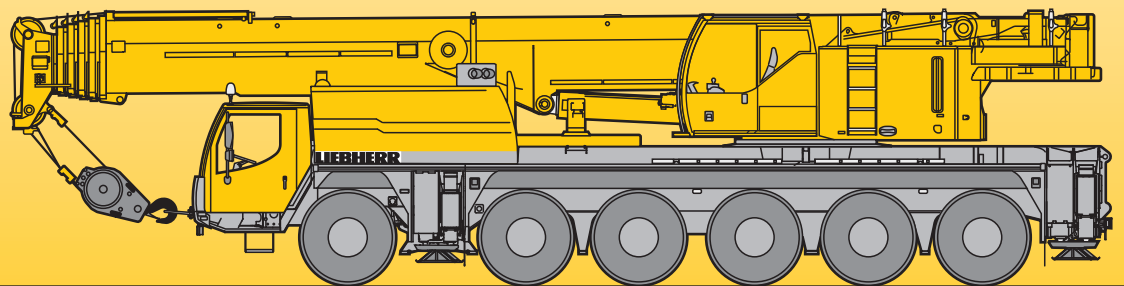


# Mobile Crane Grue mobile

# LTM 1150-6.1



## Technical Data Caractéristiques techniques



# LIEBHERR

# Lifting capacities Forces de levage

T

45 - 217 ft   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	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

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



45 - 217 ft  
 T  
  
 ±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

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

45 - 217 ft     **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	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

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

45 - 217 ft    $\pm 60^\circ$   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	233.3	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

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

45 - 217 ft     **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	233.2	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

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45 – 217 ft    ±60°  45200 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	233.2	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

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45 - 217 ft     **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	
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

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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	120
125								9.2	8.8	7.7	6.6	6.6	5	5.3	125
130									7.9	7	5.9	5.7	4.4	4.6	130
135									7.1	6.2	5.1	5	3.7	3.9	135
140										5.4	4.4	4.4	3	3.2	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

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

45 - 217 ft   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

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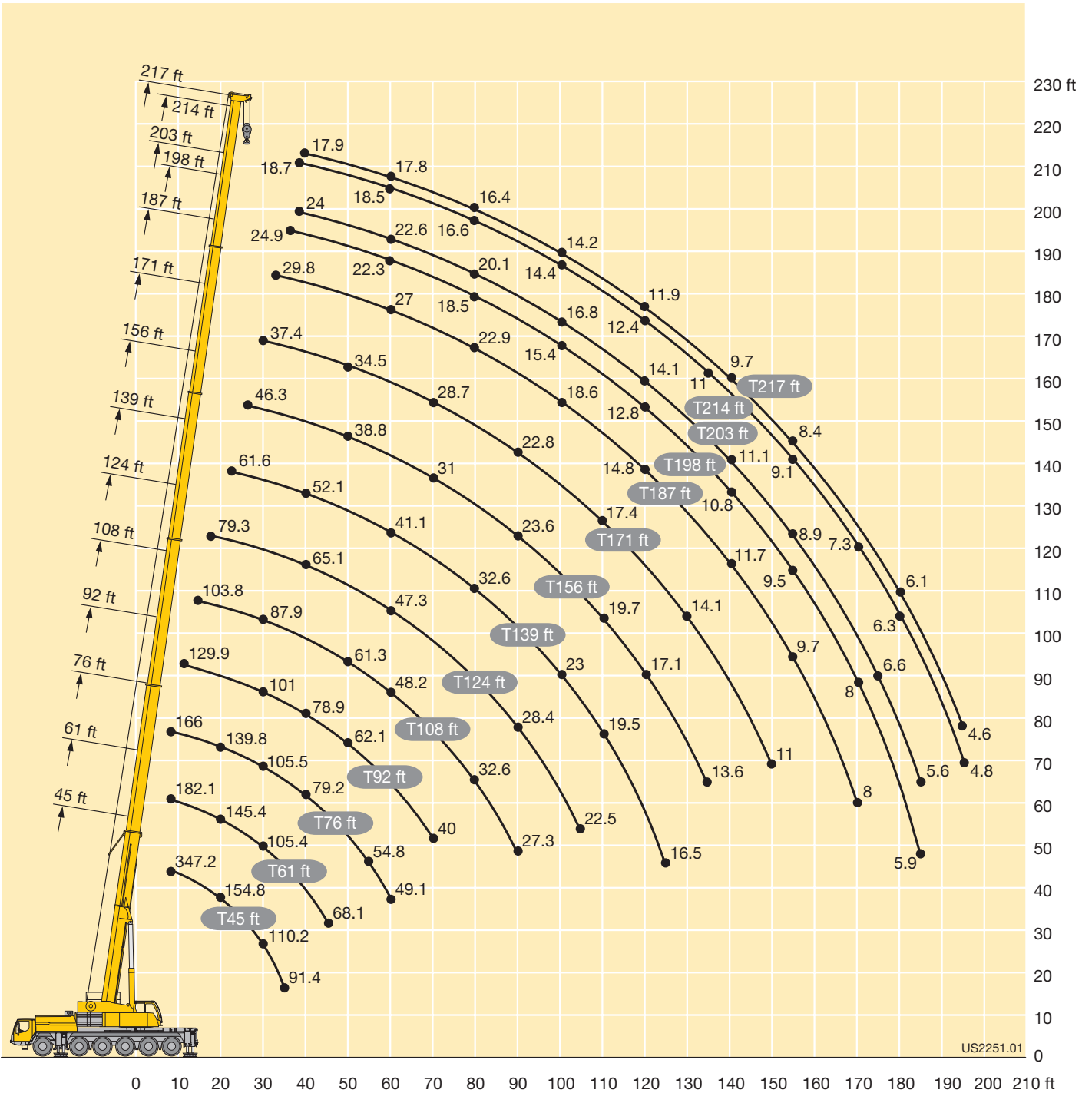
45 – 217 ft    ±60°  28200 lbs **85%**

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	120
125								8.3	7.9	6.8	5.7	5.5	4.1	4.4	125
130									7	5.9	4.8	4.8	3.3	3.7	130
135									6.2	5.2	4.1	4.1	2.6	3	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

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# Lifting capacities Forces de levage

TK/TNZK



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**



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



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°	
45	9.5			8.2			8.2									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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# Lifting capacities Forces de levage

