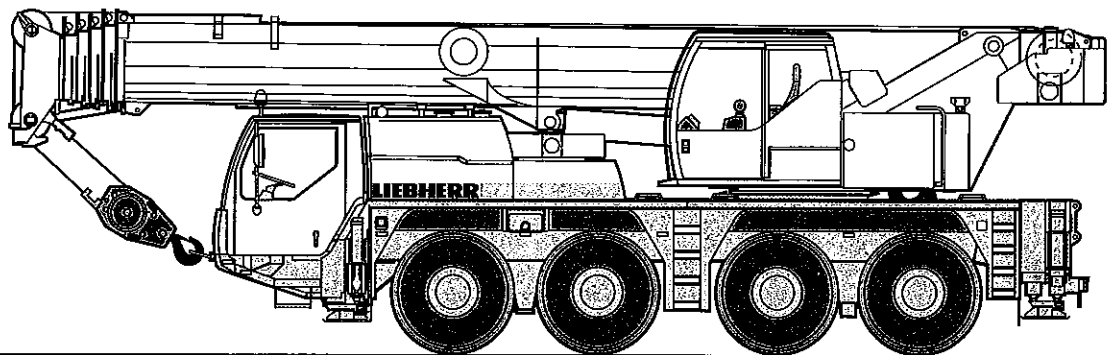


Mobile Crane Grue automotrice

LTM 1070-4.1

Technical Data
Caractéristiques techniques

MAXIM
1-877-MAX-LIFT



LIEBHERR

Courtesy of Crane.Market

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

		36 - 164 ft		360°		32000 lbs		85%		Preliminary Préliminaire					
		36 ft	48 ft	60 ft	72 ft	83 ft	95 ft	107 ft	118 ft	130 ft	142 ft	154 ft	164 ft		
8	160														8
9	155	124	124	124											9
10	147	123	122	123											10
11	137	116	116	116	97.5	80									11
12	127	110	109	110	96.5	79.5									12
13	119	104	103	104	95	78.5	63.5								13
14	112	98.5	98	98.5	92.5	77.5	63	50.2							14
15	105	93.5	93	93.5	90.5	76.5	62	50.1							15
16	98	88.5	89	88.5	87.5	75	61.5	49.6	41						16
17	92	84.5	85.5	84.5	84	74	61	49.2	40.8						17
18	87	80.5	81.5	81	80.5	72.5	60	48.7	40.6						18
20	77	73	74	74	74	69.5	58.6	47.8	40.2						20
22	69.5	67	68	68	68	65.5	57.2	46.7	39.6	31.8	24.8				22
24	62.5	61	62	62.5	62.5	60.5	54.5	45.2	39	31.6	24.7				24
26	56.7	55.7	56.7	57	57.2	54.2	50.5	43.3	38.5	31.2	24.4	19.3			26
28			52.5	52.5	52.1	49.3	46.1	41.5	37.3	30.8	24.1	19.2	16.1		28
30			48.6	48.3	47.3	44.8	42.1	39.6	36	30.4	23.8	19	16.1		30
32			44.7	45	43.4	41.2	38.8	37.4	34.7	29.7	23.4	18.8	16		32
34			41.4	41.9	40.2	38.2	36.3	35.1	33	28.8	23	18.5	15.8		34
36			38.5	39	37.4	35.8	34.1	32.9	31.2	27.9	22.6	18.3	15.7		36
38			35.5	36.1	34.6	33.4	31.9	30.6	29.3	27	22.1	18	15.5		38
40				33.3	32.2	31.1	29.9	28.5	27.5	25.9	21.6	17.8	15.4		40
45				27.8	27.7	26.6	25.9	24.6	23.5	22.1	20.4	16.9	14.8		45
50					23.8	23.1	22.5	21.4	20.5	19.7	18.5	16.1	14.2		50
55					20.5	20.2	19.6	18.9	18.2	17.6	16.4	15.3	13.6		55
60						17.8	17	16.9	16.4	15.5	14.6	14.3	12.9		60
65						15.7	15	15.2	14.5	13.7	13.5	12.6	12.1		65
70						14	13.5	13.6	13.1	12.4	12.1	11.2	10.9		70
75							12.2	12.1	11.7	11.2	10.7	9.9	9.7		75
80							11.1	10.7	10.5	10	9.5	8.8	8.6		80
85							10.1	9.6	9.4	8.9	8.4	7.8	7.6		85
90								8.8	8.5	8	7.6	6.9	6.8		90
95								8.1	7.7	7.3	6.8	6.1	6		95
100									7	6.5	6.1	5.4	5.3		100
105										5.9	5.4	4.8	4.7		105
110										5.4	4.9	4.3	4.2		110
115										4.9	4.4	3.8	3.7		115
120											4	3.3	3.3		120
125												3.5	2.9		125
130												3.1	2.5		130
135													2.1	2.1	135

* over rear / en arrière

TAB 153232 / 153233

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. Subject to modification of lifting capacities.
9. Lifting capacities above 130 kips only with additional pulley block.

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

ft	36 - 164 ft		360°		23600 lbs		85%		Preliminary Préliminaire				ft
	36 ft	48 ft	60 ft	72 ft	83 ft	95 ft	107 ft	118 ft	130 ft	142 ft	154 ft	164 ft	
9	112	112	112										
10	111	111	111										
11	105	105	105	88.5	73								
12	99	98.5	99	87.5	72.5								
13	93.5	93.5	93.5	86	71.5	57.9							
14	88.5	88.5	88.5	84.5	70.5	57.3	45.7						
15	83.5	83.5	84	82.5	69.5	56.6	45.6						
16	79.5	80	80	79.5	68.5	55.9	45.1	37.2					
17	75.5	76.5	76.5	76	67	55.3	44.7	37.1					
18	72	73	73	73	66	54.6	44.3	36.9					
20	65	66	66.5	66	62.5	53	43.4	36.5					
22	58.9	59.9	60	59.5	55.8	50	42.5	36	28.9	22.6			
24	53.3	54.4	54.3	53.4	49.8	46.2	41	35.5	28.7	22.4			
26	48.2	49.7	49	47.8	44.7	41.8	39.1	35	28.4	22.2	17.6		
28		45.3	45.1	43.4	40.7	38.3	36.3	33.4	28	21.9	17.4	14.6	
30		41	41.4	39.4	37.1	35.2	33.6	31.6	27.6	21.6	17.2	14.6	
32		36.7	37.5	36.2	34.5	32.8	31.1	29.6	27	21.3	17.1	14.5	
34		33.2	34.2	33.4	32.2	30.7	29	27.7	25.7	20.9	16.8	14.4	
36		30.4	31.3	31	30	28.7	27.1	25.8	24	20.5	16.6	14.3	
38		27.5	28.4	28.6	27.7	26.8	25.3	24	22.3	20.1	16.4	14.1	
40			25.9	26.4	25.8	25	23.6	22.4	20.9	19.5	16.1	14	
45			21.4	21.8	22	21.3	20.6	19.5	18.6	17.2	15.4	13.5	
50				18.5	18.8	18.3	17.9	17.1	16.2	15.5	14.3	12.9	
55				16	16	15.7	15.7	15	14.3	13.8	12.8	12.1	
60					13.9	13.7	13.8	13.2	12.9	12.1	11.1	10.8	
65					12.1	12.2	12	11.7	11.3	10.6	9.7	9.5	
70					10.7	10.9	10.6	10.4	9.9	9.4	8.5	8.3	
75						9.7	9.5	9.2	8.7	8.2	7.4	7.3	
80						8.7	8.4	8.1	7.7	7.2	6.5	6.3	
85						7.8	7.5	7.3	6.8	6.4	5.7	5.5	
90							6.7	6.5	6.1	5.6	5	4.8	
95							6	5.8	5.4	5	4.3	4.2	
100								5.2	4.8	4.4	3.7	3.6	
105									4.2	3.8	3.2	3.1	
110									3.7	3.3	2.7	2.6	
115									3.2	2.8	2.3	2.2	
120										2.4			

TAB 153051

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 moules 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 dépliable déposée.
8. Charges données sous réserve de modification.
9. Les charges supérieures à 130 kips ne peuvent être levées qu'avec poulie supplémentaire.

