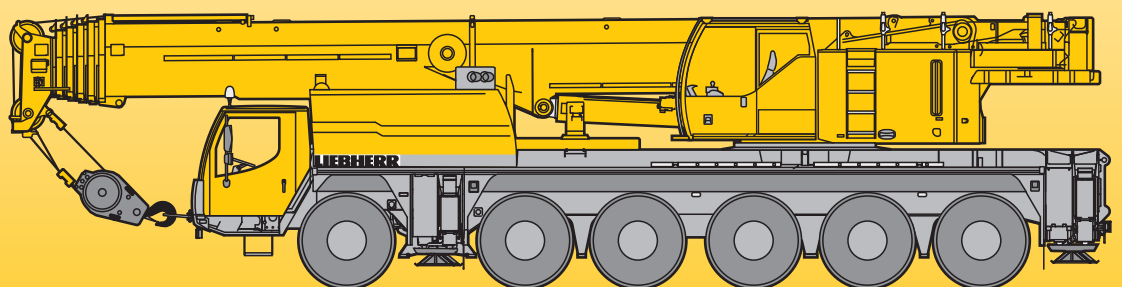




Mobile Crane Grue mobile

LTM 1150-6.1

Technical Data Caractéristiques techniques



LIEBHERR



Lifting capacities
Forces de levage

T

		45 – 217 ft				360°		103200 lbs		85%															
		45 ft		61 ft	76 ft	92 ft	108 ft	124 ft	139 ft	156 ft	171 ft	187 ft	198 ft	203 ft	214 ft	217 ft									
ft		*															ft								
9	347.2	223.3	182.1	166													9								
10	336.1	222.2	182.1	165.7													10								
11	265.2	216.4	182.1	164.9	129.9												11								
12	224.7	208.7	182.1	163.7	129.6												12								
13	212.3	199.2	182.1	162.2	128.6												13								
14	200.2	190.7	180	160.3	127.8	103.8											14								
15	188.6	182.5	176.1	158.2	127	103.6											15								
16	179	174.8	167.5	155.7	126	102.7											16								
17	171.6	167.8	160.9	152.3	124.7	101.7											17								
18	165.9	161.2	155.6	148.1	123.2	100.7	79.3										18								
20	154.8	148.4	145.4	139.8	120.1	98.7	78.3										20								
22	145.1	137.5	137.4	131.6	116.9	96.5	77.2	61.6									22								
24	135.9	127.8	129.1	124.1	113.6	94.4	76.1	60.8									24								
26	127.2	119	120.4	117.3	110.4	92.2	74.9	59.9	46.3								26								
28	118.7	111.4	112.7	111.3	105.8	90.1	73.4	59	45.7								28								
30	110.2	104.1	105.4	105.5	101	87.9	72	58.1	45.1	37.4							30								
32	101.8	97.6	99.1	99.5	96.3	85.8	70.7	56.9	44.5	37.2	29.8						32								
34	91.4	89.3	93.4	93.8	92	83.8	69.2	55.6	44	37	29.7						34								
36			88	88.4	87.9	81.9	67.8	54.3	43.5	36.8	29.6	24.9					36								
38			83.3	83.7	83.3	79.9	66.4	53.2	42.8	36.6	29.4	24.8	24	18.7			38								
40			78.7	79.2	78.9	77.5	65.1	52.1	42.1	36.3	29.3	24.7	24	18.7	17.9		40								
45			68.1	68.7	70	69.4	61.7	49.4	40.6	35.4	28.9	24.3	23.8	18.7	18.1		45								
50				61.2	62.1	61.3	57.8	46.3	38.8	34.5	28.3	23.8	23.5	18.7	18.1		50								
55				54.8	55.1	54.2	52.9	43.5	36.9	33.4	27.7	23.2	23.1	18.7	18		55								
60				49.1	49.1	48.2	47.3	41.1	34.9	32.1	27	22.3	22.6	18.5	17.8		60								
65					44.1	43.4	42.3	39.1	32.9	30.4	26.3	21.3	22.1	18.1	17.5		65								
70					40	39.2	38.1	37.2	31	28.7	25.2	20.4	21.6	17.6	17.1		70								
75						35.7	34.6	35.1	29.2	27.1	24	19.5	20.9	17.1	16.8		75								
80						32.6	31.8	32.6	27.3	25.5	22.9	18.5	20.1	16.6	16.4		80								
85						29.7	30.1	29.7	25.3	24.1	21.7	17.7	19.2	16.1	15.9		85								
90						27.3	28.4	27.3	23.6	22.8	20.7	16.9	18.4	15.5	15.4		90								
95							26.4	25.1	22.4	21.4	19.7	16.1	17.6	14.9	14.8		95								
100							24.3	23	21.6	20.1	18.6	15.4	16.8	14.4	14.2		100								
105							22.5	21.2	20.7	19	17.6	14.8	16.1	13.9	13.7		105								
110								19.5	19.7	17.4	16.6	14.1	15.4	13.4	13		110								
115								18.2	18.5	16.3	15.7	13.4	14.8	12.9	12.4		115								
120								17.2	17.1	15.4	14.8	12.8	14.1	12.4	11.9		120								
125								16.5	15.8	14.7	13.8	12.1	13.4	11.9	11.2		125								
130									14.6	14.1	12.8	11.8	12.7	11.4	10.7		130								
135									13.6	13.4	12.2	11.3	11.9	11	10.2		135								
140										12.6	11.7	10.8	11.1	10.6	9.7		140								
145										11.8	11.2	10.3	10.3	10.1	9.2		145								
150										11	10.5	10	9.4	9.6	8.9		150								
155											9.7	9.5	8.9	9.1	8.4		155								
160											9	9	8.3	8.5	8		160								
165											8.5	8.5	7.6	7.8	7.6		165								
170											8	8	7.1	7.3	7.1		170								
175												7.5	6.6	6.8	6.6		175								
180												7	6.1	6.3	6.1		180								
185												5.9	5.6	5.8	5.6		185								
190														5.3	5.1		190								
195														4.8	4.6		195								

* over rear · en arrière

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Lifting capacities
Forces de levage

T

 ft		45 – 217 ft				 ±60°		 103200 lbs		85%											
 ft		45 ft	61 ft	76 ft	92 ft	108 ft	124 ft	139 ft	156 ft	171 ft	187 ft	198 ft	203 ft	214 ft	217 ft	 ft					
9		223.3	182.1	166													9				
10		222.2	182.1	165.7													10				
11		216.4	182.1	164.9	129.9												11				
12		208.7	182.1	163.7	129.6												12				
13		199.2	182.1	162.2	128.6												13				
14		190.7	180	160.3	127.8	103.8											14				
15		182.5	176.1	158.2	127	103.6											15				
16		174.8	167.5	155.7	126	102.7											16				
17		167.9	160.9	152.3	124.7	101.7											17				
18		161.4	155.6	148.1	123.2	100.7	79.3										18				
20		148.9	145.4	139.8	120.1	98.7	78.3										20				
22		138.6	137.7	131.6	116.9	96.5	77.2	61.6									22				
24		129.2	129.9	124.1	113.6	94.4	76.1	60.8									24				
26		120.8	122	117.3	110.4	92.2	74.9	59.9	46.3								26				
28		113.2	114.6	111.5	105.8	90.1	73.4	59	45.7								28				
30		106.1	107.5	105.9	101	87.9	72	58.1	45.1	37.4							30				
32		99.8	101.3	100.8	96.3	85.8	70.7	56.9	44.5	37.2	29.8						32				
34		90.7	95.4	95.6	92	83.8	69.2	55.6	44	37	29.7						34				
36			89.8	90.4	87.9	81.9	67.8	54.3	43.5	36.8	29.6	24.9					36				
38			84.2	84.9	83.5	79.9	66.4	53.2	42.8	36.6	29.4	24.8	24	18.7			38				
40			79.1	79.8	79.3	77.5	65.1	52.1	42.1	36.3	29.3	24.7	24	18.7	17.9		40				
45			68.2	68.8	70.1	69.4	61.7	49.4	40.6	35.4	28.9	24.3	23.8	18.7	18.1		45				
50				61.2	62.1	61.3	57.8	46.3	38.8	34.5	28.3	23.8	23.5	18.7	18.1		50				
55				54.8	55.1	54.2	52.9	43.5	36.9	33.4	27.7	23.2	23.1	18.7	18		55				
60				49.1	49.1	48.2	47.3	41.1	34.9	32.1	27	22.3	22.6	18.5	17.8		60				
65					44.1	43.4	42.3	39.1	32.9	30.4	26.3	21.3	22.1	18.1	17.5		65				
70					40	39.2	38.1	37.2	31	28.7	25.2	20.4	21.6	17.6	17.1		70				
75						35.7	34.6	35.1	29.2	27.1	24	19.5	20.9	17.1	16.8		75				
80						32.6	31.8	32.6	27.3	25.5	22.9	18.5	20.1	16.6	16.4		80				
85						29.7	30.1	29.7	25.3	24.1	21.7	17.7	19.2	16.1	15.9		85				
90						27.3	28.4	27.3	23.6	22.8	20.7	16.9	18.4	15.5	15.4		90				
95							26.5	25.2	22.4	21.4	19.7	16.1	17.6	14.9	14.8		95				
100							24.6	23.2	21.6	20.1	18.6	15.4	16.8	14.4	14.2		100				
105							22.7	21.4	20.7	19	17.6	14.8	16.1	13.9	13.7		105				
110								19.7	19.9	17.6	16.6	14.1	15.4	13.4	13		110				
115								18.3	18.8	16.4	15.7	13.4	14.8	12.9	12.4		115				
120								17.2	17.6	15.4	14.9	12.8	14.1	12.4	11.9		120				
125								16.5	16.3	14.7	14	12.1	13.4	11.9	11.2		125				
130									15.2	14.1	13	11.8	12.7	11.4	10.7		130				
135									14.2	13.5	12.3	11.3	12.2	11	10.2		135				
140										13	11.7	10.8	11.6	10.6	9.7		140				
145										12.5	11.2	10.3	10.9	10.1	9.2		145				
150										11.6	10.7	10	10.1	9.8	8.9		150				
155											10.2	9.5	9.2	9.3	8.4		155				
160											9.6	9.1	8.5	8.8	8		160				
165											8.9	8.8	7.8	8.3	7.7		165				
170											8.2	8.4	7.1	7.6	7.3		170				
175												7.8	6.6	6.9	6.7		175				
180												7.2	6.1	6.3	6.1		180				
185												6.1	5.6	5.8	5.6		185				
190														5.3	5.1		190				
195														4.8	4.6		195				

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Lifting capacities
Forces de levage

T

	45 – 217 ft T		360° 	67900 lbs 	85% 														
ft	45 ft	61 ft	76 ft	92 ft	108 ft	124 ft	139 ft	156 ft	171 ft	187 ft	198 ft	203 ft	214 ft	217 ft	ft				
9	233.4	182.1	166												9				
10	230.9	182.1	165.7												10				
11	219.8	182.1	164.9	129.9											11				
12	209.4	182.1	163.7	129.6											12				
13	199.4	182.1	162.2	128.6											13				
14	190.3	180	160.3	127.8	103.8										14				
15	181.5	176.1	158.2	127	103.6										15				
16	173.1	167.5	155.7	126	102.7										16				
17	165.7	160.9	152.3	124.7	101.7										17				
18	158.9	155.6	148.1	123.2	100.7	79.3									18				
20	145.7	145.1	139.8	120.1	98.7	78.3									20				
22	134.3	135.3	131.6	116.9	96.5	77.2	61.6								22				
24	124	125.7	123.8	113.6	94.4	76.1	60.8								24				
26	114.9	116.4	116.4	110.4	92.2	74.9	59.9	46.3							26				
28	106	107.8	108.2	104.9	90.1	73.4	59	45.7							28				
30	97.4	99.4	100.1	98.9	87.9	72	58.1	45.1	37.4						30				
32	89.9	91.9	92.6	91.9	85.8	70.7	56.9	44.5	37.2	29.8					32				
34	83.2	85.2	85.8	86.3	83.3	69.2	55.6	44	37	29.7					34				
36		79.2	79.6	81.6	80.6	67.8	54.3	43.5	36.8	29.6	24.9				36				
38		74.2	75.6	76.6	75.8	66.4	53.2	42.8	36.6	29.4	24.8	24	18.7		38				
40		69.6	71.8	72	71.3	64.8	52.1	42.1	36.3	29.3	24.7	24	18.7	17.9	40				
45		60.6	62.2	62.2	61.6	59.6	49.4	40.6	35.4	28.9	24.3	23.8	18.7	18.1	45				
50			54.5	54.5	53.9	52.8	46.3	38.8	34.5	28.3	23.8	23.5	18.7	18.1	50				
55			48.1	48.1	47.4	46.3	43.4	36.9	33.4	27.7	23.2	23.1	18.7	18	55				
60			42.5	42.5	41.9	41	40.5	34.8	32.1	27	22.3	22.6	18.5	17.8	60				
65				37.8	37.2	37.3	36.8	32.3	30.4	26.3	21.3	22.1	18.1	17.5	65				
70				33.9	33.2	34.2	33.1	29.9	28.3	25.2	20.4	21.6	17.6	17.1	70				
75					30.4	31.1	29.7	27.7	25.7	24	19.5	20.9	17.1	16.8	75				
80					28.3	28	26.7	25.9	23.3	22.7	18.5	20.1	16.6	16.4	80				
85					26.2	25.3	24	24.3	22.1	20.8	17.7	19.2	16.1	15.9	85				
90					24	23.1	22.4	22.4	20.5	19	16.9	18.4	15.5	15.4	90				
95						21	21	20.3	19.2	17.9	16.1	17.2	14.9	14.8	95				
100						19.1	19.6	18.4	18.2	17.1	15.4	15.9	14.4	14.2	100				
105						17.6	18.1	16.8	17	16.1	14.8	14.6	13.9	13.7	105				
110							16.6	15.6	15.5	14.8	14.1	13.2	13.1	13	110				
115							15.2	14.6	14.2	13.5	13.3	12	12.1	12	115				
120							14	13.7	13	12.4	12.4	10.9	11.1	10.9	120				
125							12.9	12.7	11.9	11.4	11.4	9.9	10.1	9.9	125				
130								11.7	11	10.4	10.4	8.9	9.3	9	130				
135								10.7	10	9.5	9.5	8.1	8.4	8.2	135				
140									9.2	8.7	8.7	7.4	7.6	7.4	140				
145									8.5	7.8	8.1	6.5	6.8	6.5	145				
150									7.8	7	7.2	5.9	6.1	5.9	150				
155										6.3	6.5	5.2	5.4	5.2	155				
160										5.6	5.8	4.5	4.8	4.6	160				
165										5	5.2	3.8	4.3	4.1	165				
170										4.5	4.5	3.2	3.6	3.4	170				
175											4	2.6	3.1	2.9	175				
180											3.5	2.1	2.6	2.4	180				
185											3				185				

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Lifting capacities
Forces de levage

T

																			
	45 ft	61 ft	76 ft	92 ft	108 ft	124 ft	139 ft	156 ft	171 ft	187 ft	198 ft	203 ft	214 ft	217 ft					
9	233.3	182.1	166												9				
10	230.6	182.1	165.7												10				
11	219.6	182.1	164.9	129.9											11				
12	209.2	182.1	163.7	129.6											12				
13	199.4	182.1	162.2	128.6											13				
14	190.4	180	160.3	127.8	103.8										14				
15	181.8	176.1	158.2	127	103.6										15				
16	174	167.5	155.7	126	102.7										16				
17	167	160.9	152.3	124.7	101.7										17				
18	160.5	155.6	148.1	123.2	100.7	79.3									18				
20	147.7	145.3	139.8	120.1	98.7	78.3									20				
22	136.7	137	131.6	116.9	96.5	77.2	61.6								22				
24	126.2	127.9	124	113.6	94.4	76.1	60.8								24				
26	116.1	118.1	117	110.4	92.2	74.9	59.9	46.3							26				
28	106.5	108.5	108.5	104.9	90.1	73.4	59	45.7							28				
30	97.4	99.4	100.1	98.9	87.9	72	58.1	45.1	37.4						30				
32	89.9	91.9	92.6	91.9	85.8	70.7	56.9	44.5	37.2	29.8					32				
34	83.2	85.2	85.8	86.3	83.3	69.2	55.6	44	37	29.7					34				
36		79.2	79.6	81.6	80.6	67.8	54.3	43.5	36.8	29.6	24.9				36				
38		74.2	75.6	76.6	75.8	66.4	53.2	42.8	36.6	29.4	24.8	24	18.7		38				
40		69.6	71.8	72	71.3	64.8	52.1	42.1	36.3	29.3	24.7	24	18.7	17.9	40				
45		60.6	62.2	62.2	61.6	59.6	49.4	40.6	35.4	28.9	24.3	23.8	18.7	18.1	45				
50			54.5	54.5	53.9	52.8	46.3	38.8	34.5	28.3	23.8	23.5	18.7	18.1	50				
55			48.2	48.2	47.4	46.4	43.5	36.9	33.4	27.7	23.2	23.1	18.7	18	55				
60			42.8	42.8	41.9	41.2	40.8	34.9	32.1	27	22.3	22.6	18.5	17.8	60				
65				38.3	37.6	37.3	37.5	32.9	30.4	26.3	21.3	22.1	18.1	17.5	65				
70				34.6	33.9	34.8	33.9	30.6	28.7	25.2	20.4	21.6	17.6	17.1	70				
75					31	32	30.7	28.4	27.1	24	19.5	20.9	17.1	16.8	75				
80					28.7	29.1	27.8	26.4	25.3	22.9	18.5	20.1	16.6	16.4	80				
85					27.2	26.6	25.3	24.6	23.3	21.7	17.7	19.2	16.1	15.9	85				
90					25.2	24.4	23.1	23.2	21.3	20.5	16.9	18.4	15.5	15.4	90				
95						22.4	21.4	21.7	19.9	19.2	16.1	17.6	14.9	14.8	95				
100						20.7	20.2	20	18.8	17.8	15.4	16.8	14.4	14.2	100				
105						19.2	19.4	18.5	17.4	16.3	14.8	16.1	13.9	13.7	105				
110							18.2	17	16.6	15.5	14.1	15.1	13.4	13	110				
115							16.9	15.7	15.6	14.8	13.4	14	12.9	12.4	115				
120							15.7	14.6	14.6	14	12.8	12.8	12.4	11.9	120				
125							14.7	13.6	13.4	12.9	12.1	11.6	11.9	11.2	125				
130								13	12.4	11.9	11.6	10.8	11	10.5	130				
135								12.4	11.5	11.1	11	9.8	10	9.7	135				
140									10.7	10.2	10.3	9	9.2	9	140				
145									10.1	9.4	9.6	8.3	8.5	8.3	145				
150									9.4	8.7	8.8	7.4	7.7	7.4	150				
155										8.1	8.1	6.7	7	6.7	155				
160										7.4	7.4	6.1	6.4	6.1	160				
165										6.7	6.7	5.4	5.8	5.6	165				
170										6	6	4.7	5.2	4.9	170				
175											5.5	4.2	4.5	4.3	175				
180											5	3.6	3.9	3.7	180				
185											4.3	3	3.4	3.2	185				
190													2.9	2.7	190				
195													2.4	2.2	195				