TK/TNZK



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°	
10	38.6																		10
11	38.6																		11
12	38.6																		12
13	38.6																		13
14	38.6																		14
15	38.3																		15
16	37.7																		16
17	37.1	31.6		38.6															17
18	36.5	31		38.6															18
19	35.8	30.4		38.6															19
20	35.2	29.8		38.6			38												20
22	34.1	28.7		38.6			37.7												22
24	32.9	27.6		38.6			37.5			32.8									24
26	31.8	26.7	22.9	38.6			37.2			32.5									26
28	30.7	25.7	22.2	38.6			36.9			32.3			27.4						28
30	29.5	24.9	21.6	38.6	30.8		36.5			32			27.3						30
32	28.2	24.1	21.1	38.2	30.1		36.1	29.7		31.8			27.1			18.2			32
34	27	23.4	20.6	37.6	29.5		35.6	29.2		31.5			27			22.2			34
36	25.8	22.7	20.2	36.9	28.8		35	28.6		31.3			26.8			22.1			36
38	24.5	22.1	19.8	36.2	28.2	22.7	34.5	28.1		30.9	27		26.7			22.1			38
40	23.2	21.5	19.4	35.5	27.7	22.3	33.9	27.6	22.2	30.6	26.6		26.5			22			40
45	20.8	20.2	18.5	33.9	26.4	21.6	32.5	26.4	21.5	29.7	25.6	21.2	26	24		21.8			45
50	18.7	19.1	17.8	32.3	25.1	20.9	31	25.3	20.9	28.8	24.7	20.6	25.5	23.3	20	21.6	21.1		50
55	16.9	18.2	17.4	30.5	24.1	20.3	28.6	24.2	20.4	26.4	23.8	20.1	24.2	22.6	19.6	21.3	20.6	18.5	55
60	15.4	17.4	17.1	27.3	23.1	19.8	25	23.4	19.8	22.9	23	19.6	22	21.9	19.1	20	20.1	18.2	60
65	14.1	16.7	16.3	24	22.2	19.2	21.8	22.5	19.4	19.9	21.5	19.2	19.1	21	18.8	18.8	19.2	17.9	65
70	13.1	16.4		21.3	21.5	18.8	19.2	20.8	19	17.4	19.3	18.8	17.5	18.6	18.3	16.4	18.2	17.6	70
75				18.9	20.4	18.4	16.9	18.5	18.5	16.1	16.9	18.3	16.5	16.3	17.6	15.5	16.1	16.9	75
80				16.9	18.1	18.1	14.9	16.4	17.6	15.2	14.9	16.2	15.4	15.2	15.7	14.4	14.4	15.5	80
85				15.1	16.2	17.1	13.2	14.5	15.6	14.4	14	14.2	14	14.4	14.4	12.8	13.8	13.7	85
90				13.5	14.5	15.3	11.6	12.8	13.8	13.4	13.3	13.3	12.5	13.5	13.7	11.3	12.6	13.1	90
95				12.1	13	13.7	10.3	11.4	12.2	12.2	12.6	12.6	11.2	12.3	12.9	10.1	11.2	12.2	95
100				10.9	11.7	12.2	9	10	10.8	11	11.9	12	10	11	11.8	8.9	10	10.8	100
105				9.7	10.4	10.9	8	8.8	9.5	9.9	10.7	11.3	8.9	9.8	10.5	7.9	8.8	9.6	105
110				8.6	9.3	9.6	7	7.8	8.3	8.9	9.6	10.2	7.9	8.8	9.4	6.9	7.8	8.5	110
115				7.6	8.1	8.4	6.1	6.8	7.2	8	8.7	9.2	7.1	7.8	8.4	6	6.9	7.5	115
120				6.6	7.1	7.2	5.2	5.9	6.3	7.1	7.8	8.2	6.2	7	7.5	5.2	6	6.6	120
125				5.8	6.1	5.5	4.4	5	5.3	6.4	7	7.4	5.5	6.2	6.6	4.5	5.2	5.8	125
130				5	5.2	3.2	3.6	4.2	4.3	5.7	6.2	6.5	4.8	5.4	5.8	3.8	4.5	5	130
135				4.4			2.9	3.4	3.4	5	5.5	5.8	4.2	4.8	5.1	3.2	3.8	4.2	135
140							2.2	2.6	2.6	4.3	4.8	5	3.6	4.1	4.4	2.6	3.2	3.6	140
145								1.9		3.7	4.1	4.2	3.1	3.5	3.8	2	2.6	2.9	145
150										3.2	3.5	3.5	2.5	3	3.2		2.3		150
155										2.7	2.9	2.9	2	2.4	2.6				155
160										2.2	2.3	2.2		1.8	2				160
165										1.8	1.8								165

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# Lifting capacities Forces de levage

**TK/TNZK**



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	16.9															36
38	16.9															38
40	16.8			13.5			13.5									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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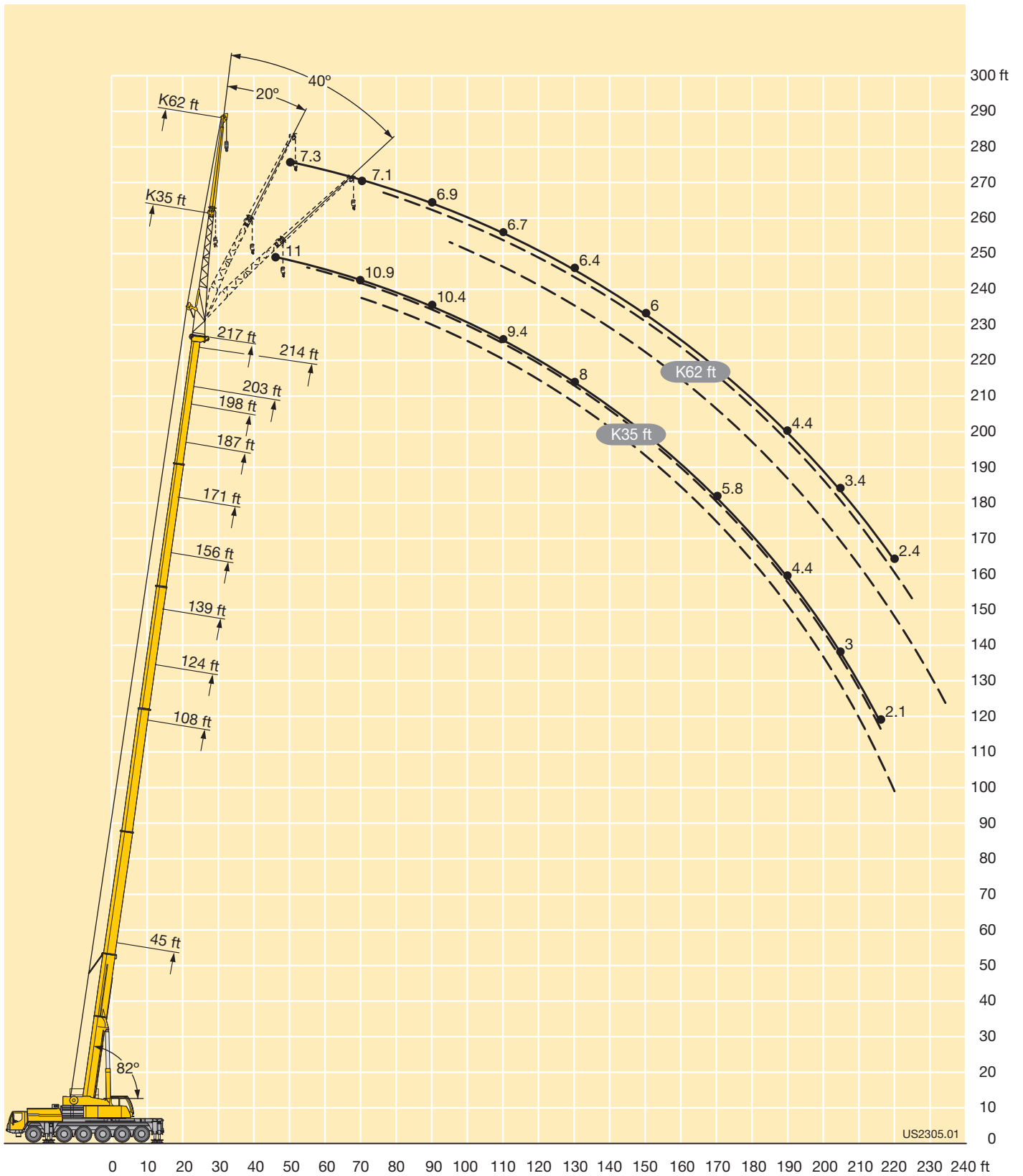
# Lifting capacities Forces de levage

