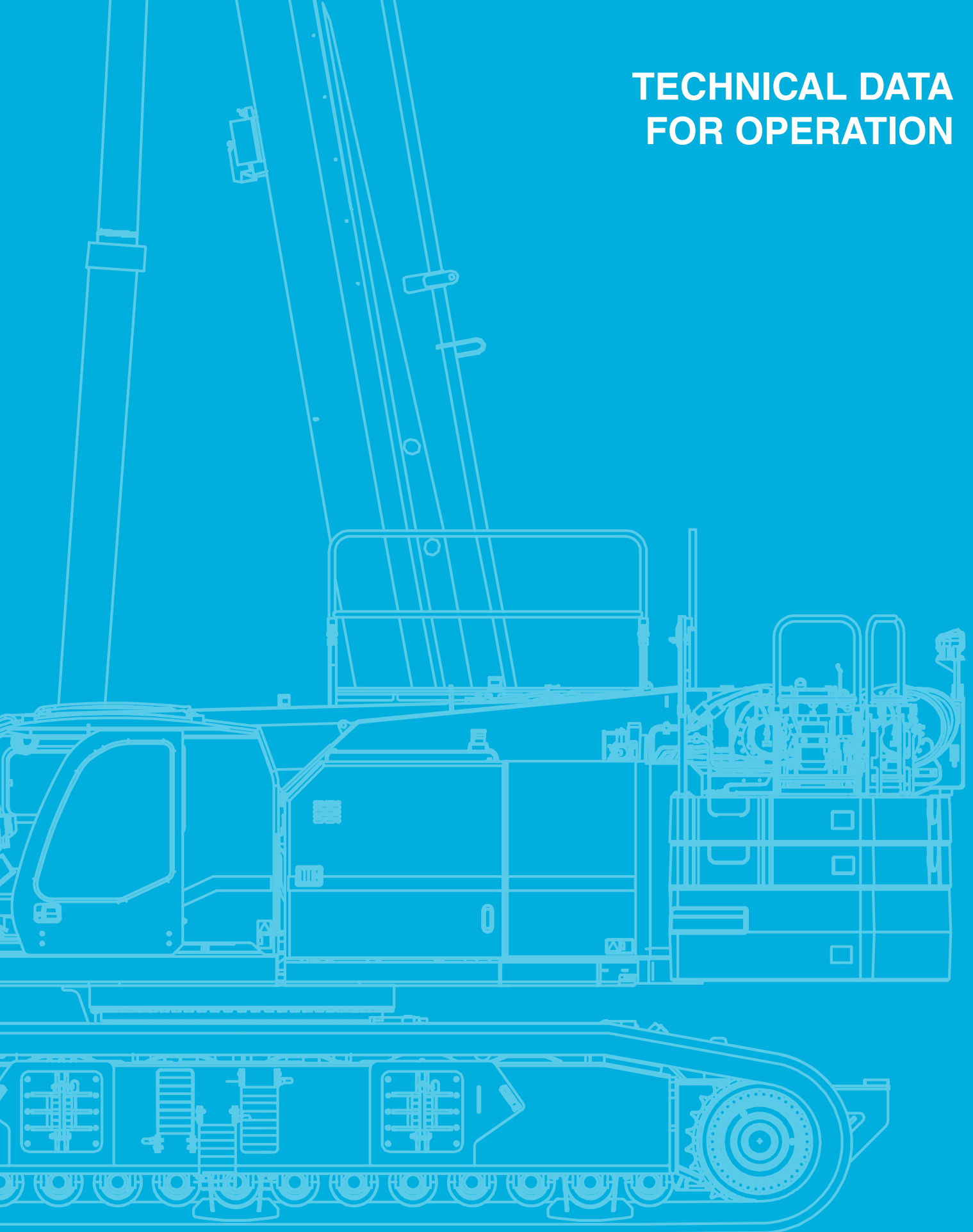


Front carbody counterweight

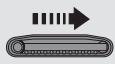
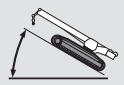

5.978

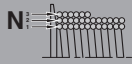
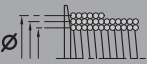
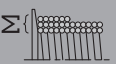


TECHNICAL DATA FOR OPERATION



Operation

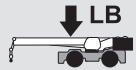
Speeds and gradeability			
	1.0 km/hr / 2.5 km/hr		52 %

Main winch and auxiliary winch performance						
		high normal 				
1	97.1 kN	103.4 m/min.	74.2 m/min.	401.9 mm	44.8 m	44.8 m
2	88.4 kN	112.2 m/min.	80.5 m/min.	441.7 mm	48.6 m	93.5 m
3	81.1 kN	121.0 m/min.	86.8 m/min.	481.5 mm	52.5 m	145.9 m
4	74.9 kN	129.8 m/min.	93.2 m/min.	521.3 mm	56.3 m	202.2 m
5	69.6 kN	138.6 m/min.	99.5 m/min.	561.1 mm	60.1 m	262.3 m
6	65.0 kN	147.4 m/min.	105.8 m/min.	600.9 mm	63.9 m	326.3 m

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

Operation

Machine weights



Standard equipment package

115.842 kg



31.797 kg

Standard Crane

with 6 section, 61.0 m boom, full counterweight, 2 winches with wire rope, auxiliary nose sheave, and 900 mm 3-bar semi grouser track shoes

114.349 kg

Standard Crane

with 6 section, 61.0 m boom, 2 winches with wire rope, auxiliary nose sheave (counterweights and crawlers removed)

43.416 kg

Standard Crane

with 2 winches and wire rope (boom, hoist cylinder, counterweights and crawlers removed)

