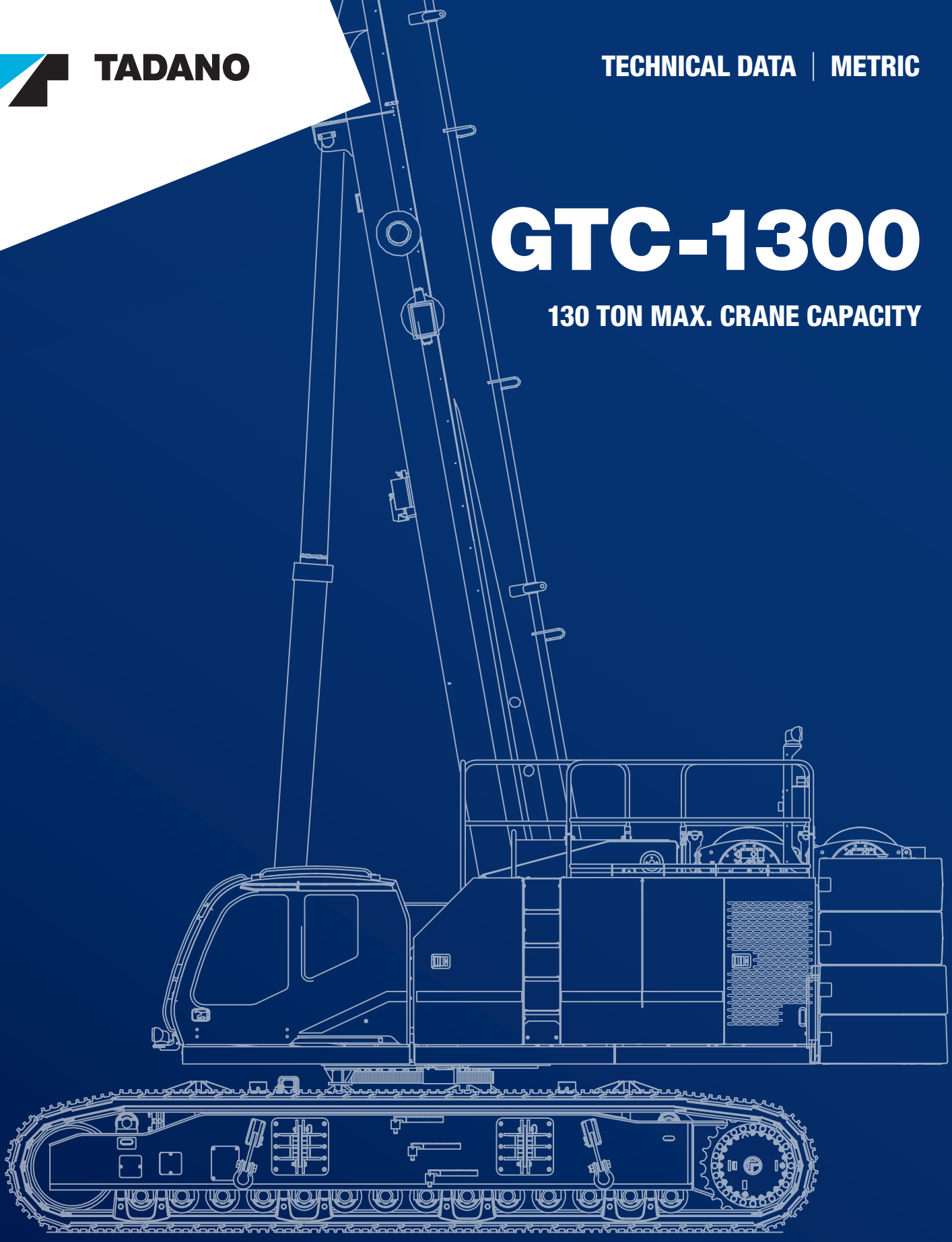
TADANO

TECHNICAL DATA | METRIC

GTC-1300

130 TON MAX. CRANE CAPACITY



TADANO

Contents

Key


Counterweight


Radius

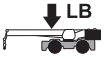

Main boom


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

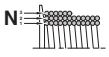

Rope


Hook block


Number of lines

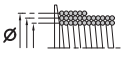
Assembly weight


Transport variant



Wire rope layer

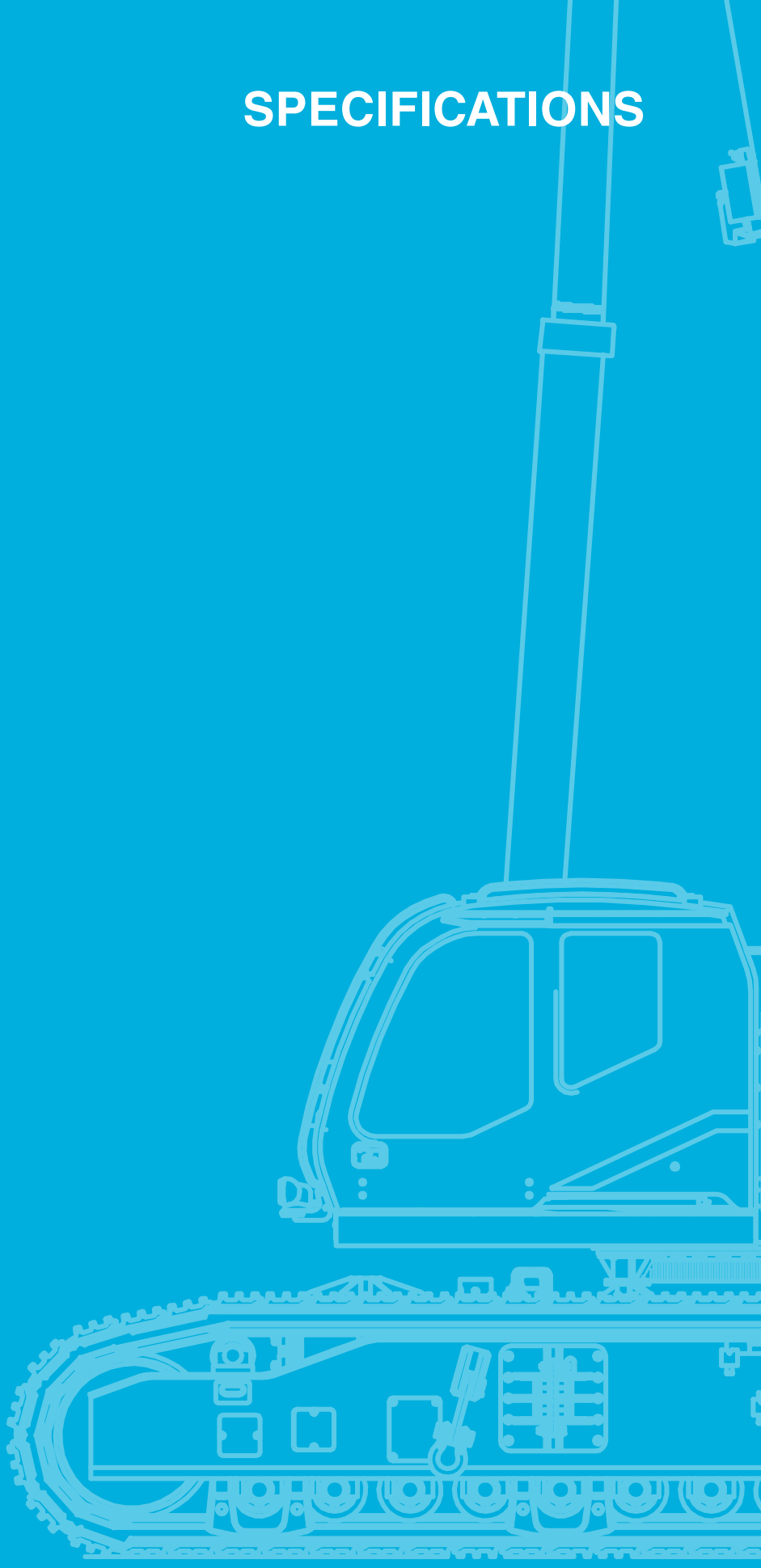
Total wire rope



Winch layer diameter

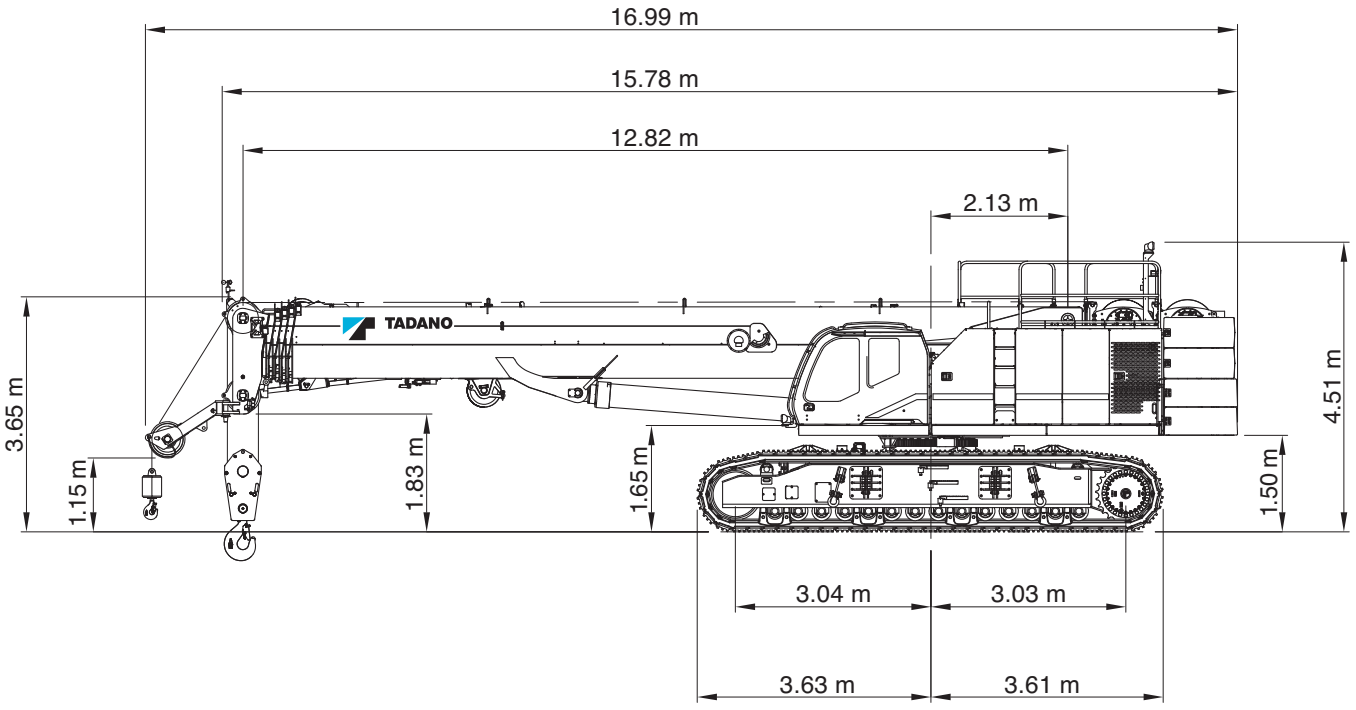

Wind speed in m/s

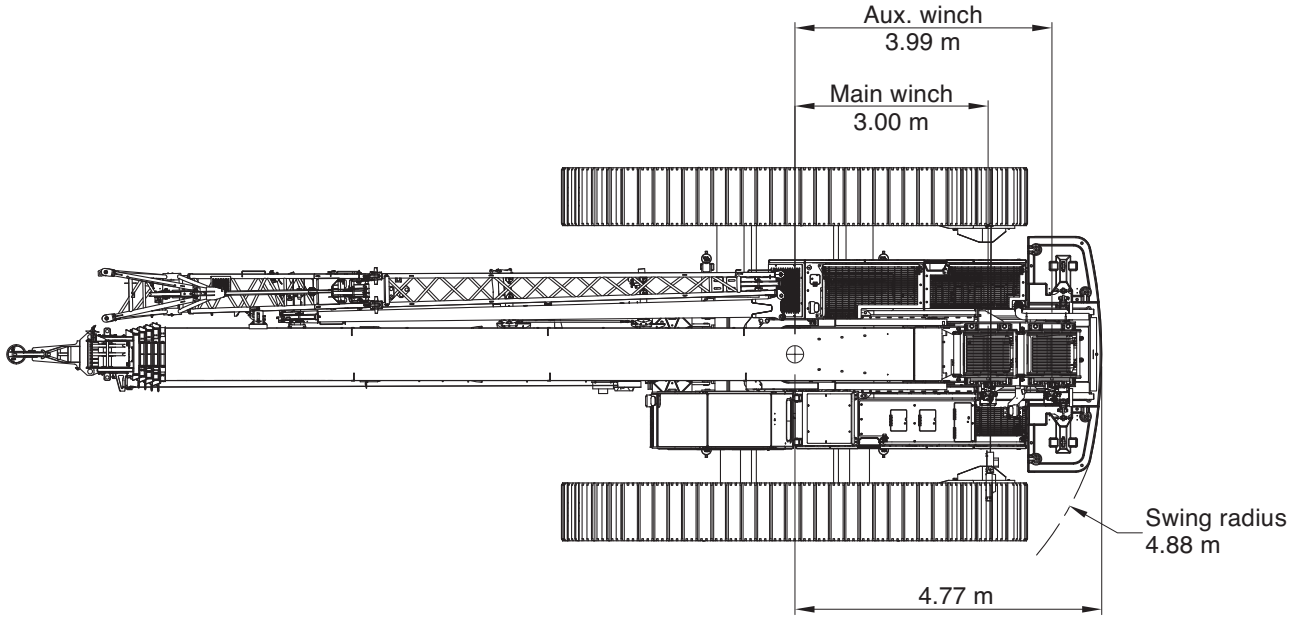
SPECIFICATIONS



Specifications

Vehicle dimensions

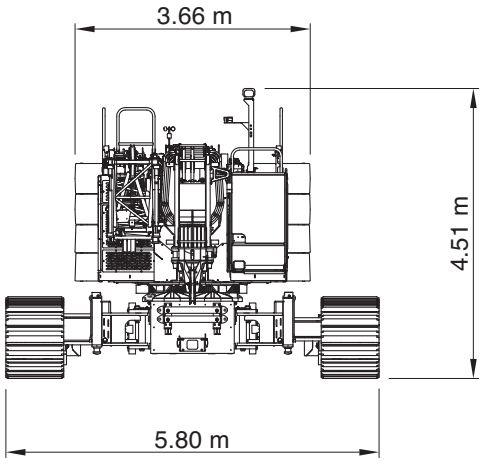




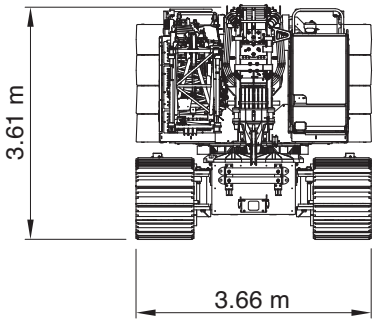
Specifications

Vehicle dimensions

Tracks extended



Tracks retracted

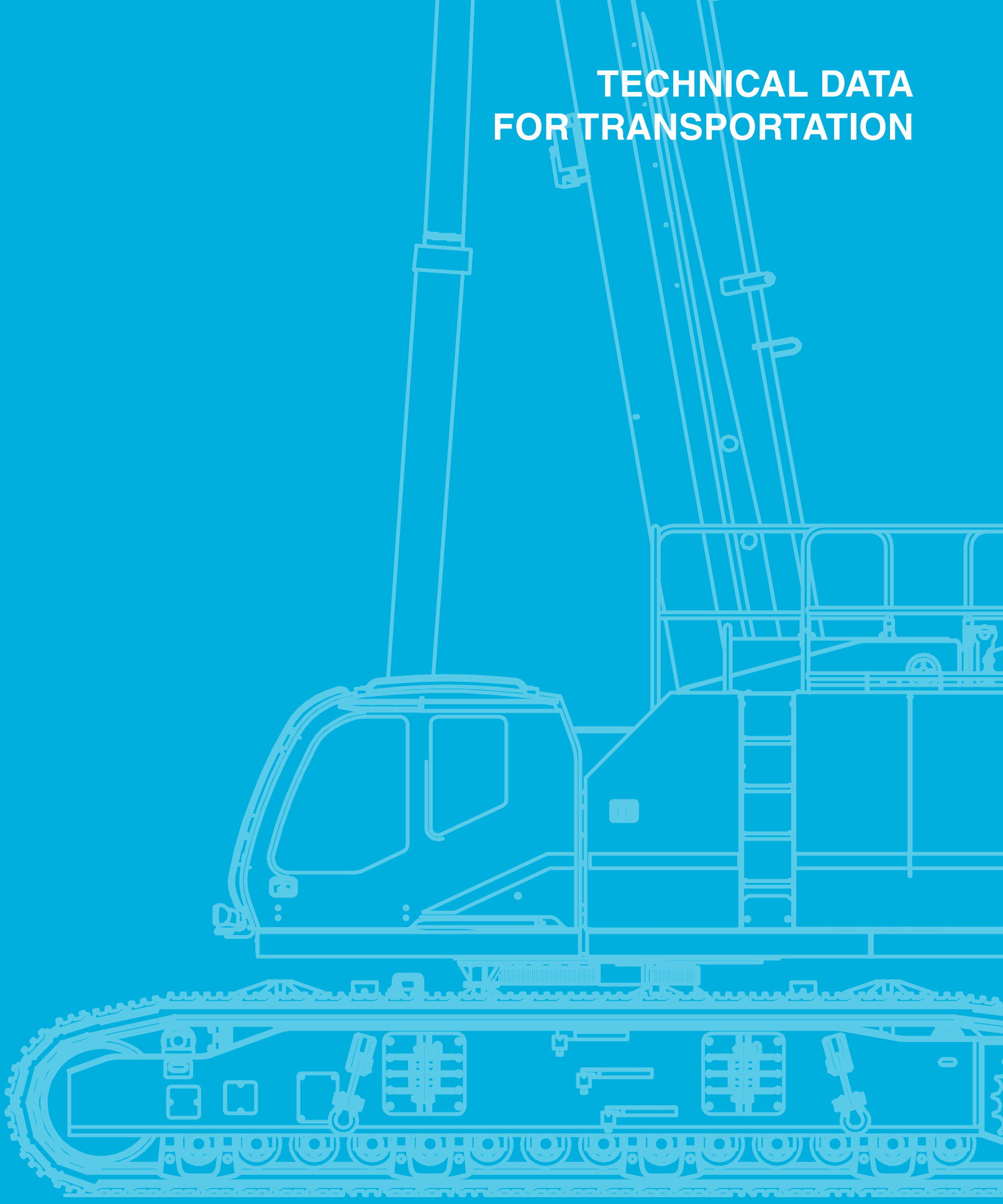


General dimensions

Overall length	15.8 m
Overall width (tracks extended)	5.8 m
Overall width (tracks retracted)	3.66 m
Overall width (tracks removed)	2.97 m
Overall height (working)	4.5 m