**TK/TNZK**



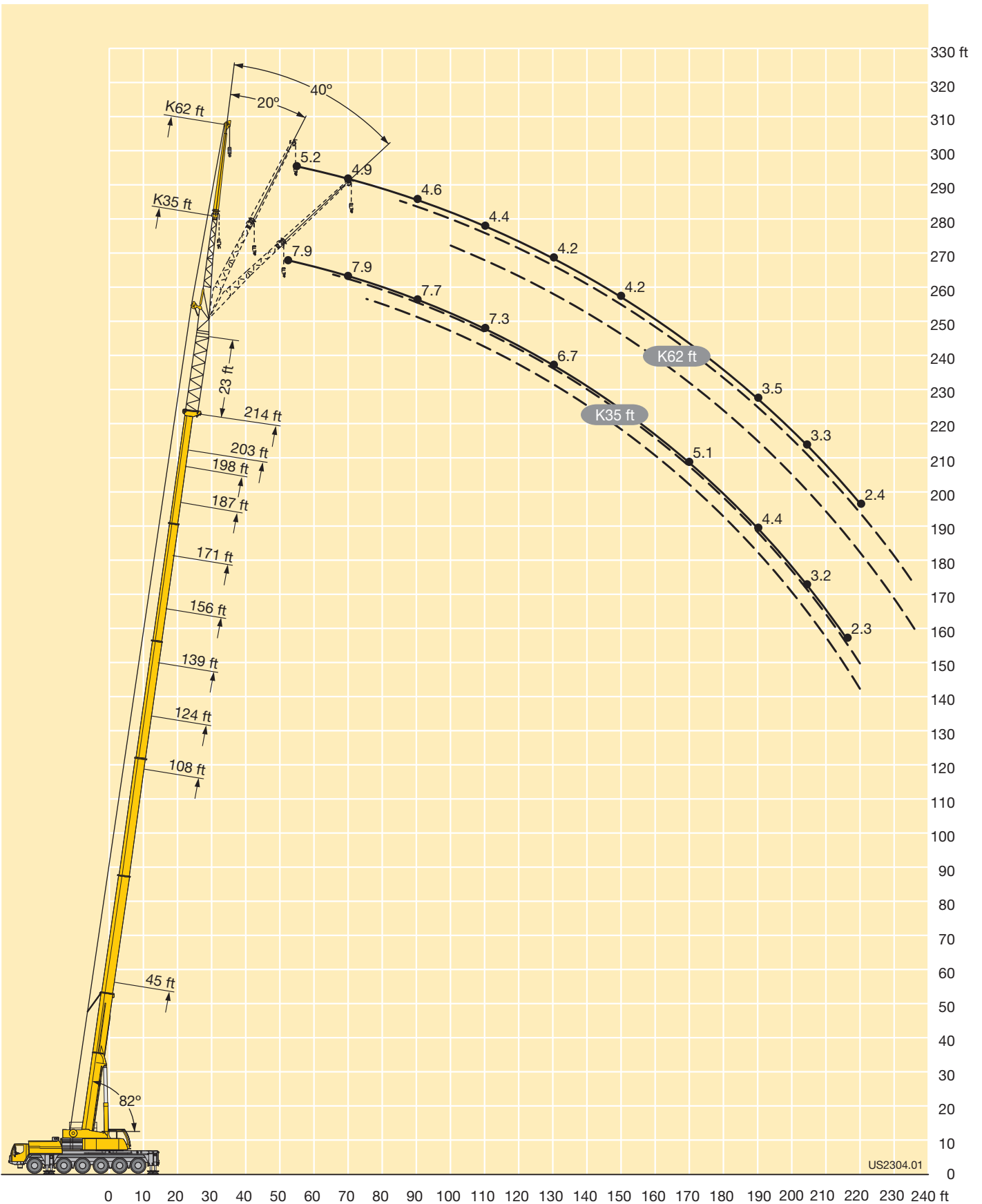
ft	187 ft			198 ft			203 ft			214 ft			217 ft			ft
	62 ft			62 ft			62 ft			62 ft			62 ft			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
40	9.5															40
45	9.4			8.2			8.3									45
50	9.3			8.2			8.2			7.4			7.2			50
55	9.2			8.1			8.1			7.3			7.2			55
60	9.1			8.1			8.1			7.3			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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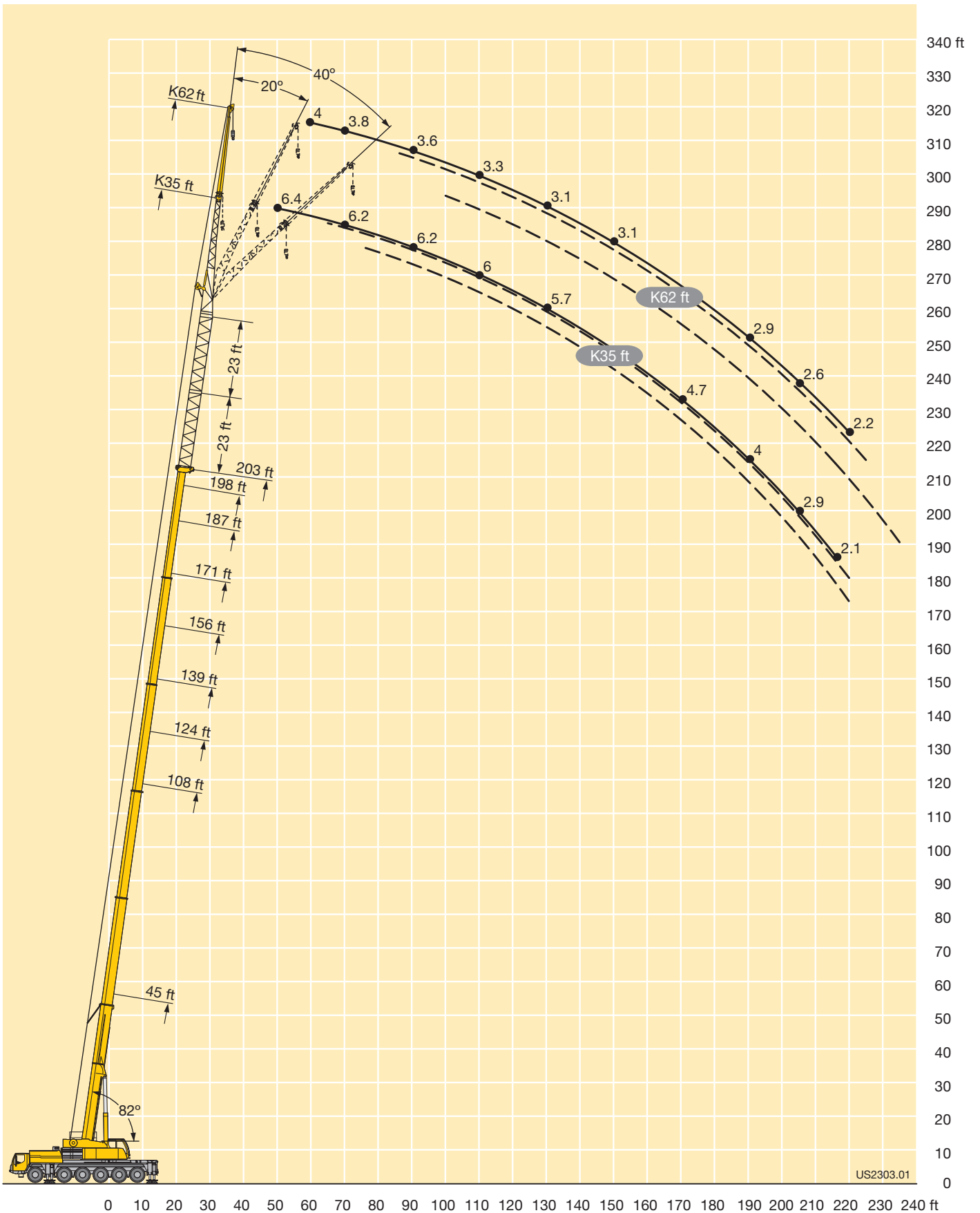
# Lifting capacities Forces de levage