25.816 kg

Optional Equipment

Heavy lift jib: 3.6 m

657 kg

Main jib: 10.3 m

1.154 kg

Jib tip: 7.8 m

341 kg

Lattice jib insert: 2 pieces, 7 m

878 kg

Auxiliary nose sheave

63 kg



100 t



7

1.091 kg



45 t



3

606 kg



10 t

300 kg

Track frame with 900 mm 3-bar semi grouser track shoes

13.708 kg

Track frame with 900 mm flat track shoes

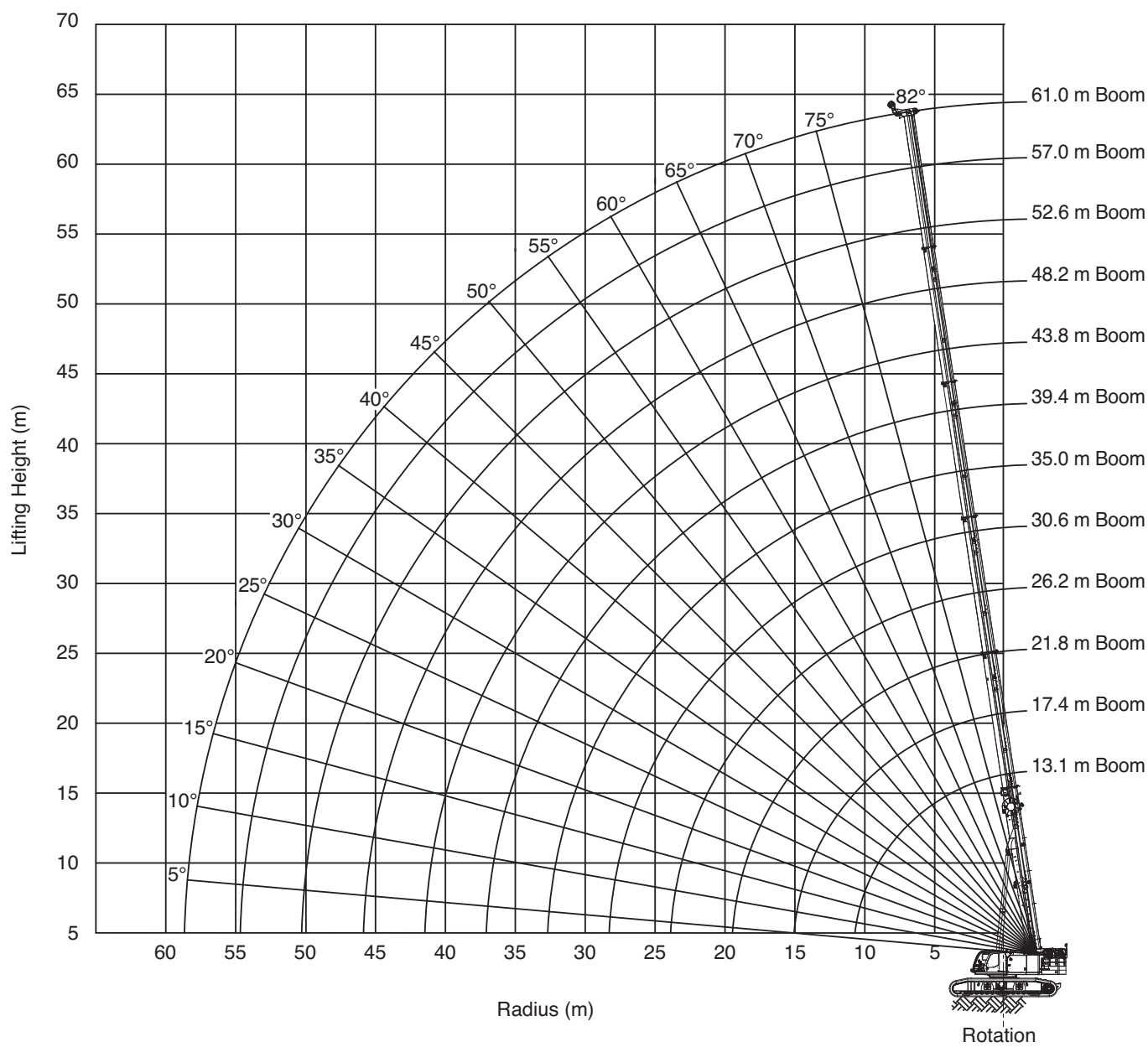
13.294 kg

Track frame with 1000 mm 3-bar semi grouser track shoes

14.072 kg

Track frame with 1000 mm flat track shoes

13.620 kg



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

 31.8 t		 5.80 m		 0.5°		 8.9 m/s		360°		EN13000			
 13,1 m	17,4 m	21,8 m	26,2 m	30,6 m	35,0 m	39,4 m	43,8 m	48,2 m	52,6 m	57,0 m	61,0 m		
m	t	t	t	t	t	t	t	t	t	t	t	m	
2,5	145,0*	90,7	79,0	-	-	-	-	-	-	-	-	2,5	
3	110,6*	90,7	79,0	37,0	-	-	-	-	-	-	-	3	
3,5	101,5*	90,7	79,0	66,0	-	-	-	-	-	-	-	3,5	
4	94,1	90,7	79,0	66,0	37,0	-	-	-	-	-	-	4	
4,5	87,5	84,4	79,0	66,0	48,2	-	-	-	-	-	-	4,5	
5	81,6	78,8	76,4	66,0	48,2	35,2	-	-	-	-	-	5	
5,5	76,4	73,9	71,5	64,9	48,2	35,2	-	-	-	-	-	5,5	
6	71,6	69,5	67,3	61,9	48,2	37,9	-	-	-	-	-	6	
6,5	67,2	65,6	63,5	59,1	48,2	36,2	30,1	-	-	-	-	6,5	
7	63,1	62,0	59,7	55,3	48,2	35,2	30,1	-	-	-	-	7	
7,5	59,2	58,7	54,9	51,0	48,2	35,2	29,7	22,1	-	-	-	7,5	
8	54,7	54,1	50,7	47,2	45,7	35,2	28,9	23,9	-	-	-	8	
9	45,3	45,3	43,8	41,9	39,9	35,2	27,3	23,6	17,2	-	-	9	
10	38,0	38,4	38,2	37,5	35,3	34,4	25,3	22,5	18,9	13,5	-	10	
11	-	33,2	33,0	33,5	31,5	31,1	23,6	21,6	18,9	15,0	-	11	
12	-	30,2	28,9	29,6	29,3	28,1	22,3	20,7	18,1	15,0	12,0	12	
14	-	24,0	24,6	24,2	24,3	23,4	20,6	18,6	16,6	14,9	12,0	10,4	14
16	-	-	20,2	20,3	19,9	19,3	18,9	16,7	15,3	13,9	12,0	10,4	16
18	-	-	17,0	17,0	16,7	16,6	16,5	15,1	14,0	12,9	11,8	10,4	18
20	-	-	-	14,5	14,1	14,6	14,0	13,5	12,7	11,9	11,0	10,1	20
22	-	-	-	12,5	12,2	12,6	12,0	11,6	11,5	11,1	10,3	9,5	22
24	-	-	-	-	10,5	11,0	10,4	10,7	10,2	9,8	9,6	8,9	24
26	-	-	-	-	9,2	9,7	9,1	9,4	8,9	9,2	8,7	8,3	26
28	-	-	-	-	8,2	8,5	8,0	8,3	8,3	8,1	7,6	7,6	28
30	-	-	-	-	-	7,6	7,0	7,4	7,4	7,1	6,6	6,6	30
32	-	-	-	-	-	7,2	6,3	6,9	6,6	6,3	5,8	5,8	32
34	-	-	-	-	-	-	5,9	6,2	5,8	5,5	5,1	5,1	34
36	-	-	-	-	-	-	5,6	5,5	5,2	4,9	4,4	4,4	36
38	-	-	-	-	-	-	-	5,0	4,6	4,3	3,9	3,9	38
40	-	-	-	-	-	-	-	4,5	4,1	3,8	3,4	3,4	40
42	-	-	-	-	-	-	-	-	3,7	3,4	2,9	2,9	42
44	-	-	-	-	-	-	-	-	3,3	3,0	2,5	2,5	44
46	-	-	-	-	-	-	-	-	-	2,6	2,2	2,1	46
48	-	-	-	-	-	-	-	-	-	2,3	1,8	1,8	48
50	-	-	-	-	-	-	-	-	-	2,0	1,5	1,5	50
52	-	-	-	-	-	-	-	-	-	-	1,3	1,2	52
54	-	-	-	-	-	-	-	-	-	-	-	1,0	54

* Requires additional lifting equipment

Tracks fully extended – 360° – Up to 4° slope

 31.8 t		 5.80 m		 4°		 8.9 m/s		360°		EN13000		
 13,1 m	17,4 m	21,8 m	26,2 m	30,6 m	35,0 m	39,4 m	43,8 m	48,2 m	52,6 m	57,0 m	61,0 m	
m	t	t	t	t	t	t	t	t	t	t	t	m
2,5	94,2	79,5	61,9	-	-	-	-	-	-	-	-	2,5
3	94,2	79,5	61,9	35,4	-	-	-	-	-	-	-	3
3,5	94,2	79,5	61,9	45,5	-	-	-	-	-	-	-	3,5
4	94,1	79,5	61,9	45,5	26,6	-	-	-	-	-	-	4
4,5	87,5	79,5	61,9	45,5	31,2	-	-	-	-	-	-	4,5
5	81,6	71,7	61,9	45,5	31,2	22,9	-	-	-	-	-	5
5,5	76,1	65,0	58,0	45,5	31,2	22,9	-	-	-	-	-	5,5
6	69,0	60,2	53,4	45,5	31,2	22,9	-	-	-	-	-	6
6,5	62,1	55,4	49,4	44,1	31,2	22,9	19,5	-	-	-	-	6,5
7	56,0	51,2	45,9	41,1	31,2	22,9	19,5	-	-	-	-	7
7,5	50,9	47,5	42,8	40,0	31,2	22,9	19,5	15,3	-	-	-	7,5
8	46,6	43,6	40,1	37,6	31,2	22,9	19,5	15,3	-	-	-	8
9	39,8	37,3	35,3	33,5	30,4	22,9	19,5	15,3	13,6	-	-	9
10	34,8	33,4	30,7	30,1	27,4	22,9	19,5	15,3	13,6	11,3	-	10
11	-	29,8	28,3	26,7	26,4	22,9	19,5	15,2	13,6	11,3	-	11
12	-	26,6	26,1	25,0	23,9	22,1	19,2	14,8	13,6	11,3	8,2	12
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28	-	-	-	-	8,1	7,7	6,8	7,3	6,9	6,4	5,8	28
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32	-	-	-	-	-	6,8	6,1	5,9	5,4	5,0	4,5	32
34	-	-	-	-	-	-	5,7	5,4	4,9	4,5	3,9	34
36	-	-	-	-	-	-	5,2	4,9	4,4	4,0	3,4	36
38	-	-	-	-	-	-	-	4,4	3,9	3,5	3,0	38
40	-	-	-	-	-	-	-	4,1	3,5	3,1	2,6	40
42	-	-	-	-	-	-	-	-	3,2	2,8	2,2	42
44	-	-	-	-	-	-	-	-	2,9	2,4	1,9	44
46	-	-	-	-	-	-	-	-	-	2,2	1,6	46
48	-	-	-	-	-	-	-	-	-	1,9	1,4	48
50	-	-	-	-	-	-	-	-	-	1,8	1,1	50

