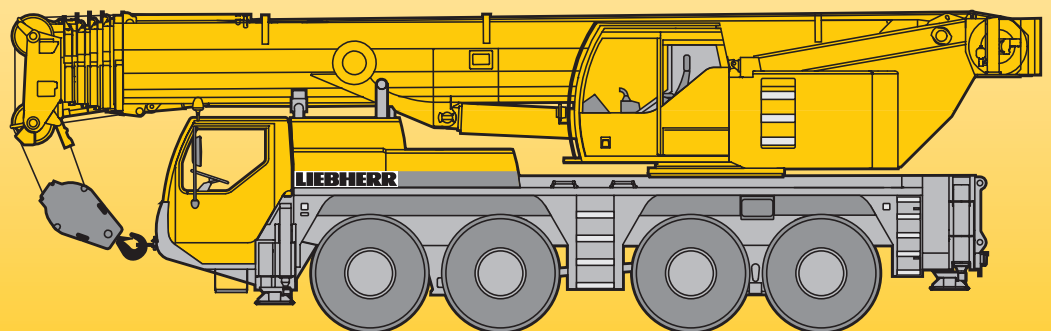




Mobile Crane Grue automotrice

LTM 1100-4.1

Technical Data Caractéristiques techniques



LIEBHERR



Lifting capacities on telescopic boom
Forces de levage à la flèche télescopique

38 – 171 ft

360°

48500 lbs

85%

	38 ft		50 ft	62 ft	74 ft	87 ft	99 ft	111 ft	123 ft	135 ft	148 ft	160 ft	171 ft	
ft	*													ft
8	238													8
9	230	201												9
10	217	199												10
11	205	188												11
12	194	178	168	143										12
13	184	168	167	143										13
14	175	160	160	144	136	113								14
15	166	152	152	144	136	113								15
16	155	145	146	140	132	112	92.5							16
17	146	139	139	136	129	111	92							17
18	138	132	133	131	125	109	90.5	73.5	61					18
20	122	120	120	120	117	105	88	73	61					20
22	110	108	109	109	105	99	85.5	70.5	59.7	49.3				22
24	99	98	99.5	98.5	95.5	92	83	68	58.2	48.9				24
26	90	89	90.5	89.5	87.5	84.5	80	65	56.5	48	42.7			26
28			83	81.5	81.5	77.5	73.5	62.5	54.5	46.9	42.2	32.9		28
30			76	75	75.5	71.5	67.5	60	52.5	45.7	41.5	32.8		30
32			70	69.5	69.5	66	62.5	57.7	50.6	44.2	40.7	32.2	26	32
34			65	65	64.5	61.5	58	54.9	48.6	42.7	39.6	31.7	25.7	34
36			61	61.5	60.5	57.3	54.4	51.8	46.7	41.3	38.4	31.1	25.3	36
38			56.9	57.7	56	53.2	50.7	48.7	44.8	39.9	37.2	30.6	24.8	38
40				54.1	52.2	49.6	47.5	45.9	42.9	38.5	36.1	30.1	24.4	40
45				45.8	44.9	42.6	41.6	40.3	37.8	35.4	33.5	28.8	23.3	45
50				39.2	39	37.1	37.1	35.4	33.2	32.2	30.5	27.6	22.3	50
55					34	32.8	33	31.3	29.6	28.9	27.9	26.2	21.5	55
60						29.3	29.4	28.1	26.9	25.8	25.7	24.5	20.6	60
65						25.8	26.3	25.4	24.4	24	23.3	21.8	19.7	65
70						22.9	23.5	23.3	22.1	21.9	21	19.6	18.6	70
75							21	21.3	20.3	19.9	19	17.7	17.2	75
80							19.2	19.2	18.8	18.1	17.2	15.9	15.7	80
85							18	17.2	16.9	16.2	15.5	14.4	14.2	85
90								15.8	15.4	14.6	13.9	12.9	12.7	90
95								14.5	13.9	13.2	12.5	11.6	11.5	95
100									12.7	12	11.4	10.5	10.4	100
105									11.7	11	10.4	9.5	9.4	105
110									10.9	10.1	9.5	8.6	8.5	110
115										9.3	8.7	7.8	7.7	115
120										8.6	8	7.1	7	120
125											7.3	6.4	6.3	125
130											6.7	5.8	5.7	130
135											6.1	5.2	5.1	135
140												4.6	4.6	140
145													4	145
150													3.5	150
155													2.9	155

* over rear / en arrière

TAB 140190 / 140437

Remarks referring to load charts

1. The tabulated lifting capacities do not exceed 85% of the tipping load.

2. The crane's structural steelwork is in accordance with DIN 15018, part 3. Design and construction of the crane comply with DIN 15018, part 2, and with F. E. M. regulations.

3. The 85% overturning limit values take into account wind force 5 = wind speed 20 mph.

4. Lifting capacities are given in kips.

5. The weight of the hook blocks and hooks must be deducted from the lifting capacities.

6. Working radii are measured from the slewing centreline.

7. The lifting capacities given for the telescopic boom only apply if the folding jib is taken off.

8. Lifting capacities are subject to modifications.

9. Lifting capacities above 183 kips only with special equipment.

2

LTM 1100-4.1



Lifting capacities on telescopic boom
Forces de levage à la flèche télescopique

38 – 171 ft

85%

ft	38 ft	50 ft	62 ft	74 ft	87 ft	99 ft	111 ft	123 ft	135 ft	148 ft	160 ft	171 ft	ft
9	197												9
10	195												10
11	184	168											11
12	174	167	143										12
13	165	164	143										13
14	156	156	144	136	113								14
15	147	147	143	134	113								15
16	139	139	136	124	112	92.5							16
17	131	131	127	117	108	91.5							17
18	123	124	118	110	103	89.5	73.5	61					18
20	108	109	100	98	91.5	84.5	72.5	61					20
22	96.5	95.5	90.5	86.5	81	75.5	68.5	59.7	49.3				22
24	86.5	84	81.5	77	72	67.5	63.5	57.2	48.9				24
26	77.5	75	72.5	69	65	61	57.7	53.7	48	42.7			26
28		68	65.5	62.5	59	56.4	53.7	50.1	46.1	42.2	32.9		28
30		61.5	59.6	57	53.8	52.1	50	46.7	44	41.2	32.8		30
32		56.2	54.6	52.3	49.8	48.8	46.1	43.4	41.6	39.1	32.2	26	32
34		51.7	50.5	48.4	46.3	45.6	43	40.6	39.1	37.1	31.7	25.7	34
36		47.5	47	45.1	43.1	42.6	40.4	38.2	36.6	35.2	31.1	25.3	36
38		43.4	43.5	41.7	39.9	39.5	37.8	35.8	34	33.3	30.6	24.8	38
40			40.3	38.8	37	36.8	35.4	33.6	31.8	31.4	29.7	24.4	40
45			34	34.3	31.5	31.5	31	29.9	28.4	27.1	25.4	23.3	45
50			29	29.8	27.1	28	27.1	26.1	24.8	23.5	21.8	21	50
55				25.7	23.8	24.9	23.7	22.7	21.6	20.4	18.8	18.5	55
60					21.6	21.9	20.8	19.9	18.9	17.8	16.3	16	60
65					19.2	19.2	18.4	17.6	16.6	15.6	14.2	14	65
70					16.9	16.9	16.3	15.7	14.8	13.8	12.5	12.2	70
75						15	14.3	13.8	13	12.2	10.9	10.7	75
80						13.3	12.6	12.1	11.5	10.8	9.6	9.4	80
85						11.9	11.3	10.8	10.2	9.5	8.4	8.2	85
90							10.2	9.7	9.1	8.4	7.3	7.2	90
95							9.2	8.7	8.1	7.4	6.4	6.2	95
100								7.9	7.2	6.6	5.5	5.4	100
105								7.1	6.4	5.8	4.8	4.6	105
110								6.4	5.7	5.1	4.1	4	110
115									5.1	4.5	3.5	3.3	115
120									4.4	3.9	2.9	2.8	120
125										3.3			125
130										2.7			130
135										2.2			135

TAB 140307

Remarques relatives aux tableaux des charges

1. Les forces de levage indiquées ne dépassent pas 85% de la charge de basculement.
2. La norme DIN 15018, 3ème partie est appliquée pour les charpentes. La construction de la grue est réalisée conformément à la norme DIN 15018, 2ème partie, et aux règles de la F. E. M.
3. A 85% de la charge de basculement, il a été tenu compte d'un vent de force 5 = vitesse de vent 20 mph.
4. Les forces de levage sont données en kips.
5. Les poids des moufles et crochets doit être soustrait des charges indiquées.
6. Les portées sont calculées à partir de l'axe de rotation.
7. Les forces indiquées pour la flèche télescopique s'entendent fléchette déployée.
8. Les forces de levage sont modifiables sans préavis.
9. Forces de levage plus de 183 kips seulement avec équipement supplémentaire.



Lifting capacities on telescopic boom
Forces de levage à la flèche télescopique

38 – 171 ft 360° 17600 lbs 85%																											
ft	38 ft	50 ft	62 ft	74 ft	87 ft	99 ft	111 ft	123 ft	135 ft	148 ft	160 ft	171 ft	ft														
9	178												9														
10	176												10														
11	167	152											11														
12	157	151	130										12														
13	148	147	130	124									13														
14	140	140	129	121	103								14														
15	132	131	126	115	102								15														
16	123	123	117	106	97.5	84.5							16														
17	115	116	109	99	93	82.5							17														
18	108	109	101	94	88	79	66.5	55.6					18														
20	94.5	95	86	84.5	78	72	65.5	55.4					20														
22	84	83	78.5	75	69.5	64.5	59.9	53.6	44.8				22														
24	73.5	73.5	71	66.5	62	58.2	55	50.8	44.3				24														
26	63	66	63.5	59.8	55.9	52.5	50.9	47	43.4	38.9			26														
28		58.5	57.5	54.5	51.2	49.1	46.8	43.3	41	37.6	29.9		28														
30		51.6	52.1	49.6	47	46	43	39.9	38.3	35.9	29.8		30														
32		46.2	47.4	45.5	43.2	42.4	40.2	37.6	35.5	33	29.3	23.6	32														
34		41.9	43.3	42.2	40	39.4	37.6	35.4	33.2	31	28.3	23.4	34														
36		38.3	39.7	39.4	37.2	36.7	35	33.3	31.4	29.5	27.1	23	36														
38		34.7	36.1	36.6	34.3	34	32.4	31.3	29.6	28	25.9	22.6	38														
40			32.9	33.9	31.8	31.6	30.2	29.3	27.9	26.5	24.5	22.1	40														
45			27.1	28.4	26.7	27.6	26.5	25.3	23.9	22.5	20.8	20	45														
50			22.7	23.9	23.5	24	23	21.9	20.7	19.4	17.8	17.3	50														
55				20.3	20.5	20.8	20	19	17.9	16.7	15.2	14.8	55														
60					17.6	17.8	17.5	16.6	15.6	14.5	13.1	12.7	60														
65					15.3	15.5	15.2	14.6	13.6	12.6	11.3	11	65														
70					13.4	13.6	13.2	12.7	11.9	11	9.8	9.5	70														
75						12	11.5	11.1	10.5	9.7	8.4	8.2	75														
80						10.6	10.2	9.8	9.2	8.4	7.2	7	80														
85						9.4	9	8.6	8	7.4	6.2	6	85														
90							7.9	7.6	7.1	6.4	5.3	5.1	90														
95							7	6.7	6.2	5.6	4.5	4.3	95														
100								5.9	5.4	4.8	3.7	3.6	100														
105								5.1	4.6	4.1			105														
110								4.5	4	3.4			110														
115									3.4	2.9			115														
120									2.8				120														

TAB 140313

TAB 140313

38 – 171 ft  360° 4900 lbs 85%													
 ft	38 ft	50 ft	62 ft	74 ft	87 ft	99 ft	111 ft	123 ft	135 ft	148 ft	160 ft	171 ft	 ft
9	176												9
10	174	151	129										10
12	154	150	128	114									12
14	134	131	117	105	94.5								14
16	116	108	97	92.5	85.5	75							16
18	99	93	85	81	74	67.5	56.5	52.6					18
21	77	73	70.5	65.5	60.5	56.1	52.9	48.9	41.8				21
24	60.5	60.5	58.1	54.6	51.1	49.5	45.7	42.8	39.7	33.2			24
27		50.5	49	46.2	43.3	42.2	39.7	36.7	34.1	32.5	27.6		27
30		41.9	41.7	41.4	37.1	36.4	35.2	33.5	31.3	29.5	27.1	23.1	30
33		35.1	36.4	36	32.2	33.1	31.4	29.6	27.8	25.9	23.8	23	33
36		30.3	31.8	32.1	29.5	29.8	28.2	26.6	24.9	23.2	21.2	20.5	36
39		25.5	27.1	28.2	27.1	26.4	24.9	23.5	22.1	20.6	18.7	18.1	39
45			20.9	22.1	22.1	21.5	20.2	19.1	17.9	16.6	14.9	14.5	45
51			16.5	17.7	17.9	17.8	16.7	15.7	14.6	13.5	12	11.6	51
57				14.4	14.6	14.7	13.9	13	12.1	11	9.6	9.4	57
63					12.1	12.2	11.6	10.9	10	9	7.7	7.5	63
69					10	10.2	9.6	9.1	8.3	7.4	6.2	6	69
75						8.6	8.1	7.7	6.9	6	4.8	4.6	75
81						7.1	6.8	6.4	5.7	4.8			81
87							5.6	5.3	4.6	3.8			87
93							4.6	4.3	3.7				93
99								3.5					99
105								2.7					105
111								2.1					111

TAB 140316

TAB 140316



Lifting capacities on telescopic boom
Forces de levage à la flèche télescopique

38 – 62 ft  0° 48500 lbs 85%				
 ft	38 ft	50 ft	62 ft	 ft
9	55.6			9
10	55			10
11	51.5	51.9	53.2	11
12	48.2	50.4	51.6	12
13	45.2	47.4	48.6	13
14	42.6	44.8	46	14
15	40.1	42.3	43.6	15
16	37.9	40.1	41.3	16
17	35.9	38.1	39.3	17
18	34.1	36.3	37.5	18
20	30.5	32.7	34	20
22	27.6	29.8	31.1	22
24	25	27.2	28.5	24
26	22.7	24.9	26.1	26
28		22.9	24.1	28
30		21	22.3	30
32		19.4	20.6	32
34		18	19.2	34
36		16.7	17.9	36
38		15.4	16.6	38
40			15.5	40
45			13	45
50			11.1	50