**TVK/  
TVNZK**



ft	45 ft + 46 ft			156 ft + 46 ft			171 ft + 46 ft			187 ft + 46 ft			203 ft + 46 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°	
18	6.6															18
20	6.6															20
22	6.6															22
24	6.5															24
26	6.4															26
28	6.4															28
30	6.4															30
32	6.4															32
34	6.3															34
36	6.2															36
38	6.2															38
40	6.2															40
45	6.2	6.4		6.6												45
50	6	6.3		6.5			5.7									50
55	5.8	6		6.4			5.7			5.1						55
60	5.5	5.7		6.4			5.7			5			4			60
65	5.3	5.3	5.6	6.4			5.7			4.9			4			65
70	5	5.1	5.4	6.3	6.4		5.6			4.9			3.8			70
75	4.8	5	5.2	6.2	6.3		5.5	5.7		4.9	5.1		3.8			75
80	4.6	4.8	5	6.2	6.1		5.5	5.7		4.9	5.1		3.8			80
85	4.4	4.4	4.7	6.2	6		5.5	5.5		4.9	5.1		3.8	3.8		85
90	4.3	4.3	4.5	6	5.8	5.7	5.5	5.5		4.9	4.9		3.6	3.8		90
95	4	4.1	4.3	5.9	5.6	5.6	5.4	5.4	5.3	4.9	4.9	4.9	3.5	3.8		95
100	3.7	3.9	4.1	5.7	5.5	5.5	5.3	5.2	5.2	4.9	4.9	4.9	3.5	3.7	3.8	100
105	3.5	3.8	4	5.7	5.5	5.3	5.3	5.1	5.1	4.9	4.9	4.9	3.3	3.5	3.8	105
110	3.2	3.6	3.8	5.6	5.3	5.1	5.1	5.1	4.9	4.7	4.7	4.7	3.3	3.5	3.8	110
115	3	3.3	3.5	5.4	5.2	5.1	5.1	5	4.9	4.6	4.6	4.6	3.3	3.5	3.6	115
120	2.8	3	3.2	5.2	5	5	5	4.8	4.8	4.6	4.6	4.6	3.3	3.5	3.5	120
125	2.6	2.8	3.1	5.1	4.9	4.8	4.8	4.6	4.6	4.4	4.4	4.4	3.3	3.3	3.5	125
130	2.3	2.5	2.7	4.9	4.9	4.7	4.7	4.6	4.5	4.4	4.4	4.4	3.1	3.3	3.5	130
135	2.1			4.9	4.7	4.6	4.6	4.5	4.4	4.4	4.3	4.3	3.1	3.3	3.5	135
140				4.8	4.6	4.6	4.6	4.3	4.3	4.3	4.2	4.2	3.1	3.3	3.5	140
145				4.6	4.4	4.4	4.4	4.2	4.2	4.2	4.2	4.2	3.1	3.3	3.3	145
150				4.4	4.4	4.4	4.2	4.2	4.2	4.2	4	4	3.1	3.3	3.3	150
155				4.3	4.3	4.3	4.2	4.1	4.2	4.1	4	4	3.1	3.3	3.3	155
160				4.2	4.1	4.2	4.1	4	4.1	3.9	3.9	3.9	3.1	3.3	3.3	160
165				4.2	4	4.2	3.9	3.9	4	3.8	3.8	3.8	3.1	3.3	3.3	165
170				4	4	4	3.8	3.8	4	3.8	3.8	3.8	3.1	3.3	3.3	170
175				3.8	3.8	4	3.8	3.8	3.8	3.6	3.6	3.8	2.9	3.3	3.3	175
180				3.7	3.8	3.9	3.7	3.7	3.8	3.5	3.5	3.7	2.9	3.3	3.3	180
185				3.5	3.7	3.7	3.5	3.5	3.7	3.5	3.5	3.5	2.9	3.3	3.3	185
190				3.3	3.5	3.5	3.3	3.5	3.5	3.3	3.3	3.5	2.9	3.3	3.3	190
195				3.2	3.4	3.4	3.2	3.4	3.4	3.2	3.3	3.4	2.9	3.2	3.3	195
200				3	3.2	3.2	3	3.2	3.2	3.1	3.2	3.3	2.8	3.1	3.2	200
205				2.9	3	3	2.8	3	3	3	3.1	3.3	2.6	3	3.1	205
210				2.9	2.9	2.9	2.6	2.9	2.9	2.9	3.1	3.1	2.4	2.9	3.1	210
215				2.7	2.7	2.9	2.5	2.7	2.7	2.7	2.9	2.9	2.4	2.7	2.9	215
220				2.5	2.7	2.8	2.3	2.5	2.5	2.5	2.8	2.8	2.2	2.5	2.8	220
225				2.4	2.6	2.6	2.1	2.4	2.4	2.4	2.6	2.6		2.3	2.6	225
230				2.4	2.4	2.4	2	2.2	2.2	2.2	2.4	2.4			2.4	230
235				2.3	2.3	2.3	1.8	2	2	2	2.3	2.3			2.1	235
240				2.1	2.2						2.1	2.1				240