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

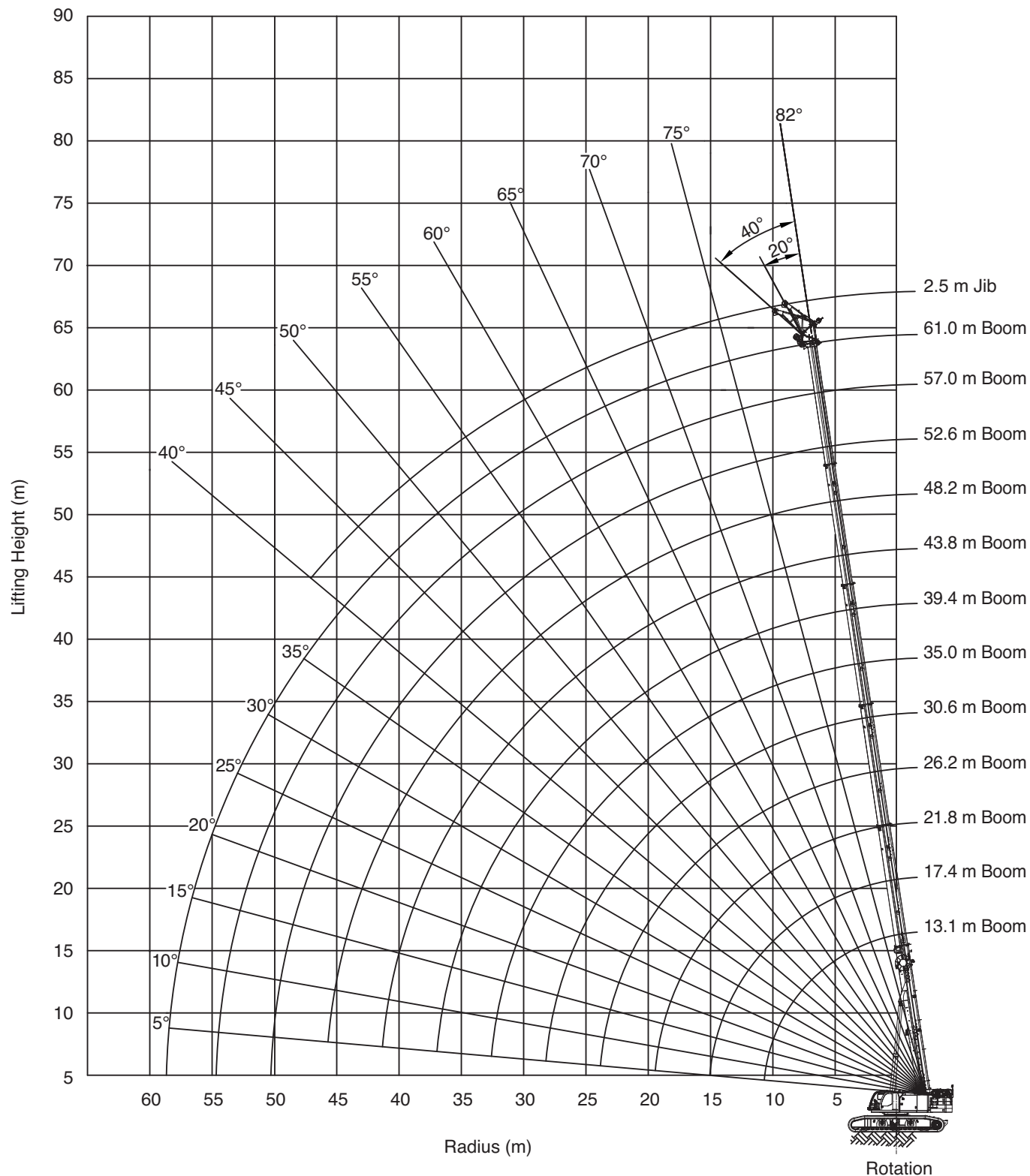
 0 t		 5.80 m				 0.5°			 8.9 m/s		360°		EN13000	
 13,1 m	 17,4 m	 21,8 m	 26,2 m	 30,6 m	 35,0 m	 39,4 m	 43,8 m	 48,2 m	 52,6 m	 57,0 m	 61,0 m	 65,0 m		
m	t	t	t	t	t	t	t	t	t	t	t	m		
2,5	94,2	90,7	79,0	-	-	-	-	-	-	-	-	2,5		
3	94,2	90,7	79,0	37,0	-	-	-	-	-	-	-	3		
3,5	94,2	81,6	71,6	62,1	-	-	-	-	-	-	-	3,5		
4	78,3	68,1	60,0	55,0	37,0	-	-	-	-	-	-	4		
4,5	64,8	57,5	51,4	47,7	42,7	-	-	-	-	-	-	4,5		
5	55,0	49,5	44,7	42,0	37,8	35,2	-	-	-	-	-	5		
5,5	47,5	43,2	39,4	37,3	35,8	32,5	-	-	-	-	-	5,5		
6	41,7	38,2	37,0	35,1	32,3	29,4	-	-	-	-	-	6		
6,5	36,9	35,7	34,0	31,9	29,4	28,4	26,0	-	-	-	-	6,5		
7	33,0	32,2	30,9	29,1	26,9	26,1	23,9	-	-	-	-	7		
7,5	29,0	29,3	28,2	26,7	24,8	24,1	22,1	20,3	-	-	-	7,5		
8	25,7	26,7	26,0	25,0	22,9	22,4	20,5	19,5	-	-	-	8		
9	20,7	22,4	22,2	21,9	20,0	20,1	18,7	17,8	16,0	-	-	9		
10	17,0	18,6	19,3	19,1	18,3	17,7	16,8	15,9	14,8	13,5	-	10		
11	-	15,7	16,6	16,9	16,2	15,7	14,9	14,2	13,2	12,4	-	11		
12	-	13,4	14,3	15,0	14,5	14,1	13,3	12,7	11,8	11,0	10,1	12		
14	-	10,1	10,9	11,5	11,6	11,4	10,8	10,3	9,6	8,9	8,1	14		
16	-	-	8,5	9,1	9,1	9,3	8,9	8,5	7,8	7,2	6,5	16		
18	-	-	6,7	7,3	7,4	7,5	7,3	7,1	6,4	5,9	5,2	18		
20	-	-	-	6,0	6,0	6,1	6,0	5,8	5,3	4,8	4,2	20		
22	-	-	-	4,9	4,9	5,0	4,9	4,7	4,4	3,9	3,3	22		
24	-	-	-	-	4,0	4,1	4,0	3,9	3,5	3,2	2,6	24		
26	-	-	-	-	3,3	3,4	3,2	3,1	2,8	2,5	1,9	26		
28	-	-	-	-	2,7	2,8	2,6	2,5	2,1	1,9	1,4	28		
30	-	-	-	-	-	2,3	2,1	2,0	1,6	1,3	-	30		
32	-	-	-	-	-	1,9	1,6	1,5	1,2	-	-	32		
34	-	-	-	-	-	-	1,3	1,1	-	-	-	34		

Tracks fully retracted – 360° – Up to 1.5° slope

 31.8 t		 3.65 m		 1.5°		 8.9 m/s		360°		EN13000		
  13,1 m	17,4 m	21,8 m	26,2 m	30,6 m	35,0 m	39,4 m	43,8 m	48,2 m	52,6 m	57,0 m	61,0 m	
m	t	t	t	t	t	t	t	t	t	t	t	m
6	44,2	-	-	-	-	-	-	-	-	-	-	6
6,5	39,6	-	-	-	-	-	-	-	-	-	-	6,5
7	35,6	-	-	-	-	-	-	-	-	-	-	7
7,5	32,3	32,9	-	-	-	-	-	-	-	-	-	7,5
8	29,5	30,4	-	-	-	-	-	-	-	-	-	8
9	24,9	25,8	25,9	-	-	-	-	-	-	-	-	9
10	21,4	22,3	22,6	21,9	20,5	-	-	-	-	-	-	10
11	-	19,5	19,9	19,7	18,5	18,3	16,9	-	-	-	-	11
12	-	17,2	17,6	18,1	16,7	16,6	15,3	15,0	14,5	13,5	-	12
14	-	13,7	14,2	14,6	14,0	14,1	12,9	13,1	12,3	11,6	10,7	14
16	-	-	11,6	12,1	12,0	11,9	11,6	11,2	10,5	9,8	9,0	16
18	-	-	9,7	10,1	10,0	10,0	9,8	9,6	9,0	8,4	7,6	18
20	-	-	-	8,6	8,5	8,5	8,4	8,2	7,7	7,2	6,5	20
22	-	-	-	7,4	7,3	7,3	7,1	7,0	6,6	6,2	5,5	22
24	-	-	-	-	6,3	6,3	6,1	6,0	5,6	5,2	4,7	24
26	-	-	-	-	5,5	5,5	5,3	5,1	4,7	4,4	3,9	26
28	-	-	-	-	4,8	4,8	4,6	4,4	4,0	3,7	3,3	28
30	-	-	-	-	-	4,2	3,9	3,8	3,4	3,1	2,6	30
32	-	-	-	-	-	3,7	3,4	3,2	2,9	2,6	2,1	32
34	-	-	-	-	-	-	3,0	2,8	2,4	2,1	1,7	34
36	-	-	-	-	-	-	2,6	2,4	2,0	1,7	1,3	36
38	-	-	-	-	-	-	-	2,0	1,6	1,3	-	38
40	-	-	-	-	-	-	-	1,7	1,3	1,0	-	40
42	-	-	-	-	-	-	-	-	1,0	-	-	42