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Lifting capacities
Forces de levage

T

45 – 217 ft T 360° 45200 lbs 85%															ft	
ft	45 ft	61 ft	76 ft	92 ft	108 ft	124 ft	139 ft	156 ft	171 ft	187 ft	198 ft	203 ft	214 ft	217 ft	ft	
9	233.2	182.1	166												9	
10	230.5	182.1	165.7												10	
11	219	182.1	164.9	129.9											11	
12	208	182.1	163.7	129.6											12	
13	197.5	182.1	162.2	128.6											13	
14	188	180	160.3	127.8	103.8										14	
15	178.8	176.1	158.2	127	103.6										15	
16	170.5	167.5	155.7	126	102.7										16	
17	162.9	160.5	152.3	124.7	101.7										17	
18	155.7	154.5	148.1	123.2	100.7	79.3									18	
20	141.9	142.7	139.6	120.1	98.7	78.3									20	
22	130.1	131.6	130.4	116.9	96.5	77.2	61.6								22	
24	118.5	120.5	120.5	112.9	94.4	76.1	60.8								24	
26	107.2	109.2	110	108.4	92.2	74.9	59.9	46.3							26	
28	98	100	100.8	100.9	90.1	73.4	59	45.7							28	
30	89.6	91.6	92.5	93.3	87.6	72	58.1	45.1	37.4						30	
32	82.6	84.6	86.4	87	84.3	70.7	56.9	44.5	37.2	29.8					32	
34	76.4	78.8	80.7	81	79.1	69.2	55.6	44	37	29.7					34	
36		73.9	75.2	75.2	72.8	67.5	54.3	43.5	36.8	29.6	24.9				36	
38		69.1	70.6	70.6	67.8	63.1	53.2	42.8	36.6	29.4	24.8	24	18.7		38	
40		64.7	66.2	66.2	63.2	58.8	52	42.1	36.3	29.3	24.7	24	18.7	17.9	40	
45		54.8	56.1	56.3	53.4	49.8	47.9	40.6	35.4	28.9	24.3	23.8	18.7	18.1	45	
50			48.4	48.4	46	44.5	42.5	37.8	34.2	28.3	23.8	23.5	18.7	18.1	50	
55			41.9	42	40.3	40	37.2	34.6	32	27.7	23.2	23.1	18.7	18	55	
60			36.4	36.6	36.1	35.4	32.7	31.5	29.1	26.7	22.3	22.6	18.5	17.8	60	
65				32.1	33.2	31.6	29.5	28.8	26.6	24.3	21.3	22.1	18.1	17.5	65	
70				28.7	29.8	28.3	27.3	25.8	24.6	23	20.4	21.3	17.6	17.1	70	
75					26.6	25.4	25.1	23.2	22.5	21.4	19.5	19.6	17.1	16.8	75	
80					23.9	23	22.8	21.3	20.3	19.3	18.4	17.4	16.5	16.3	80	
85					21.5	21.5	20.6	19.9	18.6	17.3	17.1	15.5	15.7	15.5	85	
90					19.5	20	18.9	18.1	16.8	15.6	15.4	13.9	14.1	13.9	90	
95						18.2	17.2	16.5	15.3	14	13.9	12.4	12.6	12.4	95	
100						16.6	15.7	15	13.9	12.6	12.6	11	11.3	11	100	
105						15.2	14.3	13.7	12.6	11.2	11.2	9.7	10.1	9.7	105	
110							13.2	12.7	11.4	10.2	10.1	8.7	9	8.7	110	
115							12	11.5	10.3	9.2	9.1	7.7	7.9	7.7	115	
120							10.9	10.4	9.4	8.3	8.2	6.7	7	6.7	120	
125							9.9	9.4	8.5	7.4	7.2	5.9	6.1	5.9	125	
130								8.4	7.7	6.6	6.6	5.1	5.3	5.1	130	
135								7.7	6.9	5.9	5.8	4.3	4.6	4.3	135	
140									6	5.2	5.1	3.7	4	3.8	140	
145									5.2	4.5	4.5	3	3.4	3.2	145	
150									4.5	3.9	3.9	2.5	2.8	2.6	150	
155										3.2	3.3		2.2		155	
160										2.6	2.8				160	

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Lifting capacities
Forces de levage

T

 ft		45 – 217 ft				 ±60°		 45200 lbs		85%											
		45 ft	61 ft	76 ft	92 ft	108 ft	124 ft	139 ft	156 ft	171 ft	187 ft	198 ft	203 ft	214 ft	217 ft	 ft					
9		233.2	182.1	166													9				
10		230.6	182.1	165.7													10				
11		219.1	182.1	164.9	129.9												11				
12		208.3	182.1	163.7	129.6												12				
13		198.1	182.1	162.2	128.6												13				
14		189.1	180	160.3	127.8	103.8											14				
15		180.5	176.1	158.2	127	103.6											15				
16		172.7	167.5	155.7	126	102.7											16				
17		165.5	160.9	152.3	124.7	101.7											17				
18		158.6	155.6	148.1	123.2	100.7	79.3										18				
20		144.9	144.7	139.6	120.1	98.7	78.3										20				
22		131.2	132.8	130.4	116.9	96.5	77.2	61.6									22				
24		118.7	120.9	120.5	112.9	94.4	76.1	60.8									24				
26		107.2	109.3	110	108.4	92.2	74.9	59.9	46.3								26				
28		98	100	100.8	100.9	90.1	73.4	59	45.7								28				
30		89.6	91.6	92.5	93.3	87.7	72	58.1	45.1	37.4							30				
32		82.6	84.6	86.4	87	84.8	70.7	56.9	44.5	37.2	29.8						32				
34		76.4	78.8	80.7	81	80.2	69.2	55.6	44	37	29.7						34				
36			73.9	75.2	75.2	74.6	67.8	54.3	43.5	36.8	29.6	24.9					36				
38			69.1	70.6	70.6	69.9	65.8	53.2	42.8	36.6	29.4	24.8	24	18.7			38				
40			64.8	66.3	66.3	65.6	63.3	52.1	42.1	36.3	29.3	24.7	24	18.7	17.9		40				
45			55.7	57.1	57.1	56.4	55.1	49.4	40.6	35.4	28.9	24.3	23.8	18.7	18.1		45				
50				49.9	49.9	49.2	47.8	45.9	38.8	34.5	28.3	23.8	23.5	18.7	18.1		50				
55				43.9	44	43.2	42.5	41.5	36.5	33.1	27.7	23.2	23.1	18.7	18		55				
60				38.9	39.1	38.3	39	36.5	33.5	31.1	27	22.3	22.6	18.5	17.8		60				
65					34.9	34.2	35.3	32.5	30	28	26.3	21.3	22.1	18.1	17.5		65				
70					31.5	32	31.7	29	28.1	25.9	24.2	20.4	21.6	17.6	17.1		70				
75						29.7	28.6	26.3	25.9	23.9	22.2	19.5	20.9	17.1	16.8		75				
80						27.2	25.9	24.4	23.5	21.9	20.7	18.5	19.8	16.6	16.4		80				
85						24.8	23.5	23.2	21.3	20.6	19.5	17.7	17.8	16.1	15.9		85				
90						22.8	21.5	21.4	19.3	18.9	17.8	16.9	16.1	15.5	15.2		90				
95							19.8	19.7	18	17.4	16.3	15.8	14.5	14.5	14.3		95				
100							18.4	18	17.1	15.9	14.7	14.6	13	13.2	13		100				
105							17.4	16.5	15.9	14.6	13.2	13.2	11.7	11.9	11.7		105				
110								15.2	14.7	13.4	12.1	12.1	10.5	10.7	10.5		110				
115								13.8	13.5	12.2	11	11	9.5	9.7	9.5		115				
120								12.7	12.4	11.2	10	10	8.4	8.7	8.4		120				
125								11.8	11.4	10.3	9	9	7.4	7.7	7.4		125				
130									10.4	9.5	8.1	8.1	6.6	7	6.6		130				
135									9.5	8.5	7.4	7.3	5.9	6.2	5.9		135				
140										7.6	6.8	6.5	5.2	5.4	5.2		140				
145										7	6.1	5.9	4.5	4.8	4.5		145				
150										6.1	5.4	5.4	3.9	4.1	3.9		150				
155											4.7	4.7	3.3	3.6	3.3		155				
160											4.1	4.2	2.8	3.1	2.8		160				
165											3.4	3.6		2.6			165				
170											2.9	3		2			170				
175												2.4					175				

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Lifting capacities
Forces de levage

T

 45 – 217 ft																			
 ft	45 ft	61 ft	76 ft	92 ft	108 ft	124 ft	139 ft	156 ft	171 ft	187 ft	198 ft	203 ft	214 ft	217 ft	 ft				
9	232.8	182.1	166												9				
10	230.1	182.1	165.7												10				
11	218.2	182.1	164.9	129.9											11				
12	206.9	182.1	163.7	129.6											12				
13	196	182.1	162.2	128.6											13				
14	186.4	180	160.3	127.8	103.8										14				
15	177.2	176.1	158.2	127	103.6										15				
16	168.6	167.5	155.7	126	102.7										16				
17	160.8	160.1	152.3	124.7	101.7										17				
18	153.5	153.6	148.1	123.2	100.7	79.3									18				
20	139.1	140.6	139.3	120.1	98.7	78.3									20				
22	125.3	127.4	127.6	116.9	96.5	77.2	61.6								22				
24	113	115.3	116.1	111.3	94.4	76.1	60.8								24				
26	102.1	104.1	104.8	103.5	92.2	74.9	59.9	46.3							26				
28	93.2	95.2	96.7	96	87.8	73.4	59	45.7							28				
30	85.1	87.2	89.3	88.6	82.5	71.6	58.1	45.1	37.4						30				
32	78.3	81	82.9	80.8	75.2	68.3	56.9	44.5	37.2	29.8					32				
34	72.2	75.2	76.9	73.9	69	64	55.6	44	37	29.7					34				
36		69.7	71.2	67.7	63.5	58.9	54.3	43.5	36.8	29.6	24.9				36				
38		64.7	66.1	62.8	58.9	55.1	52.4	42.8	36.6	29.4	24.8	24	18.7		38				
40		60	61.4	58.4	54.7	51.7	50.2	41.9	36.3	29.3	24.7	24	18.7	17.9	40				
45		50.1	51.5	49.1	46.1	45.7	42.6	38.5	35.4	28.9	24.3	23.8	18.7	18.1	45				
50			44	42.1	41.3	39.8	37.3	34.9	32.7	28.2	23.8	23.5	18.7	18.1	50				
55			37.9	36.4	36.8	34.5	33.2	31.1	29.6	26.9	23.2	23.1	18.7	18	55				
60			32.8	32.2	32.2	30.3	29.8	27.6	26.6	24.9	22.3	22.3	18.5	17.8	60				
65				29.8	28.7	27.3	26.4	25.2	23.9	22.4	21.1	20.3	18.1	17.5	65				
70				26.6	25.6	25.1	23.7	22.7	21.4	19.8	19.3	18	17.2	16.7	70				
75					22.9	22.9	21.4	20.4	19.1	17.6	17.4	15.8	15.8	15.5	75				
80					20.7	20.7	19.3	18.3	17	15.6	15.5	13.9	14.1	13.9	80				
85					18.6	18.6	17.3	16.4	15.1	13.8	13.8	12.2	12.5	12.2	85				
90					16.8	16.9	15.8	14.7	13.6	12.3	12.3	10.7	10.9	10.7	90				
95						15.3	14.3	13.3	12.2	11	10.8	9.3	9.6	9.4	95				
100						13.7	12.9	12	10.9	9.8	9.6	8.1	8.5	8.2	100				
105						12.3	11.7	10.8	9.7	8.6	8.6	7.1	7.3	7.1	105				
110							10.5	9.8	8.7	7.6	7.6	6	6.3	6	110				
115							9.5	8.9	7.7	6.7	6.6	5.2	5.4	5.2	115				
120							8.4	8	6.8	5.9	5.7	4.3	4.6	4.4	120				
125							7.5	7	6.1	5	5	3.5	3.9	3.7	125				
130								6.2	5.3	4.4	4.4	2.8	3.3	3	130				
135								5.5	4.6	3.7	3.7		2.6	2.2	135				
140									3.9	3	3.1				140				
145									3.2						145				
150									2.7						150				

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Lifting capacities
Forces de levage

T

45 – 217 ft   ±60°   33100 lbs 85%															
 ft	45 ft	61 ft	76 ft	92 ft	108 ft	124 ft	139 ft	156 ft	171 ft	187 ft	198 ft	203 ft	214 ft	217 ft	 ft
9	232.8	182.1	166												9
10	230.1	182.1	165.7												10
11	218.5	182.1	164.9	129.9											11
12	207.7	182.1	163.7	129.6											12
13	197.5	182.1	162.2	128.6											13
14	188.3	180	160.3	127.8	103.8										14
15	179.5	176.1	158.2	127	103.6										15
16	171.5	167.5	155.7	126	102.7										16
17	163.7	160.3	152.3	124.7	101.7										17
18	156.2	153.9	148.1	123.2	100.7	79.3									18
20	141.1	141.2	139.3	120.1	98.7	78.3									20
22	125.9	127.6	127.6	116.9	96.5	77.2	61.6								22
24	113	115.3	116.1	111.3	94.4	76.1	60.8								24
26	102.1	104.1	104.8	103.7	92.2	74.9	59.9	46.3							26
28	93.2	95.2	96.7	96.7	89.9	73.4	59	45.7							28
30	85.1	87.2	89.3	89.9	86.9	72	58.1	45.1	37.4						30
32	78.3	81	82.9	83.2	81.7	70.7	56.9	44.5	37.2	29.8					32
34	72.4	75.4	77	77.1	76.4	68.4	55.6	44	37	29.7					34
36		70.1	71.5	71.5	71	65.6	54.3	43.5	36.8	29.6	24.9				36
38		65.7	67	67	66	61.1	53.2	42.8	36.6	29.4	24.8	24	18.7		38
40		61.5	62.8	62.8	61.4	57	51.9	42.1	36.3	29.3	24.7	24	18.7	17.9	40
45		52.8	54.1	54.1	51.8	48.9	47	40.3	35.4	28.9	24.3	23.8	18.7	18.1	45
50			47.3	47.1	44.4	43.7	41	36.9	33.5	28.3	23.8	23.5	18.7	18.1	50
55			41.6	41.3	39.3	38.9	35.6	33.7	31.1	27.4	23.2	23.1	18.7	18	55
60			36.7	36.2	35.9	34.1	31.3	30.9	28.4	26.1	22.3	22.6	18.5	17.8	60
65				31.8	32.2	30.2	29	27.3	26.1	24.1	21.3	22.1	18.1	17.5	65
70				28.7	29	27	26.6	24.5	23.7	22.2	20.4	20.3	17.6	17.1	70
75					26.1	24.4	24.2	22.5	21.5	20.2	19.3	18.2	16.9	16.6	75
80					23.7	22.6	21.7	20.9	19.4	18	17.8	16.1	15.9	15.7	80
85					21.3	21.3	19.5	18.9	17.5	16	16	14.2	14.4	14.2	85
90					19.3	19.6	17.8	17.2	15.8	14.5	14.3	12.7	12.9	12.7	90
95						17.9	16.5	15.6	14.3	12.9	12.8	11.3	11.5	11.3	95
100						16.2	15.2	14.1	12.9	11.5	11.5	10	10.2	10	100
105						14.6	13.9	12.8	11.7	10.4	10.4	8.8	9	8.8	105
110							12.5	11.8	10.5	9.4	9.2	7.8	8	7.8	110
115							11.3	10.8	9.5	8.3	8.2	6.8	7	6.8	115
120							10.2	9.8	8.5	7.4	7.4	5.9	6.1	5.9	120
125							9.2	8.8	7.7	6.6	6.6	5	5.3	5	125
130								7.9	7	5.9	5.7	4.4	4.6	4.4	130
135								7.1	6.2	5.1	5	3.7	3.9	3.7	135
140									5.4	4.4	4.4	3	3.2	3	140
145									4.8	3.9	3.9		2.6		145
150									4.1	3.2	3.2		2.1		150
155										2.7	2.7				155
160											2.2				160