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# Lifting capacities Forces de levage

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ft	10 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	
9	76.1														9
10	76.1	76.1													10
11	76.1	76.1	76.1												11
12	76.1	76.1	76.1												12
13	76.1	76.1	76.1												13
14	76.1	76.1	76.1	76.1											14
15	76.1	76.1	76.1	76.1											15
16	76.1	76.1	76.1	76.1											16
17	76.1	76.1	76.1	76.1											17
18	76.1	76.1	76.1	76.1	76.1										18
20	76.1	76.1	76.1	76.1	76.1	76.1									20
22	76.1	76.1	76.1	76.1	76.1	72.6									22
24	76.1	76.1	76.1	76.1	76.1	71.7									24
26	76.1	76.1	76.1	76.1	76.1	70.5	54.7								26
28	76.1	76.1	76.1	76.1	76.1	69.3	54	42.4							28
30	75.8	76.1	76.1	76.1	76.1	68.1	53.2	42.2							30
32	74.6	76.1	76.1	76.1	76.1	66.9	52.4	41.7							32
34	72.8	76.1	76.1	76.1	76.1	65.6	51.6	41.1							34
36	70.6	76.1	76.1	76.1	76.1	64.2	50.7	40.6	34						36
38	67.6	76.1	76.1	76.1	74.4	63	49.9	40.1	33.7	26.7					38
40	64.1	75.3	75.3	75.3	72.5	61.8	49.1	39.5	33.5	26.7					40
45		69.4	69.4	68.9	66.8	58.6	46.9	38.2	32.9	26.5	21.7	21.4	16.8		45
50		61.5	61.8	61.1	59.4	55.4	44.6	36.8	32	26.2	21.2	21.3	16.8	16.1	50
55			54.6	53.9	53.4	51.8	41.9	35.3	30.9	25.6	20.7	21	16.7	16	55
60			48.4	48.1	48.9	47.6	38.9	33.6	29.5	24.7	20.1	20.6	16.5	15.8	60
65			43.4	44.5	44	42.7	36.1	31.8	28.2	23.7	19.3	19.9	16.3	15.7	65
70				40.7	39.9	38.6	33.7	29.8	26.7	22.7	18.4	19.3	15.9	15.4	70
75				37.1	36.2	34.9	31.4	27.8	25.3	21.8	17.6	18.6	15.4	15	75
80				33.9	33	31.7	29.2	26.1	23.9	20.9	16.8	17.9	14.9	14.6	80
85				31	30.2	28.8	27	24.6	22.6	19.9	15.9	17.2	14.4	14.1	85
90					27.8	26.5	25.8	22.9	21.4	18.9	15.2	16.6	13.9	13.6	90
95					25.5	24.2	24.6	21.3	20.2	18	14.5	15.9	13.4	13.2	95
100						22.4	23.2	19.9	19.1	17.2	13.7	15.2	12.9	12.9	100
105						21.4	21.4	18.5	18.1	16.3	13.2	14.6	12.3	12.3	105
110						20.5	19.5	17.5	16.9	15.5	12.6	13.9	11.8	11.8	110
115						19.2	18	16.5	15.7	14.8	12	13.3	11.5	11.3	115
120							16.7	15.7	14.6	14	11.5	12.8	11.1	10.8	120
125							15.4	15.2	13.4	13.2	11	12.1	10.6	10.3	125
130							14.2	14.5	12.7	12.3	10.5	11.6	10.2	9.8	130
135								13.6	12.1	11.4	10	11.1	9.9	9.3	135
140								12.6	11.5	10.6	9.6	10.5	9.5	8.9	140
145								11.6	11.2	10.1	9.2	9.8	9	8.5	145
150								10.7	10.5	9.6	8.9	9.2	8.9	8	150
155									9.8	9.2	8.5	8.5	8.5	7.7	155
160									9.1	8.8	8.2	7.9	8.1	7.3	160
165									8.4	8.3	7.9	7.4	7.6	7	165
170										7.6	7.5	6.7	7.1	6.7	170
175										7.1	7.1	6.2	6.5	6.2	175
180											6.6	5.7	5.9	5.7	180
185											6.1	5.2	5.4	5.2	185
190											5.8	4.7	4.9	4.7	190
195												4.2	4.4	4.2	195
200													3.9	3.8	200
205														3.4	205