0° = over rear / en arrière

tyre size / dimensions de pneumatiques: 16.00 R 25 / 20.5 R 25

TAB 140178

38 – 62 ft  0° 25400 lbs 85%				
 ft	38 ft	50 ft	62 ft	 ft
9	51.8			9
10	51.3			10
11	48	48.5	49.7	11
12	44.9	47	48.3	12
13	42	44.2	45.4	13
14	39.6	41.7	43	14
15	37.2	39.4	40.6	15
16	35.1	37.3	38.5	16
17	33.2	35.4	36.6	17
18	31.5	33.7	34.9	18
20	28.1	30.3	31.6	20
22	25	27.6	28.8	22
24	22	24.8	26.2	24
26	18.8	21.9	23.7	26
28		19.4	21.2	28
30		17.1	18.9	30
32		15.2	16.9	32
34		13.5	15.2	34
36		12.1	13.8	36
38		10.7	12.3	38
40			11	40
45			8.5	45
50			6.6	50

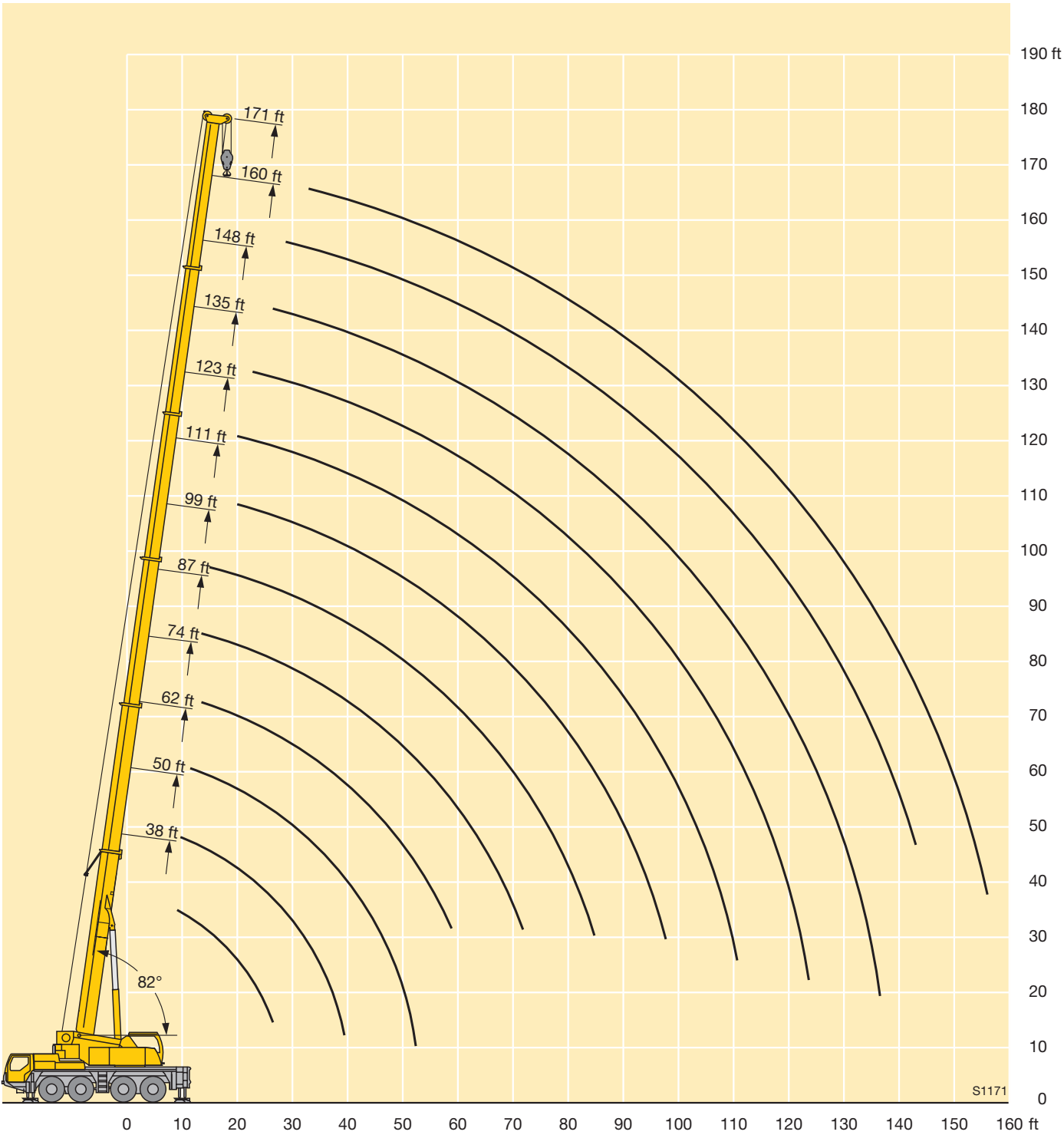
0° = over rear / en arrière

tyre size / dimensions de pneumatiques: 16.00 R 25 / 20.5 R 25

TAB 140179



Lifting heights
Hauteurs de levage





Lifting capacities on the folding jib
Forces de levage à la flèche pliante

		38 ft			123 ft			135 ft			148 ft			160 ft			171 ft									
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°							
9	30.9																			9						
10	30.8																			10						
11	30.3																			11						
12	29.9																			12						
13	29.4																			13						
14	28.8																			14						
15	28.3																			15						
16	27.7	26.9																		16						
17	27.1	26.6																		17						
18	26.6	26																		18						
20	25.3	25																		20						
22	24	23.9			33															22						
24	22.7	22.9			32.7															24						
26	21.5	21.9	20.9		32.2			29.3												26						
28	20.3	21.1	20.2	31.7				29			23.3			18.9						28						
30	19.2	20.2	19.5	31.2				28.6			23.2			18.8						30						
32	18.3	19.5	18.8	30.8				28.3			22.9			18.5			15.2			32						
34	17.4	18.7	18.2	30.4				28			22.5			18.2			15			34						
36	16.7	18	17.7	29.9				27.7			22.2			17.9			14.8			36						
38	15.9	17.3	17.1	29.5	25.6			27.4	24.5		21.9			17.6			14.5			38						
40	15.1	16.5	16.6	29	25.5			27	24.4		21.6			17.3			14.2			40						
45	13.6	14.7	15.5	27.7	24.3	21		26.1	23.5		20.8	19.4		16.8	16		13.6	12.9		45						
50	12.2	13.2	14	26.4	23.2	20.3		24.9	22.7	19.7	20.1	18.8	17.9	16.2	15.4		13.1	12.5		50						
55	11.2	11.9	12.9	25	22.1	19.5		23.5	21.8	19.4	19.3	18.1	17.5	15.6	14.8	14	12.6	12	11.5	55						
60				23.4	21.1	18.8		22	20.9	18.7	18.5	17.4	16.8	15	14.3	14	12.1	11.6	11.4	60						
65				21.4	20.2	18.1		19.9	20.1	18.1	17.8	16.7	16.2	14.4	13.7	13.5	11.7	11.2	11	65						
70				19.3	19.4	17.6		18	18.9	17.6	17.1	16.1	15.6	13.9	13.3	13.1	11.2	10.8	10.6	70						
75				17.4	18.2	17		16.6	17.2	17.1	15.8	15.5	15.1	13.4	12.8	12.7	10.8	10.4	10.3	75						
80				15.6	16.7	16.5		15.5	15.6	16.3	14.2	14.8	14.6	12.9	12.4	12.3	10.5	10	9.9	80						
85				14.1	15.1	15.8		14	14.6	14.7	12.8	13.8	14.1	12.5	12	11.9	10.1	9.7	9.6	85						
90				12.8	13.7	14.4		12.7	13.5	13.9	12.2	12.4	13.1	11.5	11.7	11.6	9.7	9.4	9.3	90						
95				11.8	12.4	13		11.8	12.3	12.9	11.5	11.6	12	10.4	11.1	11.3	9.4	9.1	9	95						
100				11.1	11.3	11.7		11.2	11.3	11.8	10.5	11	11.1	9.4	10.2	10.8	8.9	8.8	8.7	100						
105				10.6	10.5	10.6		10.5	10.7	10.7	9.6	10.3	10.8	8.5	9.2	9.9	8.2	8.5	8.5	105						
110				10.1	10.1	10.1		9.6	10	10.3	8.7	9.4	9.9	7.6	8.3	8.9	7.3	8	8.3	110						
115				9.5	9.7	9.8		8.7	9.2	9.6	7.9	8.5	9	6.9	7.5	8	6.6	7.3	7.7	115						
120				8.7	9.1	9.3		8	8.4	8.7	7.2	7.8	8.2	6.1	6.8	7.2	5.9	6.5	7	120						
125				8	8.3	8.5		7.3	7.7	7.9	6.6	7.1	7.4	5.5	6	6.5	5.2	5.8	6.3	125						
130				7.4	7.7	7.8		6.7	7	7.2	6	6.4	6.7	4.9	5.4	5.8	4.6	5.2	5.6	130						
135				6.8	7	7.1		6.1	6.4	6.6	5.4	5.8	6.1	4.3	4.8	5.1	4.1	4.6	5	135						
140				6.2	6.4			5.5	5.8	5.9	4.8	5.2	5.4	3.8	4.3	4.5	3.5	4	4.4	140						
145								4.9	5.2		4.3	4.6	4.8	3.3	3.7	4	3.1	3.5	3.8	145						
150								4.4	4.6		3.8	4.1	4.2	2.8	3.2	3.5	2.6	3	3.3	150						
155								4	4.1		3.3	3.6	3.6	2.4	2.7	2.9	2.2	2.6	2.8	155						
160											2.8	3.1			2.3	2.4		2.2	2.3	160						
165											2.5									165						
170											2.1									170						

TAB 140431 / 140433 / 140435

TAB 140431 / 140433 / 140435



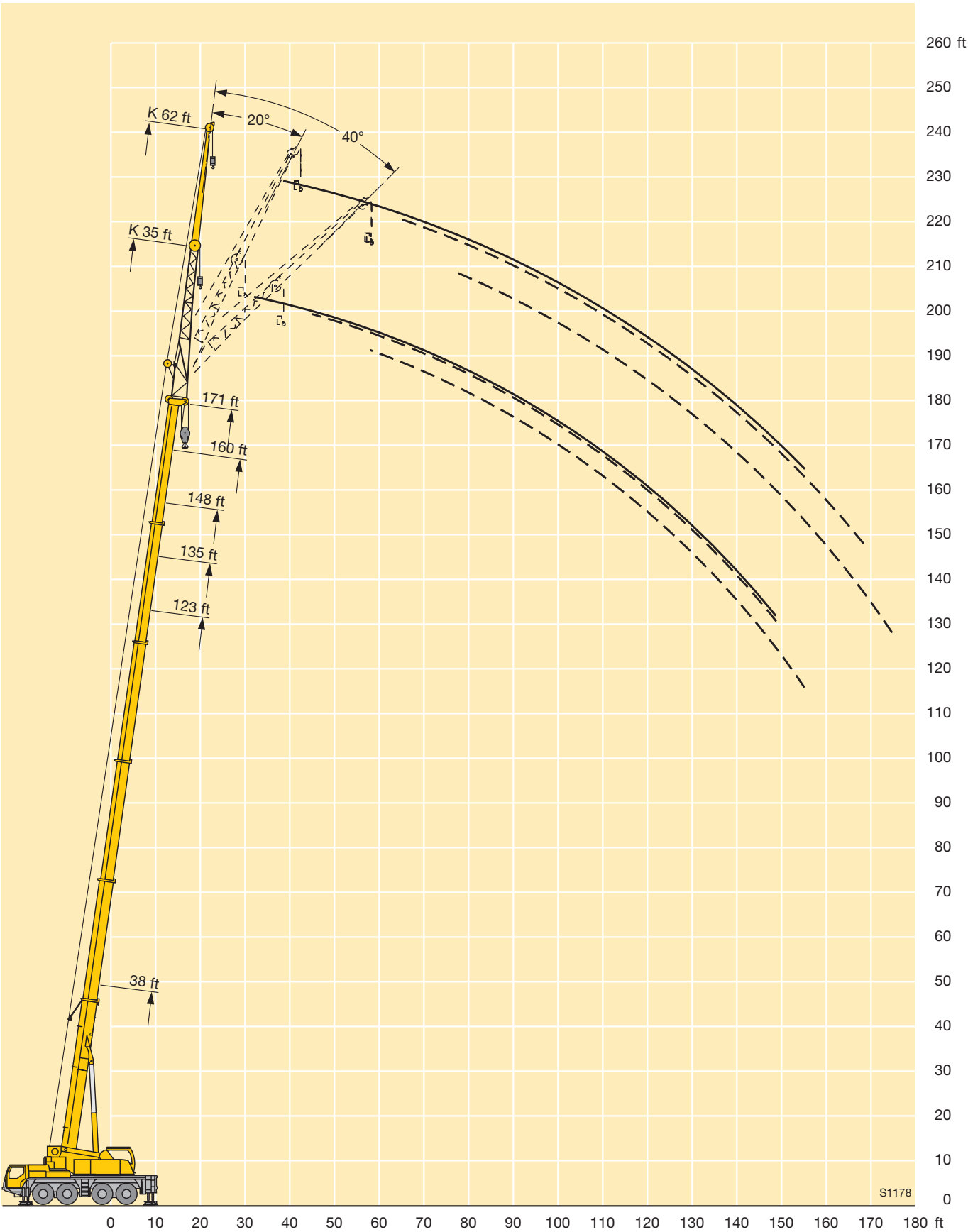
Lifting capacities on the folding jib
Forces de levage à la fléchette pliante