Notes

Heavy lift jib



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

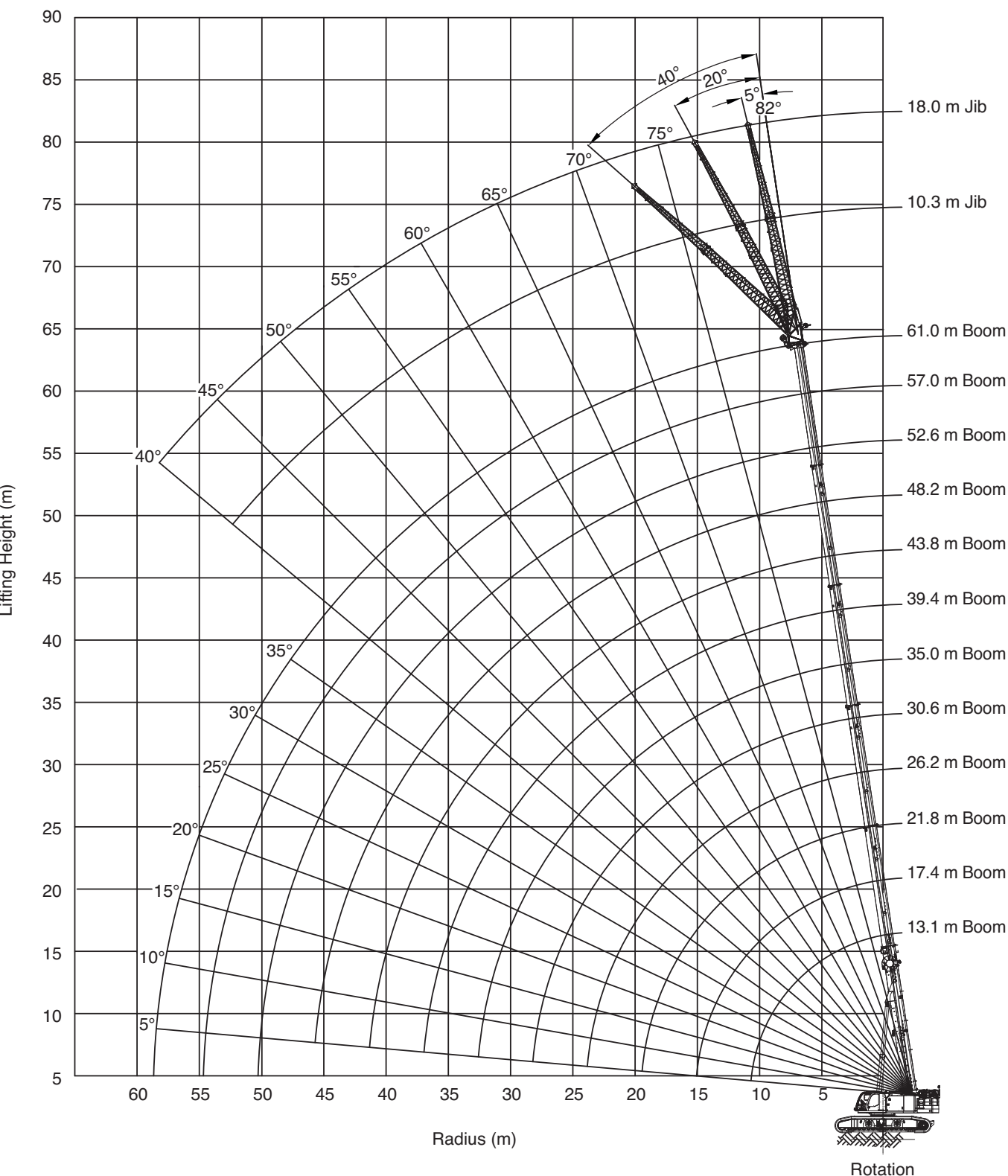
 31.8 t		 5.80 m		 0.5°		 3.60 m		 8.9 m/s		360°	EN13000
		35.0 m		52.6 m		57.0 m		61.0 m			
		20°	40°	20°	40°	20°	40°	20°	40°		
m	t	t		t	t	t	t	t	t	m	
6	22,2	-		-	-	-	-	-	-	6	
7	22,2	18,0		-	-	-	-	-	-	7	
8	21,6	17,9		-	-	-	-	-	-	8	
9	21,1	17,6		-	-	-	-	-	-	9	
10	20,6	17,3		-	-	-	-	-	-	10	
11	20,2	17,1		13,1	-	-	-	-	-	11	
12	19,7	16,8		13,1	12,6	-	-	-	-	12	
14	19,0	16,4		12,6	12,6	10,8	10,5	9,4	-	14	
16	18,3	16,1		11,8	11,9	10,5	10,5	9,4	9,2	16	
18	16,1	15,8		11,0	11,0	9,9	10,0	9,0	9,0	18	
20	13,5	13,7		10,2	10,2	9,3	9,4	8,5	8,6	20	
22	11,5	11,6		9,5	9,5	8,7	8,8	8,0	8,1	22	
24	9,8	9,9		8,8	8,8	8,2	8,2	7,5	7,6	24	
26	8,4	8,5		8,1	8,1	7,6	7,7	7,0	7,1	26	
28	7,3	7,3		7,0	7,1	7,1	7,2	6,6	6,6	28	
30	6,3	-		6,0	6,1	6,3	6,4	6,1	6,2	30	
32	5,4	-		5,1	5,2	5,4	5,5	5,4	5,5	32	
34	4,7	-		4,4	4,5	4,7	4,8	4,7	4,7	34	
36	-	-		3,7	3,8	4,0	4,1	4,0	4,1	36	
38	-	-		3,1	3,2	3,4	3,5	3,4	3,5	38	
40	-	-		2,6	2,7	2,9	3,0	2,9	2,9	40	
42	-	-		2,1	2,2	2,4	2,5	2,4	2,5	42	
44	-	-		1,7	1,7	2,0	2,0	2,0	2,0	44	
46	-	-		1,3	-	1,6	1,6	1,6	1,6	46	
48	-	-		1,0	-	1,3	1,3	1,3	1,3	48	
50	-	-		-	-	0,9	-	0,9	1,0	50	

Tracks fully extended – 360° – Up to 2.5° slope – with heavy lift jib

 31.8 t		 5.80 m		 2.5°		 3.60 m		 8.9 m/s		360°	EN13000
		35.0 m		52.6 m		57.0 m		61.0 m			
		20°	40°	20°	40°	20°	40°	20°	40°		
m		t	t	t	t	t	t	t	t	m	
6		19,9	-	-	-	-	-	-	-	6	
7		19,9	17,8	-	-	-	-	-	-	7	
8		19,9	17,5	-	-	-	-	-	-	8	
9		19,9	17,3	-	-	-	-	-	-	9	
10		19,9	17,0	-	-	-	-	-	-	10	
11		19,6	16,8	11,6	-	-	-	-	-	11	
12		19,2	16,6	11,3	11,4	-	-	-	-	12	
14		18,6	16,2	10,7	10,8	9,3	9,3	8,2	-	14	
16		16,8	15,9	10,1	10,1	9,0	8,9	7,9	8,0	16	
18		14,1	14,3	9,5	9,5	8,5	8,5	7,6	7,6	18	
20		12,0	12,1	8,9	8,9	8,1	8,0	7,2	7,2	20	
22		10,2	10,4	8,3	8,4	7,6	7,6	6,8	6,9	22	
24		8,8	8,9	7,8	7,9	7,2	7,1	6,4	6,5	24	
26		7,6	7,7	6,9	7,0	6,8	6,7	6,1	6,1	26	
28		6,6	6,6	5,9	6,1	6,3	6,1	5,7	5,8	28	
30		5,7	-	5,1	5,2	5,4	5,3	5,2	5,3	30	
32		5,0	-	4,4	4,4	4,7	4,6	4,5	4,6	32	
34		4,3	-	3,7	3,8	4,0	3,9	3,9	3,9	34	
36		-	-	3,1	3,2	3,4	3,4	3,3	3,4	36	
38		-	-	2,6	2,7	2,9	2,9	2,8	2,9	38	
40		-	-	2,2	2,2	2,4	2,4	2,3	2,4	40	
42		-	-	1,7	1,8	2,0	2,0	1,9	2,0	42	
44		-	-	1,4	1,4	1,6	1,6	1,5	1,6	44	
46		-	-	1,0	-	1,3	1,3	1,2	1,2	46	
48		-	-	-	-	1,0	1,0	0,9	0,9	48	