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

		36 ft		48 ft		60 ft			
		32000 lbs	23600 lbs	32000 lbs	23600 lbs	32000 lbs	23600 lbs		
9	30.5	29.8	32	31.2	32.6	31.8	9		
10	30.2	29.5	31.6	30.9	32.3	31.5	10		
11	28.1	27.4	29.5	28.8	30.2	29.5	11		
12	26.1	25.5	27.6	26.9	28.2	27.6	12		
13	24.3	23.7	25.8	25.2	26.5	25.8	13		
14	22.8	22.2	24.2	23.6	24.9	24.3	14		
15	21.3	20.7	22.8	22.2	23.5	22.9	15		
16	20	19.4	21.5	20.9	22.1	21.6	16		
17	18.8	18.3	20.3	19.7	21	20.4	17		
18	17.7	17.2	19.2	18.7	19.9	19.4	18		
20	15.6	15.1	17.1	16.7	17.8	17.3	20		
22	13.9	13.5	15.4	15	16.1	15.7	22		
24	12.4	12	13.9	13.5	14.6	14.2	24		
26	11.1	10.7	12.5	12.1	13.2	12.9	26		
28			11.4	11	12.1	11.7	28		
30			10.3	9.9	11	10.7	30		
32			9.3	9	10.1	9.7	32		
34			8.5	8.2	9.3	8.9	34		
36			7.8	7.5	8.5	8.2	36		
38			7.1	6.8	7.8	7.5	38		
40					7.1	6.8	40		
45					5.7	5.5	45		

0° = over rear / en arrière

Tyre size / dimensions de pneumatiques: 16.00 R 25, 20.5 R 25

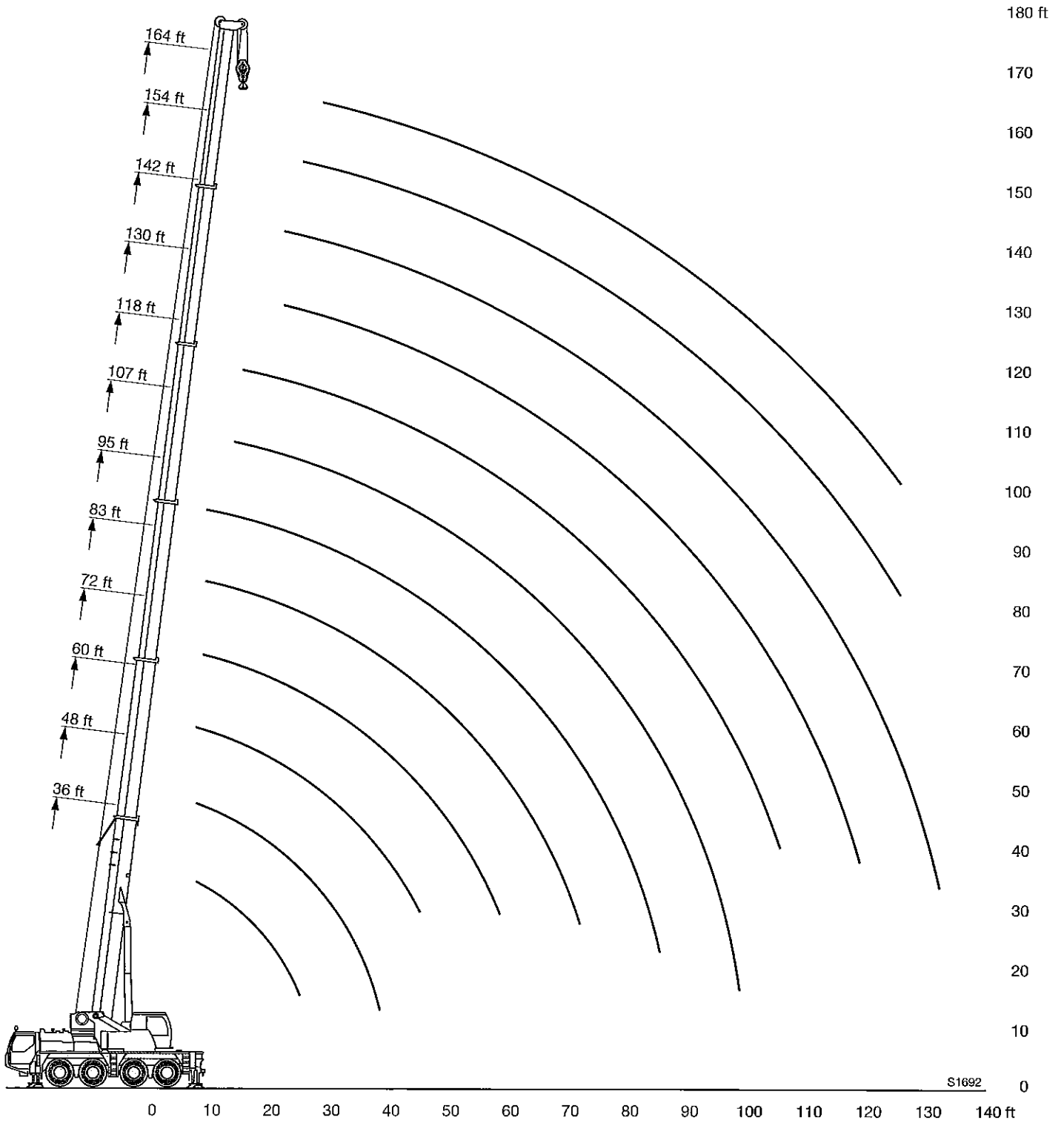
TAB 153200 / 153203

		36 ft		48 ft		60 ft			
13	18.5		18.1				13		
14	17.1		17.5				14		
15	15.7		16.8		15.9		15		
16	14.5		15.8		15.4		16		
17	13.4		14.8		14.8		17		
18	12.3		13.8		14.1		18		
20	10.4		11.8		12.7		20		
22	9		10.3		11.1		22		
24	7.7		9.1		9.7		24		
26	6.7		8		8.6		26		
28			7.1		7.7		28		
30			6.2		6.9		30		
32			5.4		6.2		32		
34					5.5		34		
36					4.8		36		
38					4.2		38		

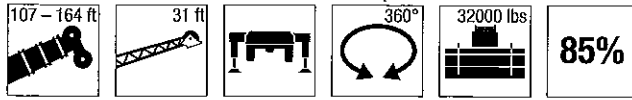
Tyre size / dimensions de pneumatiques: 16.00 R 25, 20.5 R 25