 ft		38 ft			123 ft			135 ft			148 ft			160 ft			171 ft			 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°		
13	12.3																			13	
14	12.2																			14	
15	12.1																			15	
16	11.9																			16	
17	11.7																			17	
18	11.6																			18	
20	11.3																			20	
22	10.9																			22	
24	10.6																			24	
26	10.3				12.6															26	
28	10	8.6			12.5			12												28	
30	9.7	8.5			12.4			12												30	
32	9.5	8.3			12.3			11.9			11.1									32	
34	9.2	8.1			12.2			11.8			11.1									34	
36	9	7.9			12			11.7			11									36	
38	8.7	7.8			11.8			11.6			10.9		9.9				8.7			38	
40	8.5	7.6			11.7			11.4			10.8		9.9				8.7			40	
45	8.1	7.3			11.2			11.1			10.6		9.7				8.5			45	
50	7.7	7	6.3	10.8	8.3		10.7	8.2		10.3			9.5				8.3			50	
55	7.4	6.7	6.2	10.4	8.1		10.3	8.1		10	7.8		9.3	7.5			8.2			55	
60	7.1	6.5	6.1	10	7.9		9.9	7.9		9.6	7.7		9	7.5			8			60	
65	6.8	6.4	6	9.6	7.7	6.5	9.6	7.7		9.3	7.5		8.8	7.3			7.8	7.1		65	
70	6.6	6.3	6	9.3	7.5	6.4	9.3	7.5	6.4	9	7.4	6.3	8.6	7.2			7.8	7		70	
75	6.5	6.2	6	9	7.3	6.3	9	7.3	6.3	8.8	7.2	6.3	8.4	7	6.1	7.7	6.9	6		75	
80	6.4	6.1	6	8.6	7.2	6.2	8.7	7.2	6.2	8.5	7.1	6.2	8.2	6.9	6.1	7.5	6.7	6		80	
85	6.3	6.1	6	8.4	7	6.2	8.4	7	6.1	8.3	6.9	6.1	8	6.8	6	7.3	6.6	5.9		85	
90				8.1	6.9	6.1	8.2	6.9	6.1	8.1	6.8	6	7.8	6.6	5.9	7.1	6.5	5.9		90	
95				7.9	6.7	6	8	6.8	6	7.9	6.7	6	7.6	6.5	5.9	6.9	6.4	5.8		95	
100				7.7	6.6	6	7.8	6.7	6	7.7	6.6	6	7.5	6.5	5.9	6.7	6.3	5.8		100	
105				7.5	6.5	6	7.6	6.6	6	7.5	6.5	5.9	7.3	6.4	5.8	6.5	6.2	5.8		105	
110				7.4	6.4	6	7.4	6.5	6	7.4	6.4	5.9	7.2	6.3	5.8	6.3	6.1	5.8		110	
115				7.2	6.4	6	7.2	6.4	5.9	7.2	6.4	5.9	7	6.3	5.8	6.2	6	5.8		115	
120				7.1	6.3	6	7.1	6.3	5.9	7	6.3	5.9	6.7	6.2	5.8	6	5.8	5.8		120	
125				6.9	6.3	6	7	6.3	5.9	6.8	6.2	5.9	6.1	6.1	5.8	5.8	5.7	5.7		125	
130				6.7	6.3	6	6.8	6.3	5.9	6.4	6.2	5.9	5.5	6.1	5.8	5.2	5.6	5.7		130	
135				6.5	6.2	6	6.5	6.2	5.9	5.9	6.1	5.9	4.9	5.8	5.8	4.6	5.4	5.6		135	
140				6.4	6.2	6	6.2	6.1	5.9	5.4	6	5.9	4.4	5.3	5.7	4.1	5.1	5.4		140	
145				6.3	6.1	6	5.6	6	5.9	4.9	5.6	5.8	3.9	4.8	5.4	3.6	4.5	5.2		145	
150				5.8	6.1	5.9	5.1	5.7	5.9	4.4	5.1	5.6	3.5	4.3	4.8	3.2	4	4.7		150	
155				5.4	5.8	5.8	4.6	5.2	5.5	4	4.6	5.1	3	3.8	4.3	2.8	3.6	4.1		155	
160				4.9	5.3	5.4	4.2	4.7	5	3.6	4.2	4.5	2.6	3.3	3.8	2.4	3.1	3.6		160	
165				4.5	4.8		3.8	4.2	4.4	3.1	3.7	4	2.3	2.9	3.3		2.7	3.2		165	
170				4.1	4.3		3.4	3.7	3.8	2.7	3.3	3.5	1.9	2.5	2.9		2.3	2.7		170	
175							3	3.3		2.4	2.8	3		2.1	2.4		1.9	2.3		175	
180							2.7	2.9		2	2.4	2.5								180	

TAB 140431 / 140433 / 140435



Lifting heights
Hauteurs de levage





Lifting capacities on the hydraulically variable folding jib
Capacités de levage à la fléchette pliante à variation hydraulique

																									
38 – 171 ft		35 ft		360°		48500 lbs		85%																	
	ft	38 ft			123 ft			135 ft			148 ft			160 ft			171 ft				ft				
		0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°						
9	30.6																			9					
10	30.5																			10					
11	30.1																			11					
12	29.6																			12					
13	29.1																			13					
14	28.6																			14					
15	28.1																			15					
16	27.5	26.8																		16					
17	27	26.4																		17					
18	26.4	25.9																		18					
20	25.3	24.8																		20					
22	24	23.7			32.7															22					
24	22.7	22.7			32.4															24					
26	21.4	21.8	20.9		31.8			29.1												26					
28	20.3	20.9	20.1		31.3			28.8			23.1			18.6						28					
30	19.2	20	19.3		30.8			28.4			23			18.6						30					
32	18.2	19.3	18.7		30.4			28			22.6			18.3			15			32					
34	17.3	18.6	18.1		29.9			27.7			22.3			18			14.8			34					
36	16.6	17.8	17.6		29.5			27.4			22			17.7			14.6			36					
38	15.8	17.1	17		29.1	25.3		27	24.3		21.6			17.4			14.3			38					
40	15.1	16.4	16.5		28.6	25.2		26.7	24.2		21.3			17.1			14			40					
45	13.5	14.6	15.4		27.4	24	20.8	25.8	23.3		20.6	19.3		16.5	15.8		13.4	12.8		45					
50	12.1	13.1	13.9		26.1	22.9	20.1	24.6	22.4	19.5	19.8	18.6	17.7	16	15.3		12.9	12.4		50					
55	11	11.7	12.9		24.7	21.8	19.3	23.3	21.6	19.2	19	17.9	17.4	15.4	14.7	13.9	12.4	11.9	11.4		55				
60					23.2	20.8	18.6	21.8	20.7	18.5	18.2	17.2	16.7	14.7	14.1	13.8	11.9	11.5	11.3		60				
65					21.3	19.9	18	19.8	19.9	18	17.6	16.5	16.1	14.2	13.6	13.4	11.5	11	10.9		65				
70					19.1	19.1	17.4	17.8	18.7	17.4	16.8	15.9	15.5	13.7	13.1	13	11	10.6	10.5		70				
75					17.2	18	16.9	16.4	17.1	16.9	15.6	15.3	14.9	13.2	12.7	12.6	10.7	10.2	10.1		75				
80					15.4	16.5	16.4	15.3	15.4	16.2	14	14.6	14.4	12.8	12.3	12.2	10.3	9.9	9.8		80				
85					13.9	14.9	15.6	13.8	14.4	14.6	12.6	13.6	14	12.3	11.9	11.8	9.9	9.5	9.5		85				
90					12.6	13.5	14.2	12.5	13.3	13.8	12.1	12.2	12.9	11.3	11.5	11.5	9.6	9.2	9.1		90				
95					11.6	12.2	12.8	11.6	12.1	12.8	11.3	11.4	11.9	10.2	10.9	11.2	9.2	8.9	8.9		95				
100					11	11.1	11.6	11	11.1	11.6	10.3	10.8	11	9.2	10	10.6	8.8	8.7	8.6		100				
105					10.5	10.3	10.4	10.2	10.5	10.5	9.4	10.1	10.6	8.2	9	9.6	7.9	8.4	8.4		105				
110					10	10	10	9.4	9.8	10.1	8.5	9.1	9.6	7.4	8.1	8.7	7.1	7.8	8.1		110				
115					9.3	9.5	9.6	8.5	9	9.4	7.7	8.3	8.7	6.6	7.3	7.8	6.3	7	7.5		115				
120					8.5	8.9	9.1	7.8	8.2	8.5	7	7.5	7.9	5.9	6.5	7	5.6	6.3	6.8		120				
125					7.8	8.1	8.3	7.1	7.5	7.7	6.3	6.8	7.1	5.2	5.8	6.2	5	5.6	6		125				
130					7.2	7.5	7.6	6.4	6.8	7	5.7	6.1	6.5	4.6	5.2	5.5	4.4	4.9	5.3		130				
135					6.5	6.8	6.8	5.8	6.2	6.3	5.1	5.5	5.8	4.1	4.6	4.9	3.8	4.3	4.7		135				
140					6	6.1		5.2	5.5	5.6	4.6	5	5.2	3.5	4	4.3	3.3	3.8	4.1		140				
145								4.6	4.9		4	4.4	4.5	3.1	3.5	3.7	2.8	3.2	3.5		145				
150								4.1	4.3		3.5	3.8	3.9	2.6	3	3.2	2.4	2.8	3		150				
155								3.7	3.8		3	3.3	3.3	2.1	2.5	2.7		2.3	2.5		155				
160											2.6	2.8				2.1					160				
165											2.2										165				
170											1.8										170				

TAB 140507 / 140509 / 140511



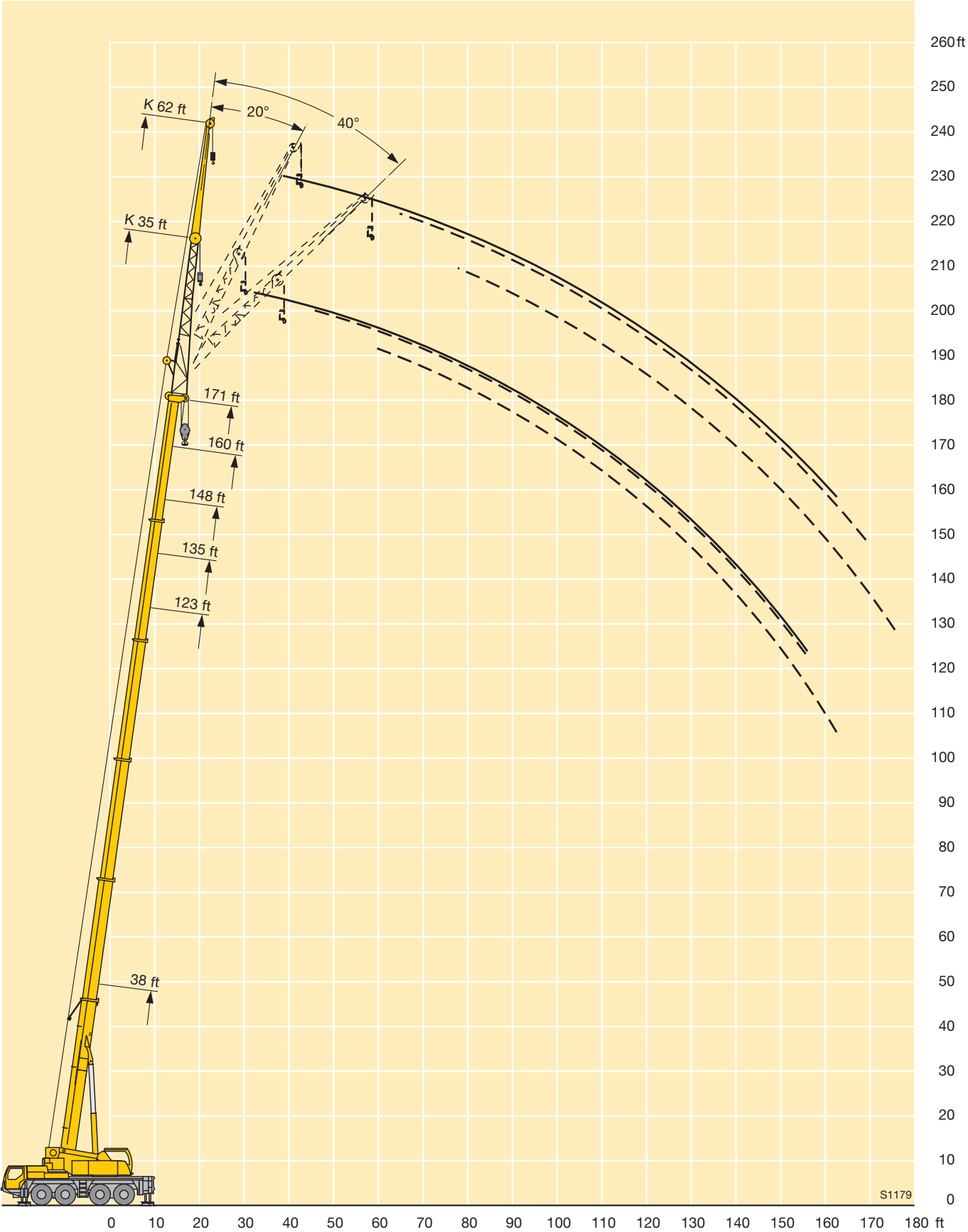
Lifting capacities on the hydraulically variable folding jib
Capacités de levage à la fléchette pliante à variation hydraulique