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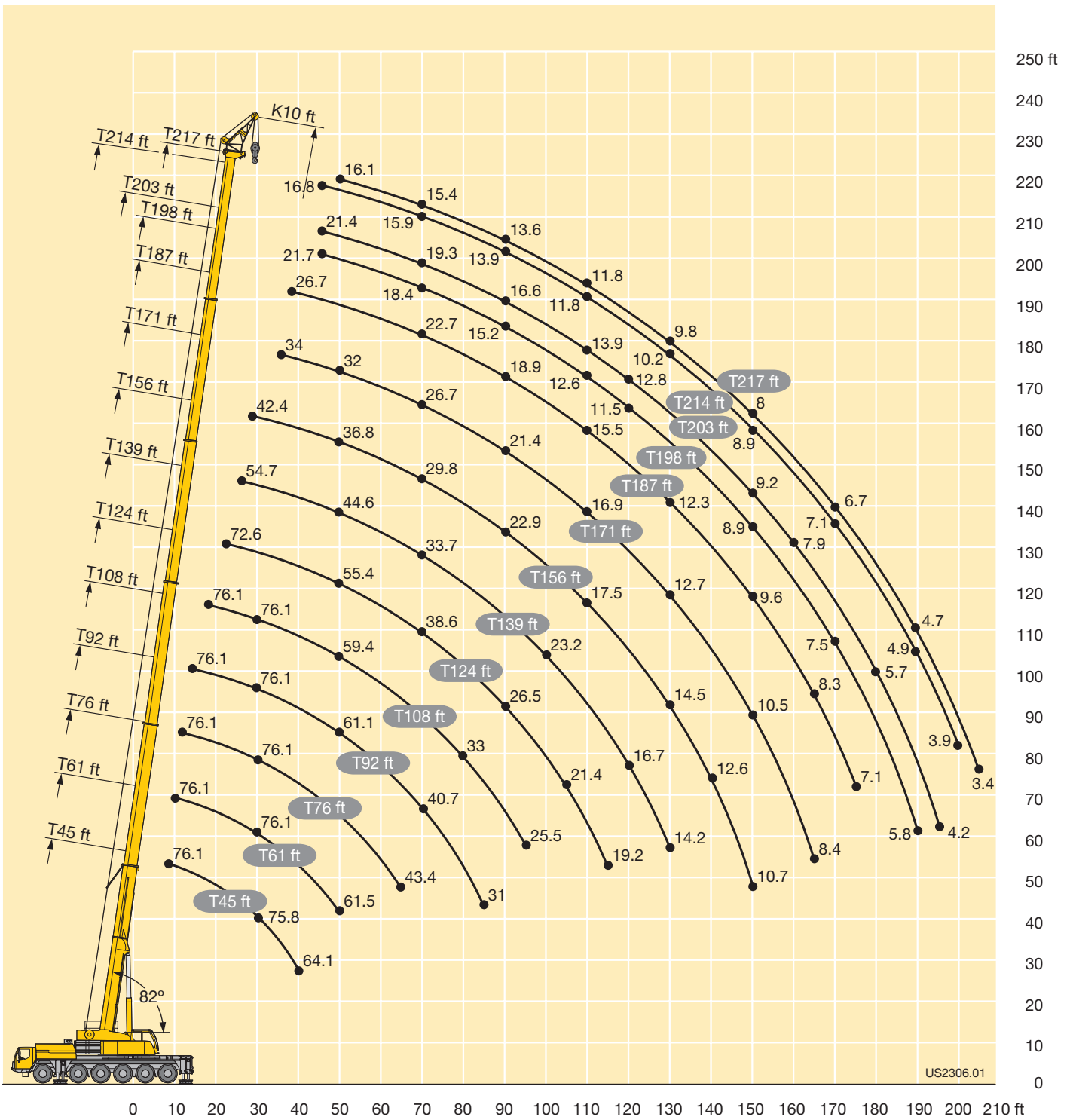
# Lifting capacities Forces de levage

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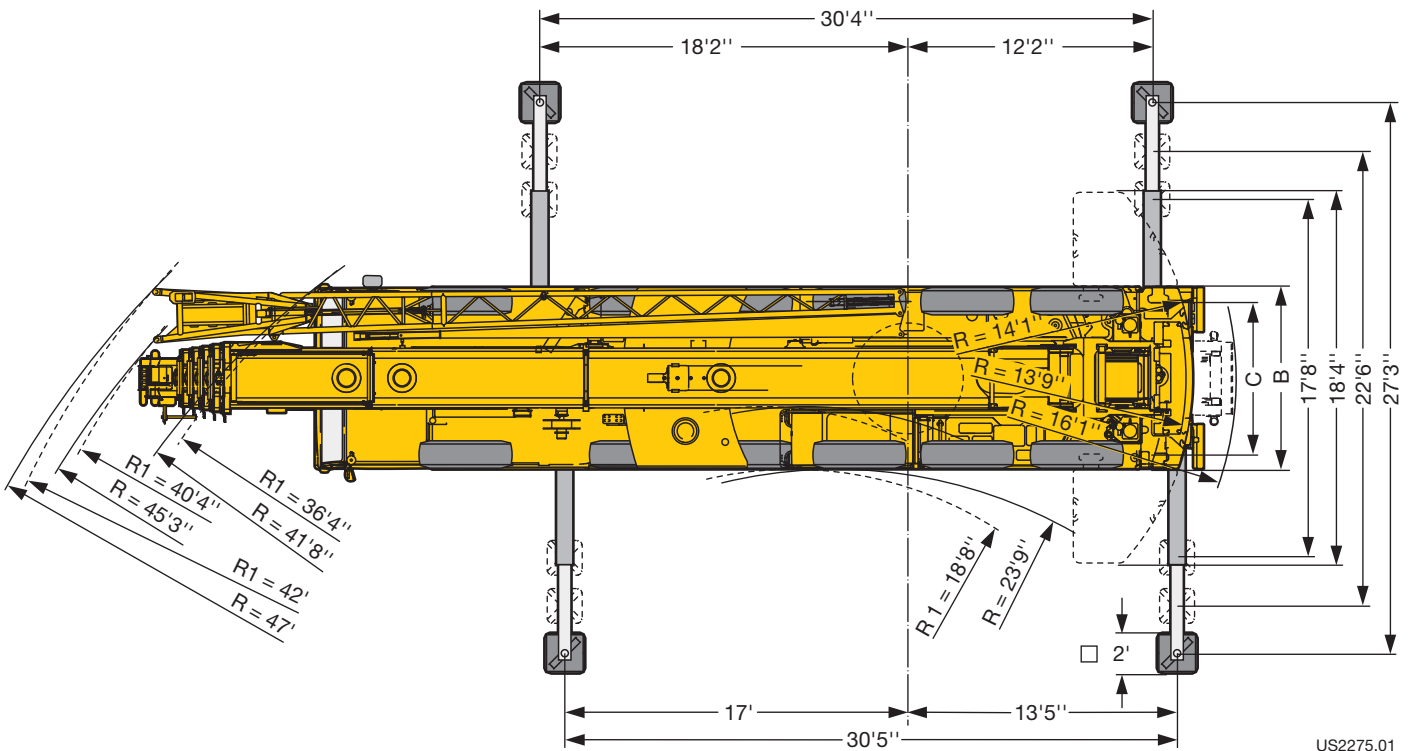
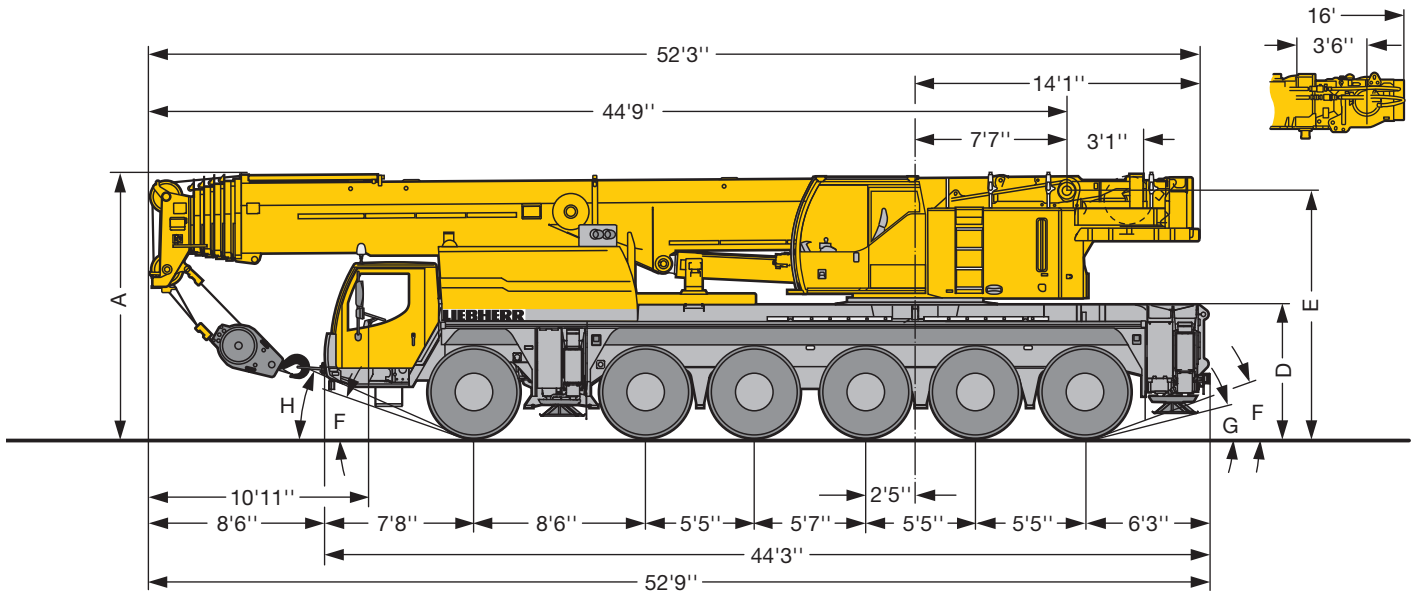