TAB 153219

Lifting heights Hauteurs de levage



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



Preliminary
Préliminaire

ft	107 ft				118 ft				130 ft				142 ft				154 ft				164 ft				ft			
	31 ft				31 ft				31 ft				31 ft				31 ft				31 ft							
	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°				
14	25.1																								14			
15	25.1																									15		
16	25.1						19.7																			16		
17	25.1						19.6																			17		
18	25.1						19.5				16.7															18		
20	25.1						19.1				16.7															20		
22	25.1						18.8				16.4				11.7											22		
24	25.1						18.5				16.2				11.7			10.3								24		
26	25.1	18.5					18.2				16				11.7			10.3								26		
28	24.8	18.2					18	15.7			15.8				11.6			10.3				8.7				28		
30	24.5	17.8					17.7	15.7			15.6				11.5			10.3				8.7				30		
32	24.1	17.4	14				17.5	15.6			15.5	13.5			11.4			10.3				8.7				32		
34	23.7	17.1	13.8				17.3	15.5			15.3	13.5			11.3			10.2				8.7				34		
36	23.4	16.8	13.6				17.1	15.3			15.2	13.4			11.1			10.1				8.6				36		
38	23	16.5	13.3	11.1			16.9	15.1	12.9		15	13.3	12.4		11	10		9.9	9			8.5	7.7			38		
40	22.5	16.2	13.1	11.1			16.7	15	12.9		14.9	13.3	12.4		10.9	10		9.8	9			8.4	7.7			40		
45	20.8	15.6	12.8	10.9			16.1	14.4	12.5	10.7	14.6	13.2	12.2	10.7	10.5	10	9.7	9.6	8.9	8.6		8.2	7.6			45		
50	18.2	15.1	12.5	10.8			15.3	13.7	12.1	10.7	14.1	12.7	11.8	10.7	10.2	9.8	9.5	9.6	9.4	8.9	8.6	9.1	8	7.6	7.4		50	
55	15.8	14.7	12.2	10.7			14.4	13	11.6	10.6	13.5	12.2	11.4	10.6	9.8	9.5	9.2	9.4	9.2	8.7	8.5	9	7.9	7.5	7.4	7.9	55	
60	13.8	14.1	12	10.6			13.5	12.2	11.1	10.5	12.7	11.6	11	10.5	9.4	9	8.9	9	9	8.5	8.5	8.7	7.7	7.4	7.4	7.8	60	
65	12.7	12.9	11.8	10.5			12.4	11.5	10.7	10.4	11.3	11.2	10.6	10.4	8.9	8.6	8.5	8.6	8.6	8.3	8.3	8.4	7.6	7.3	7.4	7.6	65	
70	11.7	11.4	11.6	10.5			11	10.9	10.3	10.2	10	10.6	10.2	10.2	8.5	8.2	8.1	8.2	8.3	8	7.9	8.1	7.3	7.1	7.2	7.3	70	
75	10.6	10.3	10.7	10.3			9.7	10.2	10	9.9	8.7	9.6	9.8	9.9	8.1	7.8	7.8	7.9	7.9	7.7	7.6	7.7	7.1	6.9	6.9	7	75	
80	9.5	9.6	9.6	9.9			8.6	9.3	9.5	9.6	7.8	8.4	9.1	9.4	7.7	7.5	7.4	7.5	7.5	7.4	7.3	7.4	6.8	6.7	6.7	6.8	80	
85	8.4	9	9.2	9.3			7.6	8.3	8.8	9	7.2	7.4	8	8.3	7.3	7.1	7.1	7.2	6.6	7.1	7.1	7.2	6.3	6.5	6.4	6.5	85	
90	7.6	8	8.3	8.4			6.8	7.4	7.8	8	6.9	6.8	7	7.3	6.6	6.9	6.8	6.9	5.8	6.4	6.8	6.9	5.5	6.1	6.2	6.3	90	
95	6.8	7.2	7.4	7.5			6	6.5	6.9	7.1	6.4	6.4	6.5	6.7	5.8	6.3	6.5	6.7	5	5.6	6.1	6.3	4.8	5.5	5.8	6	95	
100	6	6.4	6.6	6.6			5.3	5.8	6.1	6.2	5.8	6.1	6.2	6.3	5.1	5.7	6.1	6.3	4.4	4.9	5.4	5.6	4.2	4.8	5.2	5.5	100	
105	5.4	5.7	5.9	5.8			4.7	5.1	5.4	5.5	5.1	5.6	5.9	6	4.5	5	5.4	5.5	3.8	4.3	4.7	4.9	3.6	4.1	4.5	4.8	105	
110	4.8	5.1	5.2	5.1			4.1	4.5	4.7	4.8	4.6	5	5.2	5.3	4	4.4	4.7	4.8	3.2	3.7	4.1	4.2	3	3.6	3.9	4.1	110	
115	4.2	4.5	4.6				3.6	4	4.1	4.1	4.1	4.4	4.6	4.7	3.5	3.9	4.1	4.2	2.7	3.2	3.5	3.6	2.5	3	3.4	3.5	115	
120	3.7	3.9					3.1	3.4	3.6		3.6	3.9	4.1	4.1	3	3.4	3.6	3.7	2.3	2.7	3	3	2.1	2.5	2.8	3	120	
125							2.6	2.9	3		3.1	3.4	3.6	3.5	2.6	2.9	3.1	3.1	1.8	2.2	2.5	2.5		2.1	2.4	2.4	125	
130							2.2	2.4	2.4		2.7	2.9	3.1	2.9	2.2	2.5	2.7	2.6	1.4	1.8	2	2		1.7	1.9	2	130	
135							1.8	1.9			2.3	2.5	2.6		1.8	2.1	2.2	2.2			1.6	1.6			1.5	1.5	135	
140											1.9	2.1	2.1				1.7	1.8	1.7								140	
145																												145
150																												150