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Lifting capacities
Forces de levage

T

45 – 217 ft T 360° 28200 lbs 85%															
ft	45 ft	61 ft	76 ft	92 ft	108 ft	124 ft	139 ft	156 ft	171 ft	187 ft	198 ft	203 ft	214 ft	217 ft	ft
9	232.5	182.1	166												9
10	229.8	182.1	165.7												10
11	217.7	182.1	164.9	129.9											11
12	206.2	182.1	163.7	129.6											12
13	195.4	182.1	162.2	128.6											13
14	185.8	180	160.3	127.8	103.8										14
15	176.5	176.1	158.2	127	103.6										15
16	167.8	167.5	155.7	126	102.7										16
17	159.8	159.9	152.2	124.7	101.7										17
18	152.5	153.1	148	123.2	100.7	79.3									18
20	137.7	139.3	138.8	120.1	98.7	78.3									20
22	123.2	125.4	125.8	116.7	96.5	77.2	61.6								22
24	110.6	112.9	113.8	110.7	94.1	76.1	60.8								24
26	99.9	101.9	102.8	102.2	91.4	74.9	59.9	46.3							26
28	91.2	93.2	95.1	92.9	84.8	73.2	59	45.7							28
30	83.3	85.5	87.8	84	77.8	70.6	58.1	45.1	37.4						30
32	76.6	79.6	80.5	76.3	71.1	65.2	56.9	44.5	37.2	29.8					32
34	70.3	73.6	73.8	69.7	65.1	60.3	55.4	44	37	29.7					34
36		67.5	67.3	63.8	59.8	55.8	53.7	43.5	36.8	29.6	24.9				36
38		62.5	62.3	59.1	55.4	53	50.4	42.7	36.6	29.4	24.8	24	18.7		38
40		57.9	57.7	54.9	51.7	50.3	47.2	41.6	36.2	29.3	24.7	24	18.7	17.9	40
45		48.1	48.3	46.2	45.5	43.2	39.9	37.8	34.5	28.9	24.3	23.8	18.7	18.1	45
50			41.3	39.3	39.5	37.2	35.6	33.5	31.3	27.7	23.8	23.5	18.7	18.1	50
55			35.7	34.6	34.4	32.5	31.8	29.8	28	25.8	23.2	22.9	18.7	18	55
60			31	31.5	30.2	29	28	26.8	25	23.5	22.1	21.5	18.4	17.8	60
65				28	26.7	26.4	24.7	23.7	22.2	20.6	20.3	18.7	17.9	17.5	65
70				24.9	23.7	23.7	22.2	21.2	19.8	18.2	18	16.4	16.4	15.9	70
75					21.4	21.3	19.9	18.8	17.5	16.1	15.9	14.3	14.5	14.2	75
80					19.3	19.2	17.8	16.8	15.5	14.1	14.1	12.4	12.6	12.4	80
85					17.3	17.3	16	15.1	13.8	12.5	12.5	10.9	11.1	10.9	85
90					15.5	15.6	14.5	13.6	12.3	11.1	10.9	9.4	9.8	9.5	90
95						14	13.1	12.2	11	9.7	9.6	8.1	8.5	8.2	95
100						12.6	11.8	10.9	9.8	8.5	8.5	7	7.4	7	100
105						11.2	10.6	9.7	8.6	7.5	7.5	6	6.2	6	105
110							9.4	8.7	7.6	6.5	6.5	4.9	5.3	5.1	110
115							8.3	7.8	6.7	5.6	5.6	4.1	4.5	4.3	115
120							7.4	7	5.9	4.8	4.8	3.3	3.7	3.4	120
125							6.6	6.1	5.2	4.1	4.1		3		125
130								5.3	4.4	3.5	3.5		2.2		130
135								4.6	3.7	2.8	2.8				135
140									3.1						140
145									2.6						145
150									1.9						150

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Lifting capacities
Forces de levage

T

45 – 217 ft T				±60° 		28200 lbs 		85%											
ft	45 ft	61 ft	76 ft	92 ft	108 ft	124 ft	139 ft	156 ft	171 ft	187 ft	198 ft	203 ft	214 ft	217 ft	ft				
9	232.5	182.1	166												9				
10	229.9	182.1	165.7												10				
11	218.2	182.1	164.9	129.9											11				
12	207.2	182.1	163.7	129.6											12				
13	197	182.1	162.2	128.6											13				
14	187.9	180	160.3	127.8	103.8										14				
15	179.1	176.1	158.2	127	103.6										15				
16	170.9	167.5	155.7	126	102.7										16				
17	162.7	159.9	152.2	124.7	101.7										17				
18	154.5	153.1	148	123.2	100.7	79.3									18				
20	138.3	139.3	138.8	120.1	98.7	78.3									20				
22	123.4	125.4	125.8	116.7	96.5	77.2	61.6								22				
24	110.6	112.9	113.8	110.9	94.4	76.1	60.8								24				
26	99.9	101.9	102.8	102.9	92.2	74.9	59.9	46.3							26				
28	91.2	93.2	95.1	95.4	89.7	73.4	59	45.7							28				
30	83.3	85.5	88	88.1	86.2	71.9	58.1	45.1	37.4						30				
32	76.7	79.6	81.4	81.4	79.4	70	56.9	44.5	37.2	29.8					32				
34	70.9	74	75.5	75.5	73.1	66.5	55.6	44	37	29.7					34				
36		68.8	70.1	70.1	67.1	61.9	54.3	43.5	36.8	29.6	24.9				36				
38		64.3	65.7	65.7	62.2	57.5	53	42.8	36.6	29.4	24.8	24	18.7		38				
40		60.2	61.5	61.4	57.7	53.7	51.2	42	36.3	29.3	24.7	24	18.7	17.9	40				
45		51.6	53	52	48.7	47.8	44.5	39.7	35.4	28.9	24.3	23.8	18.7	18.1	45				
50			46.2	44.7	43	41.8	38.4	36.1	33.1	28.3	23.8	23.5	18.7	18.1	50				
55			40.5	38.7	38.4	36.4	33.7	32.3	30.2	27	23.2	23.1	18.7	18	55				
60			35.5	33.9	34.1	31.9	30.4	28.7	27.1	25	22.3	22.5	18.5	17.8	60				
65				30.2	30.2	28.2	27.9	25.5	24.8	23.2	21.3	21.1	18.1	17.5	65				
70				28	27.1	25.7	25.1	23.5	22.3	20.7	20	18.7	17.3	17	70				
75					24.4	23.7	22.4	21.5	19.9	18.5	18.3	16.5	16.2	16	75				
80					21.9	21.8	20.1	19.3	17.8	16.5	16.3	14.6	14.8	14.6	80				
85					19.8	19.7	18.4	17.3	16	14.7	14.4	12.9	13.1	12.9	85				
90					17.9	18	16.7	15.6	14.5	13.1	12.9	11.4	11.6	11.4	90				
95						16.5	15.3	14.2	12.9	11.7	11.5	10	10.3	10	95				
100						15	13.9	12.9	11.5	10.4	10.2	8.7	9.1	8.7	100				
105						13.4	12.6	11.7	10.4	9.3	9	7.7	7.9	7.7	105				
110							11.4	10.7	9.4	8.3	8	6.7	6.9	6.7	110				
115							10.3	9.7	8.3	7.2	7.1	5.7	6	5.8	115				
120							9.3	8.7	7.5	6.4	6.3	4.8	5.2	5	120				
125							8.3	7.9	6.8	5.7	5.5	4.1	4.4	4.1	125				
130								7	5.9	4.8	4.8	3.3	3.7	3.5	130				
135								6.2	5.2	4.1	4.1	2.6	3	2.8	135				
140									4.6	3.5	3.5				140				
145									3.9	3	3				145				
150									3.2	2.5	2.5				150				

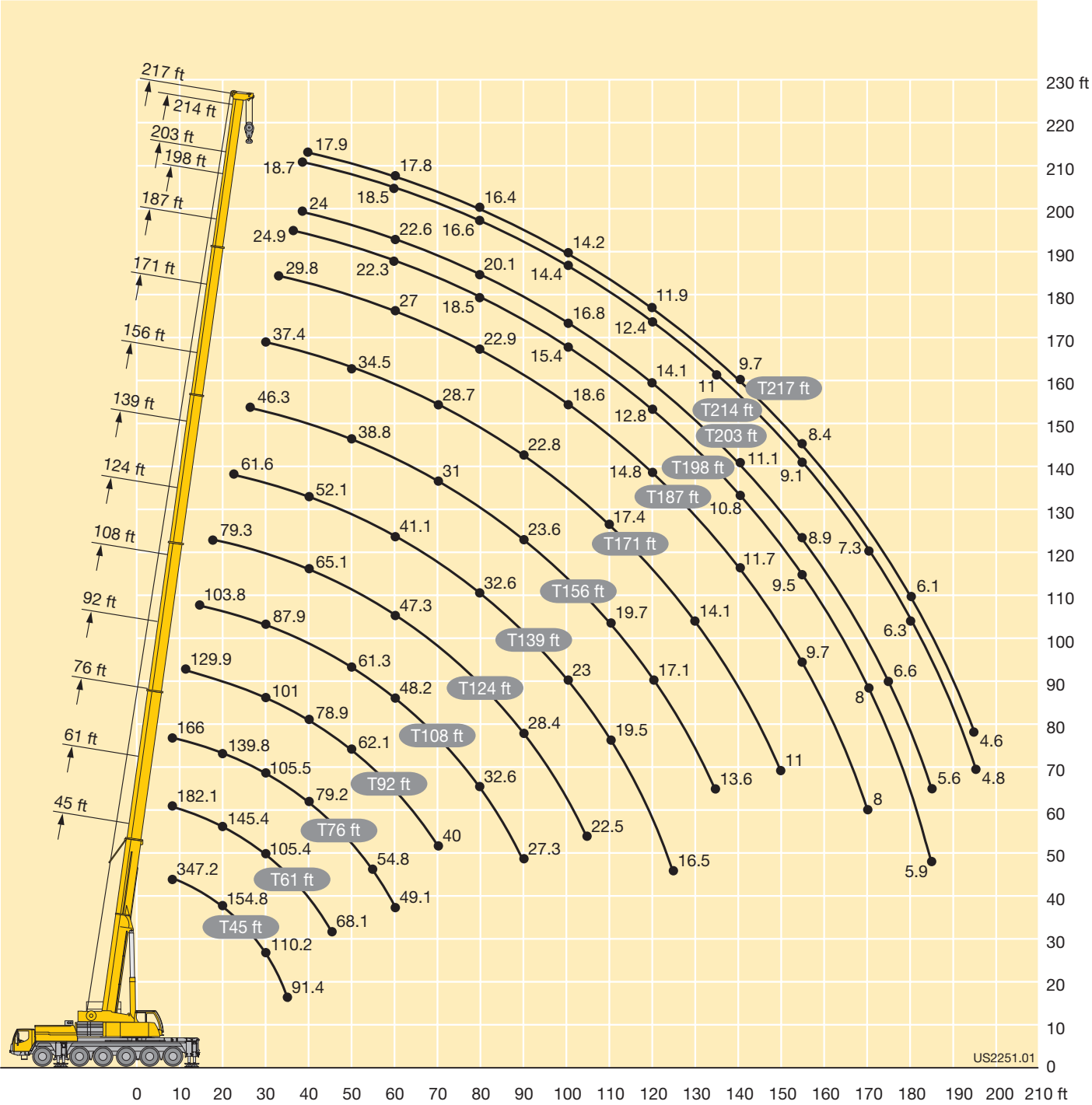
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Lifting heights
Hauteurs de levage

T





Lifting capacities
Forces de levage

TK/TNZK

		 45 – 217 ft			 35 ft						 360°			 103200 lbs			 85%					
 ft	45 ft			108 ft			124 ft			139 ft			156 ft			171 ft			 ft			
	35 ft			35 ft			35 ft			35 ft			35 ft			35 ft						
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°				
9	38.6																		9			
10	38.6																		10			
11	38.6																		11			
12	38.6																		12			
13	38.6																		13			
14	38.5																		14			
15	38.2																		15			
16	37.7	32.1																	16			
17	37.1	31.6																	17			
18	36.4	31		38.6			38.1												18			
20	35.1	29.8		38.6			38.1												20			
22	34	28.7		38.6			37.8												22			
24	33	27.7		38.6			37.5												24			
26	31.9	26.6	22.8	38.6			37.1			32.4									26			
28	30.7	25.8	22.2	38.6	31.3		36.8			32.3			27.4						28			
30	29.5	24.9	21.7	38.5	30.7		36.5			32.1			27.3						30			
32	28.3	24.1	21.2	38.3	30		36.1	29.7		31.9			27.2			22.3			32			
34	27.1	23.4	20.7	37.7	29.4		35.6	29.2		31.6			27			22.2			34			
36	25.9	22.7	20.3	36.9	28.9		35.1	28.7		31.3	27.6		26.9			22.1			36			
38	24.5	22.1	19.8	36.2	28.2	22.7	34.5	28.2		30.9	27		26.6			22.1			38			
40	23.3	21.5	19.3	35.5	27.6	22.4	34	27.6		30.5	26.6		26.4			22			40			
45	20.9	20.3	18.5	33.8	26.3	21.5	32.5	26.5	21.5	29.7	25.5	21.2	26.1	23.9		21.9			45			
50	18.7	19.2	17.9	32.3	25.2	20.8	31.2	25.3	21	28.9	24.7	20.6	25.5	23.3	20	21.6	21		50			
55	16.9	18.3	17.5	30.7	24.2	20.3	30.1	24.3	20.4	28	23.8	20	24.9	22.6	19.6	21.3	20.6	18.4	55			
60	15.4	17.5	16.7	29	23.2	19.8	29.1	23.4	19.8	27.2	23	19.6	24.4	22	19.1	21.1	20.2	18.2	60			
65	14.3			27.3	22.2	19.2	27.9	22.6	19.4	26.3	22.4	19.2	23.9	21.5	18.8	20.8	19.7	17.9	65			
70				25.6	21.5	18.9	26.6	21.8	19	25.7	21.7	18.9	23.4	20.8	18.4	20.4	19.3	17.6	70			
75				24	20.8	18.5	25.3	21.1	18.6	24.8	21	18.6	22.9	20.2	18.1	19.9	19	17.3	75			
80				22.4	20.1	18	23.9	20.6	18.2	23.8	20.4	18.2	22.3	19.8	17.8	19.2	18.6	17.1	80			
85				21	19.4	17.7	22.6	19.9	17.9	23	19.9	17.9	21.7	19.4	17.4	18.6	17.9	16.8	85			
90				19.8	18.9	17.5	21.4	19.4	17.7	22	19.4	17.5	20.8	18.9	17.3	17.9	17.4	16.4	90			
95				18.7	18.5	17.3	20.3	18.9	17.4	21.1	19	17.3	19.9	18.3	17	17.1	16.8	16.1	95			
100				17.6	18.1	17.2	19.3	18.4	17.2	20.2	18.6	17.1	18.8	17.7	16.7	16.3	16.2	15.8	100			
105				16.8	17.6	17.2	18.3	18.1	17.2	19.2	18.1	17	17.6	17	16.3	15.7	15.7	15.4	105			
110				15.9	17.3	17.2	17.5	17.7	17	17.8	17.6	16.6	16.6	16.5	16	14.8	14.8	14.9	110			
115				15.1	17	15.1	16.6	17.3	16.9	16.7	16.8	16.3	15.6	15.9	15.6	14.1	14.1	14.3	115			
120				14.4	16.7	11.1	15.8	16.6	16.5	15.7	15.9	15.8	14.5	15.1	15.2	13.4	13.4	13.6	120			
125				13.8	16.5	5.6	14.9	15.6	15.7	14.5	14.9	14.9	13.2	14	14.5	12.5	12.7	13	125			
130							13.9	14.4	12.8	13.3	13.9	14.1	12.3	12.9	13.3	11.9	12.1	12.3	130			
135							12.9	13.2	8.8	12.3	12.8	13	11.6	11.8	12.1	10.9	11.4	11.6	135			
140							12			11.2	11.7	11.8	10.9	11	11.2	10	10.7	10.9	140			
145							10.8			10.3	10.7	10.2	10.1	10.5	10.7	9.2	9.8	10	145			
150										9.6	9.9	7.4	9.4	9.8	10	8.9	9	9.2	150			
155										8.9	9		8.7	9	9.2	8.4	8.5	8.6	155			
160													8	8.3	8.1	8	8.2	8.2	160			
165													7.4	7.8	6.7	7.6	7.8	7.9	165			
170													6.9	7.1	4.7	7.1	7.3	7.5	170			
175																6.6	6.8	6.9	175			
180																6.1	6.3	5.9	180			
185																5.7	5.8	4.6	185			
190																5.3	5.3		190			