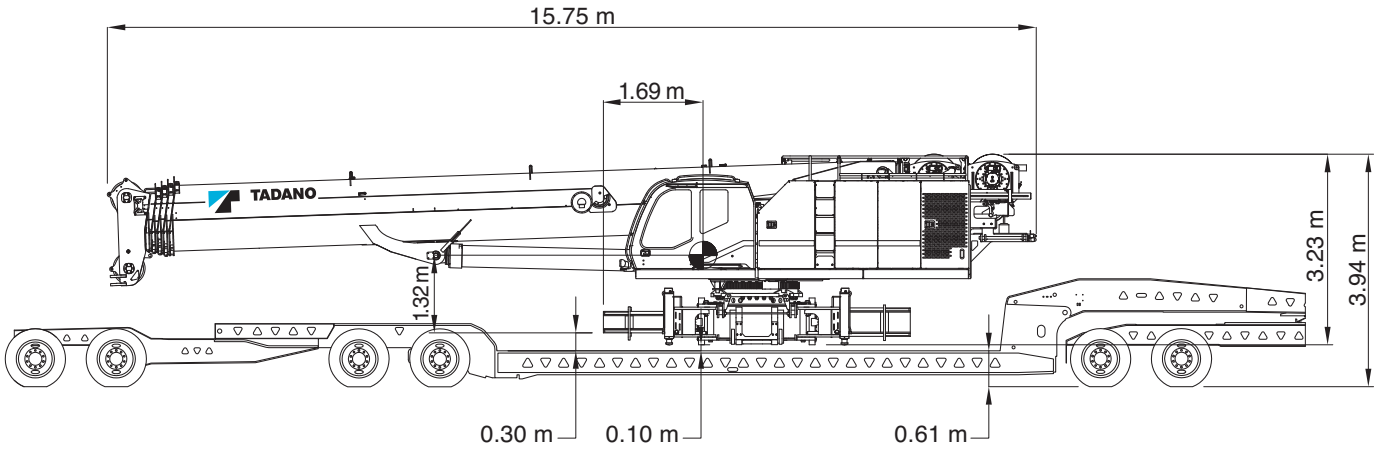
Notes

TECHNICAL DATA FOR TRANSPORTATION

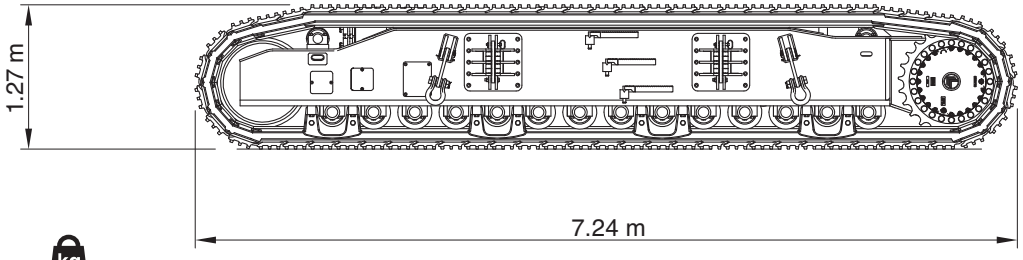


Transportation

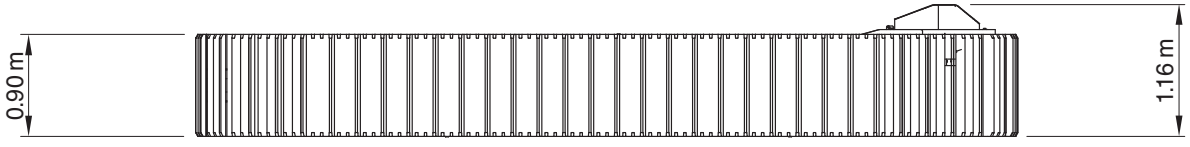
Transport dimensions



Track frame assembly



kg
13.744
each



Transportation

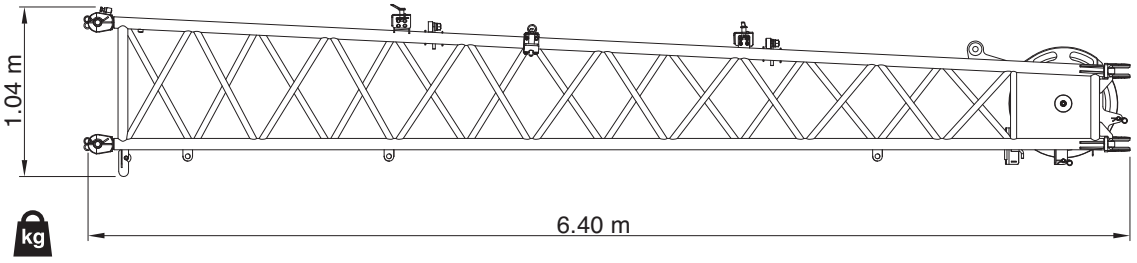
Transport plan

	kg	Dimensions L x W x H	 1	2	3	4	5
Crane transporter (with 2 winches, boom, wire rope)	48.410	15.78 m x 3.00 m x 3.23 m	X				
Left track frame	13.744	7.24 m x 1.16 m x 1.27 m		X			
Right track frame	13.744	7.24 m x 1.16 m x 1.27 m			X		
Counterweight A	10.590	1.27 m x 3.66 m x 1.18 m				X	
Counterweight B - 1 piece	10.590	1.24 m x 3.66 m x 0.47 m					X
Counterweight C - 1 piece	2.642	1.03 m x 1.11 m x 0.47 m					X
Counterweight C - 1 piece	2.642	1.03 m x 1.11 m x 0.47 m					X
Counterweight C - 1 piece	2.642	1.03 m x 1.11 m x 0.47 m				X	
Counterweight C - 1 piece	2.642	1.03 m x 1.11 m x 0.47 m				X	
Counterweight - Carbody - 1 piece	4.536	0.95 m x 1.30 m x 0.87 m		X			
Counterweight - Carbody - 1 piece	4.536	0.95 m x 1.30 m x 0.87 m			X		
Heavy lift jib	1.040	4.40 m x 0.84 m x 1.52 m				X	
Jib base section	454	6.40 m x 0.72 m x 1.04 m				X	
Jib point	452	7.83 m x 0.47 m x 0.72 m				X	
Jib insert	477	7.14 m x 0.66 m x 1.02 m					X
Jib insert	477	7.14 m x 0.66 m x 1.02 m					X
Auxiliary nose sheave	135	1.24 m x 0.65 m x 0.89 m				X	
Hook block - 120 t	1.024	1.73 m x 0.58 m x 0.58 m		X			
Overhaul ball - 12.5 t	199	0.81 m x 0.30 m x 0.30 m			X		
Miscellaneous items (crate)	227	1.22 m x 0.91 m x 0.91 m				X	
Total net weight on trailer (kg)			**48.410**	**19.304**	**18.479**	**18.190**	**16.831**