 85%																			
 ft	38 ft			123 ft			135 ft			148 ft			160 ft			171 ft			 ft
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
13	12.3																		13
14	12.1																		14
15	11.9																		15
16	11.8																		16
17	11.6																		17
18	11.5																		18
20	11.2																		20
22	10.8																		22
24	10.5																		24
26	10.2			12.6															26
28	9.9	7.6		12.5			12												28
30	9.6	7.6		12.4			12												30
32	9.4	7.6		12.2			11.9			11.1									32
34	9.1	7.6		12			11.7			11									34
36	8.9	7.6		11.9			11.6			10.9									36
38	8.7	7.6		11.7			11.4			10.8			9.9			8.5			38
40	8.5	7.5		11.5			11.3			10.7			9.9			8.5			40
45	8	7.2		11.1			10.9			10.4			9.6			8.5			45
50	7.6	6.9	6.2	10.6	8.2		10.5	8.1		10.1			9.4			8.3			50
55	7.3	6.7	6.2	10.2	8		10.2	8		9.8	7.7		9.2	7.4		8.2			55
60	7	6.5	6	9.8	7.8		9.8	7.8		9.5	7.6		8.9	7.4		8			60
65	6.8	6.3	6	9.5	7.6	6.4	9.4	7.6		9.2	7.5		8.7	7.2		7.8	7		65
70	6.6	6.3	6	9.1	7.4	6.4	9.1	7.4	6.3	8.9	7.3	6.2	8.4	7.1		7.8	6.9		70
75	6.4	6.2	6	8.8	7.2	6.3	8.8	7.2	6.3	8.6	7.1	6.2	8.2	6.9	6	7.6	6.8	6	75
80	6.3	6.1	6	8.5	7.1	6.2	8.6	7.1	6.2	8.4	7	6.1	8	6.8	6	7.4	6.7	5.9	80
85	6.3	6.1	6	8.3	6.9	6.1	8.3	6.9	6.1	8.2	6.8	6	7.8	6.7	6	7.2	6.6	5.9	85
90				8	6.8	6.1	8.1	6.8	6	8	6.7	6	7.7	6.6	5.9	7	6.5	5.8	90
95				7.8	6.7	6	7.9	6.7	6	7.8	6.6	6	7.5	6.5	5.9	6.8	6.4	5.8	95
100				7.6	6.6	6	7.7	6.6	6	7.6	6.5	5.9	7.4	6.4	5.8	6.6	6.3	5.8	100
105				7.4	6.5	6	7.5	6.5	5.9	7.4	6.5	5.9	7.2	6.3	5.8	6.4	6.2	5.8	105
110				7.3	6.4	6	7.3	6.4	5.9	7.3	6.4	5.9	7.1	6.3	5.8	6.2	6.1	5.8	110
115				7.1	6.3	6	7.2	6.3	5.9	7.1	6.3	5.9	6.9	6.2	5.8	6.1	5.9	5.7	115
120				7	6.3	6	7	6.3	5.9	6.9	6.2	5.9	6.6	6.1	5.8	5.9	5.8	5.7	120
125				6.8	6.3	6	6.9	6.2	5.9	6.8	6.2	5.9	5.9	6.1	5.8	5.6	5.6	5.7	125
130				6.6	6.2	6	6.7	6.2	5.9	6.3	6.1	5.9	5.3	6.1	5.8	5	5.5	5.6	130
135				6.5	6.2	6	6.4	6.2	5.9	5.7	6.1	5.9	4.7	5.7	5.8	4.5	5.3	5.5	135
140				6.4	6.1	5.9	6	6.1	5.9	5.2	5.9	5.9	4.2	5.1	5.6	3.9	4.9	5.3	140
145				6.2	6.1	5.9	5.5	6	5.9	4.7	5.5	5.8	3.7	4.6	5.2	3.5	4.4	5.1	145
150				5.7	6.1	5.9	5	5.6	5.8	4.3	4.9	5.4	3.3	4.1	4.7	3	3.9	4.5	150
155				5.2	5.6	5.6	4.5	5	5.3	3.8	4.5	4.9	2.8	3.6	4.1	2.6	3.4	4	155
160				4.7	5.1	5.1	4	4.5	4.8	3.4	4	4.3	2.4	3.1	3.6	2.2	2.9	3.5	160
165				4.3	4.6		3.6	4	4.2	2.9	3.5	3.8		2.7	3.1		2.5	3	165
170				3.9	4.1		3.2	3.5	3.6	2.5	3.1	3.3		2.3	2.6		2.1	2.5	170
175							2.8	3.1		2.2	2.6	2.8		1.9	2.2			2.1	175
180							2.4	2.7			2.2	2.3							180

TAB 140507 / 140509 / 140511



Lifting heights
Hauteurs de levage



Lifting capacities on the folding jib with boom extension
Forces de levage à la flèche pliante avec télescope rallongé

38 – 171 ft 23 ft 35 ft  360° 48500 lbs 85%																
 ft	38 ft + 23 ft			135 ft + 23 ft			148 ft + 23 ft			160 ft + 23 ft			171 ft + 23 ft			 ft
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
13	13.6															13
14	13.4															14
15	13.1															15
16	13															16
17	12.8															17
18	12.6	12.3														18
20	12.2	12.2														20
22	11.8	11.9														22
24	11.5	11.5														24
26	11.1	11.1		14.6												26
28	10.8	10.7	10.2	14.4			13.4									28
30	10.4	10.4	10.2	14.2			13.3									30
32	10.1	10.1	10	13.9			13.2			12.2						32
34	9.8	9.8	9.7	13.7			13			12.1						34
36	9.5	9.5	9.5	13.5			12.8			11.9						36
38	9.2	9.2	9.2	13.3	12.3		12.6			11.8			9.8			38
40	8.9	8.9	8.9	13.1	12.2		12.4			11.7			9.8			40
45	8.3	8.3	8.3	12.6	11.7		12	11.2		11.3	10.7		9.4			45
50	7.8	7.8	7.8	12.1	11.2	10.2	11.6	10.9	10	11	10.4		9.1	8.6		50
55	7.3	7.3	7.3	11.7	10.8	10	11.3	10.5	9.9	10.7	10.1	9.3	8.8	8.5	8	55
60	6.9	6.9	6.9	11.2	10.4	9.7	10.9	10.1	9.5	10.3	9.8	9.2	8.5	8.2	8	60
65	6.5	6.6	6.5	10.8	10	9.3	10.5	9.8	9.2	10	9.5	8.9	8.2	7.9	7.7	65
70	6.1	6.2	6.2	10.4	9.6	9	10.1	9.5	8.9	9.7	9.2	8.7	7.9	7.6	7.4	70
75	5.7	5.8	6	10	9.3	8.7	9.8	9.2	8.6	9.4	8.9	8.4	7.6	7.4	7.2	75
80	5.4	5.5		9.6	8.9	8.5	9.5	8.9	8.4	9.1	8.6	8.2	7.3	7.1	6.9	80
85	4.9	5.1		9.2	8.6	8.2	9.2	8.6	8.1	8.8	8.4	8	7.1	6.8	6.7	85
90				8.9	8.4	7.9	8.9	8.3	7.9	8.6	8.1	7.8	6.9	6.6	6.5	90
95				8.6	8.1	7.7	8.5	8.1	7.7	8.3	7.9	7.6	6.6	6.4	6.2	95
100				8.3	7.9	7.5	8.3	7.9	7.5	8.1	7.7	7.4	6.4	6.2	6	100
105				8	7.6	7.3	8	7.7	7.3	7.9	7.5	7.2	6.2	6	5.8	105
110				7.8	7.4	7.1	7.8	7.4	7.1	7.4	7.3	7	6	5.8	5.7	110
115				7.5	7.2	6.9	7.5	7.2	7	6.7	7.1	6.9	5.9	5.6	5.5	115
120				7.3	7	6.8	7	7	6.8	6	6.6	6.7	5.5	5.5	5.4	120
125				7	6.9	6.7	6.3	6.9	6.6	5.3	5.9	6.4	5	5.3	5.2	125
130				6.5	6.7	6.5	5.7	6.2	6.5	4.7	5.3	5.7	4.4	5	5.1	130
135				5.9	6.3	6.4	5.1	5.6	6	4.1	4.7	5.1	3.9	4.4	4.8	135
140				5.4	5.8	6	4.6	5.1	5.4	3.6	4.1	4.5	3.3	3.9	4.3	140
145				4.9	5.2		4.1	4.5	4.8	3.1	3.6	3.9	2.9	3.4	3.7	145
150				4.3	4.7		3.7	4	4.3	2.7	3.1	3.4	2.4	2.9	3.2	150
155				3.8	4.2		3.2	3.6	3.8	2.3	2.7	2.9		2.4	2.7	155
160				3.4	3.7		2.8	3.1			2.2	2.5			2.3	160
165				3	3.2		2.3	2.7								165
170				2.6	2.8		1.9	2.2								170
175				2.2	2.4											175

TAB 140287 / 140289 / 140291



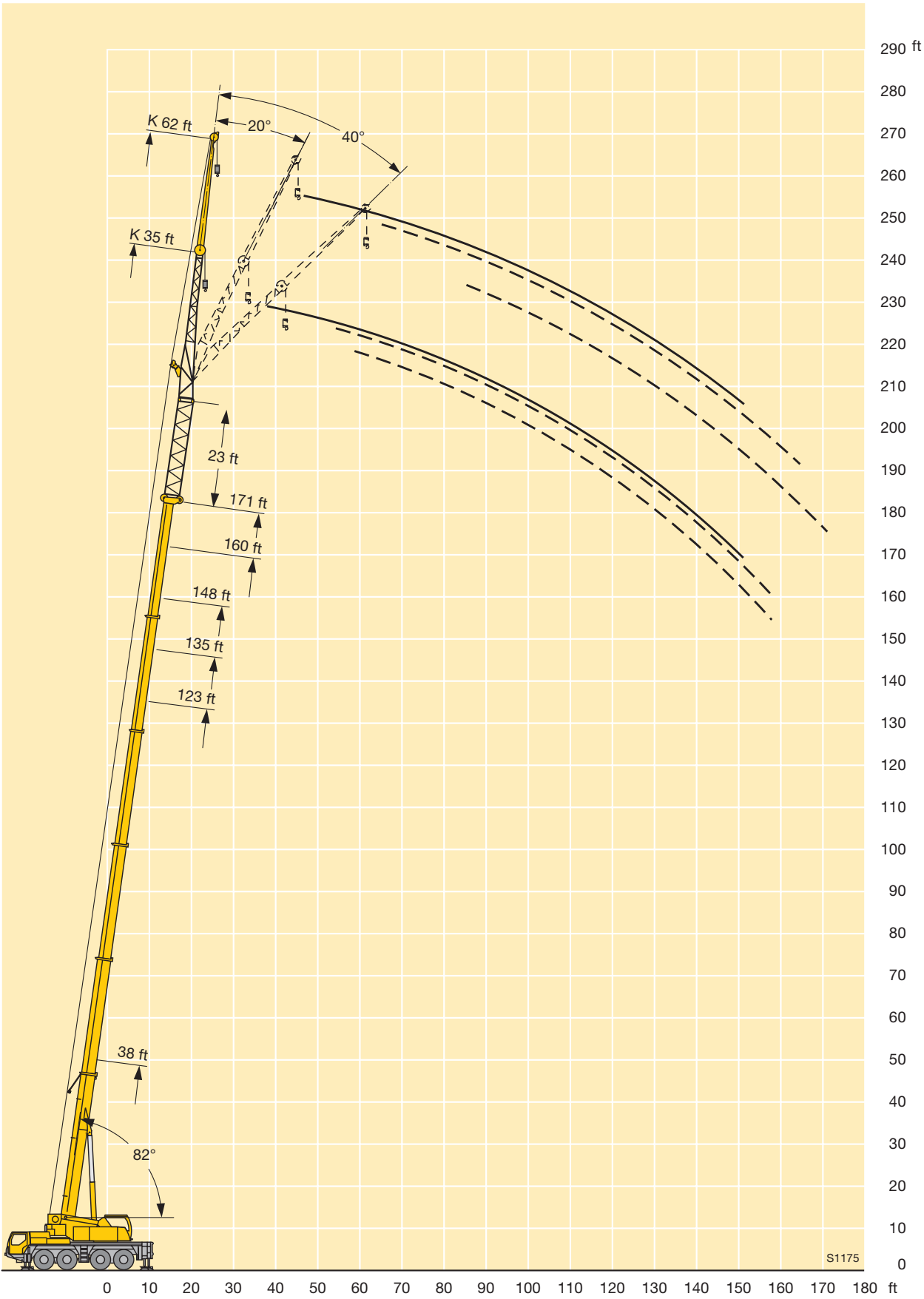
Lifting capacities on the folding jib with boom extension
Forces de levage à la fléchette pliante avec télescope rallongé

38 – 171 ft 23 ft 62 ft 360° 48500 lbs 85%																
ft	38 ft + 23 ft			135 ft + 23 ft			148 ft + 23 ft			160 ft + 23 ft			171 ft + 23 ft			ft
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
18	9															18
20	9															20
22	8.9															22
24	8.7															24
26	8.6															26
28	8.4			9.3												28
30	8.2			9.3												30
32	8	7.6		9.3			8.8									32
34	7.9	7.6		9.2			8.8									34
36	7.7	7.5		9.2			8.8									36
38	7.5	7.5		9.2			8.7			8.3						38
40	7.3	7.4		9.1			8.7			8.2						40
45	6.9	7		9			8.6			8.1			6.9			45
50	6.5	6.6	6.4	8.8			8.4			7.9			6.7			50
55	6.1	6.2	6.3	8.5	7.6		8.2	7.5		7.8			6.5			55
60	5.8	5.9	6	8.3	7.6		8	7.5		7.6			6.3			60
65	5.5	5.6	5.7	8	7.4		7.8	7.3		7.4	7		6.1	5.9		65
70	5.2	5.3	5.4	7.8	7.2	6.4	7.6	7.1		7.3	6.8		5.9	5.8		70
75	5	5	5.1	7.5	7	6.4	7.3	6.8	6.3	7	6.6	6	5.7	5.6		75
80	4.8	4.8	4.9	7.3	6.7	6.3	7.1	6.6	6.3	6.8	6.4	6	5.6	5.4		80
85	4.6	4.6	4.7	7.1	6.5	6.2	6.9	6.4	6.1	6.7	6.3	6	5.4	5.3	5.2	85
90	4.4	4.4	4.5	6.8	6.3	6	6.7	6.2	6	6.5	6.1	5.8	5.2	5.1	5	90
95	4.2	4.2	4.3	6.6	6.1	5.9	6.5	6	5.8	6.3	5.9	5.7	5	5	4.9	95
100	4	4.1	4.2	6.4	5.9	5.7	6.3	5.9	5.7	6.1	5.8	5.5	4.9	4.8	4.8	100
105	3.8	3.9		6.2	5.8	5.6	6.1	5.7	5.5	6	5.6	5.4	4.7	4.7	4.6	105
110	3.7	3.7		6	5.6	5.4	6	5.6	5.4	5.8	5.5	5.3	4.6	4.5	4.5	110
115				5.8	5.4	5.3	5.8	5.4	5.2	5.7	5.3	5.2	4.5	4.4	4.4	115
120				5.7	5.3	5.1	5.7	5.3	5.1	5.6	5.2	5.1	4.3	4.3	4.3	120
125				5.5	5.2	5	5.5	5.2	5	5.4	5.1	4.9	4.2	4.1	4.2	125
130				5.3	5	4.9	5.4	5.1	4.9	4.9	5	4.9	4.1	4	4.1	130
135				5.2	4.9	4.8	5.2	4.9	4.8	4.4	4.9	4.8	3.9	3.9	4	135
140				5	4.8	4.7	4.9	4.8	4.7	3.9	4.7	4.7	3.6	3.8	3.9	140
145				4.9	4.7	4.6	4.4	4.7	4.6	3.4	4.4	4.6	3.1	3.7	3.8	145
150				4.6	4.6	4.5	3.9	4.6	4.5	3	3.9	4.5	2.7	3.6	3.6	150
155				4.2	4.5	4.5	3.5	4.2	4.5	2.6	3.4	4	2.3	3.1	3.6	155
160				3.8	4.3	4.4	3.1	3.8	4.2	2.2	3	3.5		2.7	3.3	160
165				3.5	4	4.3	2.7	3.4	3.8		2.5	3.1		2.3	2.9	165
170				3.1	3.6	3.9	2.4	3	3.4		2.1	2.6		1.9	2.4	170
175				2.7	3.2		2	2.6	3			2.2			2	175
180				2.3	2.8			2.2	2.6							180
185					2.4											185
190					2											190