TAB 153498 / 153499 / 153500 / 153501

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

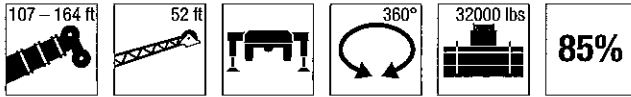


Preliminary
Préliminaire

ft	36 ft				48 ft				60 ft				72 ft				83 ft				95 ft				ft
	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	
9	19.1				19.4				18.9																9
10	19.1				19.3				18.9																10
11	18.7				19				18.7				17.4												11
12	18.3				18.7				18.5				17.4												12
13	17.9				18.4				18.3				17.2				16.5								13
14	17.4				18				18				17.1				16.4				15				14
15	17				17.7				17.7				17				16.4				15				15
16	16.5				17.3				17.4				16.8				16.3				14.9				16
17	16				16.9				17.1				16.5				16.1				14.8				17
18	15.6				16.6				16.8				16.3				16				14.7				18
20	14.7				15.8				16.2				15.8				15.6				14.6				20
22	14.1	9.6			15				15.6				15.3				15.2				14.3				22
24	13.5	9.4			14.3				15				14.9				14.8				14				24
26	12.8	9			13.8	9.2			14.3	9.4			14.4				14.4				13.7				26
28	12.2	8.7			13.2	9			13.8	9.1			13.9	8.9			14.1	9			13.4				28
30	11.6	8.4			12.7	8.7			13.2	8.9			13.5	8.9			13.7	8.9			13.1				30
32	11.1	8.1			12.1	8.4			12.8	8.6			13	8.7			13.3	8.7			12.7	8.5			32
34	10.6	7.9			11.6	8.2			12.2	8.4			12.6	8.4			12.9	8.5			12.3	8.4			34
36	10	7.6			11.2	7.9			11.7	8.2			12.1	8.2			12.5	8.3			11.9	8.2			36
38	9.5	7.4	6.1		10.7	7.7	6.2		11.2	8	6.3		11.7	8.1			12.1	8.2			11.6	8.1			38
40	9.1	7.2	6.1		10.3	7.5	6.2		10.8	7.8	6.2		11.3	7.9			11.7	8			11.2	7.9			40
45	8.4	6.7	5.8	5.5	9.2	7.1	5.9		10	7.3	6		10.3	7.4	6		10.8	7.6	6		10.6	7.5	6		45
50	7.7	6.3	5.6	5.3	8.5	6.7	5.7	5.3	9.2	6.9	5.8	5.3	9.6	7.1	5.8		10	7.2	5.9		10	7.2	5.8		50
55	7.1	6	5.4	5.2	7.9	6.3	5.5	5.3	8.5	6.6	5.6	5.3	9	6.7	5.7	5.3	9.4	6.9	5.7	5.3	9.4	6.9	5.7	5.2	55
60	6.6	5.7	5.2	5.1	7.3	6	5.3	5.2	8	6.3	5.4	5.2	8.4	6.4	5.5	5.2	8.8	6.6	5.5	5.2	8.9	6.7	5.5	5.2	60
65	6.1	5.4	5.1	5.1	6.9	5.7	5.2	5.1	7.5	6	5.3	5.1	7.9	6.2	5.4	5.1	8.3	6.4	5.4	5.1	8.5	6.4	5.4	5.1	65
70	5.7	5.2	5.1		6.4	5.5	5.1	5.1	7	5.8	5.2	5.1	7.5	5.9	5.2	5.1	7.9	6.1	5.3	5.1	8	6.2	5.3	5.1	70
75	5.4	5.1			6	5.3	5	5.1	6.6	5.6	5.1	5.1	7.1	5.7	5.1	5.1	7.5	5.9	5.2	5.1	7.7	6	5.2	5.1	75
80					5.7	5.1	5		6.2	5.4	5	5.1	6.7	5.6	5.1	5.1	7.1	5.7	5.1	5.1	7.3	5.8	5.1	5.1	80
85					5.4	5.1	5		5.9	5.2	5	5.1	6.4	5.4	5	5.1	6.8	5.6	5	5.1	7	5.6	5.1	5.1	85
90					5.2				5.6	5.1	5		6	5.3	5	5.1	6.5	5.4	5	5.1	6.7	5.5	5	5.1	90
95									5.4	5	5		5.8	5.1	5	5.1	6.2	5.3	5	5.1	6.4	5.4	5	5.1	95
100													5.5	5	5		5.8	5.2	4.9	5.1	6.1	5.3	4.9	5.1	100
105													5.3	5			5.4	5.1	4.9	5.1	5.6	5.2	4.9	5.1	105
110													5.1	5			4.7	5	4.9	4.9	5.1	5.1	4.9	5.1	110
115																	4.2	4.6	4.6		4.5	4.9	4.9	4.9	115
120																	3.6	4			4	4.5	4.7		120
125																					3.5	3.9	4		125
130																					3.1	3.4	3.4		130
135																					2.7	2.9			135