Transportation

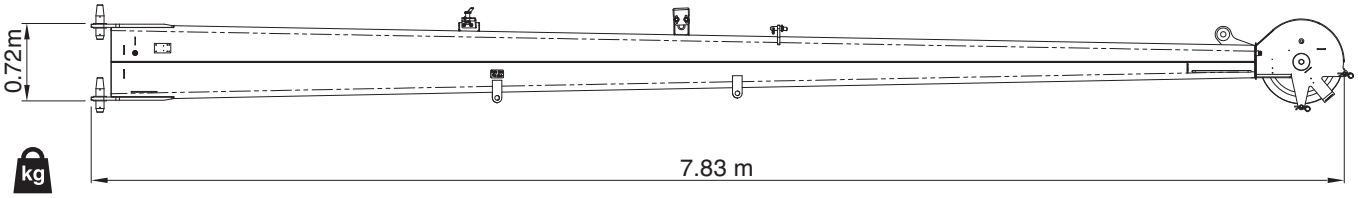
Transport dimensions

Main jib



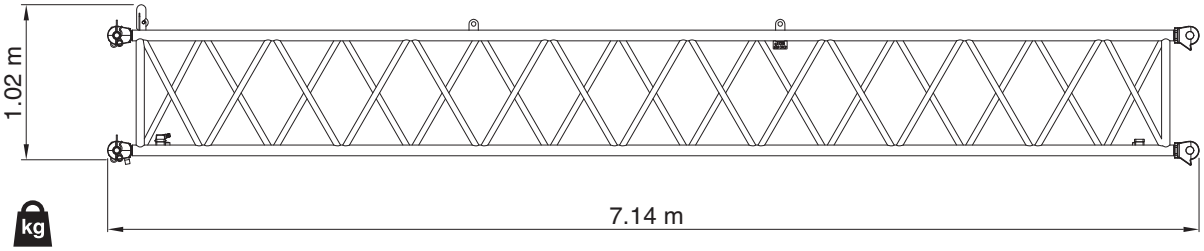
kg
454

Fly jib



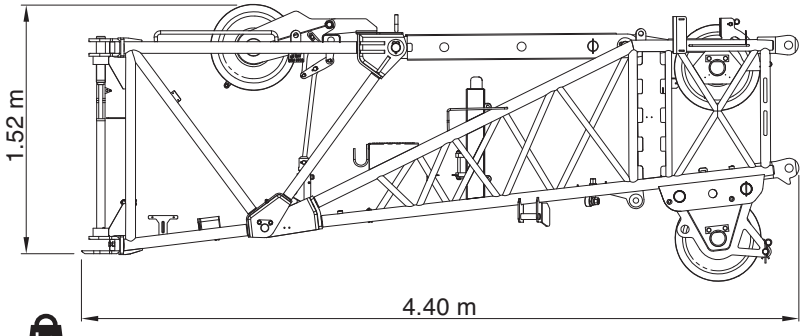
kg
452

Lattice jib insert



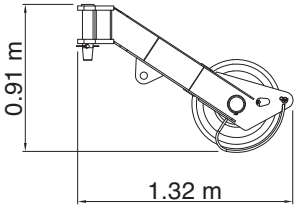
kg
477

Heavy lift jib



kg
1.040

Auxiliary nose sheave



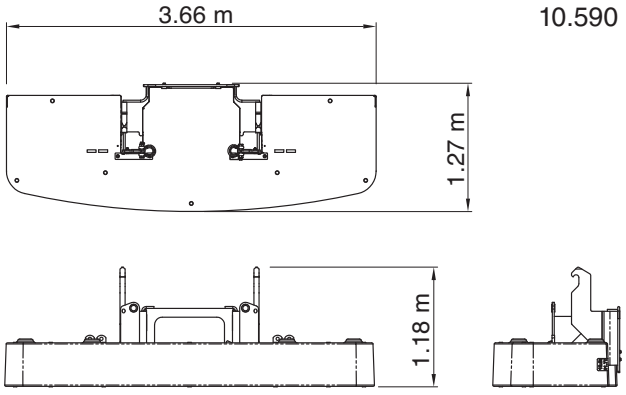
kg
135

Transportation

Transport dimensions

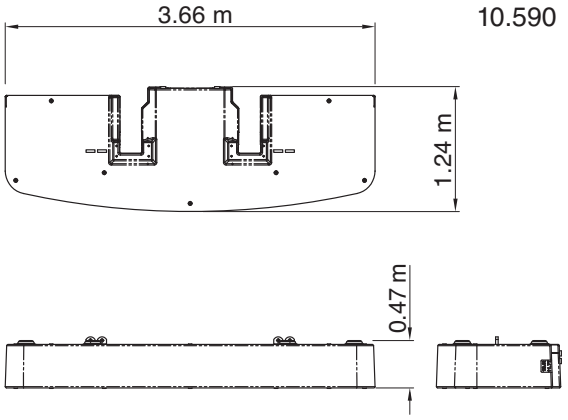
Configuration A

kg 10.590



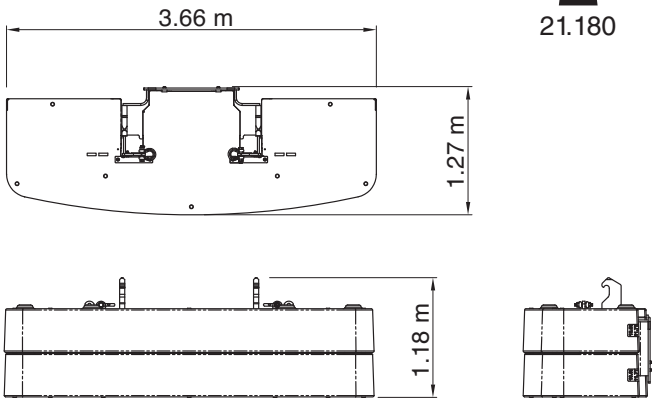
Configuration segement B

kg 10.590



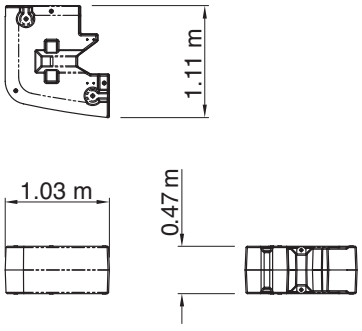
Configuration B

kg 21.180



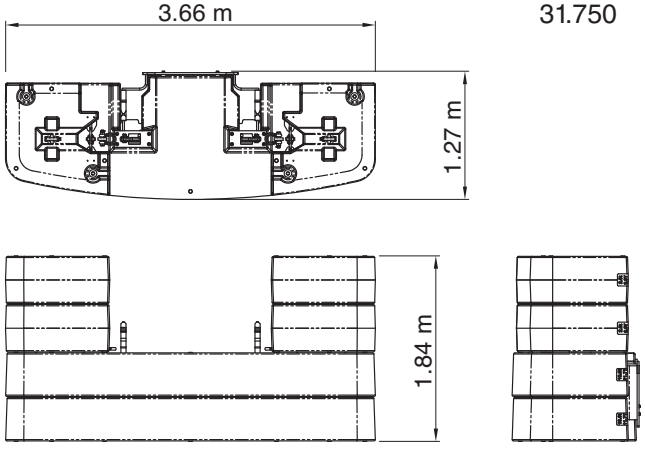
Configuration segement C

kg 2.642



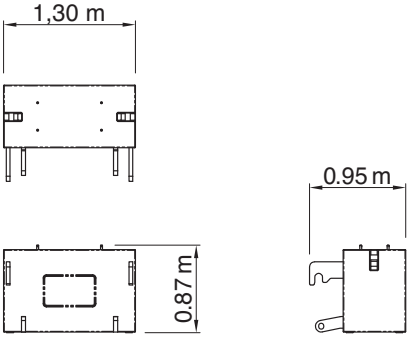
Configuration C

kg 31.750



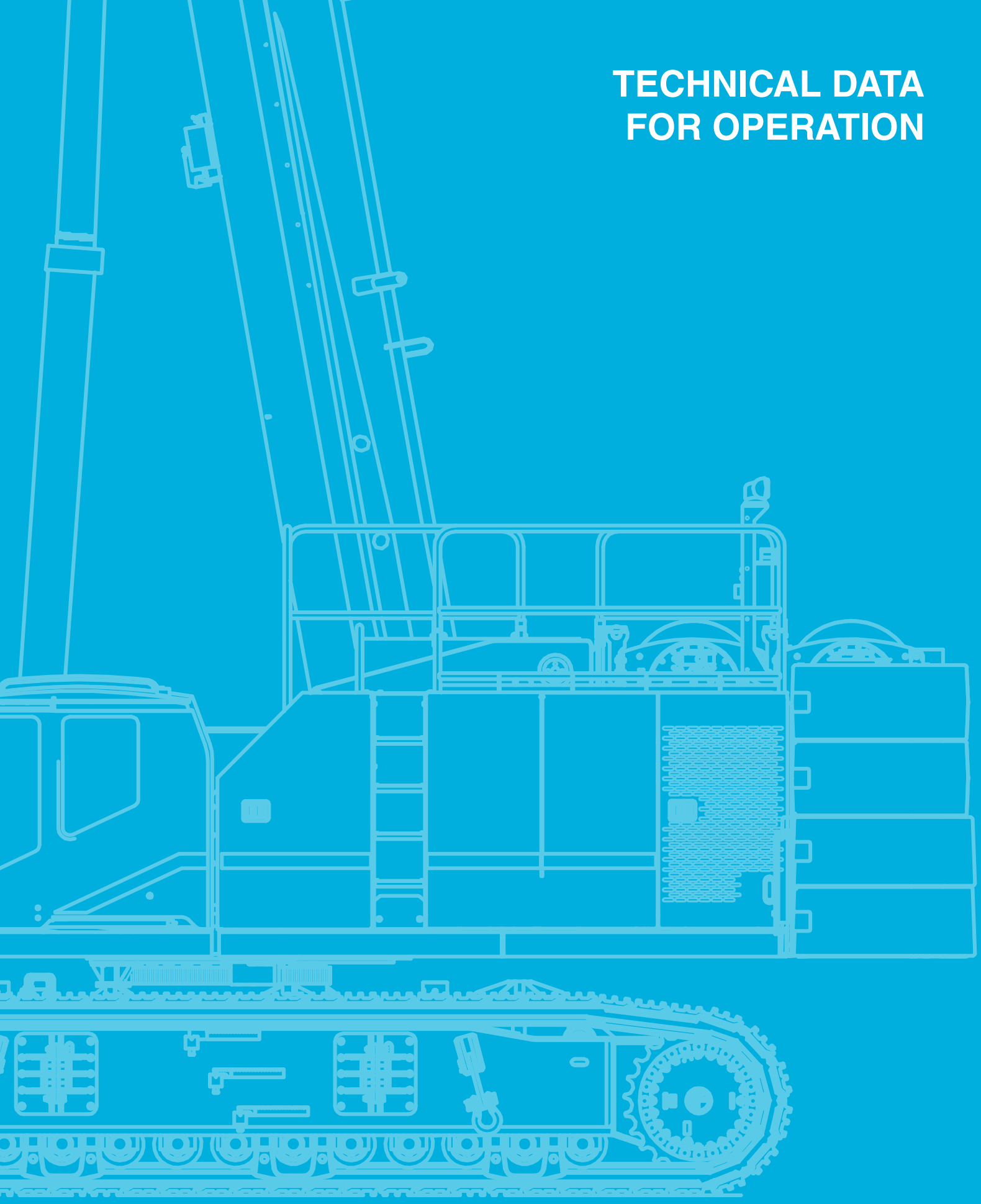
Carbody counterweight – 2 pieces

kg 4.535



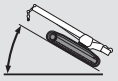
Notes

TECHNICAL DATA FOR OPERATION

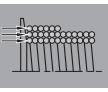
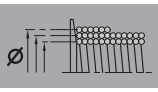


Operation

Speeds and gradeability

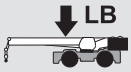
	0.7 km/hr / 2.2 km/hr		70 %

Main winch and auxiliary winch performance

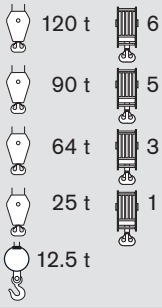
N 		high  normal	ø 		Σ 
1	104.8 kN	67.1 m/min.	39.9 m/min.	479.1 mm	37.6 m	37.6 m
2	95.6 kN	72.7 m/min.	43.2 m/min.	518.9 mm	40.8 m	78.4 m
3	87.9 kN	78.3 m/min.	46.6 m/min.	558.7 mm	43.9 m	122.3 m
4	81.3 kN	83.8 m/min.	49.9 m/min.	598.4 mm	47.0 m	169.3 m
5	75.6 kN	89.4 m/min.	53.2 m/min.	638.2 mm	50.1 m	219.4 m
6	70.7 kN	95.0 m/min.	56.5 m/min.	678.0 mm	53.2 m	272.6 m

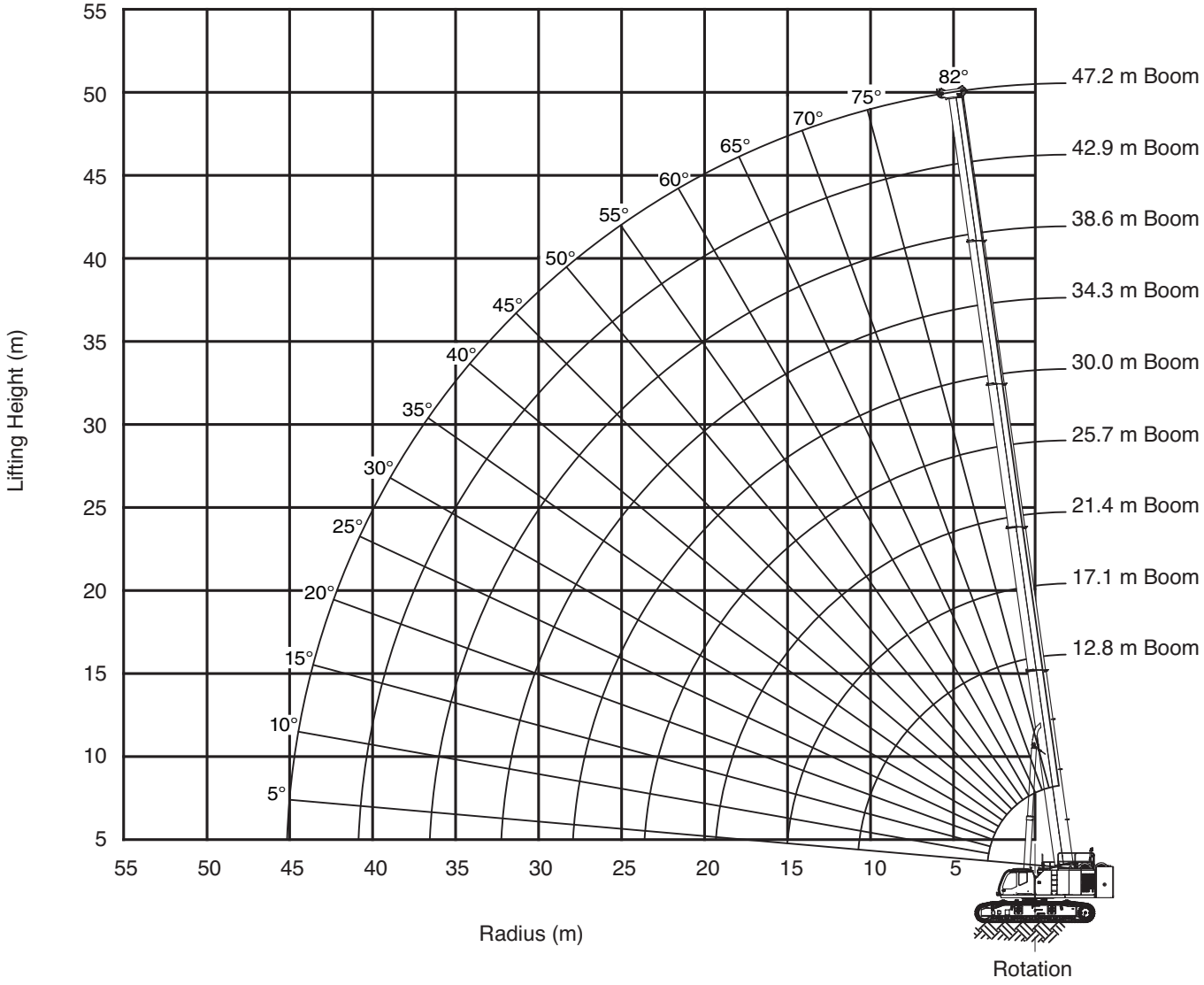
Wire Rope: 22 mm diameter rotation resistant. Line pulls are not based on wire rope strength.

Operation

Machine weights	
 Standard equipment package	119.882 kg
 Upper	31.750 kg
Carbody	9.070 kg

Standard Crane with 5 section – 47.2 m boom, full counterweight, auxiliary winch with wire rope and 900 mm 3-bar semi grouser track shoes	117.931 kg