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Lifting capacities
Forces de levage

TK/TNZK

45 – 217 ft T 35 ft K NZK 360° 103200 lbs 85%																
ft	187 ft			198 ft			203 ft			214 ft			217 ft			ft
	35 ft			35 ft			35 ft			35 ft			35 ft			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
36	16.8															36
38	16.8			13.5												38
40	16.8			13.5												40
45	16.8			13.5			13.5			11.5			11			45
50	16.8	17.1		13.5			13.5			11.5			11			50
55	16.7	17		13.5	13.2		13.5	13.4		11.5	11.2		11	10.8		55
60	16.5	16.9		13.4	13.2		13.4	13.2		11.5	11.2		11	10.8		60
65	16.5	16.8	16.3	13.1	13	12.6	13.3	13.2	13.2	11.5	11		11	10.8		65
70	16.4	16.5	16.2	12.9	12.9	12.6	13.1	13.1	13.1	11.3	11	11	10.9	10.7	10.6	70
75	16.2	16.1	15.9	12.7	12.6	12.6	13	12.9	13	11.2	11	11	10.8	10.6	10.6	75
80	16	15.8	15.5	12.5	12.3	12.4	13	12.7	13	11	10.9	11	10.8	10.5	10.6	80
85	15.5	15.2	15	12.2	11.9	11.9	12.8	12.4	12.8	10.8	10.6	11	10.6	10.4	10.8	85
90	14.8	14.6	14.5	11.7	11.4	11.4	12.5	12.2	12.3	10.6	10.4	10.9	10.4	10.2	10.6	90
95	14.2	14	14	11.2	11	11	12	11.9	11.9	10.4	10.3	10.6	10.2	10	10.4	95
100	13.7	13.5	13.5	10.6	10.6	10.7	11.5	11.5	11.5	10	10	10.3	9.9	9.9	10	100
105	13	13	13	10.1	10.1	10.4	11	11	11	9.7	9.7	9.9	9.7	9.7	9.7	105
110	12.5	12.3	12.5	9.8	9.8	9.9	10.7	10.7	10.7	9.4	9.5	9.6	9.4	9.4	9.5	110
115	12	11.9	12	9.5	9.5	9.5	10.4	10.2	10.4	9	9.3	9.3	9	9	9.3	115
120	11.5	11.5	11.5	9.1	9.1	9.1	10	9.8	10	8.8	8.9	8.9	8.7	8.8	8.9	120
125	11	11	11	8.8	8.8	8.8	9.7	9.5	9.7	8.6	8.6	8.6	8.4	8.6	8.6	125
130	10.5	10.5	10.7	8.5	8.5	8.5	9.3	9.1	9.3	8.2	8.2	8.4	8	8.2	8.4	130
135	10	10.1	10.2	8.1	8.1	8.3	9	8.9	9	7.9	8	8.1	7.8	7.9	8.1	135
140	9.5	9.7	9.8	7.8	7.8	8	8.7	8.7	8.7	7.6	7.8	7.9	7.6	7.6	7.8	140
145	9	9.2	9.4	7.5	7.5	7.7	8.3	8.3	8.4	7.5	7.5	7.7	7.2	7.3	7.5	145
150	8.7	8.9	9.1	7.1	7.1	7.3	8	8	8.2	7.1	7.3	7.3	6.9	7.1	7.1	150
155	8.1	8.4	8.6	6.9	6.9	7	7.7	7.8	7.9	6.9	7	7.1	6.6	6.8	6.9	155
160	7.5	7.9	8.1	6.7	6.7	6.8	7.4	7.6	7.6	6.7	6.8	6.9	6.2	6.4	6.7	160
165	7	7.4	7.6	6.4	6.4	6.6	7.2	7.2	7.2	6.4	6.6	6.6	5.9	6.1	6.3	165
170	6.9	6.9	6.9	6.2	6.2	6.4	6.7	6.9	7.1	6.2	6.2	6.4	5.8	6	6	170
175	6.5	6.7	6.7	5.9	6	6.1	6.2	6.4	6.6	5.9	6	6.3	5.4	5.7	5.8	175
180	6.3	6.4	6.4	5.6	5.8	5.9	5.6	5.9	6.1	5.5	5.8	6	5.1	5.3	5.5	180
185	6	6.1	6.1	5.5	5.5	5.7	4.9	5.4	5.6	4.9	5.4	5.6	4.8	5	5.2	185
190	5.5	5.8	5.8	5.3	5.3	5.5	4.4	4.9	5.1	4.4	4.9	5.1	4.4	4.7	4.9	190
195	5	5.3	5.1	5	5.1	5.2	3.9	4.4	4.4	4.1	4.4	4.6	3.9	4.3	4.4	195
200	4.6	4.8		4.5	4.8	4.9	3.5	3.9	3.9	3.7	3.9	4.1	3.4	3.9	3.9	200
205				4.1	4.3	4.5	3.2	3.4	3.4	3.2	3.4	3.6	3	3.4	3.4	205
210				3.8	4	4	2.6	2.9	2.9	2.6	3.1	3.1	2.6	2.9	2.9	210
215				3.4	3.5		2.3	2.5	2.4	2.3	2.6	2.6	2.1	2.4	2.5	215
220											2.2	2.2			2.1	220

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Lifting capacities
Forces de levage

TK/TNZK

		 45 – 217 ft T			 62 ft K NZK						 360°			 103200 lbs			 85%														
 ft	45 ft			92 ft			108 ft			124 ft			139 ft			156 ft			171 ft			 ft									
	62 ft			62 ft			62 ft			62 ft			62 ft			62 ft			62 ft												
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°										
10	14.1																					10									
11	14.1																					11									
12	14																					12									
13	13.9																					13									
14	13.9																					14									
15	13.9																					15									
16	13.7																					16									
17	13.6																					17									
18	13.5				14.1																	18									
20	13.2				14.1																	20									
22	12.9				14			13.1														22									
24	12.7				13.8			12.9														24									
26	12.4				13.7			12.8			12.4											26									
28	12.1				13.6			12.8			12.2			11.5								28									
30	11.9				13.4			12.8			12.1			11.4								30									
32	11.7	10.3			13.3			12.6			12.1			11.3			10.8					32									
34	11.5	10			13.1			12.5			12.1			11.2			10.7					34									
36	11.3	9.7			12.8			12.4			11.9			11.2			10.6			10.6		36									
38	11	9.6			12.7			12.2			11.8			11.1			10.6			10.5		38									
40	10.7	9.4			12.5			12.1			11.6			11			10.6			10.3		40									
45	10.2	9.1			12	9.8		11.6	9.7		11.3			10.8			10.4			10.2		45									
50	9.7	8.8			11.6	9.6		11.2	9.4		11	9.4		10.5			10.2			10		50									
55	9.2	8.4	7.9		11.2	9.3		10.9	9.2		10.7	9.2		10.3	9.1		10.1	9		9.8	8.8	55									
60	8.8	8.1	7.7		10.7	9	7.9	10.5	9		10.5	9		10.1	8.8		9.9	8.8		9.7	8.8	60									
65	8.4	8	7.5		10.4	8.8	7.9	10.2	8.8	7.7	10.2	8.8	7.7	9.9	8.6		9.5	8.6		9.5	8.6	65									
70	7.9	7.8	7.5		10.1	8.7	7.8	10	8.7	7.7	10	8.7	7.7	9.6	8.6	7.7	9.3	8.5		9.3	8.5	70									
75	7.5	7.6	7.5		9.7	8.5	7.7	9.7	8.5	7.6	9.7	8.5	7.6	9.4	8.5	7.6	9.2	8.4	7.6	9.2	8.4	7.6	75								
80	7.2	7.5	7.5		9.4	8.3	7.7	9.4	8.3	7.5	9.4	8.3	7.5	9.2	8.3	7.5	9	8.3	7.5	9	8.3	7.5	80								
85	6.6	7.5	7.5		9.1	8.2	7.5	9.3	8.2	7.5	9.3	8.2	7.5	9.1	8.2	7.5	8.8	8.2	7.5	8.8	8.2	7.5	85								
90	6.3	7.5			8.7	8	7.5	8.9	8	7.5	9.1	8	7.5	8.9	8	7.5	8.8	8	7.5	8.8	8	7.5	90								
95					8.4	7.8	7.5	8.7	7.9	7.5	8.9	7.9	7.4	8.7	7.9	7.4	8.7	7.9	7.4	8.7	7.9	7.4	95								
100					8.1	7.7	7.5	8.5	7.9	7.4	8.7	7.9	7.3	8.5	7.9	7.3	8.5	7.9	7.3	8.5	7.9	7.3	100								
105					7.9	7.7	7.5	8.2	7.7	7.3	8.4	7.7	7.3	8.4	7.7	7.3	8.4	7.7	7.3	8.4	7.7	7.3	105								
110					7.6	7.6	7.5	8	7.7	7.3	8.2	7.7	7.3	8.4	7.7	7.3	8.2	7.7	7.3	8.4	7.7	7.3	110								
115					7.3	7.5	7.5	7.7	7.6	7.3	8	7.6	7.3	8.3	7.6	7.3	8.2	7.6	7.3	8.3	7.6	7.3	115								
120					7	7.5	7.5	7.4	7.5	7.3	7.9	7.5	7.3	8.1	7.5	7.3	8.1	7.5	7.3	8.1	7.5	7.3	120								
125					6.8	7.5	7.5	7.3	7.5	7.3	7.7	7.5	7.3	7.9	7.5	7.3	7.9	7.5	7.3	7.9	7.5	7.3	125								
130					6.5	7.5	7.5	6.9	7.3	7.3	7.4	7.5	7.3	7.6	7.5	7.3	7.8	7.5	7.3	7.9	7.5	7.3	130								
135					6.3	7.5		6.7	7.2	7.2	7.2	7.5	7.3	7.4	7.2	7.3	7.6	7.4	7.3	7.8	7.4	7.3	135								
140								6.5	6.9	7	7	7.4	7.3	7.1	7	7.2	7.4	7.3	7.3	7.7	7.3	7.3	140								
145								6.4	6.6	6.7	6.8	7.3	7.3	6.8	6.8	7	7.2	7.3	7.3	7.7	7.3	7.3	145								
150								6.2	6.4		6.6	7.1	7.1	6.5	6.6	6.9	6.9	7.1	7.1	7.5	7.3	7.3	150								
155											6.5	6.8	6.9	6.3	6.3	6.6	6.7	6.8	6.9	7.4	7.1	7.3	155								
160											6.3	6.5		6	6.1	6.3	6.5	6.5	6.8	7.1	7	7.2	160								
165											6.1	6.4		5.7	5.9	6.1	6.3	6.4	6.6	6.8	6.8	7	165								
170											6			5.5	5.8	5.8	6	6.2	6.2	6.6	6.6	6.9	170								
175														5.4	5.4	5.6	5.8	5.9	6	6.5	6.5	6.7	175								
180														5.2	5.2		5.6	5.6	5.9	6.3	6.3	6.5	180								
185														5	5		5.5	5.5	5.7	6.1	6.1	6.4	185								
190																	5.3	5.3	5.5	5.8	6	6.2	190								
195																	5.1	5.1		5.4	5.6	5.9	195								
200																	5			5	5.3	5.4	200								
205																				4.5	4.9	4.9	205								
210																				4.2	4.4	4.4	210								
215																				4	4.1		215								

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Lifting capacities
Forces de levage

TK/TNZK

		45 – 217 ft			62 ft			103200 lbs			85%							
		T			K			NZK			360°							
		187 ft			198 ft			203 ft			214 ft			217 ft				
		62 ft			62 ft			62 ft			62 ft			62 ft				
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
ft	ft	45	9.5		8.2			8.2						7.3			45	
50		9.3			8.2			8.2			7.4			7.3			50	
55		9.2			8.2			8.2			7.3			7.3			55	
60		9			8.1			8.1			7.3			7.2			60	
65		9	8.4		8			8			7.3			7.1			65	
70		8.9	8.2		7.9	7.6		7.9	7.6		7.3			7.1			70	
75		8.7	8.1		7.8	7.5		7.9	7.5		7.3	7.1		7.1	6.8		75	
80		8.6	7.9		7.7	7.5		7.9	7.5		7.2	7.1		7.1	6.8		80	
85		8.6	7.9	7.3	7.7	7.5		7.7	7.5		7.1	7.1		7.1	6.8		85	
90		8.4	7.8	7.3	7.7	7.3	7.1	7.7	7.3	7.1	7.1	7.1		6.9	6.8		90	
95		8.3	7.7	7.3	7.6	7.3	7.1	7.6	7.3	7.1	7.1	7	6.8	6.8	6.8	6.8	95	
100		8.2	7.7	7.3	7.5	7.3	7.1	7.5	7.3	7.1	7.1	6.8	6.8	6.8	6.8	6.8	100	
105		8.2	7.5	7.3	7.5	7.3	7.1	7.5	7.3	7.1	7.1	6.8	6.8	6.8	6.8	6.8	105	
110		8	7.5	7.3	7.5	7.3	7.1	7.5	7.3	7.1	6.9	6.8	6.8	6.7	6.8	6.8	110	
115		7.9	7.5	7.3	7.4	7.2	7.1	7.4	7.2	7.1	6.8	6.8	6.8	6.6	6.8	6.8	115	
120		7.9	7.4	7.3	7.3	7.1	7.1	7.3	7.1	7.1	6.8	6.8	6.8	6.6	6.8	6.8	120	
125		7.7	7.3	7.3	7.3	7.1	7.1	7.3	7.1	7.1	6.8	6.8	6.8	6.6	6.6	6.8	125	
130		7.7	7.3	7.3	7.1	7.1	7.1	7.3	7.1	7.1	6.7	6.7	6.8	6.4	6.6	6.8	130	
135		7.6	7.3	7.2	6.9	6.9	6.9	7.2	7.1	7.1	6.6	6.5	6.8	6.4	6.5	6.8	135	
140		7.5	7.3	7.1	6.8	6.8	6.8	7	7.1	7.1	6.5	6.4	6.8	6.3	6.4	6.8	140	
145		7.5	7.3	7.1	6.6	6.6	6.8	6.8	7	7.1	6.4	6.4	6.6	6.2	6.4	6.6	145	
150		7.3	7.1	7.1	6.2	6.4	6.6	6.6	6.9	7.1	6.2	6.2	6.4	6	6.2	6.4	150	
155		7.3	7.1	7.1	6	6.3	6.5	6.5	6.7	6.9	6	6	6.3	5.8	6	6.3	155	
160		7.2	7.1	7.1	5.9	6.1	6.2	6.3	6.5	6.8	5.9	5.9	6.1	5.7	5.9	6.1	160	
165		7	7	7.1	5.7	5.9	5.9	6.1	6.4	6.6	5.7	5.7	5.9	5.5	5.7	5.9	165	
170		6.9	6.9	7.1	5.3	5.6	5.8	6	6.2	6.4	5.5	5.5	5.8	5.3	5.5	5.8	170	
175		6.4	6.7	6.9	5.1	5.4	5.6	5.8	6	6.3	5.4	5.4	5.6	5	5.4	5.6	175	
180		5.9	6.4	6.6	5	5.2	5.4	5.6	5.9	6.1	5.2	5.2	5.4	4.8	5.2	5.3	180	
185		5.5	6	6.3	4.8	5	5.3	5.4	5.7	5.9	5	5	5.3	4.6	5	5	185	
190		5.3	5.5	6	4.6	4.9	5.1	5.1	5.5	5.7	4.7	4.9	5.1	4.4	4.7	4.9	190	
195		5.1	5.2	5.5	4.5	4.7	4.8	4.6	5.2	5.4	4.5	4.7	4.9	4.1	4.5	4.7	195	
200		5	5	5.2	4.3	4.5	4.5	4.2	4.9	5.1	4.1	4.5	4.7	3.8	4.3	4.5	200	
205		4.7	4.8	5	4.1	4.4	4.4	3.8	4.5	4.7	3.6	4.3	4.6	3.4	4.1	4.3	205	
210		4.4	4.6	4.6	4	4.2	4.2	3.3	4	4.2	3.3	4	4.4	3.1	3.8	4	210	
215		3.9	4.3	4.5	3.8	4	4	3	3.5	3.7	2.8	3.5	3.9	2.8	3.4	3.6	215	
220		3.5	4	4.1	3.5	3.9	3.9	2.6	3.1	3.2	2.4	3.1	3.4	2.4	3	3.2	220	
225		3.2	3.6		3.2	3.6	3.6	2.2	2.7	2.7	2.1	2.7	2.9		2.5	2.7	225	
230		2.8	3.1		2.8	3.1	3.1		2.2			2.4	2.4			2.4	230	
235					2.5	2.7	2.7		1.9			1.9	2.1			1.9	235	
240					2.2	2.4											240	