Notes

Folding jib



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

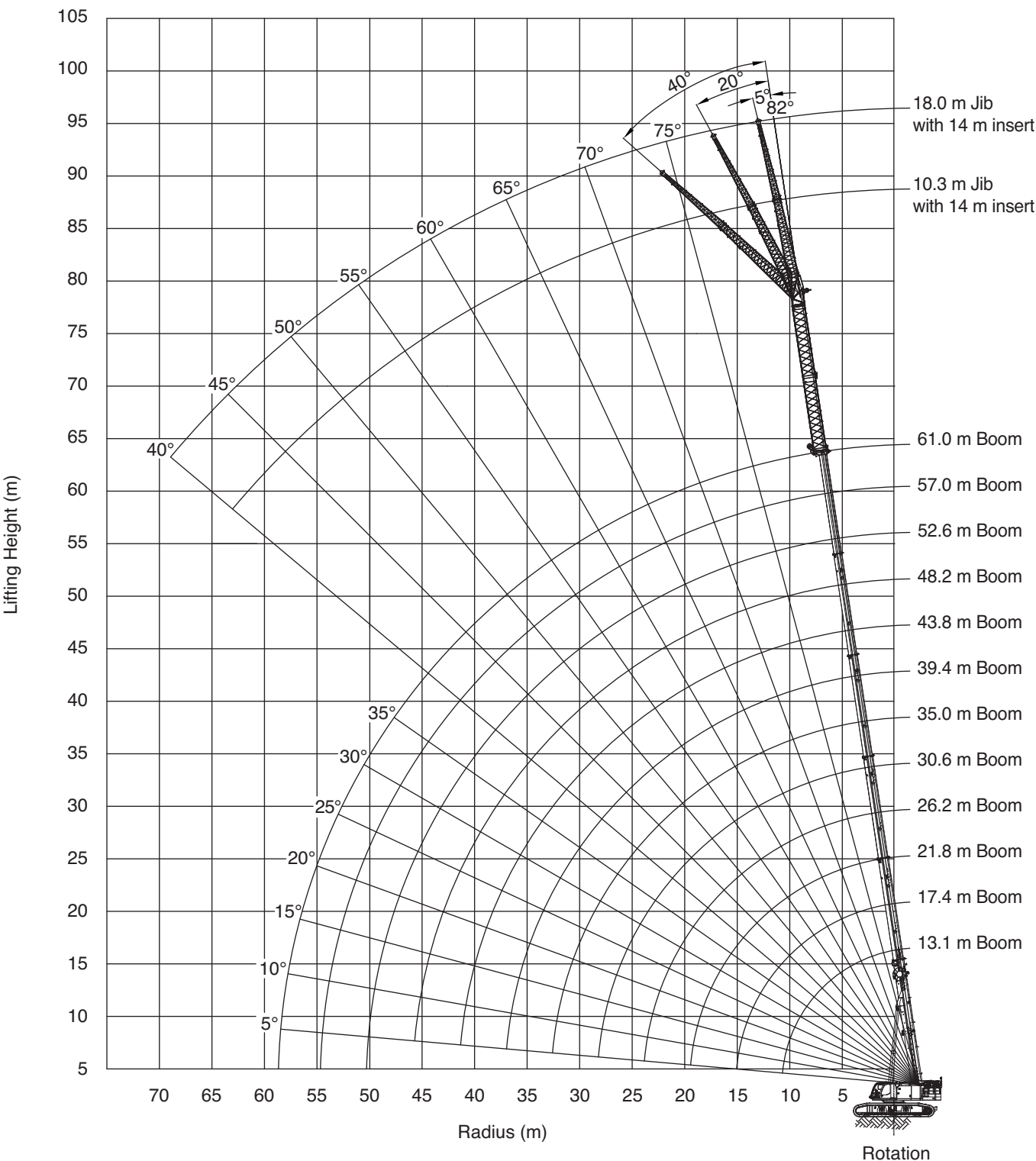
 31.8 t		 5.80 m		 0.5°		 10.3 m		 8.9 m/s		360°		EN13000		
 m		35.0 m			52.6 m			57.0 m			61.0 m			 m
		5°	20°	40°	5°	20°	40°	5°	20°	40°	5°	20°	40°	
t	t	t	t	t	t	t	t	t	t	t	t	t	t	
9	14,3	10,7	-	-	-	-	-	-	-	-	-	-	9	
10	13,8	10,3	-	-	-	-	-	-	-	-	-	-	10	
11	13,4	9,9	-	-	-	-	-	-	-	-	-	-	11	
12	13,0	9,6	7,3	7,2	-	-	-	-	-	-	-	-	12	
14	12,2	9,1	7,0	7,2	-	-	6,2	-	-	-	-	-	14	
16	11,2	8,6	6,7	7,2	7,2	-	6,2	6,2	-	5,5	-	-	16	
18	10,4	8,1	6,5	7,2	7,2	6,8	6,2	6,2	-	5,5	5,5	-	18	
20	9,7	7,7	6,3	7,2	7,0	6,6	6,2	5,9	5,7	5,5	5,4	-	20	
22	9,1	7,4	6,2	6,9	6,6	6,4	5,9	5,7	5,5	5,4	5,2	-	22	
24	8,6	7,1	6,0	6,6	6,3	6,1	5,6	5,4	5,2	5,1	4,9	4,8	24	
26	8,1	6,8	5,9	6,3	6,1	5,9	5,4	5,2	5,0	4,9	4,7	4,6	26	
28	7,7	6,6	5,8	6,0	5,8	5,6	5,1	5,0	4,8	4,7	4,5	4,4	28	
30	7,2	6,4	5,7	5,6	5,5	5,4	4,9	4,8	4,7	4,5	4,3	4,2	30	
32	6,3	6,2	5,6	5,3	5,3	5,1	4,7	4,6	4,5	4,3	4,2	4,0	32	
34	5,6	5,8	5,6	5,0	5,0	4,9	4,5	4,4	4,3	4,1	4,0	3,9	34	
36	4,9	5,1	5,2	4,4	4,7	4,7	4,3	4,2	4,1	3,9	3,8	3,8	36	
38	4,3	4,5	-	3,8	4,1	4,4	4,0	4,1	4,0	3,7	3,7	3,6	38	
40	3,8	3,9	-	3,3	3,6	3,8	3,5	3,8	3,9	3,5	3,5	3,5	40	
42	3,4	-	-	2,8	3,1	3,3	3,1	3,3	3,5	3,0	3,2	3,4	42	
44	-	-	-	2,4	2,6	2,8	2,6	2,8	3,0	2,6	2,8	3,0	44	
46	-	-	-	2,0	2,2	2,4	2,2	2,4	2,6	2,2	2,4	2,6	46	
48	-	-	-	1,7	1,8	2,0	1,9	2,1	2,2	1,8	2,0	2,2	48	
50	-	-	-	1,4	1,5	1,6	1,6	1,7	1,9	1,5	1,7	1,8	50	
52	-	-	-	1,1	1,2	-	1,3	1,4	1,5	1,2	1,4	1,5	52	
54	-	-	-	0,8	0,9	-	1,0	1,1	1,2	1,0	1,1	1,2	54	
56	-	-	-	-	-	-	0,8	0,9	-	-	0,8	0,9	56	

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

 31.8 t		 5.80 m		 0.5°		 18.0 m		 8.9 m/s		360°		EN13000		
 m		35.0 m			52.6 m			57.0 m			61.0 m			 m
		5°	20°	40°	5°	20°	40°	5°	20°	40°	5°	20°	40°	
t	t	t	t	t	t	t	t	t	t	t	t	t	t	
9	6,4	-	-	-	-	-	-	-	-	-	-	-	9	
10	6,4	-	-	-	-	-	-	-	-	-	-	-	10	
11	6,4	-	-	-	-	-	-	-	-	-	-	-	11	
12	6,4	-	-	-	-	-	-	-	-	-	-	-	12	
14	6,4	5,3	-	-	-	-	-	-	-	-	-	-	14	
16	6,2	5,0	-	-	4,7	-	-	-	-	-	-	-	16	
18	5,9	4,8	3,7	-	4,7	-	-	4,0	-	-	3,7	-	18	
20	5,6	4,5	3,6	-	4,7	4,4	-	4,0	-	-	3,7	-	20	
22	5,3	4,3	3,5	-	4,7	4,2	-	4,0	4,0	-	3,7	-	22	
24	5,0	4,1	3,4	-	4,7	4,1	-	4,0	4,0	-	3,7	3,7	24	
26	4,8	4,0	3,3	-	4,7	4,0	3,4	4,0	3,9	-	3,7	3,7	26	
28	4,6	3,8	3,3	-	4,6	3,9	3,3	4,0	3,7	3,2	3,7	3,7	28	
30	4,3	3,7	3,2	-	4,4	3,8	3,3	4,0	3,7	3,2	3,7	3,6	30	
32	4,1	3,6	3,2	-	4,3	3,7	3,2	3,9	3,6	3,1	3,6	3,4	32	
34	4,0	3,5	3,1	-	4,2	3,6	3,1	3,7	3,5	3,1	3,4	3,3	34	
36	3,8	3,4	3,1	-	4,0	3,5	3,1	3,6	3,4	3,0	3,3	3,2	36	
38	3,6	3,3	3,0	-	3,9	3,4	3,0	3,5	3,3	3,0	3,2	3,0	38	
40	3,5	3,2	3,0	-	3,7	3,3	3,0	3,4	3,2	2,9	3,0	2,9	40	
42	3,4	3,1	3,0	-	3,2	3,2	2,9	3,2	3,2	2,9	2,9	2,8	42	
44	3,3	3,1	3,0	-	2,8	3,2	2,9	3,0	3,0	2,8	2,8	2,7	44	
46	3,1	3,1	-	-	2,4	2,8	2,9	2,6	2,9	2,8	2,5	2,6	46	
48	2,8	2,9	-	-	2,1	2,4	2,7	2,2	2,6	2,8	2,1	2,5	48	
50	2,5	-	-	-	1,7	2,0	2,3	1,9	2,2	2,5	1,8	2,1	50	
52	-	-	-	-	1,4	1,7	1,9	1,6	1,9	2,1	1,5	1,8	52	
54	-	-	-	-	1,2	1,4	1,6	1,3	1,6	1,8	1,2	1,5	54	
56	-	-	-	-	0,9	1,1	1,3	1,1	1,3	1,5	1,0	1,2	56	
58	-	-	-	-	-	0,9	1,0	0,8	1,0	1,2	-	1,0	58	
60	-	-	-	-	-	-	-	-	0,8	0,9	-	-	60	