Standard Crane with 5 section – 47.2 m boom, auxiliary winch with wire rope (counterweight and track frames removed)	48.292 kg
Standard Crane with auxiliary winch with wire rope (47.2 m boom, boom hoist cylinder, counterweight and track frames removed)	31.976 kg

Optional Equipment	
Heavy lift jib: 3.8 m	1.040 kg
Main jib: 10.2 m	1.494 kg
Full jib: 18.0 m	1.946 kg
Lattice jib insert, 2 pieces: 7.14 m each	954 kg
Auxiliary nose sheave	135 kg
 120 t 6	1.024 kg
90 t 5	998 kg
64 t 3	588 kg
25 t 1	398 kg
12.5 t	199 kg


Lifting Height (m)
55
50
45
40
35
30
25
20
15
10
5
82°
75°
70°
65°
60°
55°
50°
45°
40°
35°
30°
25°
20°
15°
10°
5°
47.2 m Boom
42.9 m Boom
38.6 m Boom
34.3 m Boom
30.0 m Boom
25.7 m Boom
21.4 m Boom
17.1 m Boom
12.8 m Boom
55 50 45 40 35 30 25 20 15 10 5
Radius (m)
Rotation

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

31.8 t + 9.0 t	5.8 m	0.5°	8.9 m/s	360°	EN13000

m	12.8 m t	17.1 m t	21.4 m t	25.7 m t	30.0 m t	34.3 m t	38.6 m t	42.9 m t	47.2 m t	m
2,5	130,0	-	-	-	-	-	-	-	-	2,5
3	120,0	76,5	68,6	-	-	-	-	-	-	3
4	103,8	76,5	67,6	57,2	-	-	-	-	-	4
5	90,4	76,5	63,5	53,9	43,9	-	-	-	-	5
6	75,9	75,8	57,0	48,6	42,1	29,5	-	-	-	6
7	63,8	63,8	51,6	44,1	38,5	29,5	29,0	-	-	7
8	54,8	54,7	47,2	40,2	35,3	29,5	28,6	22,4	-	8
9	47,4	46,9	43,5	36,9	32,5	29,5	26,8	22,4	17,6	9
10	40,2	39,6	39,2	33,9	30,0	27,5	25,1	22,4	17,6	10
12	-	29,8	29,4	27,4	25,8	23,9	22,1	20,3	17,6	12
14	-	23,3	23,0	23,4	21,1	20,9	19,6	18,2	16,2	14
16	-	-	18,5	19,3	17,7	17,5	17,4	16,4	14,9	16
18	-	-	15,1	15,9	15,7	14,2	14,8	14,7	13,6	18
20	-	-	-	13,3	13,8	12,5	12,2	12,7	12,2	20
22	-	-	-	11,3	11,8	11,2	10,2	11,4	10,9	22
24	-	-	-	-	10,1	10,1	9,2	10,0	9,4	24
26	-	-	-	-	8,8	9,1	8,4	8,6	8,1	26
28	-	-	-	-	-	8,0	7,7	7,4	6,9	28
30	-	-	-	-	-	7,0	7,0	6,4	5,9	30
32	-	-	-	-	-	6,2	6,4	5,6	5,0	32
34	-	-	-	-	-	-	5,6	4,8	4,3	34
36	-	-	-	-	-	-	5,0	4,2	3,6	36
38	-	-	-	-	-	-	-	3,6	3,0	38
40	-	-	-	-	-	-	-	3,1	2,5	40
42	-	-	-	-	-	-	-	-	2,0	42
44	-	-	-	-	-	-	-	-	1,6	44
	12	9	8	6	6	4	4	4	2	