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TK/TNZK

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Lifting capacities
Forces de levage

TK/TNZK

		45 – 217 ft			35 ft			360°			28200 lbs			85%				
		T			K			NZK										
		187 ft			198 ft			203 ft			214 ft			217 ft				
		35 ft			35 ft			35 ft			35 ft			35 ft				
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
36	ft	16.9															36	ft
38		16.9															38	
40		16.8			13.5			13.5						11.1			40	
45		16.8			13.5			13.5			11.5			11.1			45	
50		16.8			13.5			13.5			11.5			11.1			50	
55		16.7	17		13.5	13.2		13.5	13.4		11.5			11.1			55	
60		16.6	17		13.4	13.1		13.4	13.3		11.5	11.1		11.1	10.7		60	
65		16.5	16.9	16.4	13.1	13.1	12.7	13.3	13.2		11.5	11.1		11.1	10.7		65	
70		15	16.4	16.3	12.9	13	12.6	13.2	13.1	13.1	11.3	11.1	11	11	10.7	10.6	70	
75		14.4	14.7	16	12.6	12.7	12.5	13	12.9	13.1	11.1	11.1	11.1	10.8	10.6	10.6	75	
80		13.1	13.9	14.3	12.4	12.3	12.4	11.4	12.6	13	10.7	10.9	11.1	10.6	10.5	10.7	80	
85		11.5	12.8	13.4	11.2	11.8	11.9	9.9	11.4	12.6	9.6	10.6	11.1	9.3	10.4	10.7	85	
90		10.1	11.4	12.4	9.9	11.1	11.5	8.5	9.9	11.1	8.3	9.8	10.7	8.1	9.5	10.4	90	
95		8.8	10.1	11.1	8.6	9.9	10.7	7.3	8.6	9.8	7.1	8.5	9.6	6.9	8.3	9.4	95	
100		7.7	8.8	9.8	7.5	8.7	9.6	6.2	7.4	8.5	6	7.3	8.4	5.8	7.1	8.1	100	
105		6.7	7.7	8.6	6.5	7.6	8.4	5.1	6.3	7.3	5.1	6.2	7.2	4.8	6	7	105	
110		5.7	6.7	7.5	5.5	6.6	7.4	4.2	5.4	6.2	4.1	5.3	6.1	3.9	5.1	6	110	
115		4.9	5.8	6.6	4.7	5.7	6.4	3.4	4.5	5.3	3.3	4.4	5.2	3.1	4.2	5	115	
120		4.1	5	5.7	3.9	4.8	5.5	2.6	3.6	4.4	2.5	3.5	4.3	2.2	3.3	4.1	120	
125		3.4	4.2	4.8	3.2	4.1	4.7		2.9	3.6		2.8	3.5		2.5	3.3	125	
130		2.7	3.5	4	2.6	3.4	4		2.1	2.8		1.9	2.8			2.5	130	
135		2	2.8	3.3	1.8	2.7	3.3			2			2				135	
140			2.1	2.7		2	2.6										140	
145			1.9			1.9											145	

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Lifting capacities
Forces de levage

TK/TNZK

		 45 – 217 ft T			 62 ft K NZK						 360°			 28200 lbs			 85%														
 ft	45 ft			92 ft			108 ft			124 ft			139 ft			156 ft			171 ft			 ft									
	62 ft			62 ft			62 ft			62 ft			62 ft			62 ft			62 ft												
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°										
10	14.2																					10									
11	14.1																					11									
12	14																					12									
13	13.9																					13									
14	13.8																					14									
15	13.8																					15									
16	13.7																					16									
17	13.6																					17									
18	13.5																					18									
19	13.4				14.1																	19									
20	13.3				14																	20									
22	13				13.9			13.1														22									
24	12.7				13.8			13														24									
26	12.5				13.7			12.9			12.4											26									
28	12.2				13.6			12.8			12.3											28									
30	11.9				13.4			12.7			12.2			11.4								30									
32	11.7	10.2			13.2			12.6			12.1			11.3			10.8					32									
34	11.4	10			13			12.4			12			11.2			10.7					34									
36	11.2	9.8			12.9			12.3			11.9			11.1			10.6			10.5		36									
38	10.9	9.6			12.7			12.2			11.8			11.1			10.6			10.5		38									
40	10.7	9.4			12.5			12			11.7			11			10.5			10.4		40									
45	10.2	9			12	9.9		11.6	9.7		11.3			10.8			10.4			10.2		45									
50	9.7	8.7	8		11.6	9.5		11.3	9.5		11.1	9.4		10.5			10.2			10.1		50									
55	9.2	8.4	7.8		11.2	9.3		10.9	9.2		10.8	9.2		10.3	9.1		10			9.9		55									
60	8.8	8.2	7.7		10.7	9	8	10.6	9		10.5	9		10.1	8.9		9.8	8.8		9.8	8.8	60									
65	8.4	8	7.5		10.4	8.8	7.9	10.3	8.8	7.8	10.2	8.8	7.8	9.8	8.7		9.6	8.6		9.6	8.7	65									
70	7.9	7.8	7.5		10	8.6	7.8	10	8.6	7.7	9.9	8.6	7.7	9.7	8.5	7.7	9.4	8.5		9.4	8.5	70									
75	7.5	7.7	7.4		9.7	8.4	7.7	9.7	8.5	7.7	9.7	8.5	7.6	9.5	8.4	7.6	9.2	8.4	7.6	9.2	8.4	7.6	75								
80	7.1	7.6	7.4		9.4	8.3	7.6	9.4	8.3	7.6	9.4	8.3	7.6	9.3	8.3	7.6	9.1	8.2	7.5	9.1	8.3	7.5	80								
85	6.7	7.5	7.4		9.1	8.1	7.5	9.2	8.2	7.5	9.2	8.2	7.5	9.1	8.1	7.5	8.9	8.1	7.5	8.9	8.2	7.5	85								
90	6.4	7.5	7.4		8.8	8	7.5	9	8	7.5	9	8	7.5	8.9	8	7.4	8.8	8	7.4	8.8	8.1	7.4	90								
95	6.1	7.5			8.5	7.9	7.4	8.7	7.9	7.4	8.9	7.9	7.4	8.7	7.9	7.4	8.6	7.9	7.4	8.7	8	7.4	95								
100					8.2	7.8	7.4	8.5	7.8	7.4	8.7	7.9	7.4	8.6	7.8	7.4	8.5	7.8	7.3	8.3	7.9	7.3	100								
105					7.9	7.7	7.4	8.2	7.7	7.4	8.5	7.8	7.4	8.5	7.7	7.3	8.4	7.7	7.3	8	7.8	7.3	105								
110					7.6	7.6	7.4	8	7.6	7.4	8.3	7.7	7.4	8.3	7.7	7.3	8.2	7.6	7.3	7.4	7.6	7.3	110								
115					7.3	7.5	7.4	7.7	7.6	7.4	8.1	7.6	7.4	8.2	7.6	7.3	7.8	7.6	7.3	6.5	7.5	7.3	115								
120					7	7.5	7.4	7.4	7.5	7.4	7.8	7.5	7.4	7.8	7.6	7.3	7	7.5	7.3	5.8	7.3	7.2	120								
125					6.8	7.5	7.4	7.2	7.5	7.4	7.6	7.5	7.4	7.2	7.5	7.3	6.3	7.4	7.3	5	6.5	7.1	125								
130					6.5	7.5	7.4	7	7.3	7.3	7.3	7.5	7.4	6.5	7.4	7.3	5.6	6.8	7.2	4.3	5.7	6.8	130								
135					6.3	7.5	6.9	6.8	7.1	7.2	6.9	7.3	7.4	5.8	6.8	7.3	5	6.1	7	3.7	5	6	135								
140					6.1	7.4		6.5	6.8	7	6.3	7.1	7.2	5.2	6.2	6.8	4.4	5.4	6.2	3.2	4.4	5.3	140								
145					6	6.8		6	6.5	6.6	5.6	6.4	6.8	4.7	5.6	6.1	3.9	4.8	5.5	2.6	3.7	4.6	145								
150								5.4	5.8	5.8	5	5.7	6	4.2	4.9	5.5	3.3	4.2	4.9	2.1	3.2	4	150								
155								4.9	5.2	3.1	4.5	5.1	5.3	3.6	4.4	4.8	2.9	3.7	4.3		2.6	3.4	155								
160								4.4	4.5		4	4.5	4.6	3.1	3.8	4.2	2.4	3.2	3.7		2.1	2.8	160								
165											3.5	3.9	3.9	2.7	3.3	3.6	1.9	2.7	3.2			2.2	165								
170											3.1	3.4	3	2.2	2.8	2.9		2.2	2.6				170								
175											2.7	2.8		1.8	2.3	2.3			2.1				175								
180																1.8							180								

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Lifting capacities
Forces de levage

TK/TNZK

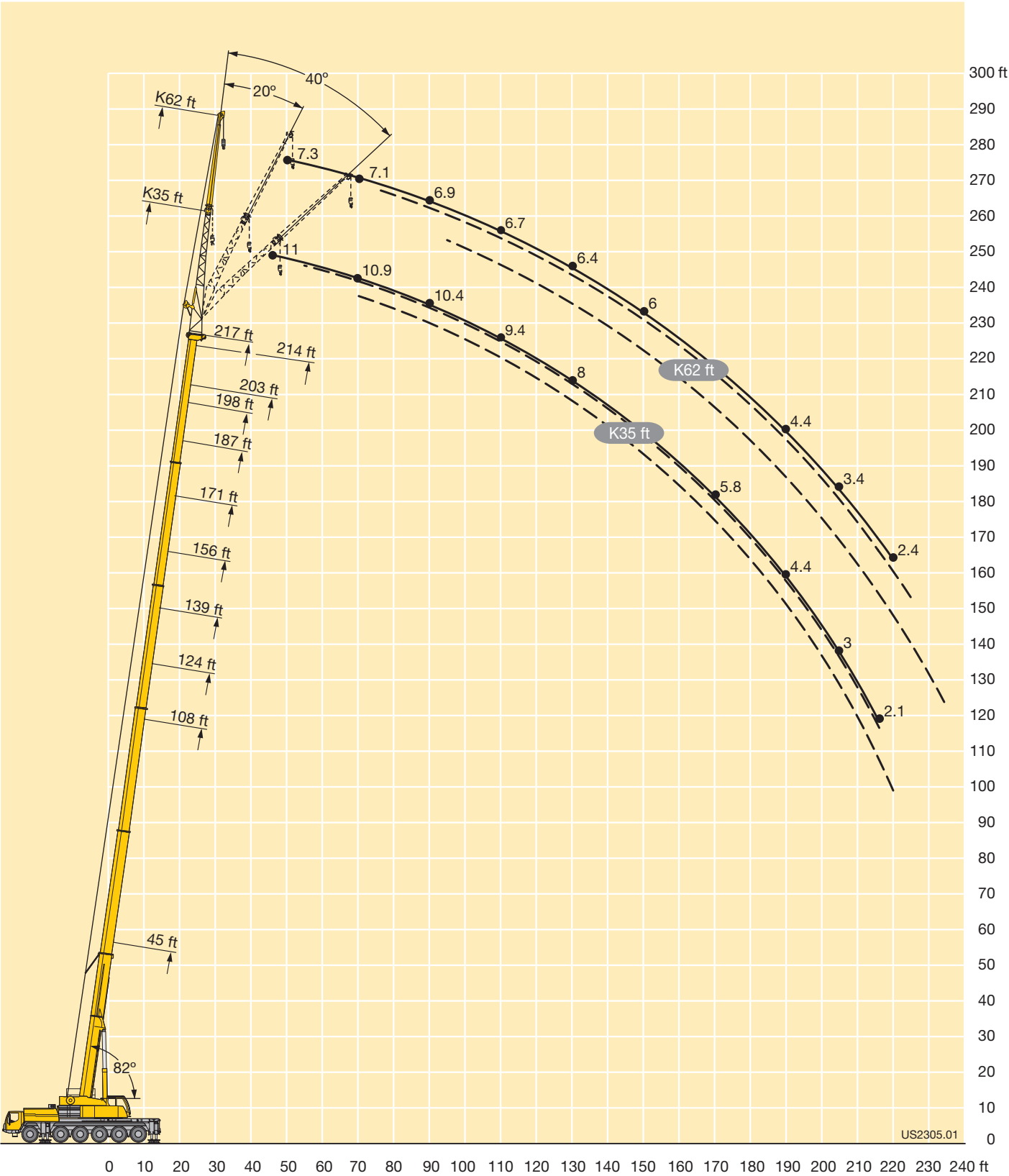
		 45 – 217 ft			 62 ft													
	ft	187 ft			198 ft			203 ft			214 ft			217 ft				ft
		62 ft			62 ft			62 ft			62 ft			62 ft				
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
40		9.5															40	
45		9.4			8.2			8.3									45	
50		9.3			8.2			8.2			7.4			7.2			50	
55		9.2			8.1			8.1			7.3			7.2			55	
60		9.1			8.1			8.1			7.3			7.2			60	
65		9	8.3		8			8			7.3			7.1			65	
70		8.8	8.2		7.9	7.6		8			7.2			7.1			70	
75		8.7	8.1		7.9	7.6		7.9	7.6		7.2	7		7.1			75	
80		8.6	8		7.8	7.5		7.8	7.5		7.2	7		7	6.9		80	
85		8.5	7.9	7.4	7.7	7.4		7.8	7.4		7.1	7		7	6.9		85	
90		8.2	7.8	7.3	7.7	7.4	7.1	7.7	7.4	7.1	7.1	7		6.9	6.9		90	
95		8.1	7.8	7.3	7.6	7.3	7.1	7.3	7.3	7.1	7.1	6.9	6.9	6.7	6.8	6.8	95	
100		7.7	7.7	7.2	7.5	7.3	7.1	6.6	7.3	7.1	6.5	6.9	6.9	6.2	6.8	6.8	100	
105		7.2	7.5	7.2	6.8	7.2	7.1	5.7	7.1	7.1	5.5	6.9	6.9	5.3	6.8	6.8	105	
110		6.2	7.4	7.2	6	7.1	7.1	4.8	6.8	7.1	4.6	6.4	6.9	4.4	6.3	6.9	110	
115		5.4	7	7.2	5.2	6.8	7.1	4	5.9	7.1	3.8	5.7	6.9	3.6	5.5	6.9	115	
120		4.6	6.3	7.1	4.4	6.1	7.1	3.2	5	6.4	3.1	4.9	6.4	2.8	4.7	6.2	120	
125		3.9	5.5	6.8	3.7	5.3	6.5	2.5	4.3	5.7	2.3	4.1	5.6		3.9	5.4	125	
130		3.3	4.7	5.9	3.1	4.6	5.8		3.5	4.8		3.4	4.7		3.2	4.6	130	
135		2.6	4	5.2	2.4	3.9	5		2.8	4.1		2.7	4		2.5	3.8	135	
140		2	3.4	4.4		3.2	4.3		2.2	3.4		2	3.3			3.1	140	
145			2.8	3.8		2.6	3.6			2.7			2.6			2.4	145	
150			2.2	3.1		2	3			2			2				150	
155				2.5			2.4										155	
160				1.9			1.8										160	

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Lifting heights
Hauteurs de levage