TAB 153498 / 153499 / 153500 / 153501

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

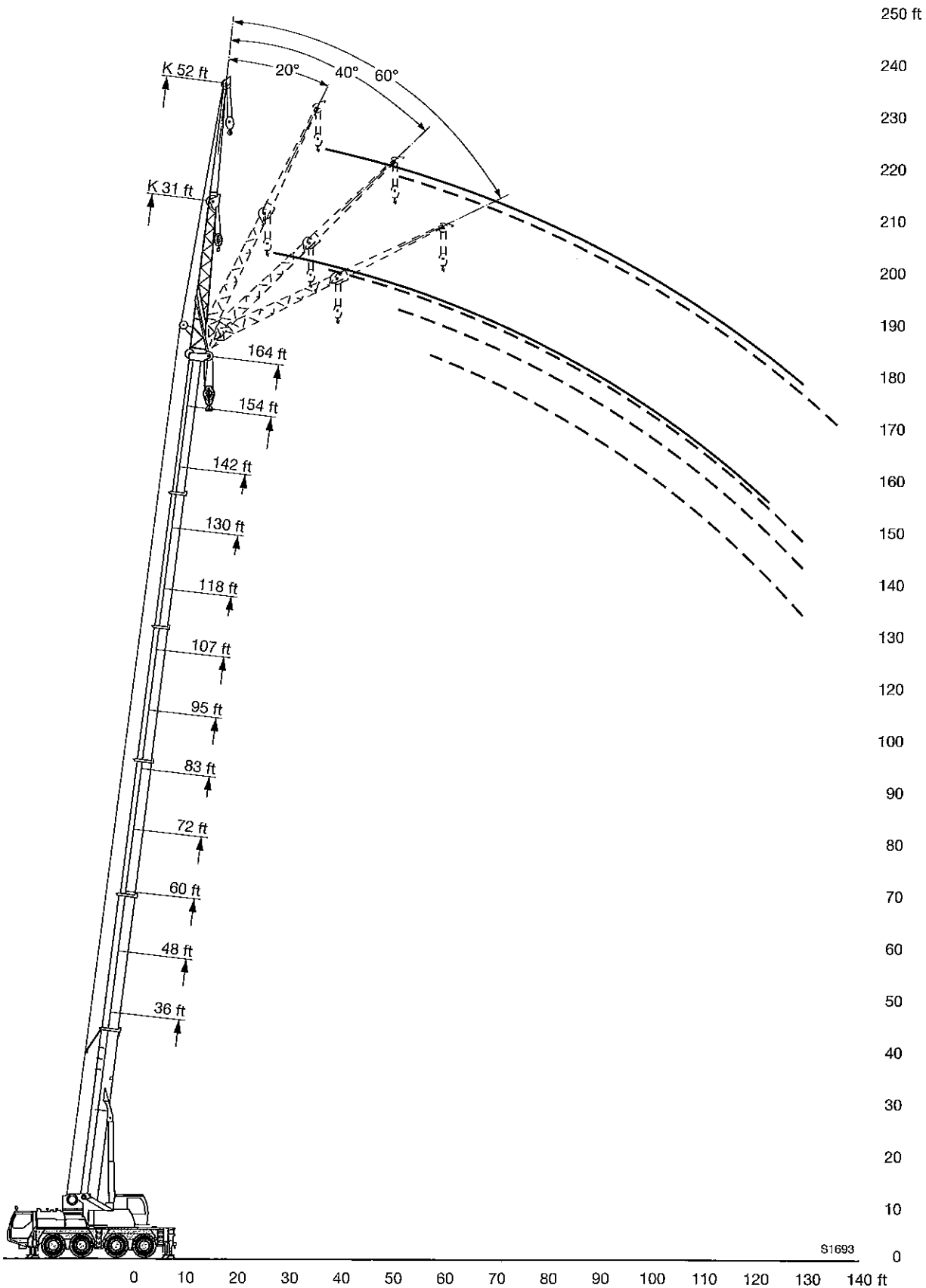


Preliminary
Préliminaire

ft	107 ft				118 ft				130 ft				142 ft				154 ft				164 ft		ft
	52 ft				52 ft				52 ft				52 ft				52 ft				52 ft		
	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	
16	13.9																						16
17	13.8																						17
18	13.7																						18
20	13.4																						20
22	13.1				10.8																		22
24	12.8				10.7			9.9															24
26	12.6				10.6			9.9				8											26
28	12.3				10.5			9.8				7.9					7.1						28
30	12.1				10.5			9.7				7.7					7.1						30
32	11.9				10.4			9.6				7.6					6.9						32
34	11.6				10.3			9.5				7.5					6.8						34
36	11.4				10.1			9.4				7.4					6.8						36
38	11.2	7.9			10	7.5		9.3				7.3					6.7						38
40	10.9	7.9			9.9	7.5		9.2				7.2					6.6						40
45	10.4	7.5			9.6	7.2		8.9	7			7.1	6.4				6.4						45
50	9.9	7.2	5.7		9.3	7	5.6	8.8	6.9			6.9	6.3				6.3	5.8					50
55	9.4	7	5.7	5.2	9	6.7	5.6	8.6	6.6	5.4		6.8	6.2	5.3			6.2	5.7					55
60	9	6.7	5.5	5.2	8.7	6.5	5.5	8.3	6.5	5.4		6.6	6.1	5.3			6.1	5.7					60
65	8.5	6.5	5.4	5.1	8.4	6.3	5.3	8.1	6.3	5.3	5	6.5	5.9	5.2	4.9	6	5.7	5.1					65
70	8.2	6.3	5.3	5.1	8.1	6.1	5.3	7.9	6.1	5.2	5	6.4	5.8	5.1	4.9	5.9	5.6	5	4.8				70
75	7.8	6.1	5.2	5	7.8	6	5.2	7.7	5.9	5.1	5	6.4	5.7	5	4.9	5.8	5.5	5	4.8	5	4.8		75
80	7.5	5.9	5.1	5	7.5	5.8	5.1	7.4	5.8	5.1	4.9	6.3	5.6	5	4.9	5.7	5.5	4.9	4.8	5	4.8		80
85	7.2	5.7	5.1	5	7.3	5.7	5	7.1	5.7	5	4.9	6.2	5.5	4.9	4.9	5.7	5.4	4.9	4.8	4.9	4.8		85
90	7	5.6	5	5	7	5.5	5	6.4	5.5	5	4.9	6	5.4	4.9	4.9	5.6	5.3	4.8	4.8	4.9	4.8		90
95	6.7	5.5	5	5	6.5	5.4	4.9	5.8	5.4	4.9	4.9	5.7	5.3	4.8	4.9	5.2	5.2	4.8	4.8	4.7	4.7		95
100	6.4	5.4	4.9	5	5.8	5.3	4.9	5.4	5.3	4.9	4.9	5.4	5.1	4.8	4.9	4.6	5.1	4.8	4.8	4.4	4.7		100
105	5.9	5.3	4.9	5	5.2	5.2	4.9	5.1	5.2	4.9	4.9	4.8	5	4.8	4.9	4	5	4.7	4.8	3.8	4.6		105
110	5.3	5.1	4.9	5	4.6	5.1	4.9	4.8	4.9	4.8	4.9	4.2	4.9	4.7	4.9	3.5	4.4	4.7	4.8	3.3	4.1		110
115	4.8	5	4.9	5	4.1	4.8	4.9	4.3	4.7	4.7	4.9	3.7	4.5	4.6	4.8	3	3.8	4.4	4.6	2.8	3.6		115
120	4.3	4.8	4.8	4.9	3.7	4.2	4.7	3.9	4.4	4.6	4.7	3.3	4	4.4	4.6	2.6	3.3	3.9	4.2	2.3	3.1		120
125	3.9	4.3	4.5	4.4	3.2	3.7	4.1	3.4	4	4.4	4.5	2.8	3.5	4	4.2	2.1	2.8	3.4	3.7	1.9	2.7		125
130	3.4	3.8	4	3.7	2.8	3.3	3.6	3	3.6	3.9	4	2.5	3	3.5	3.6	1.7	2.4	2.9	3.1	1.6	2.2		130
135	3	3.3	3.4		2.4	2.9	3.1	2.7	3.1	3.5	3.5	2.1	2.6	3	3.1		2	2.5	2.6		1.9		135
140	2.6	2.9			2	2.4	2.6	2.3	2.8	3	3	1.8	2.3	2.6	2.6		1.6	2	2.1				140
145	2.3				1.7	2	2.1	2	2.4	2.6	2.4		1.9	2.2	2.2								145
150	1.9				1.4	1.6	1.6	1.7	2	2.2	1.9		1.6	1.8	1.8								150
155								1.7	1.7	1.7			1.5										155