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 4° slope

31.8 t + 9.0 t	5.8 m	4°	8.9 m/s	360°	EN13000

	12.8 m	17.1 m	21.4 m	25.7 m	30.0 m	34.3 m	38.6 m	42.9 m	47.2 m	
m	t	t	t	t	t	t	t	t	t	m
3	120,0	76,4	65,0	-	-	-	-	-	-	3
4	98,7	76,4	60,4	46,8	-	-	-	-	-	4
5	77,0	75,3	54,7	43,1	23,9	-	-	-	-	5
6	62,6	62,3	50,0	39,7	23,9	19,8	-	-	-	6
7	52,3	52,6	46,1	36,8	23,9	19,8	16,6	-	-	7
8	44,6	44,8	41,0	34,1	23,9	19,8	16,6	12,9	-	8
9	38,6	38,5	36,1	31,1	23,9	19,8	16,6	12,9	11,3	9
10	33,7	33,3	31,4	27,8	23,9	19,8	16,6	12,9	11,3	10
12	-	26,0	24,5	24,4	20,7	19,8	16,6	12,9	11,3	12
14	-	21,2	19,7	19,8	18,2	16,8	16,3	12,9	11,3	14
16	-	-	16,2	16,4	16,2	14,2	13,8	12,9	11,3	16
18	-	-	13,7	13,8	13,8	12,7	11,5	12,0	11,3	18
20	-	-	-	11,8	11,8	11,5	10,3	10,8	10,0	20
22	-	-	-	10,2	10,2	10,3	9,3	9,3	8,5	22
24	-	-	-	-	8,9	9,0	8,5	8,0	7,3	24
26	-	-	-	-	7,9	7,9	7,8	7,0	6,3	26
28	-	-	-	-	-	7,0	7,0	6,0	5,4	28
30	-	-	-	-	-	6,2	6,2	5,3	4,6	30
32	-	-	-	-	-	5,7	5,5	4,6	3,9	32
34	-	-	-	-	-	-	5,0	4,0	3,3	34
36	-	-	-	-	-	-	4,5	3,5	2,8	36
38	-	-	-	-	-	-	-	3,0	2,3	38
40	-	-	-	-	-	-	-	2,7	1,9	40
42	-	-	-	-	-	-	-	-	1,5	42
44	-	-	-	-	-	-	-	-	1,2	44
	12	9	8	6	6	4	4	4	2	

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

Tracks retracted – over front/rear – Up to 0.5° slope

31.8 t + 9.0 t	3.66 m	0.5°	8.9 m/s	EN13000

	12.8 m	17.1 m	21.4 m	25.7 m	30.0 m	34.3 m	38.6 m	42.9 m	47.2 m	
m	t	t	t	t	t	t	t	t	t	m
3	120,0	76,5	68,6	-	-	-	-	-	-	3
4	103,8	76,5	67,6	57,2	-	-	-	-	-	4
5	90,4	76,5	63,5	53,9	43,9	-	-	-	-	5
6	75,9	75,8	57,0	48,6	42,1	29,5	-	-	-	6
7	63,8	63,8	51,6	44,1	38,5	29,5	29,0	-	-	7
8	54,8	54,7	47,2	40,2	35,3	29,5	28,6	22,4	-	8
9	47,7	47,6	43,5	36,9	32,5	29,5	26,8	22,4	17,6	9
10	42,1	42,0	39,8	33,9	30,0	27,5	25,1	22,4	17,6	10
12	-	33,5	33,2	29,1	25,8	23,9	22,1	20,3	17,6	12
14	-	26,3	25,9	24,0	22,4	20,9	19,6	18,2	16,2	14
16	-	-	20,9	20,6	19,0	18,2	17,4	16,4	14,9	16
18	-	-	17,2	18,0	15,7	15,9	15,3	14,7	13,6	18
20	-	-	-	15,1	14,0	13,4	13,4	13,0	12,2	20
22	-	-	-	12,9	12,7	11,2	11,7	11,5	10,9	22
24	-	-	-	-	11,5	10,1	9,9	10,4	9,7	24
26	-	-	-	-	10,0	9,2	8,4	9,5	8,7	26
28	-	-	-	-	-	8,5	7,7	8,5	7,8	28
30	-	-	-	-	-	7,8	7,0	7,5	6,9	30
32	-	-	-	-	-	7,1	6,4	6,5	6,0	32
34	-	-	-	-	-	-	6,0	5,7	5,1	34
36	-	-	-	-	-	-	5,5	5,0	4,4	36
38	-	-	-	-	-	-	-	4,4	3,8	38
40	-	-	-	-	-	-	-	3,8	3,2	40
42	-	-	-	-	-	-	-	-	2,7	42
44	-	-	-	-	-	-	-	-	2,2	44
	12	9	8	6	6	4	4	4	2	

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

Tracks retracted – over side – Up to 1.5° slope

31.8 t + 9.0 t			3.66 m		1.5°		8.9 m/s		EN13000
12.8 m	17.1 m	21.4 m	25.7 m	30.0 m	34.3 m	38.6 m	42.9 m	47.2 m	
m	t	t	t	t	t	t	t	t	t	m
3	*	*	*	-	-	-	-	-	-	3
4	*	*	*	*	-	-	-	-	-	4
5	*	*	*	*	*	-	-	-	-	5
6	*	*	*	*	*	*	-	-	-	6
7	37,9	35,7	32,8	*	*	*	*	-	-	7
8	31,3	30,4	28,2	27,4	*	*	*	*	-	8
9	26,4	25,6	24,5	24,1	23,4	*	*	*	*	9
10	22,7	21,9	21,3	21,3	20,8	20,3	*	18,0	16,5	10
12	-	16,6	16,1	16,7	16,8	16,5	16,2	14,6	13,3	12
14	-	12,9	12,4	13,1	13,5	13,7	13,5	12,1	10,9	14
16	-	-	9,8	10,5	10,9	11,2	11,3	10,1	9,0	16
18	-	-	7,8	8,5	8,9	9,2	9,4	8,4	7,4	18
20	-	-	-	6,9	7,3	7,7	7,8	7,0	6,1	20
22	-	-	-	5,6	6,0	6,4	6,6	5,7	5,0	22
24	-	-	-	-	5,0	5,3	5,5	4,7	4,1	24
26	-	-	-	-	4,1	4,4	4,6	3,8	3,3	26
28	-	-	-	-	-	3,7	3,9	3,1	2,5	28
30	-	-	-	-	-	*	3,2	2,4	1,9	30
32	-	-	-	-	-	*	*	*	1,3	32
34	-	-	-	-	-	-	*	*	*	34
36	-	-	-	-	-	-	*	*	*	36
38	-	-	-	-	-	-	-	*	*	38
40	-	-	-	-	-	-	-	*	*	40
42	-	-	-	-	-	-	-	-	*	42
44	-	-	-	-	-	-	-	-	*	44
	12	9	8	6	6	4	4	4	2	

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.

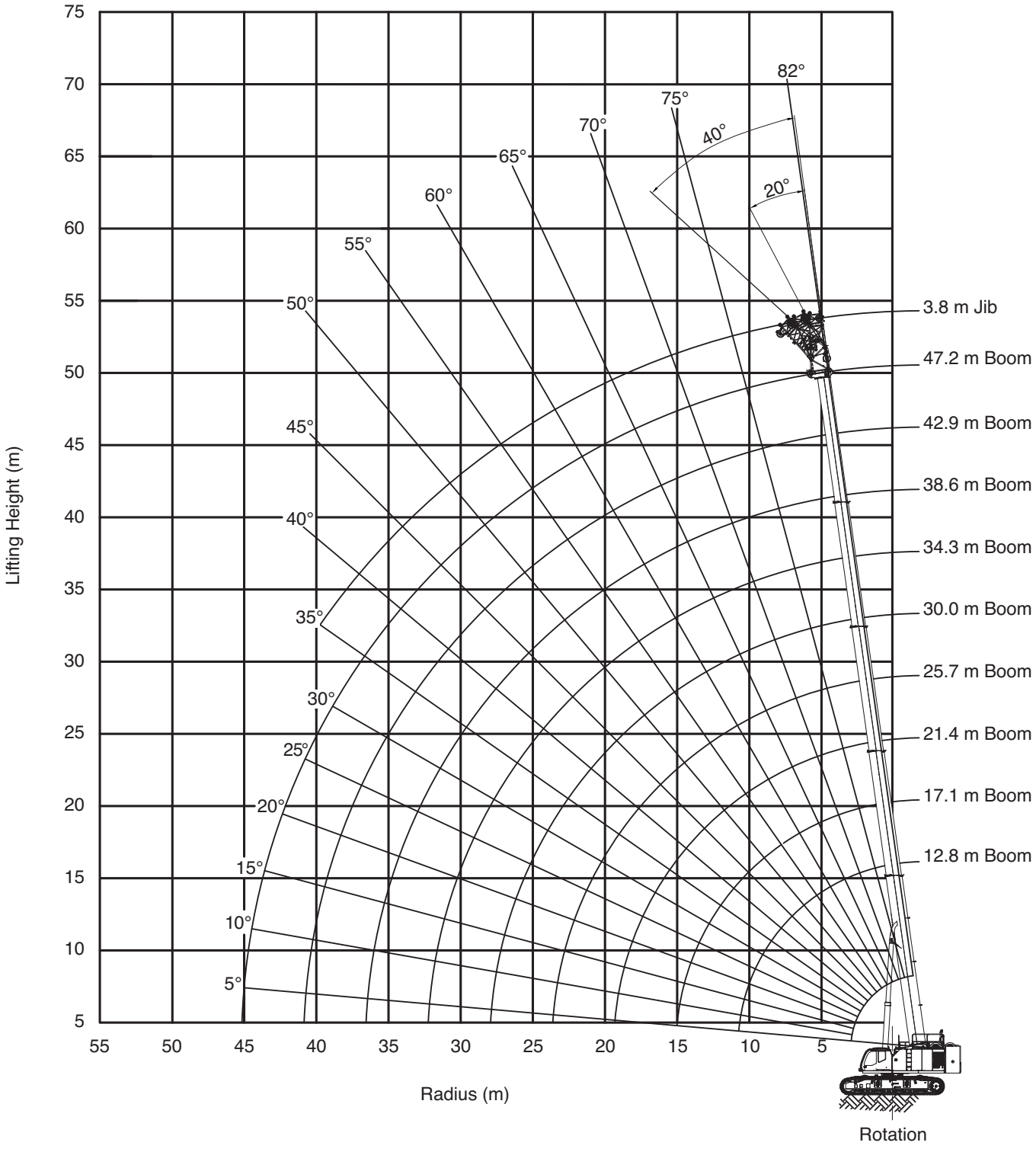
Tracks fully extended – 360° – Up to 0.5° slope

0 t + 9.0 t	5.8 m	0.5°	8.9 m/s	360°	EN13000

	12.8 m	17.1 m	21.4 m	25.7 m	30.0 m	34.3 m	38.6 m	42.9 m	47.2 m	
m	t	t	t	t	t	t	t	t	t	m
3	116,7	76,5	68,6	-	-	-	-	-	-	3
4	80,7	69,4	60,8	51,2	-	-	-	-	-	4
5	56,5	50,0	44,9	38,2	35,0	-	-	-	-	5
6	42,6	38,4	34,9	31,6	30,3	27,5	-	-	-	6
7	33,7	30,6	28,0	27,3	26,4	25,5	23,3	-	-	7
8	26,4	25,1	23,1	22,8	22,2	21,6	20,9	18,9	-	8
9	21,1	20,8	19,3	19,3	19,0	18,6	18,1	16,3	14,7	9
10	17,3	17,0	16,3	16,5	16,4	16,2	15,8	14,1	12,7	10
12	-	11,8	11,6	12,4	12,5	12,5	12,3	10,9	9,7	12
14	-	8,5	8,2	9,2	9,7	9,8	9,8	8,5	7,4	14
16	-	-	5,9	6,8	7,3	7,8	7,8	6,6	5,6	16
18	-	-	4,1	5,0	5,5	6,1	6,3	5,2	4,3	18
20	-	-	-	3,6	4,2	4,7	5,0	4,0	3,1	20
22	-	-	-	2,6	3,1	3,6	3,9	3,0	*	22
24	-	-	-	-	2,2	2,7	3,0	2,2	*	24
26	-	-	-	-	1,5	1,9	2,2	*	*	26
28	-	-	-	-	-	1,3	1,6	*	*	28
30	-	-	-	-	-	*	1,1	*	*	30
32	-	-	-	-	-	*	*	*	*	32
34	-	-	-	-	-	-	*	*	*	34
36	-	-	-	-	-	-	*	*	*	36
38	-	-	-	-	-	-	-	*	*	38
40	-	-	-	-	-	-	-	*	*	40
42	-	-	-	-	-	-	-	-	*	42
44	-	-	-	-	-	-	-	-	*	44
	12	9	8	6	6	4	4	4	2	

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.