TAB 140287 / 140289 / 140291



Lifting heights
Hauteurs de levage





Lifting capacities on the folding jib with boom extension
Forces de levage à la fléchette pliante avec télescope rallongé

38 – 171 ft 46 ft 35 ft 360° 48500 lbs 85%																
ft	38 ft + 46 ft			135 ft + 46 ft			148 ft + 46 ft			160 ft + 46 ft			171 ft + 46 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°	
16	9.9															16
17	9.8															17
18	9.7															18
20	9.4															20
22	9.2	8.9														22
24	8.9	8.8														24
26	8.7	8.8														26
28	8.5	8.5														28
30	8.2	8.3														30
32	8	8	7.7	10.1												32
34	7.8	7.8	7.6	10.1												34
36	7.6	7.6	7.5	9.9												36
38	7.3	7.4	7.4	9.8			9.3			7.8						38
40	7.1	7.2	7.3	9.7			9.2			7.8						40
45	6.6	6.7	6.8	9.3	8.9		8.9			7.8			6.3			45
50	6.2	6.2	6.3	9	8.6		8.6	8.1		7.8	7.7		6.2			50
55	5.8	5.8	5.9	8.7	8.2	7.7	8.3	8	7.4	7.7	7.6		6.1	6.1		55
60	5.5	5.5	5.5	8.4	7.9	7.6	8.1	7.7	7.4	7.6	7.3		6	6.1		60
65	5.1	5.1	5.2	8	7.6	7.3	7.8	7.4	7.1	7.4	7.1	6.8	5.9	5.9	5.8	65
70	4.8	4.8	4.9	7.7	7.3	7	7.5	7.1	6.9	7.2	6.8	6.6	5.7	5.6	5.6	70
75	4.6	4.6	4.6	7.4	7	6.8	7.2	6.9	6.6	6.9	6.6	6.4	5.5	5.4	5.4	75
80	4.3	4.3	4.4	7.1	6.8	6.5	7	6.6	6.4	6.7	6.4	6.2	5.3	5.2	5.2	80
85	4.1	4.1	4.1	6.8	6.5	6.3	6.7	6.4	6.2	6.5	6.2	6	5.1	5.1	5	85
90	3.9	3.9	3.9	6.6	6.2	6.1	6.5	6.2	6	6.3	6	5.8	4.9	4.9	4.9	90
95	3.7	3.7	3.7	6.3	6	5.9	6.3	6	5.8	6.1	5.8	5.7	4.7	4.7	4.7	95
100	3.5	3.5	3.5	6.1	5.8	5.7	6.1	5.8	5.6	5.9	5.6	5.5	4.6	4.5	4.5	100
105				5.9	5.6	5.5	5.9	5.6	5.4	5.7	5.4	5.3	4.4	4.3	4.3	105
110				5.7	5.4	5.3	5.7	5.4	5.2	5.6	5.3	5.1	4.3	4.2	4.2	110
115				5.5	5.2	5.1	5.5	5.2	5.1	5.4	5.2	5	4.1	4	4.1	115
120				5.3	5.1	5	5.3	5.1	5	5.2	5	4.9	4	3.9	3.9	120
125				5.1	4.9	4.8	5.2	4.9	4.8	4.8	4.9	4.8	3.9	3.8	3.8	125
130				5	4.8	4.7	5	4.8	4.7	4.2	4.7	4.6	3.7	3.7	3.7	130
135				4.8	4.6	4.6	4.6	4.7	4.6	3.7	4.3	4.5	3.3	3.6	3.6	135
140				4.6	4.5	4.5	4.1	4.5	4.5	3.1	3.7	4.1	2.8	3.3	3.4	140
145				4.4	4.4	4.3	3.6	4.1	4.3	2.7	3.2	3.6		2.9	3.3	145
150				3.9	4.2	4.2	3.2	3.6	3.9	2.2	2.7	3.1		2.5	2.8	150
155				3.5	3.8	4	2.7	3.2	3.4		2.3	2.6			2.4	155
160				3.1	3.4		2.3	2.7	3			2.1				160
165				2.7	3			2.3								165
170				2.3	2.6			1.9								170
175				1.9	2.2											175

TAB 140293 / 140295 / 140297



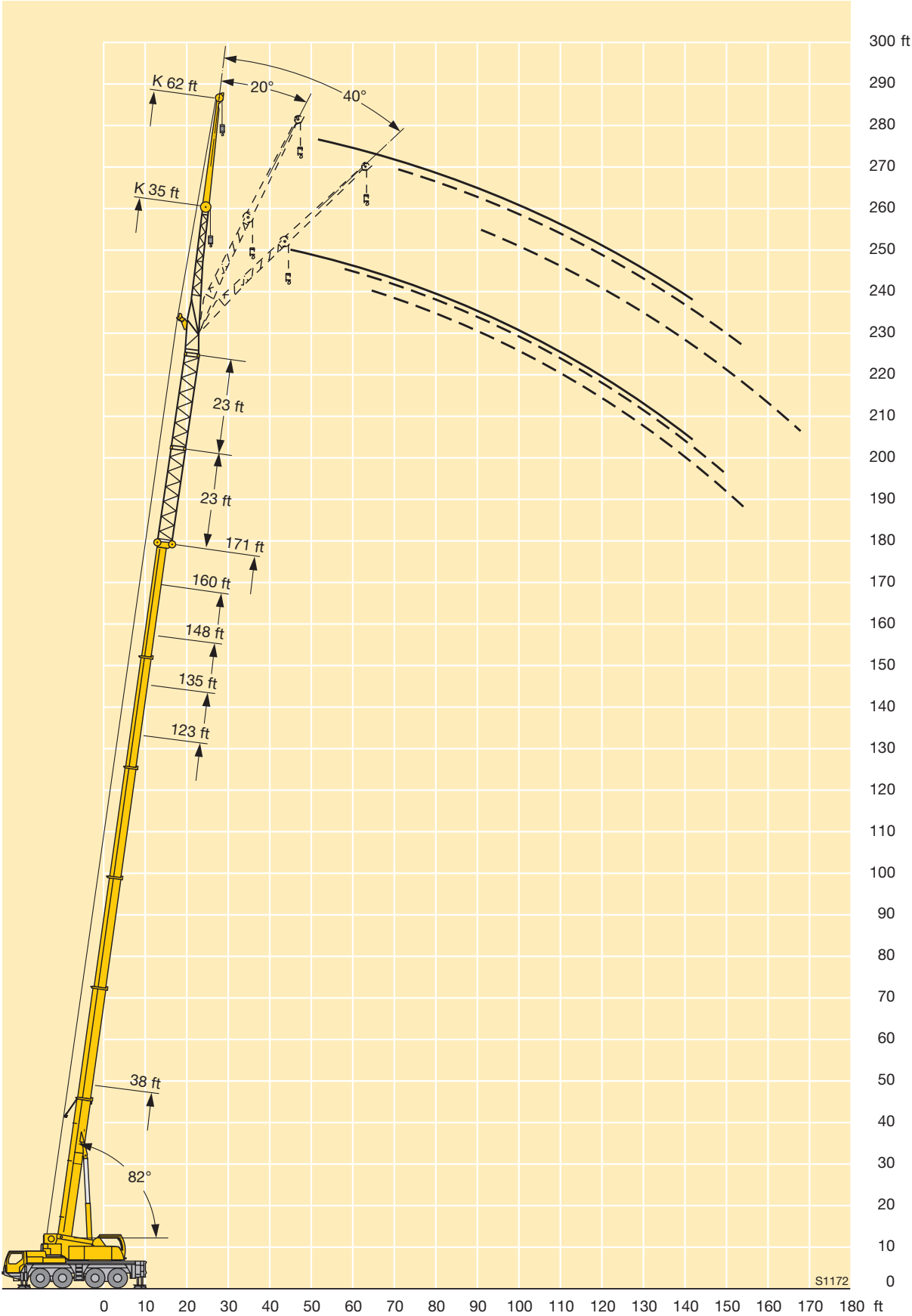
Lifting capacities on the folding jib with boom extension
Forces de levage à la flèche pliante avec télescope rallongé

 85%																
 ft	38 ft + 46 ft			135 ft + 46 ft			148 ft + 46 ft			160 ft + 46 ft			171 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°	
22	6.9															22
24	6.8															24
26	6.7															26
28	6.5															28
30	6.4															30
32	6.3															32
34	6.2															34
36	6															36
38	5.9	6.1		7.1			6.7									38
40	5.8	6		7.1			6.7									40
45	5.4	5.7		6.9			6.5			5.3						45
50	5.1	5.3		6.7			6.3			5.3			4.5			50
55	4.8	5	5.1	6.5			6.2			5.2			4.3			55
60	4.5	4.7	5	6.3			6			5.1			4.1			60
65	4.2	4.4	4.7	6.1	5.8		5.8	5.6		5.1			4.1			65
70	4	4.2	4.4	5.9	5.6		5.7	5.5		5.1	4.9		4.1	4.2		70
75	3.8	4	4.1	5.7	5.4	5.2	5.5	5.3		5.1	4.9		4.1	4.1		75
80	3.6	3.7	3.9	5.5	5.2	5.1	5.3	5.1		5	4.9		4	4		80
85	3.4	3.5	3.7	5.2	5.1	5	5.1	4.9	4.8	4.9	4.7		3.9	3.8		85
90	3.2	3.3	3.5	5.1	4.9	4.8	5	4.8	4.7	4.7	4.6	4.5	3.7	3.7	3.7	90
95	3.1	3.2	3.3	4.9	4.7	4.6	4.8	4.6	4.5	4.6	4.5	4.4	3.6	3.6	3.6	95
100	2.9	3	3.1	4.7	4.5	4.5	4.7	4.5	4.4	4.4	4.3	4.3	3.5	3.5	3.5	100
105	2.8	2.9	3	4.5	4.4	4.3	4.5	4.3	4.3	4.3	4.2	4.1	3.3	3.4	3.4	105
110	2.6	2.7	2.8	4.4	4.2	4.2	4.4	4.2	4.1	4.2	4.1	4	3.2	3.3	3.3	110
115	2.5	2.6	2.7	4.2	4.1	4	4.2	4	4	4	3.9	3.9	3.1	3.2	3.2	115
120	2.4	2.4	2.6	4.1	4	3.9	4.1	3.9	3.9	3.9	3.8	3.8	3	3.1	3.1	120
125	2.3	2.3		3.9	3.8	3.8	3.9	3.8	3.8	3.8	3.7	3.7	2.9	3	3	125
130	2.2	2.3		3.8	3.7	3.7	3.8	3.7	3.7	3.7	3.6	3.6	2.8	2.9	2.9	130
135				3.7	3.6	3.6	3.7	3.6	3.6	3.6	3.5	3.5	2.7	2.8	2.8	135
140				3.6	3.5	3.5	3.6	3.5	3.5	3.4	3.4	3.4	2.6	2.7	2.8	140
145				3.5	3.4	3.4	3.5	3.4	3.4	2.9	3.3	3.3	2.5	2.6	2.7	145
150				3.4	3.3	3.3	3.3	3.3	3.3	2.4	3.2	3.2	2.1	2.5	2.6	150
155				3.3	3.2	3.2	2.9	3.2	3.2		2.9	3.2		2.4	2.5	155
160				3.1	3.1	3.1	2.5	3.1	3.1		2.5	3		2.2	2.4	160
165				2.9	3	3	2.2	2.9	3			2.7			2.3	165
170				2.5	2.9	2.9	1.8	2.5	2.9			2.3			2	170
175				2.2	2.7	2.9		2.1	2.6			1.9				175
180					2.4	2.7			2.2							180
185					2.1											185
190					1.8											190

TAB 140293 / 140295 / 140297



Lifting heights
Hauteurs de levage





Lifting capacities on the hydraulically variable folding jib
with boom extension

Capacités de levage à la fléchette pliante à variation hydraulique
avec télescope rallongé