TK/TNZK





Lifting capacities
Forces de levage

TVK/
TVNZK

		 45–217 ft T			 23 ft V			 35 ft K NZK						 360°			 103200 lbs			 85%							
 ft		45 ft + 23 ft			156 ft + 23 ft			171 ft + 23 ft			187 ft + 23 ft			198 ft + 23 ft			203 ft + 23 ft			214 ft + 23 ft			217 ft + 23 ft			 ft	
		35 ft			35 ft			35 ft			35 ft			35 ft			35 ft			35 ft			35 ft				
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
9		14.4																								9	
10		14.3																								10	
11		14.3																								11	
12		14.3																								12	
13		14.3																								13	
14		14.3																								14	
15		14.3																								15	
16		14.3																								16	
17		14.3																								17	
18		14.2																								18	
20		14.1																								20	
22		14	14.4																							22	
24		13.8	14.3																							24	
26		13.7	14.1																							26	
28		13.4	13.9																							28	
30		13.2	13.6																							30	
32		12.9	13.2	13.3	14.3																					32	
34		12.5	12.9	13.1	14.3																					34	
36		11.9	12.6	12.8	14.3																					36	
38		11.5	12.2	12.5	14.3			12.4																		38	
40		11.1	11.8	12.2	14.3			12.4																		40	
45		10.1	10.8	11.4	14.1			12.4			10.8			9.3			9.3									45	
50		9.2	9.9	10.6	14.1	14.1		12.4	12.6		10.8			9.3			9.3			7.9			7.7			50	
55		8.4	9.1	9.6	13.9	13.7	13.1	12.3	12.5		10.8	10.9		9.3	9.5		9.3			7.9			7.7			55	
60		7.6	8.3	8.7	13.6	13.4	12.9	12.1	12.3		10.8	10.8		9.2	9.5		9.3			7.9			7.7			60	
65		7.1	7.6	8	13.5	13.1	12.6	11.9	12.2	11.7	10.6	10.8	10.6	9.1	9.3		9.3	9.3		7.9	8.2		7.7	7.9		65	
70		6.6	6.9	7.4	13.2	12.7	12.3	11.8	11.8	11.5	10.6	10.8	10.6	9	9.3	9	9.3	9.3	9.3	7.9	8.2		7.6	7.8		70	
75		6.1	6.3	6.7	12.7	12.3	11.9	11.7	11.5	11.4	10.6	10.7	10.5	9	9.3	9	9.2	9.3	9.3	7.9	8.2	7.9	7.5	7.7	7.7	75	
80		5.6	5.8	6.1	12.2	11.8	11.6	11.6	11.2	11.1	10.5	10.5	10.3	9	9.2	9	9	9.3	9.3	7.9	8.1	7.9	7.5	7.7	7.7	80	
85		5.1	5.3		11.7	11.3	11.3	11.1	10.8	10.6	10.4	10.2	10.2	8.8	9.1	9	9	9.3	9.3	7.7	8	7.9	7.3	7.5	7.7	85	
90					11.1	10.9	10.8	10.7	10.5	10.3	10.2	10	10	8.8	8.9	8.9	9	9.1	9.1	7.7	7.9	7.9	7.3	7.5	7.7	90	
95					10.5	10.5	10.4	10.3	10.2	9.9	9.9	9.7	9.7	8.7	8.7	8.7	9	8.9	8.9	7.6	7.8	7.9	7.2	7.4	7.7	95	
100					10	10	10	9.8	9.8	9.7	9.6	9.4	9.4	8.5	8.5	8.5	9	8.8	8.8	7.5	7.7	7.9	7.1	7.3	7.7	100	
105					9.7	9.5	9.5	9.5	9.5	9.5	9.3	9.3	9.3	8.4	8.2	8.4	8.8	8.6	8.6	7.5	7.7	7.7	7.1	7.3	7.5	105	
110					9.4	9.1	9.1	9	9	9.1	8.9	8.9	8.9	8	8	8	8.5	8.4	8.4	7.3	7.6	7.6	6.9	7.1	7.3	110	
115					8.9	8.8	8.8	8.7	8.6	8.8	8.6	8.6	8.6	7.7	7.8	7.8	8.3	8.3	8.3	7.2	7.4	7.4	6.7	7.1	7.3	115	
120					8.5	8.5	8.5	8.5	8.3	8.5	8.3	8.3	8.3	7.4	7.6	7.6	8.1	8.1	8.1	7	7.2	7.2	6.6	7	7.2	120	
125					8.1	8.1	8.1	8.1	8.1	8.1	8.1	7.9	8.1	7.3	7.3	7.3	7.9	7.9	7.9	6.8	7	7	6.6	6.8	7	125	
130					7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.1	7.1	7.1	7.6	7.6	7.8	6.7	6.9	6.9	6.4	6.7	6.9	130	
135					7.5	7.5	7.5	7.5	7.5	7.6	7.5	7.5	7.6	6.8	6.8	6.9	7.4	7.4	7.5	6.5	6.6	6.7	6.3	6.5	6.7	135	
140					7.2	7.2	7.2	7.1	7.1	7.4	7.2	7.2	7.4	6.5	6.5	6.7	7.1	7.2	7.2	6.3	6.3	6.5	6.1	6.3	6.5	140	
145					7	7	7	6.8	6.8	7	7	7	7	6.4	6.4	6.4	6.8	7	7	6.2	6.2	6.4	5.9	6.2	6.2	145	
150					6.7	6.7	6.9	6.5	6.6	6.7	6.7	6.7	6.9	6	6.2	6.2	6.6	6.7	6.9	6	6	6	5.8	6	6	150	
155					6.5	6.5	6.6	6.3	6.3	6.5	6.5	6.5	6.6	5.8	5.9	6	6.5	6.5	6.6	5.8	5.8	5.8	5.6	5.7	5.8	155	
160					6.2	6.2	6.3	6	6.1	6.2	6.2	6.3	6.3	5.6	5.7	5.8	6.2	6.3	6.3	5.6	5.7	5.7	5.4	5.4	5.7	160	
165					5.9	5.9	6.1	5.7	5.9	5.9	5.9	6.1	6.1	5.3	5.5	5.5	5.9	6.1	6.1	5.3	5.5	5.5	5.2	5.3	5.5	165	
170					5.8	5.8	5.8	5.5	5.6	5.6	5.8	5.8	6	5.1	5.1	5.3	5.8	5.8	6	5.1	5.3	5.3	4.9	5.1	5.1	170	
175					5.6	5.6	5.6	5.2	5.4	5.4	5.6	5.6	5.7	4.9	4.9	5.1	5.6	5.6	5.8	4.9	5	5.1	4.7	4.9	4.9	175	
180					5.3	5.4	5.4	5	5.1	5.1	5.3	5.4	5.4	4.8	4.8	5	5.3	5.4	5.5	4.8	4.8	5	4.5	4.7	4.8	180	
185					5	5.3	5.2	4.8	4.8	4.8	5	5.3	5.3	4.6	4.6	4.8	4.9	5.2	5.3	4.6	4.6	4.8	4.3	4.4	4.6	185	
190					4.9	5.1	4.7	4.4	4.6	4.6	4.9	5.1	5.1	4.4	4.4	4.4	4.4	4.9	5.1	4.4	4.4	4.6	4	4.2	4.4	190	
195					4.7	4.9		4.3	4.5	4.5	4.7	4.8	4.9	4.3	4.3	4.3	4.1	4.4	4.6	3.9	4.3	4.5	3.7	4	4.1	195	
200								4.1	4.2	4.2	4.5	4.5	4.6	4.1	4.1	4.1	3.7	4	4.1	3.5	3.9	4.1	3.3	3.7	3.8	200	
205								3.9	3.9	3.9	4.3	4.3	4.3	3.9	3.9	3.9	3.2	3.6	3.6	3.2	3.4	3.6	3	3.2	3.4	205	
210								3.8	3.8	3.7	3.8	4	4	3.7	3.8	3.8	2.6	3.1	3.1	2.6	3.1	3.3	2.6	2.9	3.1	210	
215											3.4	3.6	3.6	3.2	3.6	3.6	2.3	2.6	2.8	2.3	2.6	2.8	2.1	2.5	2.6	215	
220											3.1	3.2	3.2	2.9	3.2	3.2		2.2	2.3		2.2	2.3		2.1	2.2	220	
225														2.5	2.7	2.7										225	
230														2.2	2.4	2.4										230	
235														1.9	2.1											235	

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Lifting capacities
Forces de levage

TVK/
TVNZK

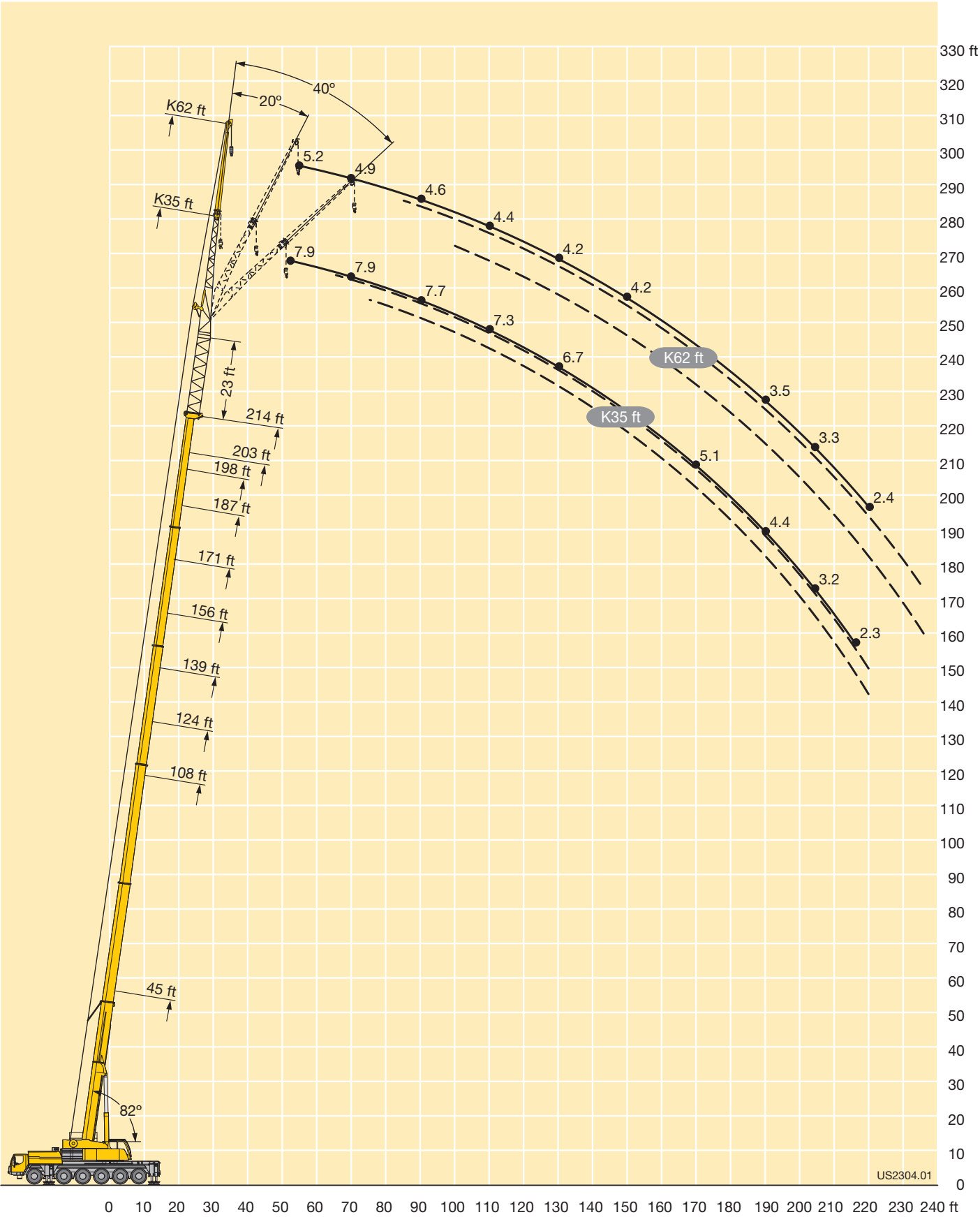
		 45-214 ft			 23 ft			 62 ft			 62 ft			 62 ft			 62 ft			 62 ft			 62 ft			 62 ft			 62 ft			 62 ft				
		45 ft + 23 ft			156 ft + 23 ft			171 ft + 23 ft			187 ft + 23 ft			198 ft + 23 ft			203 ft + 23 ft			214 ft + 23 ft																
		62 ft			62 ft			62 ft			62 ft			62 ft			62 ft			62 ft																
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°														
 ft		13	9																					13												
		14	9																					14												
		15	9																					15												
		16	9																					16												
		17	9																					17												
		18	8.9																					18												
		20	8.8																					20												
		22	8.8																					22												
		24	8.8																					24												
		26	8.8																					26												
		28	8.7																					28												
		30	8.6																					30												
		32	8.6																					32												
		34	8.5																					34												
		36	8.4	8.4																				36												
		38	8.4	8.3		9																		38												
		40	8.3	8.1		9																		40												
		45	8	8		8.9			8.2															45												
		50	7.8	7.8		8.8			8			7.3			6.4			6.4						50												
		55	7.6	7.6		8.7			7.9			7.3			6.4			6.4				5.2		55												
		60	7.4	7.4	7.3	8.6			7.9			7.3			6.4			6.4				5.1		60												
		65	6.9	7.1	7.3	8.6	8.2		7.9			7.3			6.4			6.4				5.1		65												
		70	6.5	6.9	7.1	8.5	8		7.9	7.7		7.1			6.3			6.3				4.9		70												
		75	6.1	6.6	6.9	8.4	7.9		7.8	7.6		7.1	7.1		6.2	6.2		6.2	6.2			4.9		75												
		80	5.7	6.3	6.5	8.3	7.9		7.7	7.5		7.1	7.1		6.2	6.2		6.2	6.2			4.8		80												
		85	5.3	5.8	6.2	8.2	7.7	7.3	7.7	7.5		7.1	7.1		6.2	6.2		6.2	6.2			4.6	5.1	85												
		90	5	5.4	5.9	8	7.7	7.3	7.7	7.3	7.1	7.1	7.1	6.6	6.2	6.2		6.2	6.2			4.6	4.9	90												
		95	4.6	5.1	5.5	7.9	7.6	7.3	7.6	7.3	7.1	7.1	7	6.6	6.2	6.2	5.7	6.1	6.2	6		4.6	4.9	95												
		100	4.3	4.7	5.1	7.9	7.4	7.2	7.4	7.2	7	7	6.8	6.6	6.2	6.1	5.7	6	6.2	6		4.6	4.8	5.1	100											
		105	4	4.4	4.6	7.7	7.3	7.1	7.3	7.1	6.8	6.8	6.8	6.6	6.2	6	5.7	6	6.2	6		4.4	4.6	5.1	105											
		110	3.8	4.1		7.6	7.3	7.1	7.3	6.9	6.8	6.8	6.7	6.6	6.2	6	5.9	6	6.2	6		4.4	4.6	4.9	110											
		115				7.4	7.2	6.9	7.2	6.8	6.7	6.7	6.5	6.5	6.1	6	6	6	6.1	6		4.3	4.6	4.9	115											
		120				7.2	7	6.8	7	6.8	6.6	6.6	6.4	6.4	5.9	6	6	5.9	6	6		4.2	4.6	4.9	120											
		125				7	6.8	6.8	6.8	6.6	6.6	6.6	6.4	6.4	5.7	5.9	5.9	5.7	6	6		4.2	4.4	4.8	125											
		130				6.7	6.7	6.7	6.7	6.4	6.4	6.4	6.2	6.2	5.7	5.8	5.8	5.7	6	6		4.2	4.4	4.7	130											
		135				6.5	6.5	6.5	6.5	6.4	6.4	6.3	6.2	6.2	5.6	5.6	5.7	5.7	5.8	5.8		4.2	4.4	4.6	135											
		140				6.3	6.3	6.3	6.3	6.3	6.3	6.1	6.1	6.1	5.4	5.5	5.7	5.7	5.7	5.7		4.2	4.4	4.6	140											
		145				5.9	6.1	6.2	5.9	6.1	6.2	5.9	5.9	6	5.3	5.5	5.5	5.5	5.7	5.7		4.2	4.4	4.6	145											
		150				5.8	5.8	6	5.8	5.8	6	5.8	5.8	6	5.3	5.3	5.3	5.5	5.5	5.5		4.2	4.4	4.6	150											
		155				5.6	5.6	5.8	5.6	5.6	5.8	5.6	5.6	5.8	5	5.2	5.3	5.4	5.5	5.5		4.1	4.4	4.6	155											
		160				5.4	5.4	5.7	5.3	5.4	5.7	5.4	5.4	5.7	4.8	5	5.2	5.2	5.4	5.4		4	4.4	4.6	160											
		165				5.3	5.3	5.5	5	5.3	5.5	5.3	5.3	5.5	4.6	4.8	5	5	5.3	5.3		3.9	4.4	4.6	165											
		170				5.1	5.1	5.3	4.9	5.1	5.3	5.1	5.1	5.3	4.4	4.7	4.9	4.9	5.1	5.3		3.8	4.4	4.6	170											
		175				4.9	4.9	5	4.7	4.9	5.1	4.9	4.9	5.1	4.3	4.5	4.7	4.7	4.9	5.1		3.8	4.4	4.6	175											
		180				4.7	4.8	4.8	4.5	4.8	4.9	4.8	4.8	5	4.1	4.3	4.5	4.6	4.8	5		3.8	4.3	4.5	180											
		185				4.4	4.6	4.6	4.4	4.6	4.6	4.6	4.6	4.8	3.9	4.2	4.4	4.6	4.6	4.8		3.7	4.2	4.4	185											
		190				4.2	4.4	4.4	4.2	4.4	4.4	4.4	4.4	4.6	3.8	4	4.2	4.4	4.4	4.6		3.5	4	4.2	190											
		195				4.2	4.3	4.3	4	4.1	4.3	4.3	4.3	4.5	3.6	3.8	4	4.3	4.3	4.5		3.5	3.8	4	195											
		200				4.1	4.1	4.1	3.9	3.9	4.1	4.1	4.1	4.3	3.5	3.6	3.9	4	4.1	4.3		3.4	3.6	3.9	200											
		205				3.9	3.9	4	3.7	3.7	3.9	3.9	3.9	4.1	3.5	3.5	3.7	3.6	3.9	4.1		3.3	3.5	3.7	205											
		210				3.8	3.8	4	3.5	3.5	3.8	3.8	3.8	4	3.3	3.3	3.5	3.3	3.8	4		3.1	3.3	3.5	210											
		215				3.6	3.6	3.8	3.4	3.4	3.4	3.6	3.6	3.8	3.1	3.1	3.4	2.8	3.4	3.8		2.8	3.1	3.4	215											
		220				3.5	3.5		3.2	3.2	3.2	3.4	3.5	3.6	3	3.1	3.2	2.4	3.1	3.4		2.4	3	3.2	220											
		225							3	3	3	3.2	3.4	3.5	2.8	3	3		2.7	3			2.7	3	225											
		230							2.9	2.9	2.9	2.8	3.1	3.3	2.6	2.9	2.9		2.2	2.6			2.2	2.6	230											
		235							2.7	2.7		2.5	2.7	3	2.3	2.7	2.7		1.9	2.1			1.9	2.1	235											
		240										2.2	2.4	2.5	2	2.4	2.4								240											
		245												2.1			2.1								245											