Lifting Height (m)
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
55
50
45
40
35
30
25
20
15
10
5
Radius (m)
82°
75°
70°
65°
60°
55°
50°
45°
40°
35°
30°
25°
20°
15°
10°
5°
40°
20°
3.8 m Jib
47.2 m Boom
42.9 m Boom
38.6 m Boom
34.3 m Boom
30.0 m Boom
25.7 m Boom
21.4 m Boom
17.1 m Boom
12.8 m Boom
Rotation

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

31.8 t + 9.0 t | 5.8 m | 0.5° | 3.8 m | 8.9 m/s | 360° | EN13000

	12.8 m			21.4 m			30.0 m			38.6 m			47.2 m			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
m	t	t	t	t	t	t	t	t	t	t	t	t	t	t	t	m
3	40,0	32,7	-	-	-	-	-	-	-	-	-	-	-	-	-	3
4	40,0	31,6	25,2	34,2	-	-	-	-	-	-	-	-	-	-	-	4
5	39,7	29,1	23,9	34,2	34,2	25,0	20,7	-	-	-	-	-	-	-	-	5
6	35,6	27,0	22,7	34,2	32,6	25,0	20,7	19,3	-	-	-	-	-	-	-	6
7	32,2	25,3	21,7	34,2	30,8	24,5	20,7	19,0	16,9	-	-	-	-	-	-	7
8	29,5	23,8	20,9	34,2	29,2	23,7	20,3	18,0	16,4	14,1	13,3	-	-	-	-	8
9	27,2	22,6	20,2	32,8	27,8	22,9	19,2	17,1	15,7	14,1	13,3	12,1	-	-	-	9
10	25,3	21,5	19,7	30,6	26,6	22,3	18,1	16,3	15,1	14,0	12,9	12,1	11,2	-	-	10
12	22,3	19,9	-	26,8	24,5	21,2	16,5	15,0	13,9	12,6	11,7	11,1	11,2	11,0	9,9	12
14	20,4	-	-	22,8	22,8	20,3	14,8	13,9	13,0	11,4	10,7	10,2	10,8	10,1	9,6	14
16	-	-	-	18,3	18,6	18,8	13,3	13,0	12,3	10,3	9,9	9,5	10,0	9,4	9,0	16
18	-	-	-	14,9	15,2	15,3	12,1	11,9	11,6	9,3	9,2	8,9	9,2	8,8	8,4	18
20	-	-	-	12,3	12,5	-	11,0	10,9	10,8	8,4	8,4	8,3	8,5	8,2	7,9	20
22	-	-	-	10,3	10,3	-	10,1	10,0	9,9	7,7	7,6	7,6	7,8	7,7	7,5	22
24	-	-	-	-	-	-	9,3	9,2	9,1	7,0	7,0	7,0	7,3	7,2	7,1	24
26	-	-	-	-	-	-	7,9	8,0	-	6,4	6,4	6,4	6,7	6,7	6,7	26
28	-	-	-	-	-	-	6,7	6,8	-	5,9	5,9	5,9	5,7	5,9	6,0	28
30	-	-	-	-	-	-	5,7	5,8	-	5,4	5,4	5,4	4,7	4,9	5,0	30
32	-	-	-	-	-	-	-	-	-	4,8	4,8	4,9	3,8	4,0	4,1	32
34	-	-	-	-	-	-	-	-	-	4,3	4,4	-	3,1	3,2	3,3	34
36	-	-	-	-	-	-	-	-	-	3,8	3,9	-	2,4	2,5	2,6	36
38	-	-	-	-	-	-	-	-	-	3,3	3,3	-	1,8	1,9	2,0	38
40	-	-	-	-	-	-	-	-	-	2,8	-	-	1,3	1,4	-	40
42	-	-	-	-	-	-	-	-	-	-	-	-	-	0,9	-	42
	6	6	6	3	3	3	2	2	2	2	2	2	2	2	2	

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

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

31.8 t + 9.0 t	5.8 m	0.5°	10.2 m	8.9 m/s	360°	EN13000

	12.8 m			21.4 m			30.0 m			38.6 m			47.2 m			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
m	t	t	t	t	t	t	t	t	t	t	t	t	t	t	t	m
3	15,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
4	15,0	-	-	15,0	-	-	-	-	-	-	-	-	-	-	-	4
5	15,0	14,7	-	15,0	-	-	-	-	-	-	-	-	-	-	-	5
6	15,0	14,7	-	15,0	-	-	14,2	-	-	-	-	-	-	-	-	6
7	15,0	13,6	-	15,0	13,8	-	14,2	-	-	-	-	-	-	-	-	7
8	15,0	12,5	9,3	15,0	13,8	-	14,2	-	-	11,5	-	-	-	-	-	8
9	15,0	11,7	9,3	15,0	13,5	-	14,2	12,1	-	11,5	-	-	-	-	-	9
10	14,5	10,9	8,8	15,0	12,8	9,0	14,2	12,1	-	11,5	-	-	-	-	-	10
12	12,2	9,6	8,1	15,0	11,5	8,9	13,8	11,0	9,0	11,0	8,7	-	8,6	-	-	12
14	10,5	8,7	7,5	14,7	10,5	8,4	12,5	10,2	8,8	9,9	8,4	6,9	8,6	7,6	-	14
16	9,2	7,9	7,1	12,9	9,6	7,9	11,3	9,4	8,3	9,0	7,8	6,9	8,6	7,6	-	16
18	8,2	7,3	6,9	11,5	8,9	7,5	10,4	8,8	7,8	8,3	7,2	6,5	8,2	7,2	6,6	18
20	7,4	6,9	-	10,3	8,3	7,2	9,6	8,2	7,4	7,7	6,8	6,2	7,7	6,8	6,2	20
22	-	-	-	9,4	7,8	7,0	9,0	7,8	7,1	7,2	6,3	5,8	7,2	6,4	5,9	22
24	-	-	-	8,6	7,4	6,8	8,4	7,4	6,8	6,6	6,0	5,5	6,7	6,1	5,6	24
26	-	-	-	8,0	7,1	-	7,8	7,0	6,5	6,1	5,7	5,3	6,2	5,8	5,4	26
28	-	-	-	7,4	6,9	-	7,3	6,7	6,3	5,6	5,4	5,0	5,8	5,5	5,1	28
30	-	-	-	-	-	-	6,6	6,5	6,1	5,2	5,1	4,8	5,4	5,3	4,9	30
32	-	-	-	-	-	-	5,8	6,1	-	4,8	4,8	4,7	4,6	5,0	4,7	32
34	-	-	-	-	-	-	5,1	5,3	-	4,3	4,5	4,5	3,8	4,4	4,5	34
36	-	-	-	-	-	-	4,4	4,6	-	3,9	4,0	4,1	3,2	3,6	4,0	36
38	-	-	-	-	-	-	3,9	-	-	3,5	3,6	3,8	2,6	3,0	3,3	38
40	-	-	-	-	-	-	-	-	-	3,2	3,3	-	2,0	2,4	2,7	40
42	-	-	-	-	-	-	-	-	-	2,9	3,0	-	1,6	1,9	2,1	42
44	-	-	-	-	-	-	-	-	-	2,5	2,6	-	1,1	1,5	1,6	44
46	-	-	-	-	-	-	-	-	-	2,2	-	-	0,8	1,0	1,2	46
48	-	-	-	-	-	-	-	-	-	-	-	-	-	0,6	-	48
	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	

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

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

31.8 t + 9.0 t	5.8 m	0.5°	18.0 m	8.9 m/s	360°	EN13000

	12.8 m			21.4 m			30.0 m			38.6 m			47.2 m			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
m	t	t	t	t	t	t	t	t	t	t	t	t	t	t	t	m
4	6,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
5	6,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
6	6,8	-	-	6,6	-	-	-	-	-	-	-	-	-	-	-	6
7	6,8	-	-	6,6	-	-	-	-	-	-	-	-	-	-	-	7
8	6,8	-	-	6,6	-	-	5,8	-	-	-	-	-	-	-	-	8
9	6,8	-	-	6,6	-	-	5,8	-	-	-	-	-	-	-	-	9
10	6,8	5,1	-	6,6	-	-	5,8	-	-	-	-	-	-	-	-	10
12	6,3	4,9	-	6,6	4,7	-	5,8	-	-	5,0	-	-	-	-	-	12
14	5,6	4,5	-	6,6	4,7	-	5,8	4,3	-	5,0	-	-	4,5	-	-	14
16	5,0	4,1	3,5	6,0	4,4	3,3	5,8	4,3	-	5,0	-	-	4,5	-	-	16
18	4,5	3,8	3,3	5,5	4,1	3,3	5,8	4,3	3,2	5,0	4,0	-	4,5	-	-	18
20	4,1	3,5	3,1	5,0	3,9	3,3	5,5	4,0	3,2	5,0	4,0	-	4,5	3,6	-	20
22	3,8	3,3	3,0	4,6	3,7	3,1	5,1	3,8	3,2	5,0	3,9	3,0	4,5	3,6	-	22
24	3,5	3,1	2,9	4,3	3,5	3,0	4,8	3,7	3,1	5,0	3,7	3,0	4,5	3,6	2,7	24
26	3,2	2,9	2,8	4,0	3,3	2,9	4,5	3,5	3,0	4,8	3,6	3,0	4,5	3,6	2,7	26
28	3,0	2,8	-	3,7	3,2	2,8	4,3	3,4	2,9	4,5	3,4	2,9	4,5	3,5	2,7	28
30	-	-	-	3,5	3,0	2,8	4,0	3,2	2,8	4,3	3,3	2,9	4,5	3,4	2,7	30
32	-	-	-	3,3	2,9	2,7	3,8	3,1	2,8	4,1	3,2	2,8	4,3	3,3	2,7	32
34	-	-	-	3,2	2,8	-	3,6	3,0	2,7	3,9	3,1	2,7	4,1	3,2	2,7	34
36	-	-	-	3,0	2,8	-	3,5	2,9	2,7	3,7	3,0	2,7	3,7	3,1	2,7	36
38	-	-	-	-	-	-	3,3	2,8	2,6	3,4	2,9	2,6	3,2	3,0	2,6	38
40	-	-	-	-	-	-	3,2	2,8	-	3,1	2,9	2,6	2,6	2,9	2,6	40
42	-	-	-	-	-	-	3,1	2,7	-	2,8	2,8	2,6	2,1	2,8	2,5	42
44	-	-	-	-	-	-	3,0	2,7	-	2,6	2,7	2,5	1,7	2,3	2,5	44
46	-	-	-	-	-	-	2,9	-	-	2,3	2,5	2,5	1,3	1,9	2,3	46
48	-	-	-	-	-	-	-	-	-	2,1	2,3	-	1,0	1,5	1,8	48
50	-	-	-	-	-	-	-	-	-	1,9	2,1	-	0,7	1,1	1,4	50
	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