38 – 171 ft 23 ft 35 ft 360° 48500 lbs 85%																
ft	38 ft + 23 ft			135 ft + 23 ft			148 ft + 23 ft			160 ft + 23 ft			171 ft + 23 ft			ft
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
13	13.5															13
14	13.3															14
15	13.1															15
16	12.9															16
17	12.7															17
18	12.5	12.1														18
20	12.1	12														20
22	11.7	11.7														22
24	11.4	11.4														24
26	11	11		14.4												26
28	10.6	10.6	10.1	14.2			13.2									28
30	10.3	10.3	10.1	14			13.2									30
32	10	10	9.9	13.8			13			12						32
34	9.7	9.7	9.6	13.5			12.8			12						34
36	9.4	9.4	9.3	13.3			12.6			11.8						36
38	9.1	9.1	9.1	13.1	12.1		12.4			11.7			9.7			38
40	8.8	8.8	8.8	12.9	12		12.3			11.5			9.7			40
45	8.2	8.2	8.1	12.4	11.5		11.9	11.1		11.1	10.5		9.3			45
50	7.6	7.7	7.6	12	11.1	10.1	11.5	10.7	9.9	10.8	10.3		8.9	8.5		50
55	7.1	7.2	7.2	11.5	10.6	9.9	11.1	10.4	9.7	10.5	10	9.2	8.6	8.3	7.9	55
60	6.7	6.8	6.8	11.1	10.2	9.6	10.7	10	9.4	10.2	9.6	9.1	8.3	8	7.9	60
65	6.3	6.4	6.4	10.6	9.8	9.2	10.3	9.7	9.1	9.8	9.3	8.8	8	7.8	7.6	65
70	5.9	6	6.1	10.2	9.4	8.9	10	9.3	8.8	9.5	9	8.6	7.7	7.5	7.3	70
75	5.6	5.6	5.7	9.8	9.1	8.6	9.6	9	8.5	9.2	8.8	8.3	7.4	7.2	7.1	75
80	5.2	5.3		9.4	8.8	8.3	9.3	8.7	8.3	9	8.5	8.1	7.2	7	6.8	80
85	4.7	5		9.1	8.5	8	9	8.4	8	8.7	8.2	7.8	6.9	6.7	6.6	85
90				8.7	8.2	7.8	8.7	8.2	7.8	8.4	8	7.6	6.7	6.4	6.3	90
95				8.4	8	7.6	8.4	7.9	7.6	8.2	7.8	7.4	6.5	6.2	6.1	95
100				8.1	7.7	7.4	8.1	7.7	7.4	7.9	7.6	7.2	6.2	6	5.9	100
105				7.8	7.5	7.2	7.9	7.5	7.2	7.7	7.4	7.1	6	5.8	5.7	105
110				7.6	7.3	7	7.6	7.3	7	7.1	7.2	6.9	5.9	5.6	5.6	110
115				7.3	7.1	6.8	7.3	7.1	6.8	6.4	6.9	6.8	5.7	5.5	5.4	115
120				7.1	6.9	6.7	6.7	6.9	6.7	5.7	6.4	6.6	5.3	5.3	5.3	120
125				6.8	6.7	6.5	6	6.6	6.5	5	5.7	6.2	4.8	5.2	5.1	125
130				6.2	6.5	6.4	5.4	6	6.2	4.4	5	5.5	4.2	4.7	5	130
135				5.6	6.1	6.2	4.9	5.4	5.7	3.9	4.4	4.8	3.6	4.2	4.6	135
140				5.1	5.5	5.8	4.3	4.8	5.1	3.4	3.9	4.2	3.1	3.6	4	140
145				4.6	5		3.8	4.3	4.5	2.9	3.4	3.7	2.6	3.1	3.5	145
150				4	4.4		3.4	3.8	4	2.4	2.9	3.1	2.1	2.6	2.9	150
155				3.6	3.9		2.9	3.3	3.5		2.4	2.6		2.2	2.5	155
160				3.1	3.4		2.5	2.9				2.2				160
165				2.7	2.9			2.4								165
170				2.3	2.5			1.9								170
175				1.9	2.1											175

TAB 140636 / 140638 / 140640



Lifting capacities on the hydraulically variable folding jib
with boom extension

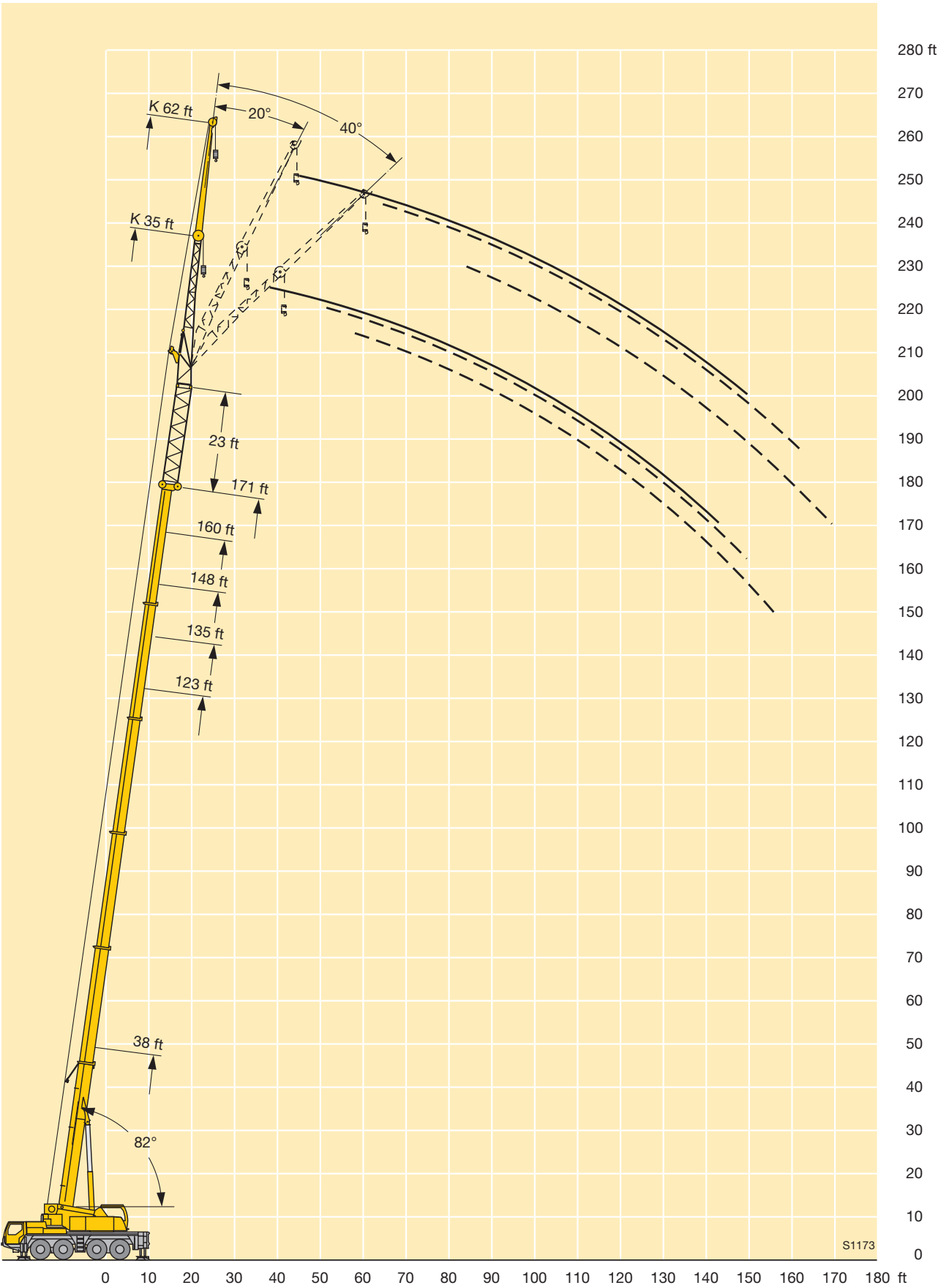
Capacités de levage à la fléchette pliante à variation hydraulique
avec télescope rallongé

38 – 171 ft 23 ft 62 ft 360° 48500 lbs 85%																
ft	38 ft + 23 ft			135 ft + 23 ft			148 ft + 23 ft			160 ft + 23 ft			171 ft + 23 ft			ft
	0°	62 ft 20°	40°	0°	62 ft 20°	40°	0°	62 ft 20°	40°	0°	62 ft 20°	40°	0°	62 ft 20°	40°	
18	9															18
20	9															20
22	8.9															22
24	8.7															24
26	8.5															26
28	8.4			9.3												28
30	8.2			9.3												30
32	8	7.5		9.2			8.8									32
34	7.8	7.5		9.2			8.7									34
36	7.6	7.4		9.2			8.7									36
38	7.4	7.4		9.2			8.7			8.2						38
40	7.2	7.3		9.1			8.7			8.2						40
45	6.8	6.9		8.9			8.5			8.1			6.8			45
50	6.4	6.5	6.3	8.7			8.3			7.9			6.6			50
55	6.1	6.1	6.2	8.4	7.5		8.1	7.4		7.7			6.4			55
60	5.7	5.8	6	8.2	7.5		7.9	7.4		7.5			6.2			60
65	5.4	5.5	5.6	7.9	7.3		7.7	7.2		7.3	6.9		6	5.8		65
70	5.1	5.2	5.4	7.6	7.1	6.3	7.4	7		7.1	6.7		5.8	5.7		70
75	4.9	5	5.1	7.4	6.8	6.3	7.2	6.7	6.3	6.9	6.5	5.9	5.7	5.5		75
80	4.7	4.7	4.8	7.2	6.6	6.3	7	6.5	6.2	6.7	6.3	5.9	5.5	5.3		80
85	4.5	4.5	4.6	6.9	6.4	6.1	6.8	6.3	6.1	6.5	6.1	5.9	5.3	5.2	5.1	85
90	4.3	4.3	4.4	6.7	6.2	5.9	6.6	6.1	5.9	6.4	6	5.7	5.1	5	4.9	90
95	4	4.1	4.3	6.5	6	5.8	6.4	6	5.7	6.2	5.8	5.6	4.9	4.8	4.8	95
100	3.9	4	4.1	6.2	5.8	5.6	6.2	5.8	5.6	6	5.7	5.5	4.8	4.7	4.7	100
105	3.7	3.8		6	5.6	5.5	6	5.6	5.4	5.9	5.5	5.3	4.6	4.5	4.6	105
110	3.5	3.6		5.9	5.5	5.3	5.8	5.5	5.3	5.7	5.4	5.2	4.5	4.4	4.4	110
115				5.7	5.3	5.2	5.7	5.3	5.2	5.6	5.2	5.1	4.3	4.3	4.3	115
120				5.5	5.2	5.1	5.5	5.2	5	5.4	5.1	5	4.2	4.1	4.2	120
125				5.4	5.1	4.9	5.4	5.1	4.9	5.3	5	4.9	4.1	4	4.1	125
130				5.2	4.9	4.8	5.2	4.9	4.8	4.8	4.9	4.8	4	3.9	4	130
135				5.1	4.8	4.7	5	4.8	4.7	4.2	4.8	4.7	3.8	3.8	3.9	135
140				4.9	4.7	4.6	4.7	4.7	4.6	3.7	4.6	4.6	3.4	3.7	3.8	140
145				4.8	4.6	4.5	4.2	4.6	4.5	3.2	4.2	4.5	2.9	3.6	3.7	145
150				4.4	4.5	4.4	3.7	4.5	4.5	2.8	3.7	4.3	2.5	3.4	3.6	150
155				4	4.4	4.4	3.3	4.1	4.4	2.4	3.2	3.9	2.1	3	3.4	155
160				3.6	4.2	4.3	2.9	3.6	4.1		2.8	3.4		2.5	3.1	160
165				3.2	3.8	4.2	2.5	3.2	3.6		2.3	2.9			2.7	165
170				2.8	3.4	3.7	2.2	2.8	3.2		1.9	2.4			2.2	170
175				2.5	3		1.8	2.4	2.7			2				175
180				2.1	2.6			2	2.3							180
185					2.2											185
190					1.8											190

TAB 140636 / 140638 / 140640



Lifting heights
Hauteurs de levage





Lifting capacities on the hydraulically variable folding jib
with boom extension

Capacités de levage à la fléchette pliante à variation hydraulique
avec télescope rallongé

38 – 171 ft 46 ft 35 ft 360° 48500 lbs 85%																
ft	38 ft + 46 ft			135 ft + 46 ft			148 ft + 46 ft			160 ft + 46 ft			171 ft + 46 ft			ft
	0°	35 ft 20°	40°	0°	35 ft 20°	40°	0°	35 ft 20°	40°	0°	35 ft 20°	40°	0°	35 ft 20°	40°	
16	9.7															16
17	9.6															17
18	9.5															18
20	9.2															20
22	9	8.7														22
24	8.8	8.7														24
26	8.5	8.7														26
28	8.3	8.4														28
30	8.1	8.2														30
32	7.8	7.9	7.5	10												32
34	7.6	7.7	7.5	9.9												34
36	7.4	7.5	7.4	9.8												36
38	7.2	7.2	7.3	9.6			9.2			7.5						38
40	7	7	7.2	9.5			9.1			7.5						40
45	6.5	6.5	6.6	9.1	8.7		8.8			7.5			6.1			45
50	6	6.1	6.2	8.8	8.4		8.5	8		7.5	7.5		5.9			50
55	5.7	5.7	5.8	8.5	8.1	7.5	8.2	7.8	7.3	7.5	7.4		5.8	6		55
60	5.3	5.3	5.4	8.2	7.8	7.5	7.9	7.5	7.3	7.4	7.2		5.8	5.9		60
65	5	5	5	7.8	7.4	7.2	7.6	7.2	7	7.2	6.9	6.7	5.8	5.7	5.6	65
70	4.7	4.7	4.7	7.5	7.1	6.9	7.3	7	6.7	7	6.7	6.5	5.6	5.5	5.5	70
75	4.4	4.5	4.5	7.2	6.9	6.6	7	6.7	6.5	6.8	6.5	6.3	5.4	5.3	5.3	75
80	4.2	4.2	4.2	6.9	6.6	6.4	6.8	6.5	6.3	6.5	6.3	6.1	5.1	5.1	5.1	80
85	4	4	4	6.7	6.3	6.1	6.5	6.2	6.1	6.3	6	5.9	4.9	4.9	4.9	85
90	3.7	3.7	3.8	6.4	6.1	5.9	6.3	6	5.8	6.1	5.8	5.7	4.7	4.7	4.7	90
95	3.5	3.5	3.5	6.2	5.9	5.7	6.1	5.8	5.6	5.9	5.6	5.5	4.6	4.5	4.5	95
100	3.3	3.4	3.3	6	5.7	5.5	5.9	5.6	5.5	5.7	5.5	5.3	4.4	4.4	4.4	100
105				5.7	5.5	5.3	5.7	5.4	5.3	5.6	5.3	5.2	4.3	4.2	4.2	105
110				5.5	5.3	5.1	5.5	5.2	5.1	5.4	5.1	5.1	4.1	4	4.1	110
115				5.3	5.1	5	5.3	5.1	5	5.2	5	4.9	4	3.9	3.9	115
120				5.1	5	4.8	5.2	5	4.8	5	4.8	4.8	3.8	3.8	3.8	120
125				5	4.8	4.7	5	4.8	4.7	4.5	4.7	4.6	3.7	3.6	3.7	125
130				4.8	4.6	4.6	4.8	4.6	4.6	3.9	4.5	4.5	3.5	3.5	3.5	130
135				4.7	4.5	4.4	4.3	4.5	4.5	3.4	4	4.3	3.1	3.4	3.4	135
140				4.4	4.4	4.3	3.8	4.3	4.3	2.9	3.4	3.9	2.6	3.1	3.3	140
145				4.1	4.2	4.2	3.3	3.8	4.1		2.9	3.3		2.7	3.1	145
150				3.6	4	4.1	2.9	3.3	3.6		2.5	2.8		2.2	2.6	150
155				3.2	3.6	3.8	2.4	2.9	3.1			2.3			2.1	155
160				2.8	3.1			2.4	2.7							160
165				2.4	2.7											165
170				2	2.3											170
175					1.9											175