	10 ft														
	45 ft	61 ft	76 ft	92 ft	108 ft	124 ft	139 ft	156 ft	171 ft	187 ft	198 ft	203 ft	214 ft		217 ft
10	76.1	76.1													10
11	76.1	76.1													11
12	76.1	76.1	76.1												12
13	76.1	76.1	76.1												13
14	76.1	76.1	76.1												14
15	76.1	76.1	76.1	76.1											15
16	76.1	76.1	76.1	76.1											16
17	76.1	76.1	76.1	76.1											17
18	76.1	76.1	76.1	76.1											18
19	76.1	76.1	76.1	76.1	76.1										19
20	76.1	76.1	76.1	76.1	76.1	76.1									20
22	76.1	76.1	76.1	76.1	76.1	76.1	72.9								22
24	76.1	76.1	76.1	76.1	76.1	76.1	71.8								24
26	76.1	76.1	76.1	76.1	76.1	76.1	70.6	54.8							26
28	76.1	76.1	76.1	76.1	76.1	76.1	69.3	54.1							28
30	76.1	76.1	76.1	76	72.6	68.1	53.2	42.1							30
32	75	76.1	75.8	72.5	69.1	64.6	52.4	41.6							32
34	72.1	74	71.3	66.5	64.7	59.8	51.7	41.1	34						34
36	68	68.8	65.4	62.9	59.7	55.1	50.7	40.5	33.9						36
38	62.7	63.4	60.1	59	55.3	51	48.1	40	33.7	26.8					38
40	58	58.5	55.8	55.1	51.6	47.9	44.9	39.5	33.5	26.7					40
45	48	48.9	48.7	46.3	43.3	40.9	39.7	36.3	32.9	26.4	21.8	21.4	16.7	16	45
50		42.1	41.5	39.6	37	36.7	34	31	29.8	26.1	21.3	21.2	16.7	16	50
55		36.1	36	34.3	33.4	32.2	29.9	28.3	26.6	24.3	20.7	21	16.7	16	55
60		30.8	31.5	29.9	30.2	28.1	26.5	25.5	24.3	22.7	20	20.7	16.6	15.9	60
65			27.6	26.3	26.7	24.8	24.4	22.7	21.8	20.3	19.2	18.4	16.3	15.7	65
70			24.1	24.4	23.8	22.5	21.9	21	19.4	17.9	17.6	16	15.8	15.3	70
75			21.2	22.3	21.2	20.8	19.5	18.7	17.1	15.8	15.5	14	14.2	13.9	75
80				19.9	19.1	18.7	17.7	16.7	15.2	13.9	13.7	12.2	12.4	12.1	80
85				17.6	17.2	16.9	15.8	14.9	13.5	12.2	12	10.5	10.8	10.5	85
90				15.7	15.6	15.3	14.2	13.3	12	10.7	10.6	9.1	9.4	9.1	90
95					13.9	13.8	12.8	11.9	10.6	9.4	9.2	7.8	8.1	7.9	95
100					12.4	12.5	11.6	10.7	9.3	8.2	8.1	6.7	7	6.7	100
105					11.1	11.2	10.4	9.6	8.2	7.1	7	5.6	5.9	5.7	105
110					9.9	10	9.3	8.6	7.2	6.1	6.1	4.6	5	4.7	110
115						8.9	8.3	7.6	6.3	5.2	5.2	3.8	4.1	3.9	115
120						7.9	7.4	6.8	5.5	4.4	4.4	3	3.3	3.1	120
125						7.1	6.5	6	4.8	3.7	3.6	2.1	2.5	2.3	125
130							5.6	5.2	4.1	3	2.9				130
135							4.9	4.5	3.4	2.3	2.3				135
140							4.2	3.8	2.8						140
145								3.1	2.1						145
150								2.6							150
155								2							155