31.8 t + 9.0 t	5.8 m	0.5°	25.0 m	8.9 m/s	360°	EN13000

	12.8 m			21.4 m			30.0 m			38.6 m			47.2 m			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
m	t	t	t	t	t	t	t	t	t	t	t	t	t	t	t	m
6	5,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6
7	5,0	-	-	4,3	-	-	-	-	-	-	-	-	-	-	-	7
8	5,0	-	-	4,3	-	-	-	-	-	-	-	-	-	-	-	8
9	5,0	-	-	4,3	-	-	-	-	-	-	-	-	-	-	-	9
10	5,0	-	-	4,3	-	-	4,0	-	-	-	-	-	-	-	-	10
12	5,0	-	-	4,3	-	-	4,0	-	-	-	-	-	-	-	-	12
14	5,0	4,5	-	4,3	-	-	4,0	-	-	3,5	-	-	-	-	-	14
16	5,0	4,0	-	4,3	4,2	-	4,0	-	-	3,5	-	-	3,2	-	-	16
18	4,4	3,6	-	4,3	4,0	-	4,0	3,9	-	3,5	-	-	3,2	-	-	18
20	3,9	3,3	2,7	4,3	3,7	-	4,0	3,9	-	3,5	-	-	3,2	-	-	20
22	3,5	3,0	2,6	4,3	3,4	2,7	4,0	3,6	-	3,5	3,5	-	3,2	-	-	22
24	3,2	2,8	2,4	4,0	3,2	2,6	4,0	3,4	2,6	3,5	3,5	-	3,2	3,2	-	24
26	2,9	2,6	2,3	3,7	2,9	2,5	4,0	3,2	2,5	3,5	3,4	-	3,2	3,2	-	26
28	2,7	2,4	2,2	3,4	2,8	2,3	4,0	3,0	2,4	3,5	3,2	2,5	3,2	3,2	-	28
30	2,5	2,2	2,1	3,2	2,6	2,2	3,8	2,9	2,3	3,5	3,1	2,4	3,2	3,0	-	30
32	2,3	2,1	-	2,9	2,5	2,2	3,5	2,7	2,3	3,4	2,9	2,3	3,2	2,9	2,4	32
34	2,1	2,0	-	2,7	2,3	2,1	3,3	2,6	2,2	3,2	2,8	2,3	3,2	2,8	2,3	34
36	-	-	-	2,5	2,2	2,0	3,1	2,5	2,1	3,1	2,7	2,2	3,0	2,6	2,2	36
38	-	-	-	2,4	2,1	2,0	2,9	2,4	2,1	2,9	2,6	2,1	2,9	2,5	2,2	38
40	-	-	-	2,2	2,1	-	2,7	2,3	2,0	2,6	2,5	2,1	2,6	2,4	2,1	40
42	-	-	-	2,1	2,0	-	2,6	2,2	2,0	2,4	2,3	2,0	2,2	2,3	2,1	42
44	-	-	-	2,0	-	-	2,4	2,1	2,0	2,2	2,2	2,0	1,8	2,2	2,1	44
46	-	-	-	-	-	-	2,3	2,1	2,0	2,1	2,1	2,0	1,4	2,2	2,0	46
48	-	-	-	-	-	-	2,2	2,0	-	1,9	2,0	1,9	1,1	1,8	2,0	48
50	-	-	-	-	-	-	-	-	-	1,7	1,8	1,8	0,8	1,4	1,9	50
55	-	-	-	-	-	-	-	-	-	1,3	1,5	-	-	0,6	1,0	55
	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.

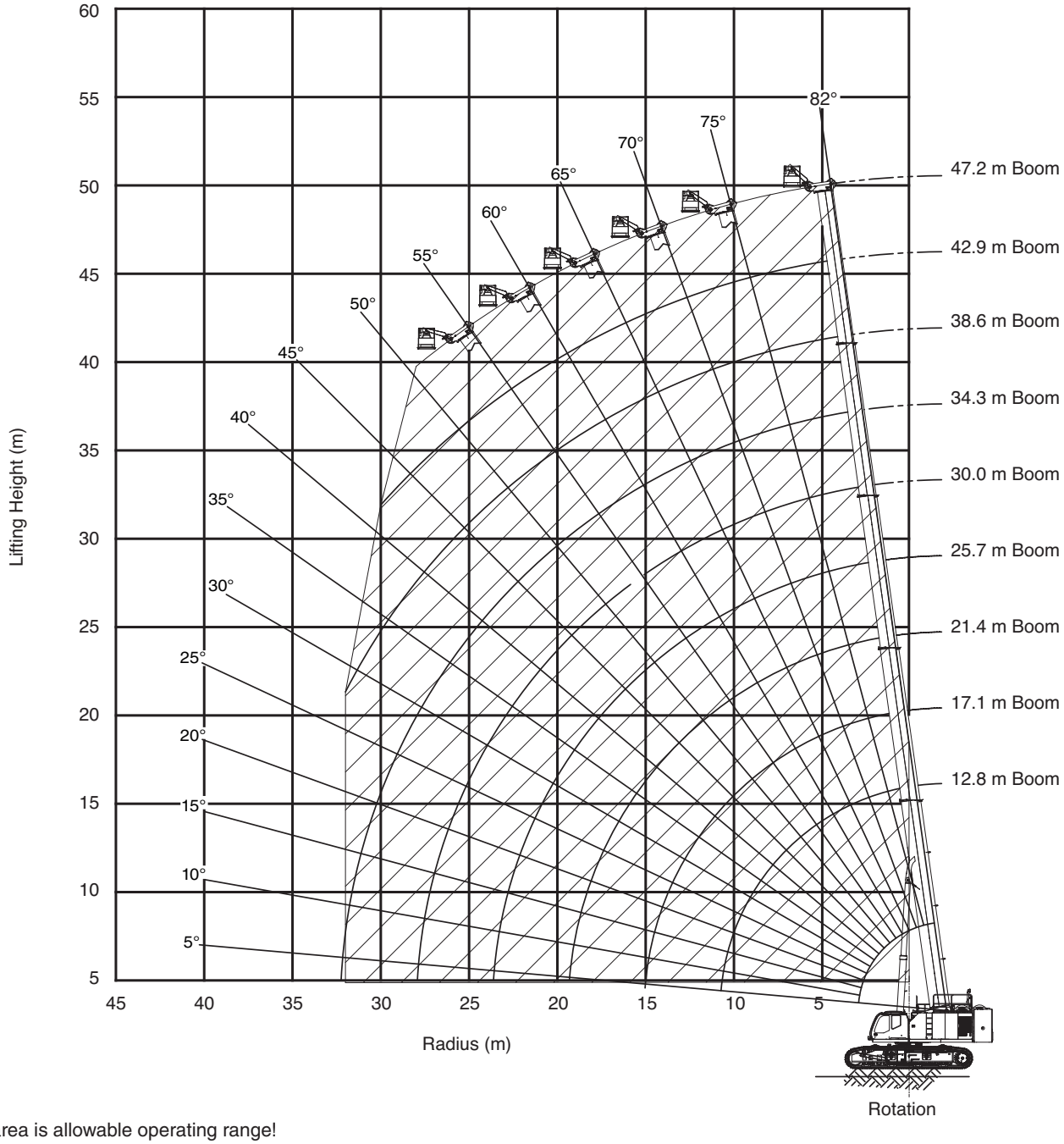
Tracks fully extended – 360° – Up to 0.5° slope – Folding jib

31.8 t + 9.0 t | 5.8 m | 0.5° | 32.0 m | 8.9 m/s | 360° | EN13000

	12.8 m			21.4 m			30.0 m			38.6 m			47.2 m			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
m	t	t	t	t	t	t	t	t	t	t	t	t	t	t	t	m
7	3,5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7
8	3,5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
9	3,5	-	-	3,4	-	-	-	-	-	-	-	-	-	-	-	9
10	3,5	-	-	3,4	-	-	-	-	-	-	-	-	-	-	-	10
12	3,5	-	-	3,4	-	-	2,9	-	-	-	-	-	-	-	-	12
14	3,5	-	-	3,4	-	-	2,9	-	-	-	-	-	-	-	-	14
16	3,5	-	-	3,4	-	-	2,9	-	-	2,6	-	-	-	-	-	16
18	3,4	3,0	-	3,4	-	-	2,9	-	-	2,6	-	-	2,4	-	-	18
20	3,2	2,8	-	3,4	2,9	-	2,9	-	-	2,6	-	-	2,4	-	-	20
22	3,0	2,5	-	3,2	2,7	-	2,9	2,6	-	2,6	-	-	2,4	-	-	22
24	2,7	2,3	-	3,0	2,5	-	2,9	2,6	-	2,6	-	-	2,4	-	-	24
26	2,5	2,1	1,8	2,9	2,3	-	2,9	2,4	-	2,6	2,3	-	2,4	-	-	26
28	2,2	2,0	1,7	2,8	2,2	1,7	2,8	2,3	-	2,6	2,2	-	2,4	-	-	28
30	2,1	1,8	1,6	2,6	2,0	1,7	2,7	2,2	1,7	2,6	2,2	-	2,4	2,1	-	30
32	1,9	1,7	1,5	2,4	1,9	1,6	2,6	2,1	1,7	2,5	2,1	-	2,4	2,0	-	32
34	1,7	1,6	1,4	2,2	1,8	1,5	2,5	2,0	1,6	2,4	2,1	1,6	2,3	2,0	-	34
36	1,6	1,5	1,4	2,0	1,7	1,5	2,4	1,9	1,5	2,4	2,0	1,6	2,3	1,9	-	36
38	1,5	1,4	1,3	1,9	1,6	1,4	2,2	1,8	1,5	2,3	1,9	1,5	2,2	1,9	1,5	38
40	1,4	1,3	-	1,8	1,5	1,4	2,1	1,7	1,4	2,2	1,8	1,5	2,2	1,8	1,5	40
42	1,3	1,3	-	1,7	1,5	1,3	2,0	1,6	1,4	2,1	1,7	1,4	2,1	1,8	1,4	42
44	-	-	-	1,6	1,4	1,3	1,9	1,5	1,3	2,0	1,7	1,4	2,1	1,8	1,4	44
46	-	-	-	1,5	1,3	-	1,8	1,5	1,3	1,8	1,6	1,3	1,7	1,7	1,4	46
48	-	-	-	-	-	-	1,7	1,4	1,3	1,7	1,5	1,3	1,4	1,6	1,3	48
50	-	-	-	-	-	-	1,6	1,4	1,3	1,6	1,5	1,3	1,1	1,6	1,3	50
55	-	-	-	-	-	-	1,4	1,3	1,3	1,3	1,3	1,2	-	1,1	1,3	55
60	-	-	-	-	-	-	-	-	-	1,0	1,1	1,2	-	-	0,9	60
	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.