Notes

with inserts



Tracks fully extended – 360° – Up to 0.5° slope – with insert + folding jib

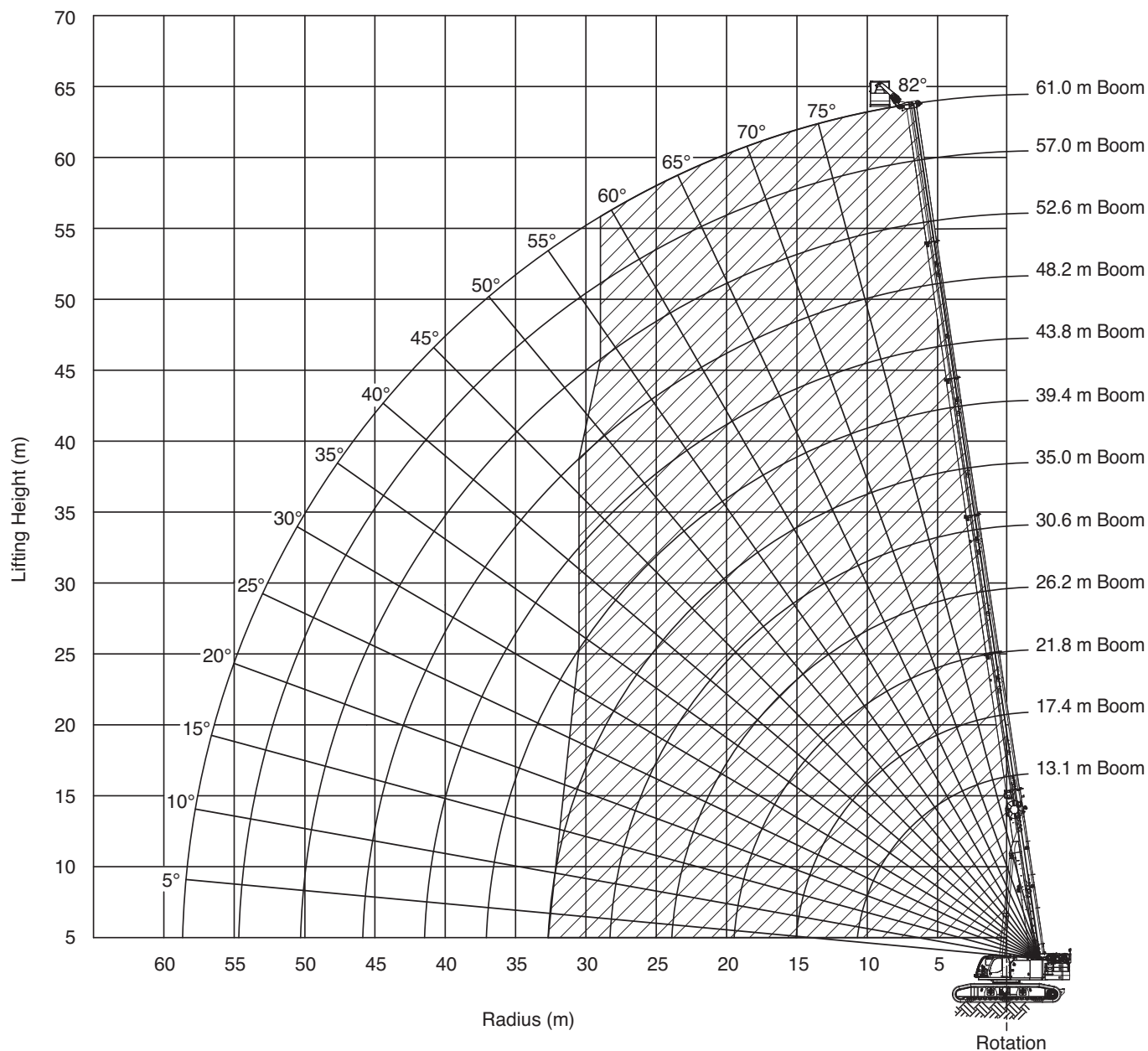
 31.8 t		 5.80 m		 0.5°		 18.0 m		 7.0 m		 8.9 m/s		360°		EN13000	
 m		35.0 m			52.6 m			57.0 m			61.0 m			 m	
		5°	20°	40°	5°	20°	40°	5°	20°	40°	5°	20°	40°		
t	t	t	t	t	t	t	t	t	t	t	t	t	t	t	t
11	5,4	-	-	-	-	-	-	-	-	-	-	-	-	-	11
12	5,4	-	-	-	-	-	-	-	-	-	-	-	-	-	12
14	5,4	-	-	-	-	-	-	-	-	-	-	-	-	-	14
16	5,4	4,5	-	-	-	-	-	-	-	-	-	-	-	-	16
18	5,1	4,4	-	-	3,9	-	-	-	-	-	-	-	-	-	18
20	4,8	4,1	3,3	-	3,9	-	-	3,4	-	-	-	-	-	-	20
22	4,5	3,8	3,2	-	3,9	3,6	-	3,4	-	-	3,1	-	-	-	22
24	4,2	3,6	3,1	-	3,9	3,6	-	3,4	3,2	-	3,1	-	-	-	24
26	3,9	3,4	2,9	-	3,9	3,5	-	3,4	3,2	-	3,1	2,9	-	-	26
28	3,7	3,2	2,8	-	3,8	3,4	2,8	3,4	3,2	-	3,1	2,9	-	-	28
30	3,4	3,0	2,7	-	3,6	3,2	2,8	3,3	3,1	2,7	3,0	2,9	-	-	30
32	3,2	2,9	2,6	-	3,5	3,1	2,8	3,1	3,0	2,7	2,9	2,8	2,6	-	32
34	3,1	2,7	2,5	-	3,4	3,0	2,7	3,0	2,9	2,7	2,8	2,7	2,6	-	34
36	2,9	2,6	2,4	-	3,3	2,9	2,6	2,9	2,8	2,6	2,7	2,6	2,6	-	36
38	2,7	2,5	2,3	-	3,2	2,8	2,5	2,8	2,7	2,5	2,5	2,5	2,5	-	38
40	2,6	2,4	2,2	-	3,1	2,7	2,4	2,8	2,6	2,5	2,4	2,4	2,4	-	40
42	2,5	2,3	2,2	-	3,0	2,6	2,4	2,7	2,5	2,4	2,3	2,3	2,3	-	42
44	2,4	2,2	2,1	-	2,8	2,5	2,3	2,6	2,5	2,4	2,2	2,2	2,2	-	44
46	2,3	2,1	2,0	-	2,6	2,5	2,3	2,5	2,4	2,3	2,2	2,1	2,1	-	46
48	2,2	2,1	2,0	-	2,3	2,4	2,2	2,4	2,3	2,2	2,1	2,0	2,0	-	48
50	2,1	2,0	2,0	-	1,9	2,2	2,2	2,0	2,2	2,2	1,9	2,0	1,9	-	50
52	2,0	1,9	-	-	1,6	1,9	2,1	1,7	2,0	2,1	1,6	1,9	1,9	-	52
54	1,9	1,9	-	-	1,3	1,6	1,9	1,5	1,7	2,0	1,4	1,7	1,8	-	54
56	1,9	1,9	-	-	1,1	1,3	1,6	1,2	1,5	1,7	1,1	1,4	1,6	-	56
58	-	-	-	-	0,8	1,1	1,3	1,0	1,2	1,4	0,9	1,1	1,4	-	58
60	-	-	-	-	-	0,8	1,0	-	1,0	1,1	-	0,9	1,1	-	60
62	-	-	-	-	-	-	-	-	-	0,9	-	-	0,8	-	62