TAB 140642 / 140644 / 140646



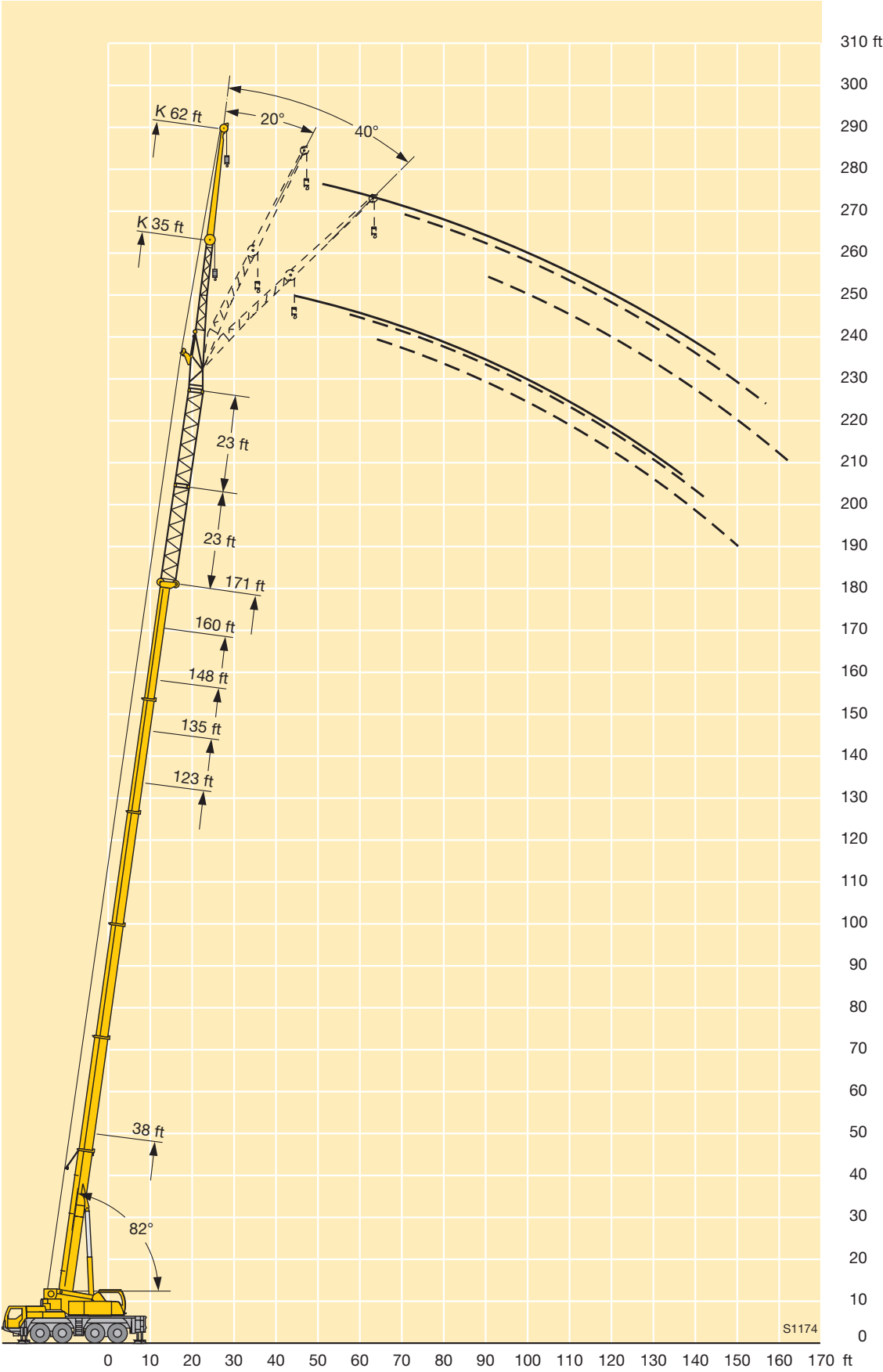
**Lifting capacities on the hydraulically variable folding jib
with boom extension**
**Capacités de levage à la fléchette pliante à variation hydraulique
avec télescope rallongé**

 85%																
 ft	38 ft + 46 ft			135 ft + 46 ft			148 ft + 46 ft			160 ft + 46 ft			171 ft + 46 ft			 ft
	0°	62 ft 20°	40°	0°	62 ft 20°	40°	0°	62 ft 20°	40°	0°	62 ft 20°	40°	0°	62 ft 20°	40°	
22	6.8															22
24	6.7															24
26	6.6															26
28	6.4															28
30	6.3															30
32	6.2															32
34	6															34
36	5.9															36
38	5.8	5.7		7			6.6									38
40	5.6	5.7		7			6.6									40
45	5.3	5.6		6.8			6.4			5.1						45
50	5	5.3		6.6			6.2			5.1			4.1			50
55	4.7	4.9	5.1	6.3			6			5			4			55
60	4.4	4.6	4.9	6.1			5.9			4.9			3.9			60
65	4.2	4.4	4.6	5.9	5.7		5.7	5.5		4.9			3.9			65
70	3.9	4.1	4.3	5.7	5.6		5.5	5.4		4.9	4.8		3.9	4.1		70
75	3.7	3.9	4.1	5.5	5.3	5.1	5.4	5.2		4.9	4.8		3.9	4		75
80	3.5	3.6	3.8	5.3	5.1	5.1	5.2	5		4.8	4.8		3.9	3.9		80
85	3.3	3.4	3.6	5.1	5	4.9	5	4.8	4.8	4.8	4.6		3.8	3.7		85
90	3.1	3.2	3.4	4.9	4.8	4.7	4.8	4.7	4.6	4.6	4.5	4.4	3.6	3.6	3.6	90
95	3	3.1	3.2	4.8	4.6	4.5	4.7	4.5	4.4	4.5	4.3	4.3	3.5	3.5	3.5	95
100	2.8	2.9	3	4.6	4.4	4.4	4.5	4.3	4.3	4.3	4.2	4.2	3.3	3.4	3.4	100
105	2.7	2.8	2.9	4.4	4.3	4.2	4.3	4.2	4.1	4.2	4.1	4	3.2	3.2	3.3	105
110	2.5	2.6	2.7	4.3	4.1	4.1	4.2	4.1	4	4.1	3.9	3.9	3.1	3.2	3.2	110
115	2.4	2.4	2.6	4.1	4	3.9	4.1	3.9	3.9	3.9	3.8	3.8	3	3.1	3.1	115
120	2.3	2.3	2.4	4	3.9	3.8	3.9	3.8	3.8	3.8	3.7	3.7	2.8	2.9	3	120
125	2.2	2.2		3.9	3.7	3.7	3.8	3.7	3.7	3.7	3.6	3.6	2.7	2.8	2.9	125
130	2.1	2.1		3.7	3.6	3.6	3.7	3.6	3.6	3.6	3.5	3.5	2.6	2.7	2.8	130
135				3.6	3.5	3.5	3.6	3.5	3.5	3.5	3.4	3.4	2.6	2.7	2.8	135
140				3.5	3.4	3.4	3.5	3.4	3.4	3.2	3.3	3.3	2.5	2.6	2.7	140
145				3.4	3.3	3.3	3.3	3.3	3.3	2.7	3.2	3.2		2.4	2.6	145
150				3.2	3.2	3.2	3.1	3.2	3.2	2.2	3.1	3.1		2.4	2.5	150
155				3.1	3.1	3.1	2.7	3.1	3.1		2.7	3.1		2.3	2.4	155
160				2.9	3	3	2.3	2.9	3		2.3	2.9			2.3	160
165				2.6	2.9	2.9		2.7	2.9			2.5			2.1	165
170				2.3	2.8	2.8		2.3	2.8			2.1			1.8	170
175				2	2.5	2.8		1.9	2.4							175
180					2.2	2.5			2							180

TAB 140642 / 140644 / 140646



Lifting heights
Hauteurs de levage



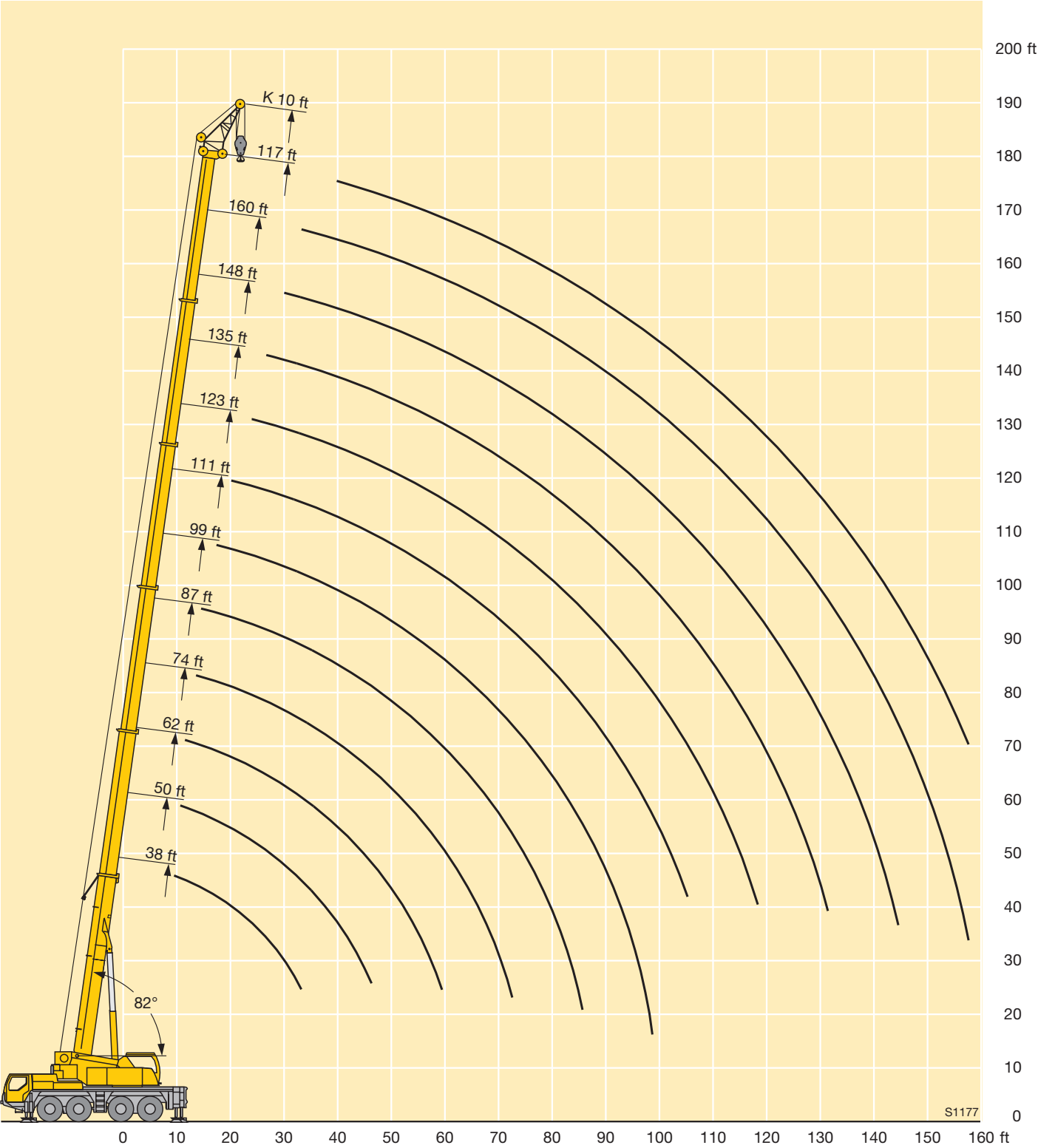


Lifting capacities on the erection jib
Forces de levage à la fléchette de montage

																															
		38 ft	50 ft	62 ft	74 ft	87 ft	99 ft	111 ft	123 ft	135 ft	148 ft	160 ft	171 ft																		
9	76.5													9																	
10	76.5													10																	
11	76.5	76.5	76.5											11																	
12	76.5	76.5	76.5											12																	
13	76.5	76.5	76.5	76.5										13																	
14	76.5	76.5	76.5	76.5	76.5	76.5								14																	
15	76.5	76.5	76.5	76.5	76.5	76.5								15																	
16	76.5	76.5	76.5	76.5	76.5	76.5	76.5							16																	
17	76.5	76.5	76.5	76.5	76.5	76.5	76							17																	
18	76.5	76.5	76.5	76.5	76.5	76.5	76	60.5						18																	
20	76.5	76.5	76.5	76.5	76.5	76.5	75	60.5						20																	
22	76.5	76.5	76.5	76.5	76.5	76.5	72	59.1	52.5					22																	
24	76	76.5	76.5	76.5	76.5	76	69.5	57.7	51.8					24																	
26	76	76.5	76.5	76.5	76.5	75.5	66.5	56.4	50.5	42.2				26																	
28	74	76.5	76	73.5	72	63.5	55	49.2	41.4	34.3				28																	
30	72.5	75	74	69.5	67.5	60.5	53.5	47.8	40.6	34.1				30																	
32	69.5	70.5	68	64	62	57.5	51.8	46	39.8	33.6	26.9			32																	
34		66	63	59.5	57.8	54.6	49.9	44.4	38.8	33.1	26.7			34																	
36		61.5	58.5	55.4	53.9	51.7	47.9	42.8	37.6	32.6	26.3			36																	
38		57	54.2	51.3	50	48.8	45.9	41.3	36.4	32.1	25.8	20.6		38																	
40		52.9	50.3	47.6	46.7	46	43.8	39.7	35.2	31.6	25.4	20.5		40																	
45		45	42.9	40.5	41.8	39.8	38.1	35.6	32.5	29.9	24.3	19.6		45																	
50			37	36.3	36.7	34.7	33.2	32	29.8	28.2	23.3	18.7		50																	
55			32	33	32.3	30.4	29.6	28.5	27.3	26.1	22.4	17.8		55																	
60				29.9	28.6	27	26.8	25.2	25	23.7	21.5	17		60																	
65				26.3	25.5	25.1	24	23.1	22.4	21.4	20.7	16.3		65																	
70				23.4	22.8	22.9	22	21.1	20.3	19.9	18.9	15.7		70																	
75					20.3	20.7	20	19.3	18.6	18.3	17	15.1		75																	
80					18.2	18.5	18	17.7	17.3	16.5	15.3	14.4		80																	
85					16.3	16.6	16.5	16.1	15.7	14.9	13.7	13.4		85																	
90						15	15.1	14.9	14.1	13.4	12.4	12.2		90																	
95						14	13.8	13.5	12.7	12.1	11.2	11		95																	
100							12.6	12.3	11.6	10.9	10.1	9.9		100																	
105								11.2	10.5	9.9	9.1	8.9		105																	
110								10.4	9.6	9	8.2	8		110																	
115								9.5	8.8	8.2	7.3	7.2		115																	
120									8.1	7.5	6.6	6.5		120																	
125									7.4	6.8	5.9	5.8		125																	
130									6.7	6.2	5.3	5.2		130																	
135										5.5	4.7	4.6		135																	
140										4.9	4.1	4		140																	
145											3.5	3.5		145																	
150											3	2.9		150																	
155											2.5	2.4		155																	