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Lifting heights
Hauteurs de levage

TVK/
TVNZK





Lifting capacities
Forces de levage

TVK/
TVNZK

		 45–214 ft T			 46 ft V			 35 ft K/NZK						 360°			 103200 lbs			85%			
 ft	45 ft + 46 ft			156 ft + 46 ft			171 ft + 46 ft			187 ft + 46 ft			198 ft + 46 ft			203 ft + 46 ft			214 ft + 46 ft			 ft	
	35 ft			35 ft			35 ft			35 ft			35 ft			35 ft			35 ft				
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
13	9.9																					13	
14	9.8																					14	
15	9.7																					15	
16	9.7																					16	
17	9.7																					17	
18	9.7																					18	
20	9.7																					20	
22	9.5																					22	
24	9.5																					24	
26	9.5	9.7																				26	
28	9.4	9.6																				28	
30	9.2	9.5																				30	
32	9.1	9.3																				32	
34	9	9.2																				34	
36	8.8	9	9.3																			36	
38	8.7	8.9	9	9.7																		38	
40	8.6	8.8	8.8	9.7																		40	
45	8.2	8.3	8.4	9.5				8.4			7.5											45	
50	7.9	7.9	8.1	9.5	9.5			8.4			7.4			6.4			6.4					50	
55	7.5	7.6	7.8	9.4	9.4			8.4	8.4		7.3			6.4			6.4			5.1		55	
60	7	7.2	7.4	9.2	9.2			8.4	8.4		7.3			6.4			6.4			5		60	
65	6.5	6.9	7.1	9.1	9.1	8.8		8.2	8.2		7.3	7.5		6.2	6.4		6.2	6.4		4.9		65	
70	6	6.4	6.6	8.9	8.9	8.7		8.2	8.2	8	7.3	7.4	7.5	6.2	6.4		6.2	6.4		4.9	5.1	70	
75	5.5	5.9	6.2	8.7	8.6	8.5		8.1	8.1	7.8	7.2	7.3	7.4	6.2	6.4	6.5	6.2	6.4	6.5	4.8	5	5.1	75
80	5.2	5.4	5.8	8.6	8.3	8.3		7.9	7.9	7.7	7.1	7.2	7.2	6.2	6.4	6.4	6.2	6.4	6.4	4.6	4.8	5	80
85	4.9	5.1	5.3	8.4	8.2	8		7.9	7.7	7.5	7.1	7.1	7.1	6.2	6.4	6.4	6.2	6.4	6.4	4.6	4.6	4.9	85
90	4.4	4.8	4.8	8.2	8	7.8		7.8	7.6	7.5	7.1	7.1	7.1	6.2	6.2	6.4	6.2	6.2	6.4	4.5	4.6	4.9	90
95	4	4.3	4.4	8.1	7.8	7.6		7.6	7.4	7.4	7.1	7	7	6.2	6.2	6.3	6.1	6.2	6.3	4.4	4.6	4.9	95
100	3.7	3.9	4.1	7.9	7.7	7.4		7.4	7.2	7.2	7	6.8	6.8	6.2	6.1	6.2	6	6.2	6.2	4.4	4.6	4.8	100
105	3.5	3.5	3.8	7.7	7.5	7.3		7.3	7.1	7.1	6.8	6.6	6.6	6.2	6	6.2	6	6.2	6.2	4.2	4.4	4.6	105
110	3.2			7.6	7.3	7.1		7.1	6.9	6.9	6.7	6.6	6.5	6	6	6	6	6	6	4.2	4.4	4.6	110
115				7.3	7.2	6.9		6.9	6.7	6.7	6.5	6.5	6.4	5.8	5.8	6	5.8	6	6	4.2	4.3	4.5	115
120				6.9	6.9	6.8		6.8	6.6	6.6	6.4	6.3	6.3	5.7	5.7	5.9	5.7	5.9	5.9	4.1	4.2	4.4	120
125				6.6	6.6	6.6		6.6	6.4	6.4	6.4	6.2	6.2	5.5	5.7	5.7	5.7	5.7	5.7	4	4.2	4.4	125
130				6.4	6.4	6.4		6.3	6.2	6.4	6.2	6	6	5.5	5.6	5.6	5.7	5.7	5.7	4	4.2	4.4	130
135				6.1	6.1	6.3		6.1	6.1	6.3	6.1	6	6	5.4	5.4	5.4	5.6	5.6	5.6	4	4.2	4.4	135
140				5.9	5.9	6		5.9	5.9	6	5.9	5.9	5.9	5.2	5.2	5.2	5.5	5.4	5.5	4	4.2	4.4	140
145				5.7	5.7	5.7		5.7	5.7	5.7	5.7	5.7	5.7	5.1	5.1	5.1	5.5	5.3	5.5	4	4.2	4.4	145
150				5.4	5.4	5.5		5.4	5.5	5.5	5.5	5.5	5.5	4.9	4.9	4.9	5.3	5.3	5.3	4	4.2	4.4	150
155				5.2	5.2	5.4		5.2	5.2	5.4	5.2	5.4	5.4	4.7	4.7	4.7	5.2	5.2	5.3	3.8	4.2	4.4	155
160				5	5	5.1		5	5	5.2	5	5.2	5.2	4.5	4.5	4.5	5	5	5.2	3.8	4.1	4.4	160
165				4.8	4.8	4.8		4.8	4.8	5	4.8	5	5	4.4	4.4	4.4	4.8	4.8	5	3.7	4	4.4	165
170				4.7	4.7	4.7		4.5	4.7	4.7	4.7	4.7	4.9	4.2	4.2	4.2	4.7	4.7	4.9	3.6	4	4.2	170
175				4.5	4.5	4.5		4.3	4.5	4.5	4.5	4.5	4.7	3.9	4	4	4.5	4.5	4.7	3.5	3.8	4	175
180				4.3	4.3	4.3		4.1	4.2	4.3	4.3	4.3	4.5	3.7	3.9	3.9	4.3	4.3	4.5	3.4	3.7	3.9	180
185				4.2	4.2	4.2		3.9	3.9	4.1	4.2	4.2	4.4	3.5	3.7	3.7	4.2	4.2	4.4	3.3	3.5	3.7	185
190				4	4	4		3.8	3.8	3.8	4	4	4.2	3.3	3.5	3.5	4	4	4.2	3.3	3.3	3.5	190
195				3.8	3.8	3.8		3.4	3.6	3.6	3.8	3.8	4	3.2	3.4	3.4	3.7	3.8	3.9	3.2	3.3	3.4	195
200				3.6	3.6	3.6		3.2	3.4	3.4	3.6	3.6	3.8	3	3.2	3.2	3.3	3.6	3.6	3	3.2	3.2	200
205				3.5	3.5	3.5		3	3.3	3.3	3.5	3.5	3.5	2.8	3	3	2.9	3.4	3.4	2.8	3	3	205
210				3.3	3.3	3.3		2.9	3.1	3.1	3.3	3.3	3.3	2.6	2.9	2.9	2.4	2.9	3.1	2.4	2.6	2.9	210
215				3.1	3.1	3.1		2.7	2.9	2.9	3	3.1	3.1	2.5	2.7	2.7	2.1	2.4	2.6	2.1	2.3	2.5	215
220								2.5	2.8	2.8	2.6	2.9	3	2.3	2.5	2.5		2	2.2		2	2.2	220
225								2.4	2.6	2.5	2.3	2.5	2.7	2.1	2.3	2.4							225
230								2.2	2.4	2.2							2.2						230
235												1.9	1.9				1.9						235

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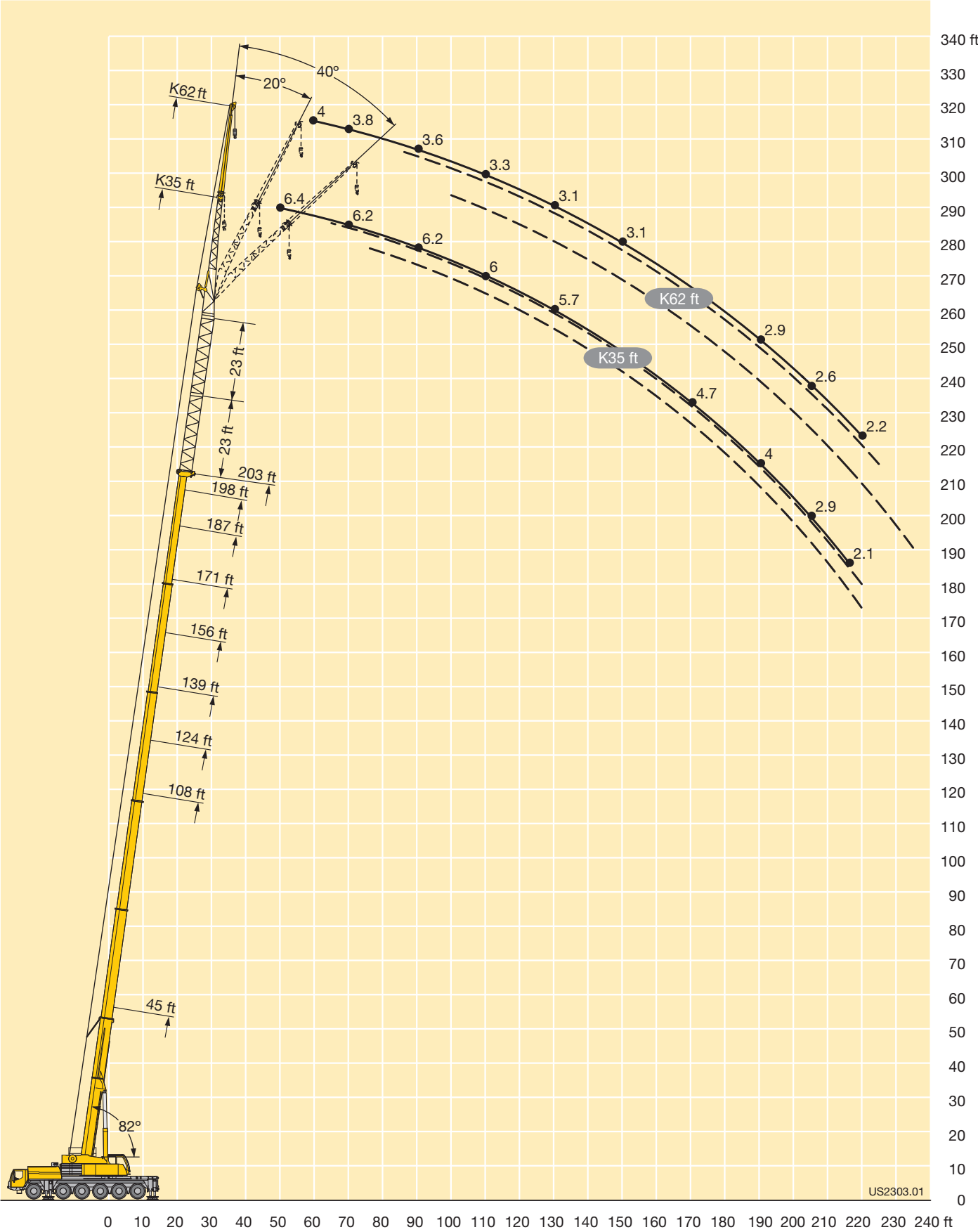
**TVK/
TVNZK**

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Lifting heights
Hauteurs de levage

**TVK/
TVNZK**



TK

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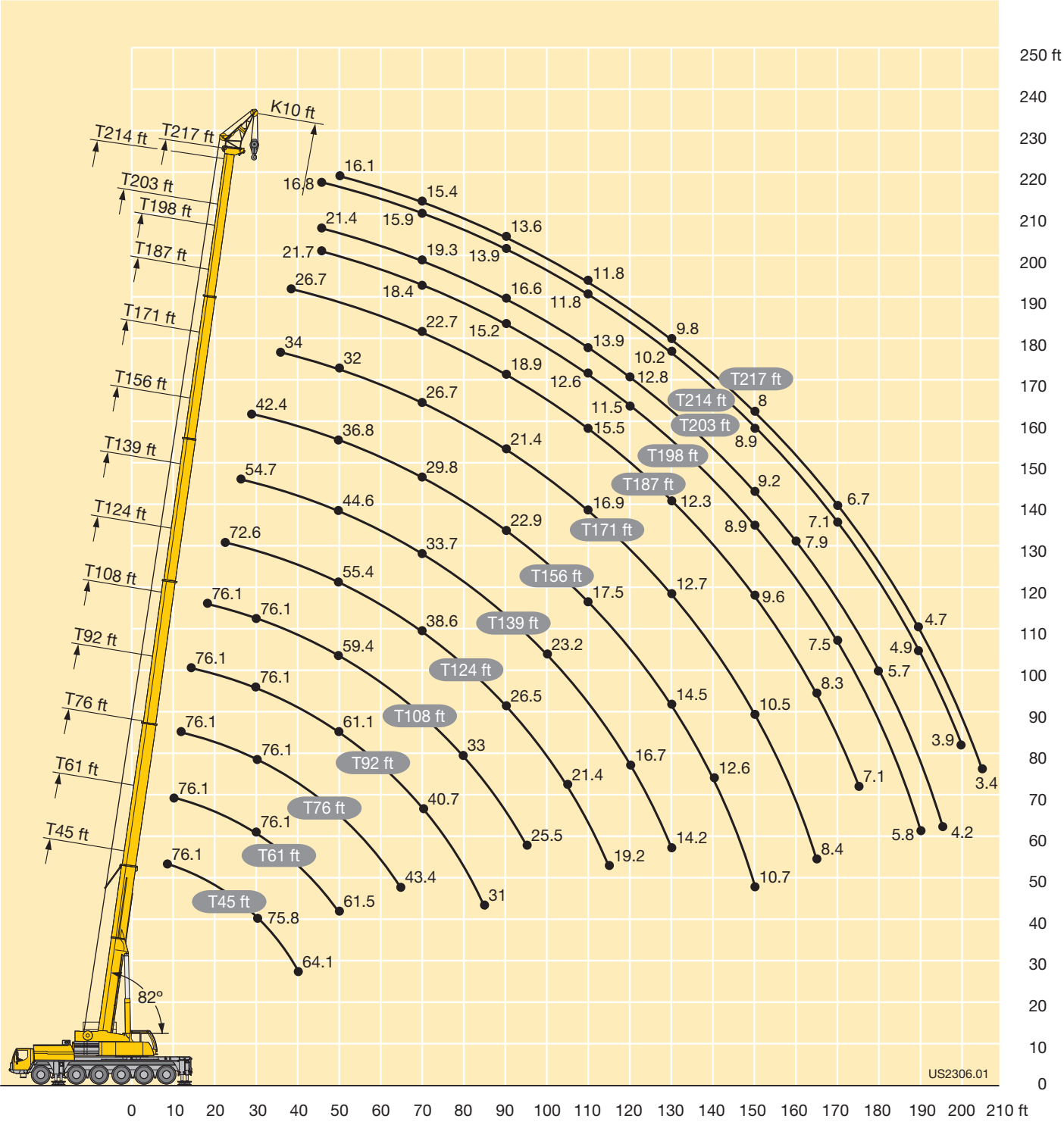
TK