Tracks fully extended – 360° – Up to 0.5° slope – with insert + folding jib

 31.8 t		 5.80 m		 0.5°		 18.0 m		 14.0 m		 8.9 m/s		360°		EN13000	
 m		35.0 m			52.6 m			57.0 m			61.0 m			 m	
		5°	20°	40°	5°	20°	40°	5°	20°	40°	5°	20°	40°		
t	t	t	t	t	t	t	t	t	t	t	t	t	t	t	t
12	4,4	-	-	-	-	-	-	-	-	-	-	-	-	-	12
14	4,4	-	-	-	-	-	-	-	-	-	-	-	-	-	14
16	4,3	-	-	-	-	-	-	-	-	-	-	-	-	-	16
18	4,0	3,6	-	-	-	-	-	-	-	-	-	-	-	-	18
20	3,8	3,5	-	-	3,2	-	-	-	-	-	-	-	-	-	20
22	3,6	3,3	2,9	-	3,2	-	-	2,8	-	-	-	-	-	-	22
24	3,4	3,1	2,7	-	3,1	2,7	-	2,8	-	-	2,1	-	-	-	24
26	3,2	2,9	2,6	-	3,0	2,7	-	2,7	-	-	2,1	-	-	-	26
28	3,0	2,7	2,4	-	2,9	2,7	-	2,6	2,4	-	2,1	-	-	-	28
30	2,7	2,5	2,3	-	2,8	2,6	2,4	2,6	2,4	-	2,1	2,1	-	-	30
32	2,6	2,3	2,1	-	2,7	2,5	2,3	2,5	2,4	2,2	2,1	2,1	-	-	32
34	2,4	2,2	2,0	-	2,5	2,4	2,2	2,4	2,3	2,2	2,1	2,1	2,1	-	34
36	2,2	2,1	1,9	-	2,4	2,3	2,1	2,3	2,2	2,1	2,1	2,1	2,1	-	36
38	2,1	1,9	1,8	-	2,3	2,2	2,1	2,2	2,1	2,1	2,0	2,0	2,0	-	38
40	1,9	1,8	1,7	-	2,3	2,1	2,0	2,1	2,1	2,0	1,9	1,9	1,9	-	40
42	1,8	1,7	1,6	-	2,2	2,0	1,9	2,0	2,0	1,9	1,8	1,9	1,9	-	42
44	1,7	1,6	1,5	-	2,1	2,0	1,8	2,0	1,9	1,9	1,8	1,8	1,8	-	44
46	1,6	1,5	1,5	-	2,0	1,9	1,7	1,9	1,8	1,8	1,7	1,7	1,7	-	46
48	1,5	1,5	1,4	-	1,9	1,8	1,7	1,8	1,8	1,7	1,6	1,6	1,6	-	48
50	1,4	1,4	1,3	-	1,9	1,7	1,6	1,7	1,7	1,7	1,5	1,5	1,6	-	50
52	1,4	1,3	1,3	-	1,7	1,6	1,6	1,7	1,7	1,6	1,4	1,5	1,5	-	52
54	1,3	1,2	1,2	-	1,4	1,6	1,5	1,4	1,6	1,5	1,3	1,4	1,4	-	54
56	1,2	1,2	-	-	1,1	1,4	1,4	1,2	1,5	1,5	1,1	1,3	1,4	-	56
58	1,1	1,1	-	-	0,9	1,1	1,4	1,0	1,2	1,4	0,8	1,1	1,3	-	58
60	1,1	1,1	-	-	-	0,9	1,1	-	1,0	1,2	-	0,9	1,1	-	60
62	1,0	1,0	-	-	-	-	0,8	-	-	1,0	-	-	0,9	-	62

Notes

WP750 Work platform



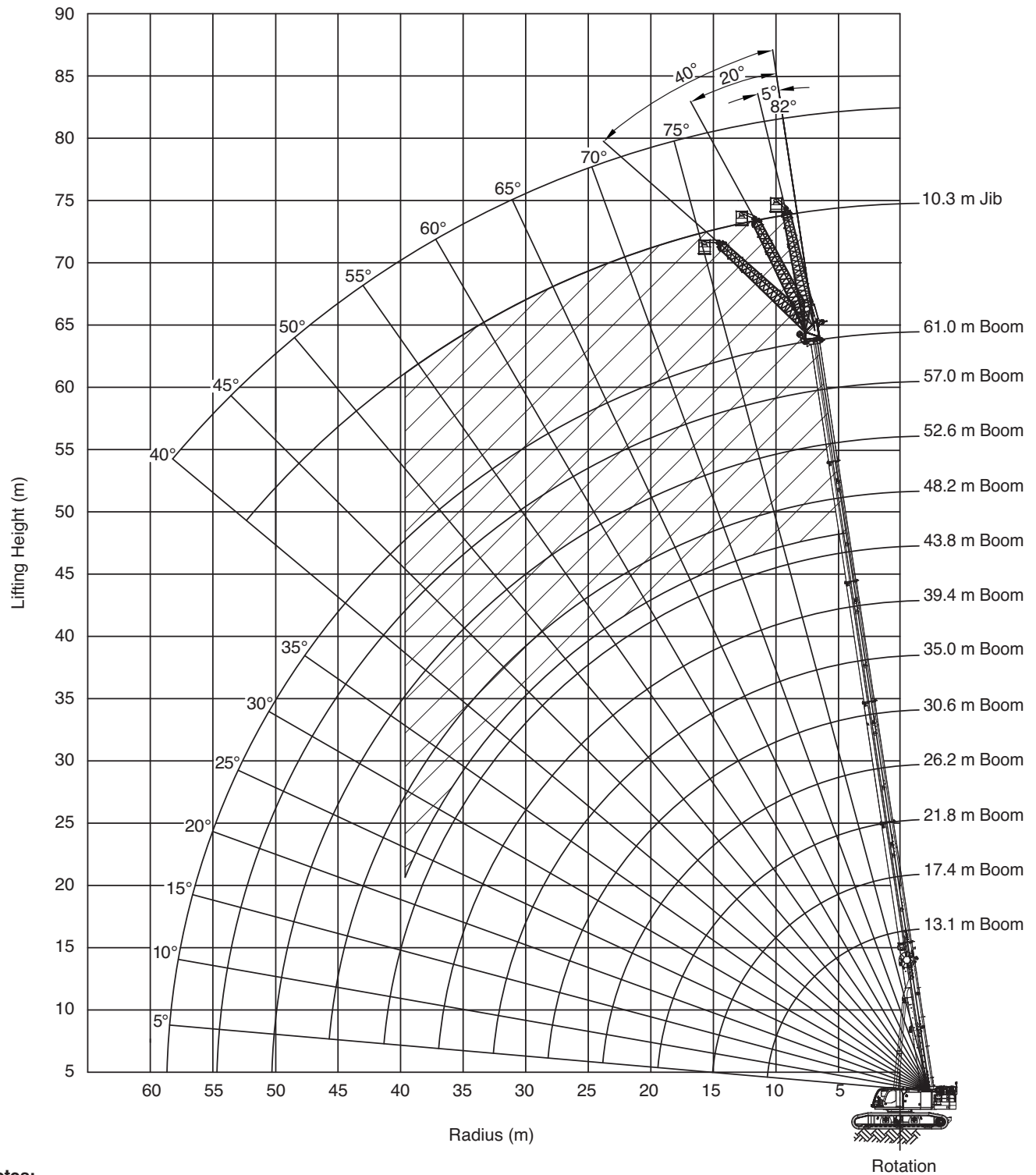
Notes:

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



Notes:

1. It is permissible to leave the jib section stowed on the boom while operating with work platform mounted to the 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