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# Dimensions Encombremet



US2275.01

R<sub>i</sub> = All-wheel steering · Direction toutes roues

	Dimensions · Encombremet							
	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 <sup>1)</sup>

<sup>1)</sup> 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)	mph	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

<b>Frame</b>	Self-manufactured, torsion-resistant box-type design of high-tensile fine grained structural steel.
<b>Outriggers</b>	4-point supporting system, hydraulically telescopic into horizontal and vertical direction. Operation with remote control, automatic support leveling, electronic inclination display.
<b>Engine</b>	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.
<b>Transmission</b>	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.
<b>Axles</b>	Welded design, made of high-tensile fine grained steel. All axles steerable. Axles 2, 4 and 5 are planetary axles with differential locks.
<b>Cardan shaft</b>	All cardan shafts with 70° diagonal toothing and maintenance free.
<b>Suspension</b>	All axles are hydro-pneumatically suspended with automatic leveling. Suspension hydraulically lockable.
<b>Tyre equipment</b>	12 tyres, all axles equipped with single tyres. Size of tyres: 445/95 R 25 (16.00 R 25).
<b>Steering</b>	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.
<b>Brakes</b>	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.
<b>Driving cab</b>	Spacious and comfortable sheet steel cab mounted on rubber shock absorbers, safety glass windows.
<b>Electrical system</b>	Modern data bus technique, 24 Volt DC, 2 batteries of 170 Ah each, lighting according to traffic regulations.

### Crane superstructure

<b>Frame</b>	Liebherr-manufactured, torsionally rigid steel construction made from high-tensile fine-grain steel. Triple-roller slewing rim.
<b>Crane engine</b>	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.
<b>Crane drive</b>	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.
<b>Control</b>	Electric „Load Sensing“ control, simultaneous operation of 4 working motions, 2 self-centering hand control levers (joy-stick type).
<b>Hoist gear</b>	Axial piston fixed displacement motor, hoist drum with integrated planetary gear and spring-loaded static brake.
<b>Luffing gear</b>	2 differential hydraulic rams with nonreturn valve.
<b>Slewing gear</b>	Axial piston fixed displacement motor, planetary gear, spring-loaded static brake. Slewing gear invertible from released to locked as standard feature.
<b>Crane cab</b>	All-steel construction, entirely galvanized, powder coated, with safety glazing, operating and control instruments, comfortably equipped, cab tiltable backwards.
<b>Safety devices</b>	LICCON2 safe load indicator, test system, hoist limit switch, safety valves to prevent pipe and hose ruptures.
<b>Telescopic boom</b>	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.
<b>Counterweight</b>	67900 lbs basic counterweight.
<b>Electrical system</b>	Modern data bus technique, 24 Volt DC, 2 batteries of 170 Ah each.

### Additional equipment

<b>Swing-away jib</b>	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).
<b>Telescopic boom extension</b>	23 ft – 46 ft long lattice section, thus higher pinning point for swing-away jib.
<b>2<sup>nd</sup> hoist gear</b>	For two-hook operation or for operation with swing-away jib if the hoist rope shall remain reeved.
<b>Tyre equipment</b>	12 tyres, size 525/80 R 25 (20.5 R 25).
<b>Drive 12 x 8</b>	Additional drive of the 1 <sup>st</sup> axle.
<b>Additional counterweight</b>	35300 lbs for a total counterweight of 103200 lbs.

Other items of equipment available on request.

## Châssis porteur

<b>Châssis</b>	Châssis résistant à la torsion de fabrication Liebherr, en acier à grains fins très résistant.
<b>Stabilisateurs</b>	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.
<b>Moteur</b>	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.
<b>Boîte de vitesse</b>	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.
<b>Essieux</b>	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.
<b>Arbres articulés</b>	Tous les flasques de croisillons avec denture en croix 70° et sans entretien.
<b>Suspension</b>	Tous les essieux sont à suspension hydro-pneumatique avec mise à niveau automatique. Suspension blocable hydrauliquement.
<b>Pneumatiques</b>	12 roues à monte simple. Taille: 445/95 R 25 (16.00 R 25).
<b>Direction</b>	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.
<b>Freins</b>	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.
<b>Cabine</b>	Cabine spacieuse, en tôle d'acier, équipée «grand confort», suspendue sur silent blocs, vitrage de sécurité.
<b>Installation électrique</b>	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

<b>Cadre</b>	Fabrication Liebherr, construction soudée indéformable, en acier à grain fin haute résistance. Couronne d'orientation à triple rangée de rouleaux.
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<b>Moteur</b>	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.
<b>Entraînement de la grue</b>	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.
<b>Commande</b>	Direction électrique "Load Sensing", 4 mouvements de travail dirigeable simultanément, deux leviers de commande à 4 positions et à autocentrage.
<b>Mécanisme de levage</b>	Moteur à cylindrée constante et à pistons axiaux. Treuil équipé d'un engrenage planétaire et d'un frein d'arrêt commandé par ressort.
<b>Relevage de flèche</b>	2 vérin hydraulique différentiel avec clapet anti-retour de sécurité.
<b>Dispositif de rotation</b>	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.
<b>Cabine du grutier</b>	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.
<b>Dispositif de sécurité</b>	Contrôleur de charge, «LICCON2», système test, limitation de la course pour le levage, soupape de sûreté contre la rupture de tubes et de tuyaux.
<b>Flèche télescopique</b>	Flèche télescopique en acier à haute résistance à grains fins, à profil ovale, 1 élément de base et 5 éléments télescopiques. Tous les éléments télescopiques indépendamment les uns des autres. Système de télescopage séquentiel rapide, «Telematik». Longueur de flèche: 45 ft – 217 ft.
<b>Contrepoids</b>	Plaque de base 67900 lbs.
<b>Installation électrique</b>	Technique moderne de transmission de données. Courant continu 24 Volts, 2 batteries de 170 Ah chacune.

## Équipement supplémentaire

<b>Fléchette pliante</b>	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).
<b>Rallonge flèche télescopique</b>	Élément en treillis de 23 ft – 46 ft, de cette manière point d'articulation plus haute pour la flèche pliante.
<b>2ème mécanisme de levage</b>	Pour l'utilisation du deuxième crochet, ou bien pour une utilisation avec fléchette pliante lorsque le câble de levage principal rest mouflé.
<b>Pneumatiques</b>	12 pneus. Taille 525/80 R 25 (20.5 R 25).
<b>Entraînement 12 x 8</b>	Essieu 1 est entraîné additionnellement.
<b>Contrepoids additionnel</b>	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 m<sup>2</sup> 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 m<sup>2</sup> 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.

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