TAB 153498 / 153499 / 153500 / 153501

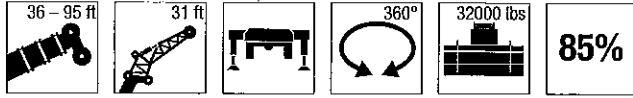
Lifting heights Hauteurs de levage



S1693

Lifting capacities on the hydraulically variable folding jib

Capacités de levage à la flèche pliante à variation hydraulique



Preliminary
Préliminaire

ft	36 ft				48 ft				60 ft				72 ft				83 ft				95 ft				ft						
	31 ft				31 ft				31 ft				31 ft				31 ft				31 ft										
	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°		0°	20°	40°	60°		
12	25.1				25.1				25.1				25.1				25.1				25.1				25.1				12		
14	25.1	22.8			25.1	23.2			25.1				25.1				25.1				25.1				25.1				14		
17	25.1	21.2			25.1	22.1			25.1	22.6			25.1	21.3			25.1	21.3			25.1				25.1	19.8			17		
20	25.1	19.8	15		25.1	20.7	15.3		25.1	21.3			25.1	21.2			25.1	21.3			25.1	21.3			25.1	19.8			20		
23	25.1	18.6	15		25.1	19.6	15.3		25.1	20.2			25.1	20.3			25.1	20.4			25.1	20.4			25.1	19.8			23		
26	25.1	17.6	14.5	11.6	25.1	18.6	14.8		25.1	19.3	14.9		25.1	19.3	14.9		25.1	19.6			25.1	19.6			25.1	19			26		
29	23.7	16.6	14.1	11.3	25.1	17.7	14.4	11.4	25.1	18.4	14.6		25.1	18.6	14.6		25.1	18.8	14.6		25.1	18.8	14.6		25.1	18.4	14.4		29		
32	21.7	15.8	13.7	11.1	24.8	16.9	14	11.2	25.1	17.7	14.2	11.4	25.1	17.9	14.3	11.4	25.1	18.2	14.3	11.4	25.1	18.2	14.3	11.4	25.1	17.8	14.2		32		
35	19.9	15.2	13.2	10.9	23.5	16.2	13.5	11	24.7	17	13.9	11.2	24.9	17.2	14	11.2	25.1	17.6	14	11.3	24.8	17.3	13.8		25.1	17.3	13.8		35		
38	18.2	14.6	12.7	10.7	21.8	15.6	13.1	10.9	24	16.3	13.5	11	24.7	16.7	13.7	11.1	25.1	17	13.7	11.2	24.3	16.7	13.4	11.1		25.1	16.7	13.4	11.1	38	
44	15.2	13.5	11.9	10.7	18.7	14.5	12.4	10.7	21.6	15.2	12.8	10.7	22.9	15.6	13.1	10.8	22.9	16	13.1	10.9	22.7	15.9	12.9	10.9		25.1	15.9	12.9	10.9	44	
50	13.1	12.5	11.5	10.7	16.2	13.6	11.9	10.6	18.9	14.4	12.3	10.6	20.6	14.8	12.5	10.7	19.6	15.2	12.6	10.7	19.8	15.2	12.5	10.7		25.1	15.2	12.5	10.7	50	
56	11.3	11.9			14.1	12.8	11.5	10.6	16.6	13.7	11.9	10.5	17.9	14.1	12.1	10.6	16.4	14.5	12.3	10.6	16.7	14.6	12.2	10.6		25.1	14.6	12.2	10.6	56	
62					12.4	12.1	11.4		14.7	13	11.5	10.5	15.3	13.5	11.7	10.5	13.9	13.9	12	10.6	14.3	14	12	10.6		25.1	14.3	14	12	62	
68									13	12.3	11.4	10.5	13.1	12.9	11.5	10.5	11.9	12.8	11.7	10.5	12.3	13	11.7	10.5		25.1	13	11.7	10.5	68	
74									11.5	11.6	11.2		11.2	11.8	11.2	10.5	10.2	10.9	11.1	10.4	10.6	11.3	11.3	10.5		25.1	11.3	11.3	10.5	74	
80													9.6	10.1	10.3		8.7	9.3	9.7	9.7	9.2	9.8	10.3	10.3		25.1	9.8	10.3	10.3	80	
86													8.4	8.7			7.5	8	8.2	8.2	8	8.5	8.8	8.9		25.1	8.5	8.8	8.9	86	
92																	6.4	6.8	7		6.9	7.3	7.6	7.6		25.1	7.3	7.6	7.6	92	
98																	5.4	5.7	5.8		6	6.3	6.5	6.4		25.1	6.3	6.5	6.4	98	
104																	4.6	4.7			5.1	5.5	5.6			25.1	5.5	5.6		104	
110																					4.4	4.6	4.6			25.1	4.6	4.6		110	
116																					3.7						25.1	3.7			116

TAB 153506 / 153507 / 153508 / 153509

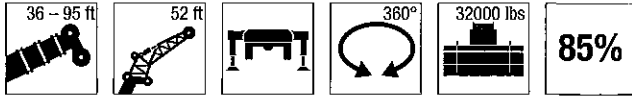


Preliminary
Préliminaire

ft	107 ft				118 ft				130 ft				142 ft				154 ft				164 ft				ft					
	31 ft				31 ft				31 ft				31 ft				31 ft				31 ft									
	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°		0°	20°	40°	60°	
14	25.1																													14
17	25.1																													17
20	25.1																													20
23	25.1																													23
26	25.1	18.5																												26
29	24.6	18																												29
32	24.1	17.4	14																											32
35	23.5	17	13.7																											35
38	23	16.5	13.3	11.1																										38
44	21.2	15.8	12.8	10.9																										44
50	18.2	15.1	12.4	10.8																										50
56	15.3	14.6	12.2	10.7																										56
62	13	13.6	12	10.6																										62
68	11	12	11.7	10.5																										68
74	9.4	10.3	10.9	10.4																										74
80	8	8.8	9.4	9.7																										80
86	6.9	7.5	8	8.2																										86
92	5.9	6.4	6.8	7																										92
98	5	5.5	5.8	5.9																										98
104	4.3	4.6	4.9	4.9																										104
110	3.5	3.9	4	3.9																										110
116	2.8	3.1	3.2																											116
122	2.2	2.4																												122
128																														128
134																														134
140																														140

TAB 153506 / 153507 / 153508 / 153509

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



Preliminary
Préliminaire

ft	36 ft				48 ft				60 ft				72 ft				83 ft				95 ft				ft
	52 ft				52 ft				52 ft				52 ft				52 ft				52 ft				
	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	
12	18.3				18.7				18.5				17.4								15				12
14	17.4				18				18				17.1								14.8				14
17	16				16.9				17.1				16.5								14.6				17
20	14.7	9.6			15.8				16.2				15.8								14.6				20
23	13.8	9.5			14.6				15.3				15.1								14.1				23
26	12.8	9			13.8	9.2			14.3	9.4			14.4								13.7				26
29	11.9	8.5			13	8.8			13.5	9			13.7	8.9							13.2				29
32	11.1	8.1			12.1	8.4			12.8	8.6			13	8.7							12.7	8.5			32
35	10.3	7.8			11.4	8.1			12	8.3			12.3	8.3							12.7	8.4			35
38	9.5	7.4	6.1		10.7	7.7	6.2		11.2	8	6.3		11.7	8.1							12.1	8.2			38
44	8.5	6.8	5.9		9.4	7.1	6		10.1	7.4	6		10.5	7.5	6						11	7.7	6		44
50	7.7	6.3	5.6	5.3	8.5	6.7	5.7	5.3	9.2	6.9	5.8	5.3	9.6	7.1	5.8						10	7.2	5.9		50
56	7	5.9	5.3	5.2	7.8	6.3	5.5	5.2	8.4	6.5	5.6	5.3	8.9	6.7	5.6	5.3					9.3	6.9	5.7	5.3	56
62	6.4	5.6	5.2	5.1	7.2	5.9	5.3	5.2	7.8	6.2	5.4	5.2	8.2	6.3	5.4	5.2					8.6	6.5	5.5	5.2	62
68	5.9	5.3	5.1		6.6	5.6	5.1	5.1	7.2	5.9	5.2	5.1	7.6	6	5.3	5.1					8.1	6.2	5.3	5.1	68
74	5.4	5.1			6.1	5.3	5	5.1	6.7	5.6	5.1	5.1	7.1	5.8	5.2	5.1					7.6	6	5.2	5.1	74
80					5.7	5.1	5		6.2	5.4	5	5.1	6.7	5.6	5.1	5.1					7.1	5.7	5.1	5.1	80
86					5.3				5.9	5.2	5		6.3	5.4	5	5.1					6.7	5.5	5	5.1	86
92									5.5	5.1	5		5.9	5.2	5	5.1					6.3	5.4	5	5.1	92
98									5.2	5	5		5.6	5.1	5	5.1					6	5.2	4.9	5.1	98
104													5.3	5	5						5.5	5.1	4.9	5.1	104
110													5.1	5							4.7	5	4.9	4.9	110
116																					4.1	4.5	4.5		116
122																					3.4	3.7			122
128																									128
134																									134