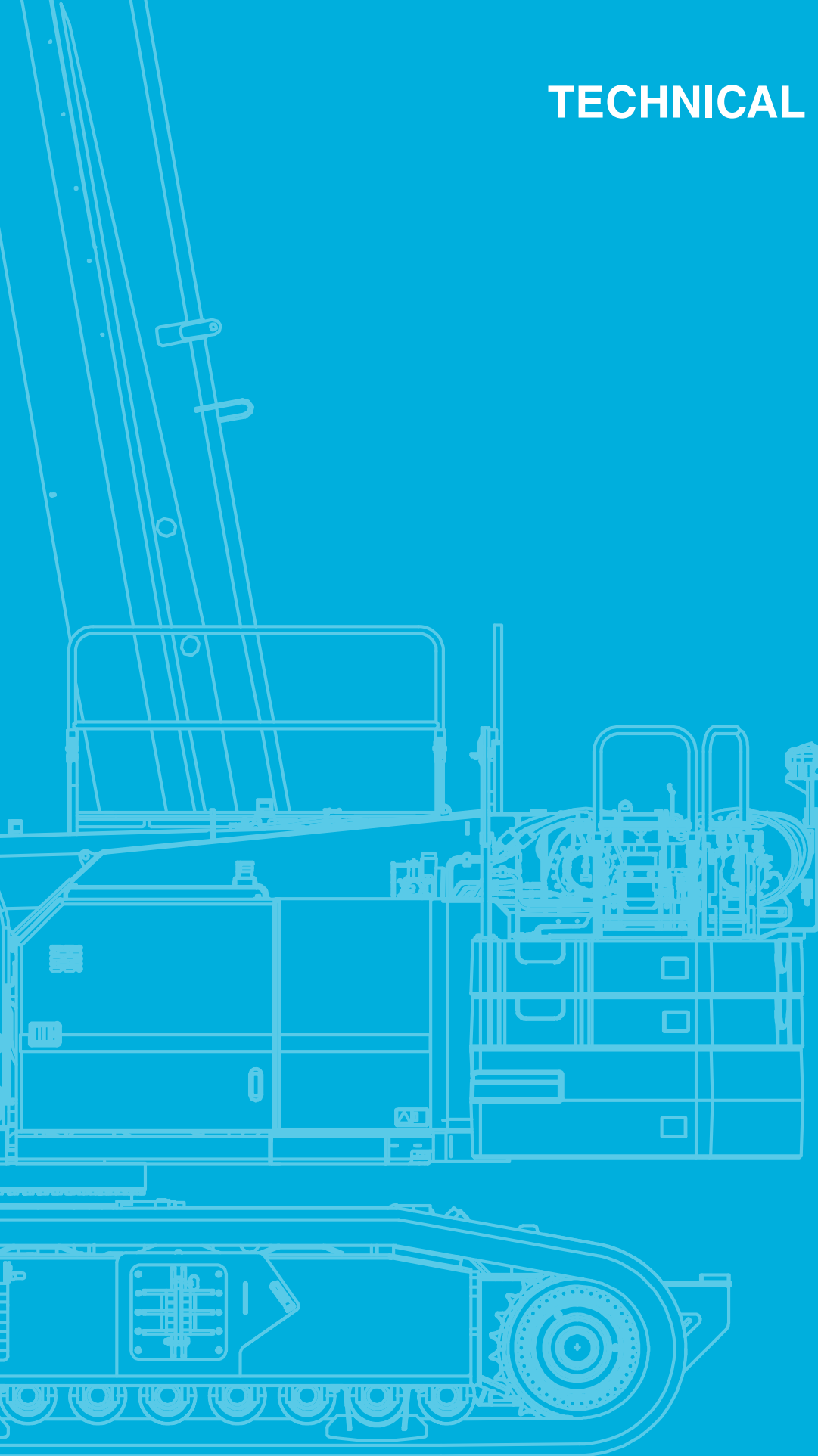
Definitions and Explanations

- Load capacity values in these charts are stated in kg 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 meter (m).
- Boom height dimensions are measured from ground to center of lower boom head sheave in meter (m).
- 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.
- Structural lifting capacities are based on DIN 15018 parts 2 and 3 and F.E.M. Stability lifting capacities are based on DIN 15019 part 2 / ISO 4305 / EN 13000.

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

Basic machine

Boom	Six section boom with single-cylinder pinned telescoping system. Retracted length: 13.1 m Extended length: 61.0 m Extension time: 536 seconds Elevating angles: -1.5° to 81.5° Elevating time: 53 seconds Boom head: Seven, 400 mm diameter cast steel sheaves on heavy-duty roller bearings, and two lead-in sheaves.
Auxiliary boom head	Single 445 mm diameter cast steel sheave. Mounts to boom head for single line work. Swings to side for storage.
Load moment indicator	Tadano AML-E load moment indicator and anti-two block system: OPTI-WIDTH™ – OPTIMAL lifting performance at any track width. Control function shutdown with audible and visual warnings. Full color touch screen provides 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. Configurable working range limits with automatic soft stop. External 3-color LED light stack indicates safe working conditions.
Telematics	Equipped with HELLO-NET data logging and monitoring system accessible via the internet.

Superstructure

High-strength steel structure precision machined to accept boom and swing components. Centralized plumbing of lubrication points for slew bearing and boom pivot pin.

Counterweight	Self-erecting counterweight system with configuration sensing and remote control. Integrated access steps and mounting for handrails. Load charts available for various counterweight configurations. Three upper counterweight configurations: 31.797 kg, 18.280 kg, 0 kg.
Operators cab	Fully-enclosed, all-steel modular cab with lockable sliding door, acoustical lining, anti-slip floor, and tinted safety glass. Grab bars and steps are provided for easy access to the cab. 20° tilt. Air conditioned with defroster, heater, and circulating fan. Six-way adjustable seat with headrest and seat belt. Electronic foot pedals control travel. A hydraulic foot pedal controls the swing service brake. Four-way adjustable armrest-mounted electronic joysticks control swing, main winch, auxiliary winch, boom hoist, and boom telescope. Selectable modes for fine control and travel. Seat termination switch immediately disables all joysticks and control pedals as the operator rises from the seat. Can also be disabled by switch on console. Camera views: Four cameras for view of winches, and rear, right and left sides of upper. Remote control work lights mounted at front left side, front right side, and rear right side. Two-speed windshield wipers for front and top glass. Dome light. Dry-chemical fire extinguisher.
Engine	Cummins B6.7 – 6 cylinder, 4 cycle, turbocharged and after cooled · Max. power: 326 HP (243 kW)@2,200 rpm · Max. torque: 770 lb-ft (1,044 Nm)@1,500 rpm · Alternator: 70 amp. Emission certifications: U.S. EPA Tier 4f, Euromot Stage V.
Electrical system	24 VDC.
Fuel system	321 liter capacity diesel tank, with engine mounted filter and inline fuel/water separator. 37.9 liter capacity DEF/AdBlue tank.
Hydraulic system	Hydraulic pumps: Two high pressure, variable piston pumps with positive displacement and power limiting controls for crane functions. Three gear pumps for swing, pilot/auxiliary, and cooling. Total pump output: 946 l/min@1900 rpm engine speed. 325 bar maximum pressure. Directional valves: Multiple pressure and flow compensated valves with electrically controlled integrated relief valves. Reservoir: 746 liter capacity with filler/breather, sight gauge, cleanout, low level switch, and sump drain. Filtration: Three 5-micron, full flow return filters with electrical clogging indicator. 3-micron inline pilot oil pressure filter. Two 10-micron case flow filters.
Winches	Planetary geared two-speed winch with grooved drum, hydraulic motor, multi-disc internal brake and counter-balance valve. Includes drum rotation and last layer indicators (complete winch performance specs on page 16). Main winch: Rope diameter and length: 19 mm x 320 m Auxiliary winch: Rope diameter and length: 19 mm x 225 m
Swing	An axial piston swing motor with planetary gear reducer drives the pinion and the internal gear shear-ball slew bearing allowing smooth rotation even at low speeds. Swing speed: 0-1.2 rpm. Modes: Free swing with counter swing, or controlled swing with hydraulic braking. 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 systems: 360° house lock actuated from the operator's cab.

Technical Description

Crawler carrier

Carrier comprising a center carbody, 4 extension beams, 2 crawlers, and integrated assembly jacks. Tool-free connection between crawlers and extension beams.

Carbody	Torsion resistant welded structure constructed of high strength steel. Hydraulic lines with quick connection panels to crawler drives.
Track extension	Powerful hydraulic track extend system quickly adjusts operating width while stationary or travelling. Track position sensing allows automatic selection of operating configuration in AML.
Crawlers	Two crawler frames are paired with a track group. Self-assembly with 4 track frame lifting points. Track rollers: Fifteen bottom rollers and replaceable top wear pads on each track frame. Idler: Oil filled, self-lubricating with nitrogen type tensioner. Track shoes: 900 mm, 3-bar semi-grousers are standard equipment.
Crawler drive	The tracks are powered by a pilot controlled, two-speed drive with piston motor and parking brake. Each crawler speed is infinitely variable, both independently and in opposite direction. 1.0 km/hr / 2.5 km/hr · Gradeability (unladen): 52 %.
Assembly jacks	2-stage jacks mounted to carbody structure with radio remote control and self-leveling for easy assembly/disassembly for transport. Includes 4 octagonal outrigger pads.
Carbody counterweights	Two carbody counterweights with integrated lift points. Rear counterweight includes storage locations for track frame assembly bars and outrigger pads. Front counterweight includes toolbox and storage location for overhaul ball.

Optional equipment

Heavy lift jib	Total length: 3.6 m Offset angles: 0°-40° Max. lifting height: 63.4 m
Main jib	Total length: 10.3 m Offset angles: 0°-40° (hydraulic or mechanical offset) Max. lifting height: 71.3 m
Fly jib	Total length: 18.0 m when mounted to main jib · Offset angles: 0°-40° (hydraulic or mechanical offset) · Max. lifting height: 78.9 m
Long jib	Total length: 32.0 m; includes 2 x lattice inserts, main, and fly jibs · Offset angles: 0°-40° (hydraulic or mechanical offset) · Max. lifting height: 92.0 m
Hook blocks	100 t ton hook block - seven steel sheaves with swivel hook and safety latch. 45 t ton hook block - three steel sheaves with swivel hook and safety latch. 10 t ton overhaul ball with swivel hook and safety latch.
Crawler shoes	900 mm flat shoes 1000 mm flat shoes 1000 mm 3-bar semi-grouser
Cold weather packages	Cold weather options are available for operation to -40°C (consult factory for application support).
Work platform	Model WP750 – 0.9 m x 1.8 m, all steel, welded, two person platform with maximum capacity of 340 kg.
Automatic central lubrication system	
Anemometer	Mounts to boom or jib head with cab display.
Aircraft warning beacon	
Cab mounted rotating beacon	
TRAM boom access system	
FOPS	Operator cab falling object protection system; ISO 3449 Level II compliant.
Additional handrails	For top of engine side covers.
Boom removal system	
Full function radio remote control package	
Load charts for barge operation	

Notes

Notes

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