WP750
Work platform

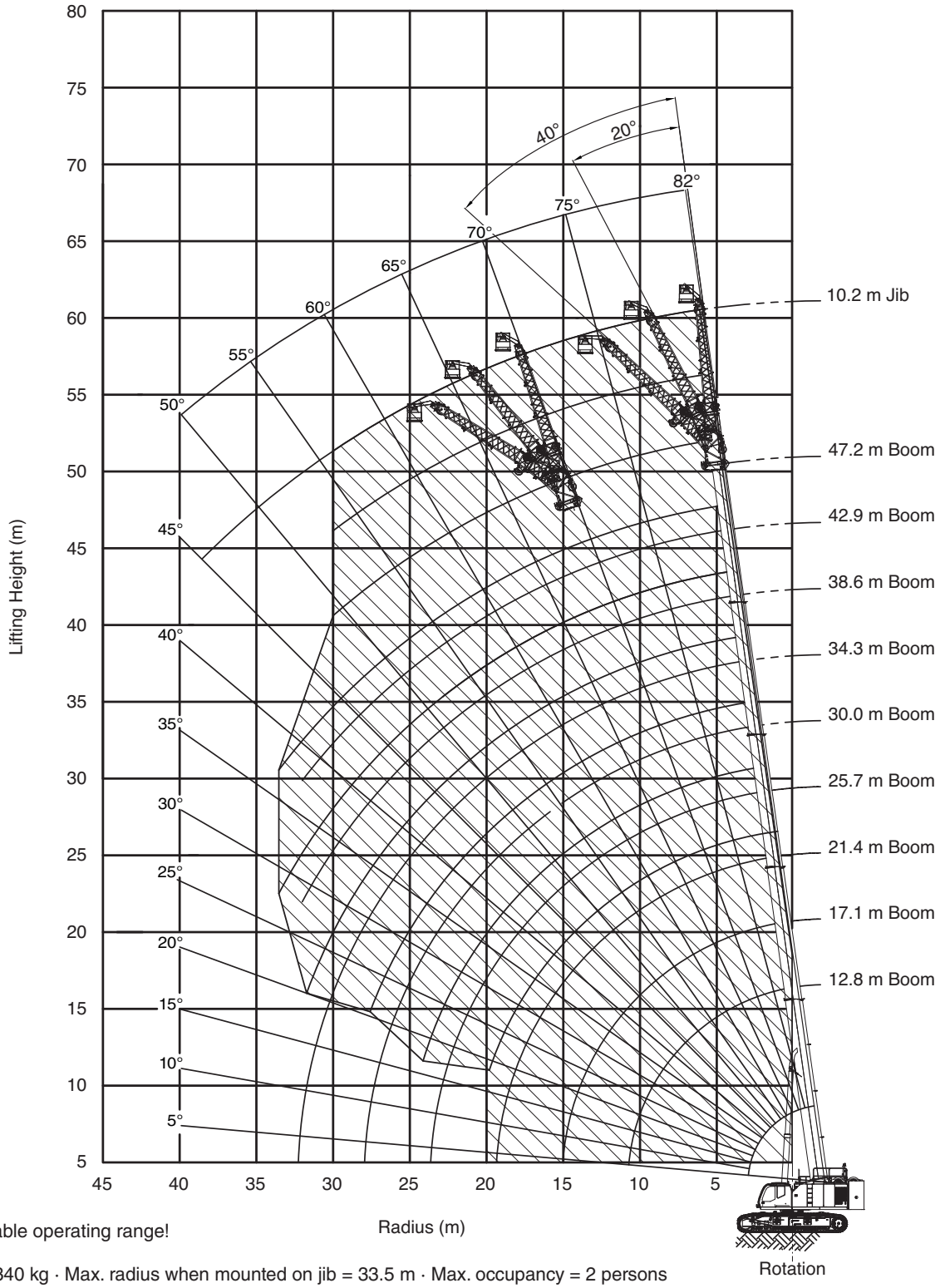


Shaded area is allowable operating range!
Limits of operation:
Max. load capacity = 340 kg · Max. radius when mounted on main boom = 32.5 m · Max. occupancy = 2 persons

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 = 340 kg · Max. radius when mounted on jib = 33.5 m · Max. occupancy = 2 persons

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

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

Notes to Lifting Capacity

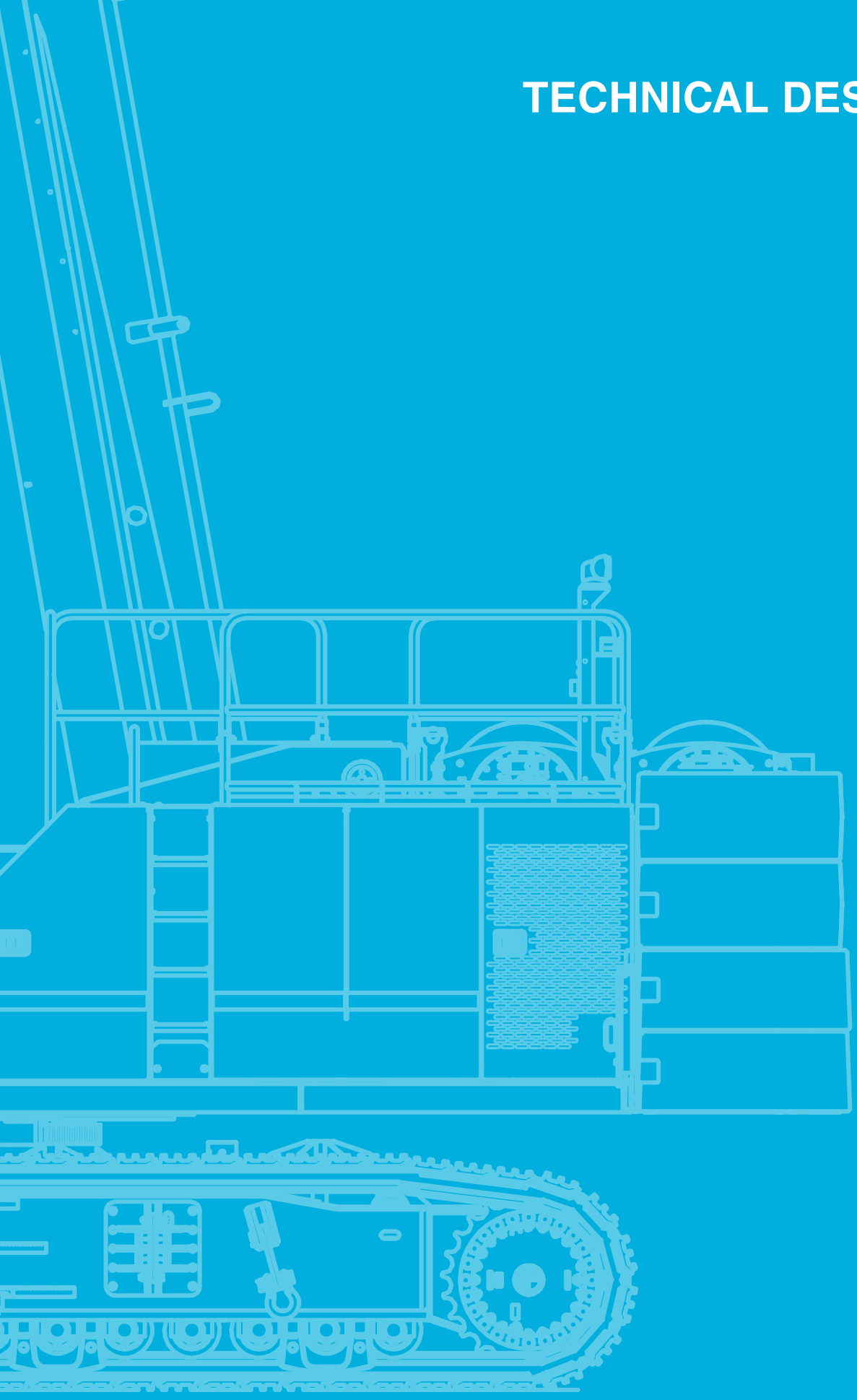
Definitions and Explanations

- Load capacity values in these charts are stated in 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

Crane specifications

Boom

5-section full power telescoping boom with 2 extension modes. System consists of three double acting hydraulic cylinders with load holding valves and extension and retraction cables.
Retracted length: 12.8 m
Extended length: 47.2 m — Extension time: 200 s
Elevating angles: -2° to 82° — Elevating time: 89 s
Boom head: Eight, 543 mm diameter cast nylon sheaves on heavy-duty roller bearings (6 load bearing and 2 lead in sheaves). Designed for quick reeving of head and load block.

Auxiliary boom head

Quick reeve, single 543 mm diameter high-strength, cast nylon sheave mounted on a heavy-duty roller bearing. Allows single or 2 part reeving.

Counterweight

6 piece counterweight design. Three upper counterweight configurations.
Configuration „A“ = 10.590 kg
Configuration „B“ = 21.180 kg
Configuration „C“ = 31.750 kg
Two carbody counterweights, 4.535 kg each.

Winches

Planetary geared two-speed winch includes a hydraulic motor, multi-disc internal brake, counterbalance valve, grooved drum, cable follower, and 3rd wrap indicator. Drum rotation indicator is included (complete winch performance specs on page 16).

Main winch:
- Rope diameter and length: 22 mm x 231 m
- Single line pull: 104.8 kN – first layer
- Single line speed: 89.4 m/min – 5th layer

Auxiliary winch:
- Rope diameter and length: 22 mm x 187 m
- Single line pull: 104.8 kN – first layer
- Single line speed: 89.4 m/min – 5th layer

Travel

Each side frame contains a pilot controlled, two-speed track drive with hydraulic axial piston motor and parking brake. Travel system provides skid steering and counter rotation.
Travel speed: Low: 0.7 km/hr · High: 2.2 km/hr
Gradeability (unladen): 70%

Swing

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

Load moment indicator

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

Frame

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

Operators cab

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

Technical Description

Crane specifications

Engine	Make/Model: Cummins QSL9 · Type: 6 cylinder, water cooled, 4 cycle · Aspiration: turbocharged and aftercooled · Max. output: 350 HP (261 kW)@2100 rpm · Max. torque: 1,201 lb-ft (1,628 Nm)@1500 rpm · Piston disp: 8.9 l · Emission Cert: U.S. EPA Tier 4f, Euromot Stage IV · Alternator: 70 amp. · Throttle control by: accelerator pedal, auto-idle, or adaptive throttle.
Electrical system	24 VDC.
Fuel system	Capacity: 473 liter. Filtration: Inline fuel/water separator and engine mounted fuel filter.
Side frames	Two welded steel side frames are paired with a track group. The side frames extend and retract hydraulically and are controlled from the cab. Track rollers: Two top and fourteen bottom sealed rollers on each track frame Idler: Oil filled, self lubricating with nitrogen type tensioner. Track shoes: 900 mm, 3-bar semi grouser.
Hydraulic system	Hydraulic pumps: Two high pressure, variable axial piston pumps with load sense and power limiting control for crane functions. One axial piston pump for swing function. Directional valves: Multiple pressure and flow compensated valves with integrated relief valves controlled by electrical signals. Pump output: 840 l/min@2100 rpm engine speed. 345 bar maximum pressure. Reservoir: 1.385 liter capacity, filler breather cap, sight gauge, cleanout, and sump drain. Filtration: Three 5 micron, full flow tank mounted return filters with electrical clogging indicator. 2 micron pilot oil in-line pressure filter. Diagnostic ports: Provided for system, load sense, and pilot pressure.

Optional equipment

Jibs	Heavy lift jib: Total length: 3.8 m	Max. lifting height: 50.7 m	Offset angles: 20° and 40°
	Main jib: Total length: 10.2 m	Max. lifting height: 57.2 m	Offset angles: 20° and 40°
	Fly jib: Total length: 18.0 m	Max. lifting height: 65.1 m	Offset angles: 20° and 40°
	Long jib: Total length: 32.0 m	Max. lifting height: 79.0 m	Offset angles: 20° and 40°
Hook blocks	120 t quick reeve hook block – six, 457 mm steel sheaves, swivel hook and safety latch. 90 t quick reeve hook block – five, 457 mm steel sheaves, swivel hook and safety latch. 64 t quick reeve hook block – three, 457 mm steel sheaves, swivel hook and safety latch. 25 t quick reeve hook block – one, 457 mm steel sheave, swivel hook and safety latch.		
Overhaul ball	12.5 t with swivel hook and safety latch.		
360° house lock	Actuated from the operator's cab.		
Track shoes	900 mm flat shoe.		
Tool circuit	Provides 23 l/min and 45 l/min@176 bar through a 15.2 m twin hose reel with quick disconnect fittings to operate open center tools.		
High flow tool circuit	Provides 170 l/min@330 bar.		
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 – 0.9 m x 1.8 m, all steel, welded, two person platform with maximum capacity of 340 kg.		
Full function radio remote control package			
Boom mounted anemometer with cab display			
Automatic central lubrication system			

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