TAB 153506 / 153507 / 153508 / 153509

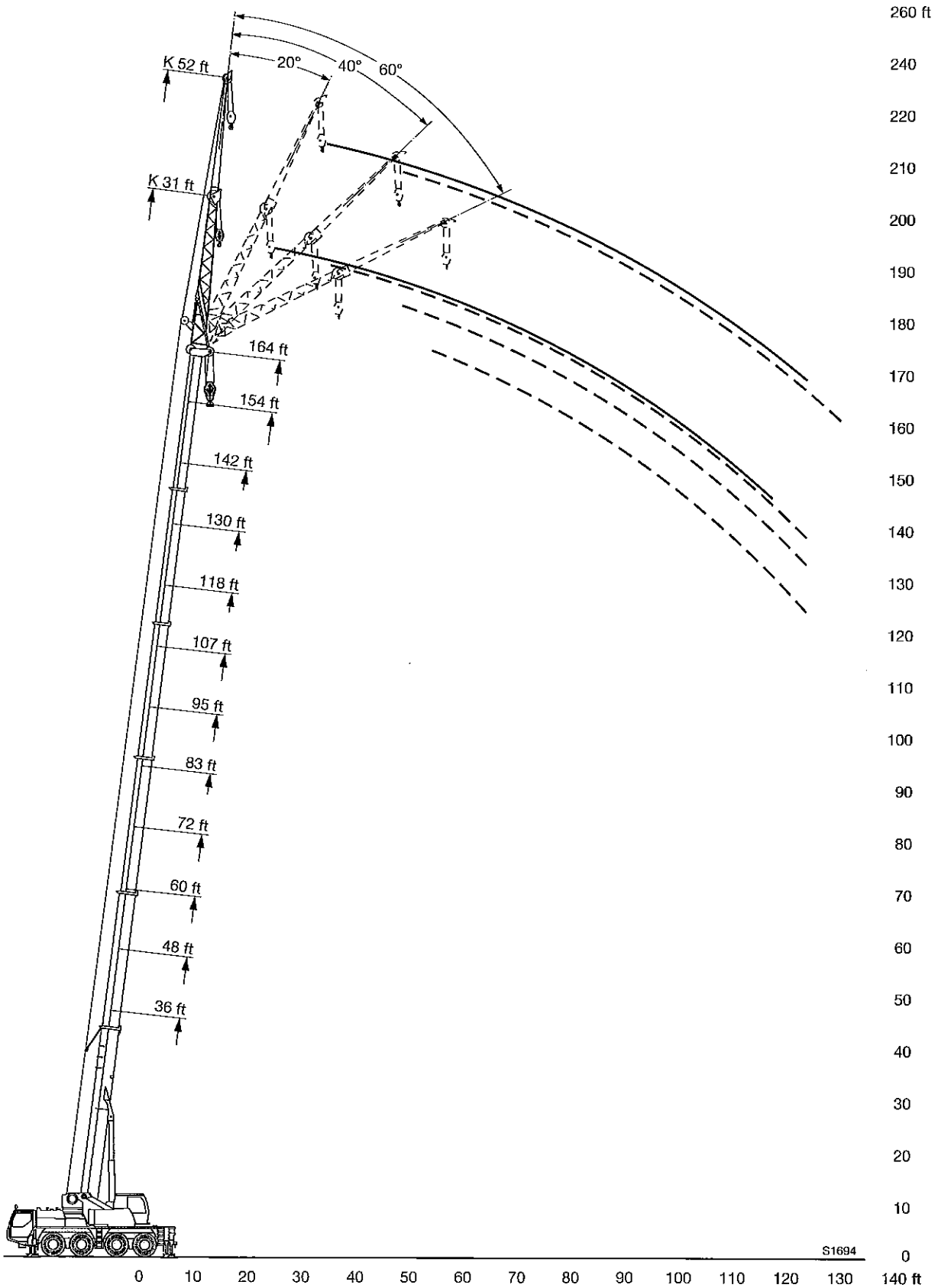


Preliminary
Préliminaire

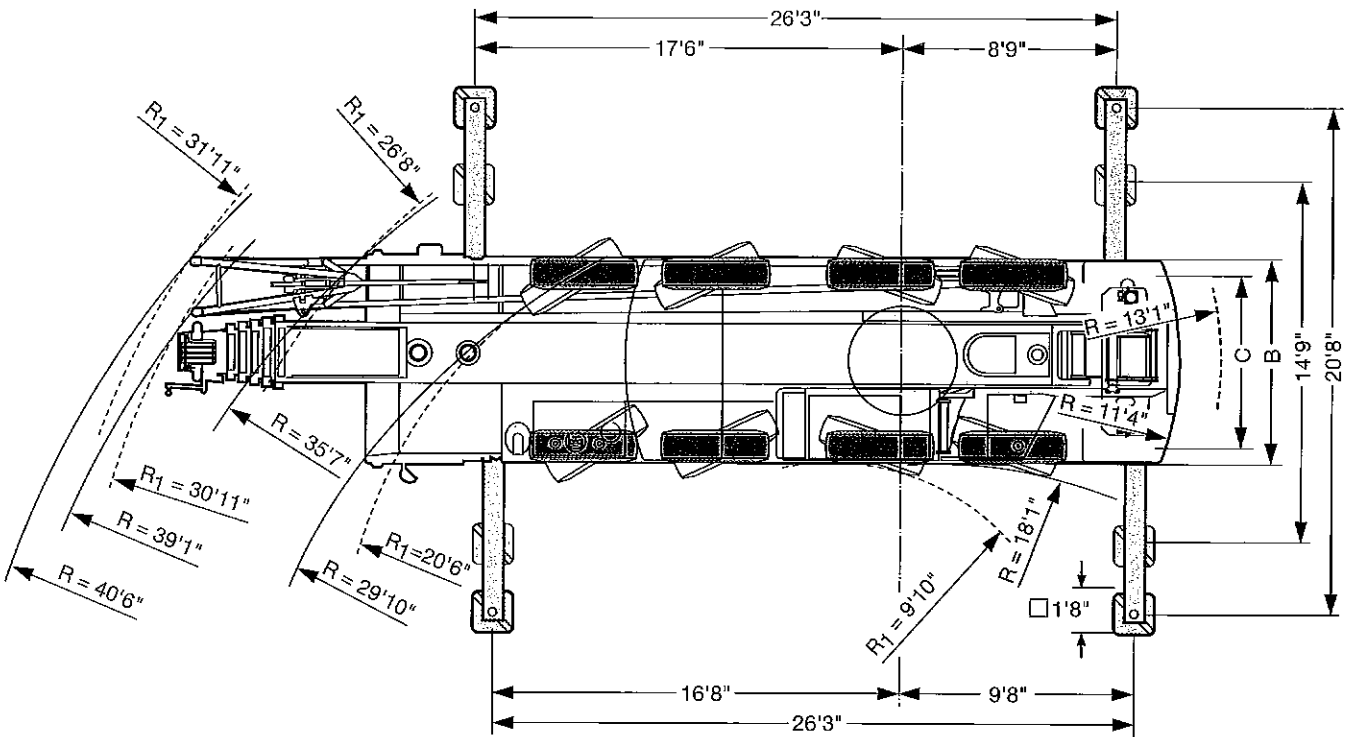
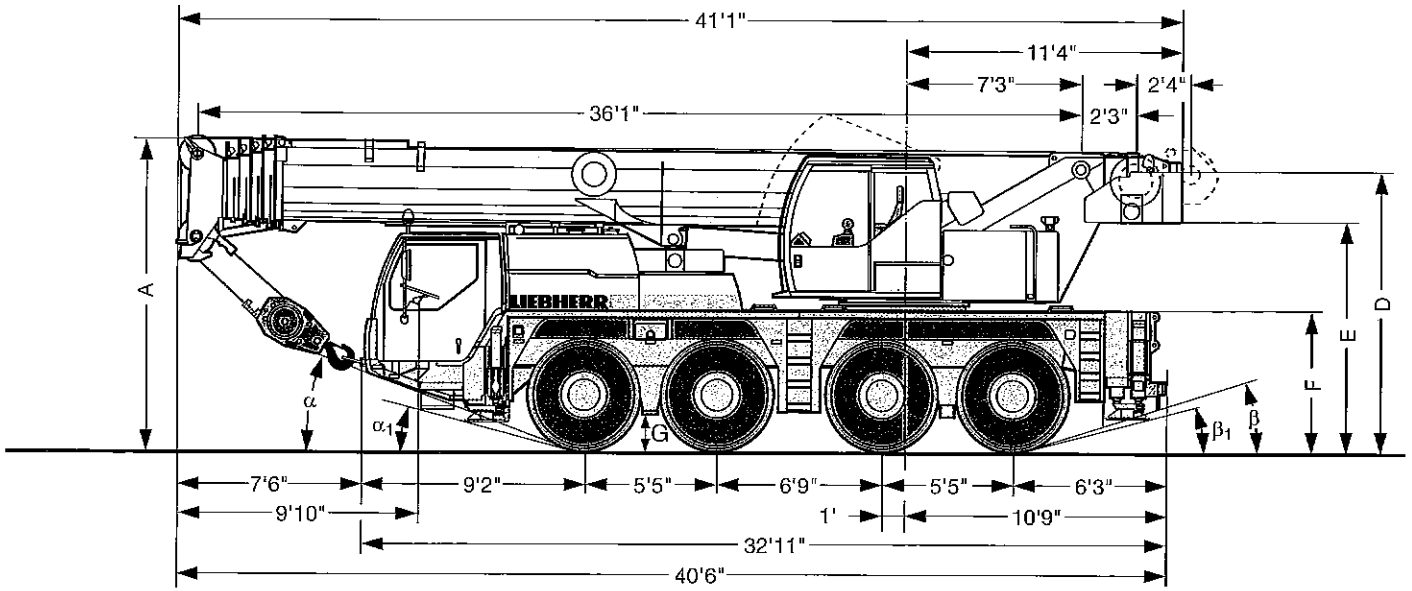
ft	107 ft				118 ft				130 ft				142 ft				154 ft				164 ft		ft	
	52 ft				52 ft				52 ft				52 ft				52 ft				52 ft			
	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°	40°	60°	0°	20°		
17	13.8																							17
20	13.4				10.8				9.9															20
23	12.9				10.7				9.9															23
26	12.6				10.6				9.9				8											26
29	12.2				10.5				9.8				7.8											29
32	11.9				10.4				9.6				7.6											32
35	11.5				10.2				9.4				7.4											35
38	11.2	7.9			10	7.5			9.3				7.3											38
44	10.5	7.6			9.7	7.3			9	7			7.1	6.4										44
50	9.9	7.2	5.7		9.3	7	5.6		8.8	6.9			6.9	6.3										50
56	9.3	6.9	5.6	5.2	8.9	6.7	5.5		8.5	6.6	5.4		6.7	6.2	5.3									56
62	8.8	6.6	5.5	5.2	8.5	6.4	5.4	5.1	8.2	6.4	5.4	5	6.6	6	5.2	4.9								62
68	8.3	6.4	5.4	5.1	8.2	6.2	5.3	5	8	6.2	5.3	5	6.5	5.9	5.1	4.9								68
74	7.9	6.1	5.3	5	7.8	6	5.2	5	7.7	6	5.2	5	6.4	5.7	5	4.9								74
80	7.5	5.9	5.1	5	7.5	5.8	5.1	5	7.4	5.8	5.1	4.9	6.3	5.6	5	4.9								80
86	7	5.7	5.1	5	7.2	5.6	5	5	7	5.6	5	4.9	6.2	5.5	4.9	4.9								86
92	6.4	5.5	5	5	6.9	5.5	4.9	5	6	5.5	4.9	4.9	5.9	5.3	4.9	4.9								92
98	5.5	5.4	4.9	5	6.1	5.4	4.9	5	5.2	5.4	4.9	4.9	5.6	5.2	4.8	4.9								98
104	4.7	5.3	4.9	5	5.3	5.2	4.9	5	4.4	5.2	4.9	4.9	4.9	5	4.8	4.9								104
110	4.1	4.7	4.9	5	4.6	5.1	4.9	5	3.8	4.6	4.8	4.9	4.2	4.9	4.7	4.9								110
116	3.5	4.1	4.5	4.6	4	4.7	4.9	5	3.2	3.9	4.4	4.6	3.6	4.4	4.6	4.8								116
122	2.9	3.5	3.8	3.8	3.5	4	4.4	4.5	2.7	3.3	3.8	4	3.1	3.8	4.2	4.4								122
128	2.4	2.9	3.2	2.9	3	3.5	3.8	3.8	2.2	2.8	3.2	3.3	2.6	3.2	3.7	3.9								128
134	1.9	2.3	2.5		2.5	3	3.2	3.1	1.7	2.3	2.6	2.6	2.2	2.7	3.1	3.2								134