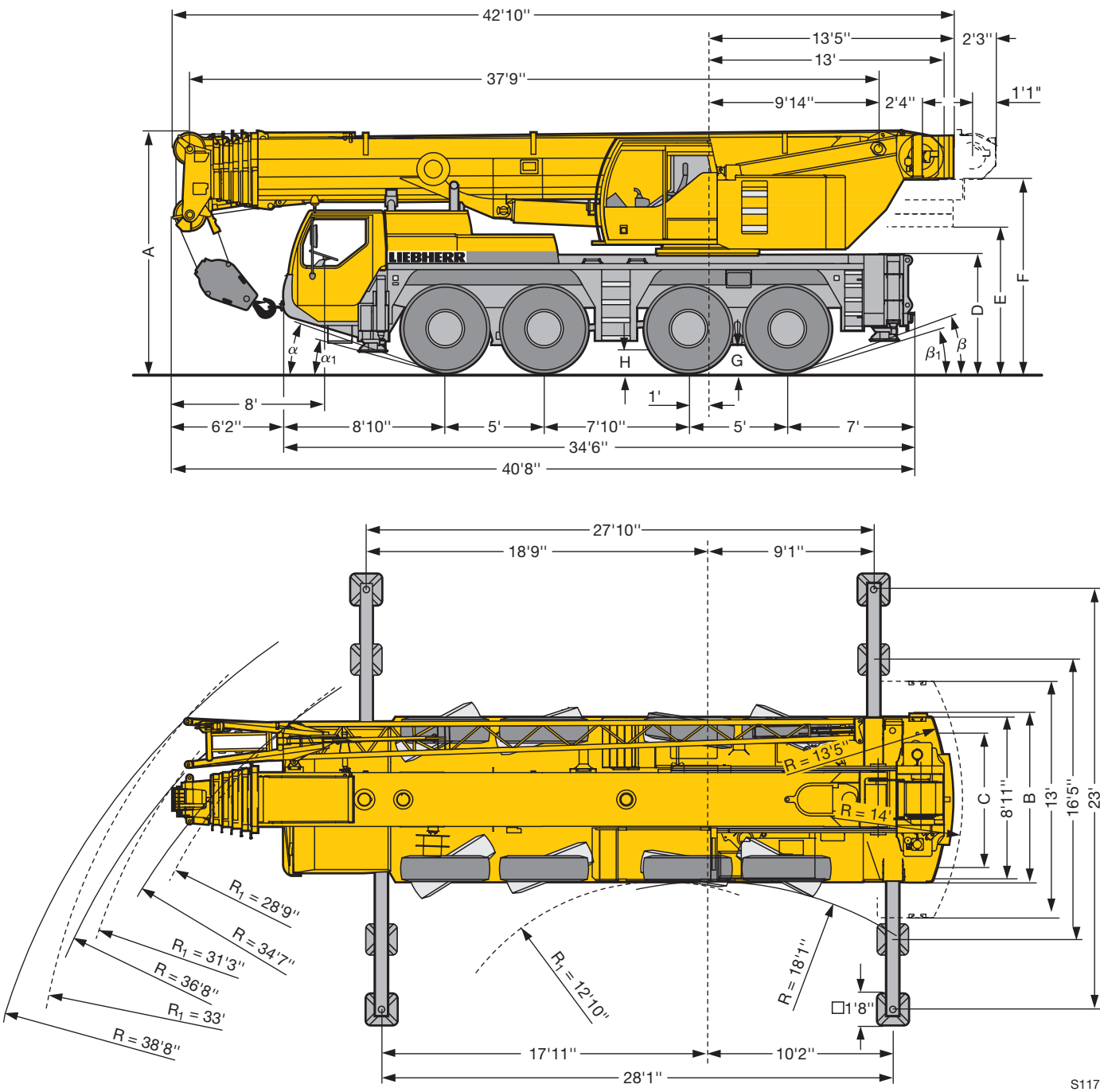
Lifting heights

Hauteurs de levage





Dimensions
Encombremet



S1170

R₁ = All-wheel steering / Direction toutes roues

Dimensions / Encombremet													
	A	A	B	C	D	E	F	G	H	α	α ₁	β	β ₁
16.00 R 25	13'1"	12'8" *	9'	7'	6'4"	7'10"	10'6"	1'5"	1'6"	20°	15°	20°	17°
20.5 R 25	13'1"	12'8"	9'9"	7'11"	6'4"	7'10"	10'6"	1'5"	1'6"	20°	15°	20°	17°

* lowered / abaissé



Weights
Poids



Axle Essieu lbs	1	2	3	4	Total weight (lbs) Poids total lbs 105600 ¹⁾
	26400	26400	26400	26400	

¹⁾ with 1760 lbs counterweight and folding jib / avec contrepoids 1760 lbs et flèche pliante



Load (kips) Forces de levage kips	No. of sheaves Poulies	No. of lines Brins	Weight lbs Poids lbs
238	7	14	2600
198	5	11	1540
130	3	7	1100
57	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	
16.00 R 25 20.5 R 25		3.5	4.5	5.8	7.5	9.4	12.2	16	20.6	26.5	34.1	43.2	50	3.8	4.8	49 %



Drive Mécanismes	infinitely variable en continu	Rope diameter / Rope length Diamètre du câble / Longueur du câble	Max. single line pull Effort au brin maxi.
	0 – 360 ft/min single line ft/min au brin simple	0'8" / 656'	19400 lbs
	0 – 360 ft/min single line ft/min au brin simple	0'8" / 656'	19400 lbs
	0 – 1.8 rpm		
	approx. 60 seconds to reach 82° boom angle env. 60 s jusqu'à 82°		
	approx. 360 seconds for boom extension from 38 ft – 171 ft env. 360 s pour passer de 38 ft – 171 ft		



Equipment
Equipment

Crane carrier

Frame	Self-manufactured, weight-optimized and torsion resistant box-type design of high-tensile structural steel.
Outriggers	4-point supporting system, hydraulically telescopable into horizontal and vertical direction. Automatic levelling of crane. Electronic inclination indicator.
Engine	6-cylinder Diesel, make Liebherr, type D 846 TI A5, watercooled, output 338 kW (460 h.p.) at 1900 min ⁻¹ acc. to ECE-R 24.03 and 2001/27/EG (Euro 3), max. torque 1546 lbs/ft at 900 – 1300 min ⁻¹ . Fuel reservoir: 106 gallons.
Transmission	ZF 12-speed gear box with automatic control system AS-TRONIC. ZF-intarder fitted directly to the gear. Two-stage transfer case with lockable transfer differential.
Axles	Welded design, made of high-tensile fine grained steel. All Axles steerable. Axles 2, 3 and 4 are planetary axles with differential locks.
Suspension	All axles are mounted on hydropneumatic suspension and are lockable hydraulically.
Tyres	8 tyres, size: 16.00 R 25.
Steering	ZF-servocom power steering, dual circuit system, with hydraulic servo system and auxiliary pump circuit. At road travel, the 4 th axle is steered electrohydraulically, and fixed for straight travel from 15,5 mph onwards. Steering acc. to EG directive 70/311/EWG.
Brakes	Service brake: Dual circuit, all-wheel servo-air brake. Parking brake: Spring brake actuator, acting on the wheels of the 1 st , 2 nd and 3 rd axle. Sustained-action brakes: Engine brake as exhaust retarder with Liebherr additional brake system ZBS. Intarder on gear. ABV in conjunction with ASR. Brakes acc. to EG directives 71/320 EWG.
Driver's cab	Spacious, steel made, corrosion resistant cab, cataphoretic dip-primed, on resilient suspension with hydraulic shock absorbers, sound and heat absorbing internal panelling acc. to EG directive, safety glazing, operating and control instruments, comfortably equipped.
Electrical system	Modern data bus technique, 24 Volt DC, 2 batteries of 170 Ah each, lighting according to traffic regulations.

Crane superstructure

Frame	Self-manufactured, cataphoretic dip-primed weight-optimized and torsion resistant welded design of high-tensile structural steel; linked by a triple-row roller slewing ring to the carrier for continuous rotation.
Crane engine	4-cylinder Diesel, make Liebherr, type D 924 TI-E A4, watercooled, output 149 kW (202 h.p.) at 1800 min ⁻¹ acc. to EPA/CARB and to directive 97/68 EG, stage 2, max. torque 646 lbs/ft at 1150 min ⁻¹ , fuel reservoir: 74 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, Liebherr hoist drum with integrated planetary gear and spring-loaded static brake.
Luffing gear	1 differential ram with safety check valves.
Slewing gear	Axial piston fixed displacement motor, planetary gear, spring-loaded static brake.
Crane cab	All-steel construction, entirely galvanized, powder coated, with safety glazing, operating and control instruments, comfortably equipped, cab tiltable backwards.
Safety devices	LICCON 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: 38 ft – 171 ft.
Counterweight	26400 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 23 ft – 46 ft 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.
Additional counterweight	22050 lbs for a total counterweight of 48500 lbs.
Drive 8 x 8	Additional drive of the 1 st axle.

Other items of equipment available on request.



Equipment
Équipement

Châssis porteur

Cadre	Construction en caisse résistante à la torsion et optimisée en poids réalisée par Liebherr en acier de construction à grain fin très rigide.
Calage	Dispositif de calage horizontal et vertical en 4 points, entièrement déployable hydrauliquement. Nivellement automatique du calage. Indicateurs électroniques d'inclinaison.
Moteur	Moteur Diesel, 6 cylindres, fabriqué par Liebherr, type D 846 TI A5, refroidi à l'eau, puissance 338 kW (460 ch) à 1900 min ⁻¹ suivant ECE-R 24.03 et 2001/27/EG (Euro 3), couple maxi 1546 lbs/ft à 900 – 1300 min ⁻¹ . Réservoir de carburant: 106 gallons.
Boîte de vitesse	Boîte de vitesses ZF à 12 rapports, mécanisme automatisé à commande AS-TRONIC. Ralentisseur hydrodynamique ZF directement accouplé à la boîte. Boîte de transfert à 2 étages avec blocage de différentiel.
Essieux	Construction soudée en acier à haute résistance fins grains. Tous les essieux directeurs. Essieux 2, 3 et 4 planétaires avec blocage différentiel.
Suspension	Suspension hydropneumatique sur tous les essieux. Chaque essieu peut être bloqué hydrauliquement.
Pneumatiques	8 pneus de taille: 16.00 R 25.
Direction	Direction hydraulique ZF-servocom, à deux circuits, assistée hydrauliquement, avec pompe auxiliaire entraînée par essieu. Lors de déplacement routier, le 4ème essieu est dirigé électrohydrauliquement, et fixé en marche directe à partir de 15,5 mph. Direction conforme aux directives européennes 70/311/CE.
Freins	Freins de service: servofrein à air comprimé, à 2 circuits. Frein à main: ressort accumulé agissant sur les roues des essieux 1, 2 et 3. Freins continus: frein moteur par clapet sur échappement avec système de ralentissement Liebherr ZBS. Ralentisseur hydrodynamique accouplé à la boîte de vitesses. ABV avec contrôle ASR. Freins conformes aux directives européennes 71/320 CE.
Cabine du conducteur	Cabine spacieuse en tôle d'acier, traitement anticorrosion par bain de cataphorèse, avec suspension élastique et amortisseurs hydrauliques, revêtement intérieur avec isolation phonique et thermique selon les directives européennes, glaces de sécurité, appareils de commande et de contrôle, équipement confortable.
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	Construction soudée résistante à la torsion et optimisée en poids réalisée par Liebherr en acier de construction à grain fin très rigide. Couronne d'orientation à rouleaux à 3 rangées permettant une rotation illimitée sert de pièce de liaison avec le châssis de la grue.
Moteur	Moteur Diesel, 4 cylindres, fabriqué par Liebherr, type D 924 TI-E A4, refroidi à l'eau, puissance 149 kW (202 PS) à 1800 min ⁻¹ selon EPA/CARB et les directives 97/68 CE, étage 2, couple maxi 646 lbs/ft à 1150 min ⁻¹ , réservoir de carburant: 74 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.
Direction	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 de marque Liebherr équipé d'un engrenage planétaire et d'un frein d'arrêt commandé par ressort.
Mécanisme de relevage	1 vérin différentiel avec soupapes de retenu.
Dispositif de rotation	Moteur à cylindrée constante à pistons axiaux, engrenage planétaire, frein d'arrêt commandé par ressort.
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 «LICCON», 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: 38 ft – 171 ft.
Contrepoids	Contrepoids principal de 26400 lbs.
Installation électrique	Technique moderne de transmission de données par BUS de données. Courant continu 24 Volts, 2 batteries de 170 Ah chacune.



Equipment Equipement

Equipement 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	Elément en treillis de 23 ft – 46 ft, de cette manière point d’articulation plus haute de 23 ft – 46 ft 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.
Contrepoids supplémentaire	22050 lbs pour un contrepoids total de 48500 lbs.
Entraînement 8 x 8	Essieu 1 est entraîné additionnellement.

Autres équipements supplémentaires sur demande.