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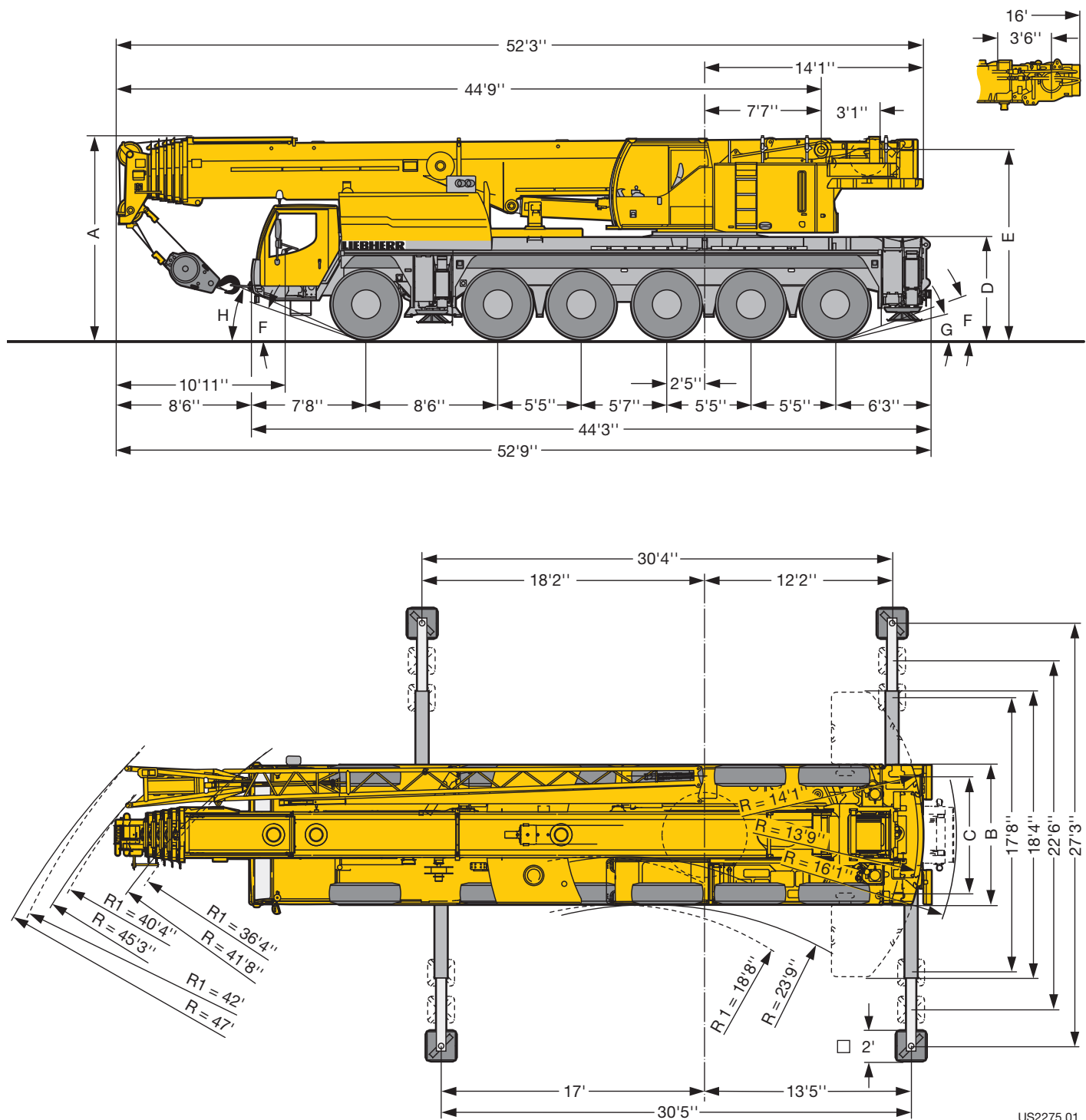


Lifting heights
Hauteurs de levage

TK



Dimensions Encombrement



US2275.01

$R_1 =$ All-wheel steering · Direction toutes roues

	Dimensions · Encombrement							
	A	B	C	D	E	F	G	H
445/95 R 25 (16.00 R 25)	13'1"	9'	7'7"	6'9"	12'4"	22°	14°	26°
525/80 R 25 (20.5" R 25)	13'1"	9'4"	7'7"	6'9"	12'4"	22°	14°	26°



Weights
Poids



Axle Essieu	1	2	3	4	5	6	Total weight lbs Poids total lbs
lbs	26400	26400	26400	26400	26400	26400	158400 ¹⁾
¹⁾ with 33100 lbs counterweight · avec contrepoids 33100 lbs							



Load (kips) Forces de levage kips	No. of sheaves Poulies	No. of lines Brins	Weight lbs Poids lbs
247.6	7	14	2730
198.8	5	11	1980
130	3	7	1540
57.5	1	3	990
19.4	–	1	550

Working speeds
Vitesses



		1	2	3	4	5	6	7	8	9	10	11	12	R 1	R 2	
445/95 R 25 (16.00 R 25) 525/80 R 25 (20.5 R 25)		1.52 – 3.9	4.9	6.4	8.1	10.4	13.3	17.5	22.5	29.1	37.3	47.3	50	1.64 – 4.2	5.3	51 %



Drive Mécanismes	infinitely variable en continu	Rope diameter / length Diamètre / Longueur du câble	Max. single line pull Effort au brin maxi.
	0 – 360 ft/min single line ft/min au brin simple	7/8" / 820 ft	19400 lbs
	0 – 360 ft/min single line ft/min au brin simple	7/8" / 820 ft	19400 lbs
	0 – 1.7 rpm		
	approx. 65 seconds to reach 82° boom angle · env. 65 s jusqu'à 82°		
	approx. 400 seconds for boom extension from 45 ft – 217 ft · env. 400 s pour passer de 45 ft – 217 ft		



Equipment
Equipment

Crane carrier

Frame	Self-manufactured, torsion-resistant box-type design of high-tensile fine grained structural steel.
Outriggers	4-point supporting system, hydraulically telescopable into horizontal and vertical direction. Operation with remote control, automatic support leveling, electronic inclination display.
Engine	8-cylinder Diesel, make Liebherr, type D9508 A7, watercooled, output 400 kW (544 h.p.) at 1900 rpm, max. torque 1878 lbs-ft at 1500 rpm. Exhaust emissions acc. to 97/68/EG stage 3 and EPA/CARB Tier 3. Fuel reservoir: 127 gallons.
Transmission	Automatic transmission system with torque converter and intarder, make ZF, type TC-TRONIC with 12 forward speeds and 2 reverse speeds, transfer case with transfer differential.
Axles	Welded design, made of high-tensile fine grained steel. All axles steerable. Axles 2, 4 and 5 are planetary axles with differential locks.
Cardan shaft	All cardan shafts with 70° diagonal toothing and maintenance free.
Suspension	All axles are hydro-pneumatically suspended with automatic leveling. Suspension hydraulically lockable.
Tyre equipment	12 tyres, all axles equipped with single tyres. Size of tyres: 445/95 R 25 (16.00 R 25).
Steering	ZF-servocom power steering, 2 circuit system, with hydraulic servo device and additional spare pump, driven by the axle, active rear-axle steering. In on-road mode axles 3 to 6 are speed depending hydraulically steered. Above 18.6 mph axles 3 and 4 are locked for straight driving, above 37.2 mph axles 5 and 6 are locked in straight position. The steering complies with EC-directive 70/311 EEC.
Brakes	Service brake: all-wheel servo-air brake, all axles are equipped with disc brakes, dual circuit. Additional brakes: exhaust flap brake, Telma Eddy current brake (optional), intarder in gearbox. Hand brake: Spring-loaded, acting on all wheels of axles 2 to 6.
Driving cab	Spacious and comfortable sheet steel cab mounted on rubber shock absorbers, safety glass windows.
Electrical system	Modern data bus technique, 24 Volt DC, 2 batteries of 170 Ah each, lighting according to traffic regulations.

Crane superstructure

Frame	Liebherr-manufactured, torsionally rigid steel construction made from high-tensile fine-grain steel. Triple-roller slewing rim.
Crane engine	4-cylinder Diesel, make Liebherr, type D934L A6, watercooled, output 129 kW (175 h.p.) at 1800 rpm, max. torque 601 lbs-ft at 1500 rpm. Exhaust emissions acc. to 97/68/EG stage 3 and EPA/CARB Tier 3. Fuel reservoir: 69 gallons.
Crane drive	Diesel-hydraulic, with 2 axial piston variable displacement pumps, with servo-control and capacity control, 1 double gear pump, open controlled oil circuits. Compact hydraulic drive flanged to the Diesel engine. Drive assembly completely enclosed for noise abatement.
Control	Electric „Load Sensing“ control, simultaneous operation of 4 working motions, 2 self-centering hand control levers (joy-stick type).
Hoist gear	Axial piston fixed displacement motor, hoist drum with integrated planetary gear and spring-loaded static brake.
Luffing gear	2 differential hydraulic rams with nonreturn valve.
Slewing gear	Axial piston fixed displacement motor, planetary gear, spring-loaded static brake. Slewing gear invertible from released to locked as standard feature.
Crane cab	All-steel construction, entirely galvanized, powder coated, with safety glazing, operating and control instruments, comfortably equipped, cab tiltable backwards.
Safety devices	LICCON2 safe load indicator, test system, hoist limit switch, safety valves to prevent pipe and hose ruptures.
Telescopic boom	Buckling and torsion resistant design of high-tensile structural steel, oviform boom profile, 1 base section and 5 telescopic sections. All telescopic sections hydraulically extendable independent of one another. Rapid-cycle telescoping system “Telematik”. Boom length: 45 ft – 217 ft.
Counterweight	67900 lbs basic counterweight.
Electrical system	Modern data bus technique, 24 Volt DC, 2 batteries of 170 Ah each.

Additional equipment

Swing-away jib	35 ft – 62 ft long, mountable to the telescopic boom at 0°, 20° or 40°. Hydraulic ram for operating the swing-away jib from 0° – 40° (option).
Telescopic boom extension	23 ft – 46 ft long lattice section, thus higher pinning point for swing-away jib.
2 nd hoist gear	For two-hook operation or for operation with swing-away jib if the hoist rope shall remain reeved.
Tyre equipment	12 tyres, size 525/80 R 25 (20.5 R 25).
Drive 12 x 8	Additional drive of the 1 st axle.
Additional counterweight	35300 lbs for a total counterweight of 103200 lbs.

Other items of equipment available on request.



Equipment
Équipement

Châssis porteur

Châssis	Châssis résistant à la torsion de fabrication Liebherr, en acier à grains fins très résistant.
Stabilisateurs	Dispositif de calage horizontal et vertical en 4 points, entièrement déployable hydrauliquement. Utilisation avec commande à distance, mise à niveau automatique du calage, inclinomètre électronique.
Moteur	Moteur diesel, 8 cylindres, fabriqué par Liebherr, de type D9508 A7, à refroidissement par eau, de 400 kW (544 ch) à 1900 rpm, couple max. 1878 lbs-ft à 1500 rpm. Emissions des gaz d'échappement conformes aux directives 97/68/EG partie 3 et EPA/CARB Tier 3. Capacité du réservoir à carburant: 127 gallons.
Boîte de vitesse	Boîte automatique avec convertisseur de couple et ralentisseur, marque ZF, type TC-TRONIC avec 12 marches AV et 2 marches AR, boîte de transfert avec différentiel répartiteur.
Essieux	Construction soudée en acier haute résistance à grains fins pour l'ensemble des 6 essieux. Tous les essieux sont directeurs. Essieux 2, 4 et 5 planétaires avec blocage du différentiel.
Arbres articulés	Tous les flasques de croisillons avec denture en croix 70° et sans entretien.
Suspension	Tous les essieux sont à suspension hydro-pneumatique avec mise à niveau automatique. Suspension blocable hydrauliquement.
Pneumatiques	12 roues à monte simple. Taille: 445/95 R 25 (16.00 R 25).
Direction	Direction hydraulique ZF-servocom, à double circuit pilotés hydrauliquement et avec une pompe auxiliaire entraînée par un essieu, direction de l'essieu arrière active. Lors des déplacements sur route, les essieux de 3 à 6 sont dirigés en fonction de la vitesse par commande électrohydraulique. A partir de 18.6 mph les essieux 3 et 4 sont maintenus en ligne droite, à partir de 37.2 mph les essieux 5 et 6 sont maintenus en ligne droite. Direction conforme à la directive CE 70/311 EWG.
Freins	Freins de service: servofrein à air comprimé, tous les essieux sont munis de freins à disque, à 2 circuits. Freins auxiliaire : par clapet sur échappement, frein Telma (option), ralentisseur monté sur boîte de vitesse. Frein de secours et frein à main: par cylindres à ressorts sur les essieux 2 à 6.
Cabine	Cabine spacieuse, en tôle d'acier, équipée «grand confort», suspendue sur silent blocs, vitrage de sécurité.
Installation électrique	Technique moderne de transmission de données par BUS de données, courant continu 24 Volts, 2 batteries de 170 Ah chacune, éclairage conforme au code de la route.

Partie tournante

Cadre	Fabrication Liebherr, construction soudée indéformable, en acier à grain fin haute résistance. Couronne d'orientation à triple rangée de rouleaux.
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Moteur	Moteur diesel Liebherr, 4 cylindres, de type D934L A6, à refroidissement par eau, de 129 kW (175 ch) à 1800 rpm, couple max. 601 lbs-ft à 1500 rpm. Emissions des gaz d'échappement conformes aux directives 97/68/EG partie 3 et EPA/CARB Tier 3. Capacité du réservoir à carburant: 69 gallons.
Entraînement de la grue	Diesel hydraulique avec 2 pompes à débit variable à pistons axiaux, servocommande et régulation de la puissance, 1 double pompe à engrenages, circuits hydrauliques ouverts et régulés. Entraînement hydraulique compact, accouplé directement au moteur Diesel, mécanisme d'entraînement total fermé pour une bonne insonorisation.
Commande	Direction électrique "Load Sensing", 4 mouvements de travail dirigeable simultanément, deux leviers de commande à 4 positions et à autocentrage.
Mécanisme de levage	Moteur à cylindrée constante et à pistons axiaux. Treuil équipé d'un engrenage planétaire et d'un frein d'arrêt commandé par ressort.
Relevage de flèche	2 vérin hydraulique différentiel avec clapet anti-retour de sécurité.
Dispositif de rotation	Moteur à cylindrée constante à pistons axiaux, réducteur planétaire, frein d'arrêt commandé par ressort. Commutation en série du mécanisme d'orientation: ouvert et en orientation freinée automatiquement.
Cabine du grutier	Construction en tôle d'acier entièrement zinguée avec peinture par poudrage et cuisson au four, avec glaces de sécurité, appareils de commande et de contrôle, équipement confortable. Cabine inclinable vers l'arrière.
Dispositif de sécurité	Contrôleur de charge, «LICCON2», système test, limitation de la course pour le levage, soupape de sûreté contre la rupture de tubes et de tuyaux.
Flèche télescopique	Flèche télescopique en acier à haute résistance à grains fins, à profil ovale, 1 élément de base et 5 éléments télescopiques. Tous les éléments télescopables indépendamment les uns des autres. Système de télescopage séquentiel rapide, «Telematik». Longueur de flèche: 45 ft – 217 ft.
Contrepoids	Plaque de base 67900 lbs.
Installation électrique	Technique moderne de transmission de données. Courant continu 24 Volts, 2 batteries de 170 Ah chacune.

Équipement supplémentaire

Fléchette pliante	Longueur: 35 ft – 62 ft, montable sous un angle de 0°, 20° ou 40°. Vérin hydraulique pour le relevage de la fléchette pliante de 0° à 40° (en option).
Rallonge flèche télescopique	Élément en treillis de 23 ft – 46 ft, de cette manière point d'articulation plus haute pour la flèche pliante.
2ème mécanisme de levage	Pour l'utilisation du deuxième crochet, ou bien pour une utilisation avec fléchette pliante lorsque le câble de levage principal rest mouflé.
Pneumatiques	12 pneus. Taille 525/80 R 25 (20.5 R 25).
Entraînement 12 x 8	Essieu 1 est entraîné additionnellement.
Contrepoids additionnel	35300 lbs pour un contrepoids total de 103200 lbs.

Autres équipements supplémentaires sur demande.



Remarks referring to load charts

- 1. The lifting capacities do not exceed 85 % of the tipping load according to ASME B 30.5.
- 2. The crane's structural steelwork is in accordance with EN 13000 and ASME B 30.5.
- 3. For the calculation of the load charts a minimum wind speed of 23 ft/s (7 m/s, 15.7 miles/hour) and regarding the load a sail area of 1.2 m² per ton of load are taken into account.
- 4. Lifting capacities are given in kips.
- 5. The weight of the hook blocks and hooks is part of the load and therefore it must be deducted from the lifting capacities.
- 6. Working radii are measured from the slewing centre.
- 7. The lifting capacities given for the telescopic boom apply if the folding jib is removed.
- 8. Subject to modification of lifting capacities.
- 9. Lifting capacities above 182.1 kips / 247 kips only with additional pulley block/special equipment.

Remarques relatives aux tableaux des charges

- 1. La capacité de charge ne doit pas dépasser 85 % de la charge de basculement conformément à ASME B 30.5.
- 2. La structure métallique de la grue est conforme à EN 13000 et ASME B 30.5.
- 3. Lors du calcul des tableaux des charges, un vent de 23 ft/s (7 m/s, 15,7 miles/hour) minimum et en ce qui concerne la charge, une surface au vent de 1,2 m² par tonne de capacité de charge sont respectés.
- 4. Les charges sont indiquées en kips.
- 5. Le poids du crochet de levage resp. de la moufle à crochet est une partie de la charge et doit donc être déduit de la capacité de charge.
- 6. Les portées sont calculées à partir de l'axe de rotation.
- 7. Les charges indiquées pour la flèche télescopique sont valables lorsque la fléchette pliante est démontée.
- 8. Charges données sous réserve de modification.
- 9. Les charges supérieures à 182,1 kips / 247 kips seulement avec moufle additionnel/équipement supplémentaire.