140		1.8			2	2.4	2.6			1.8	2.1		2	1.8	2.3	2.6								140
146					1.6	1.9	2								1.8	2.1								146
152															1.7	2.1								152

TAB 153506 / 153507 / 153508 / 153509

Lifting heights Hauteurs de levage



Dimensions Encombremet



S1691

R₁ = All-wheel steering / Direction toutes roues

		Dimensions / Encombremet											
		A	A	B	C	D	E	F	G	α	α ₁	β	β ₁
16.00	R 25	12'10"	0'4" *	8'10"	7'4"	11'7"	9'5"	5'9"	1'6"	22°	16°	20°	16°
20.5	R 25	12'10"	12'6"	9'3"	7'5"	11'7"	9'5"	5'9"	1'6"	22°	16°	20°	16°

* lowered / abaissé

Weights Poids



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

¹⁾ with 23600 lbs counterweight and folding jib / avec contrepoids 23600 lbs et flèche pliante



Load (kips) Forces de levage (kips)	No. of sheaves Poulies	No. of lines Brins	Weight lbs Poids lbs
156.8	7	14	1102
130.8	5	11	1102
85.7	3	7	992
35.8	1	3	662
12.7	-	1	308

Working speeds Vitesses



	1	2	3	4	5	6	R 1	R 2	
16.00 R 25 20.5 R 25	6	9.2	14.4	22.3	32.9	49.8	5.8	14.4	38 %
	3.8	5.9	9.3	14.5	21.2	33	3.8	9.3	60 %



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 - 410 ft/min single line
ft/min au brin simple

0.7" / 656 ft

12600 lbs



0 - 410 ft/min single line
ft/min au brin simple

0.7" / 853 ft

12600 lbs



0 - 1,5 min⁻¹



approx. 55 seconds to reach 83° boom angle
env. 55 s jusqu'à 83°



approx. 260 seconds for boom extension from 36 ft - 164 ft
env. 260 s pour passer de 36 ft - 164 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 telescopic into horizontal and vertical direction. Automatic levelling of crane. Electronic inclination indicator.
Engine	6-cylinder Diesel engine, make Liebherr, type D 926 TI-E A4, watercooled, 270 kW (367 HP) at 2100 rpm acc. to ECE-R 24.03 and 2001/27/EG (Euro 3), max. torque 1215 lbs/ft at 1400 rpm, electronic engine management. Fuel tank: 92 gallons.
Transmission	ZF automatic transmission, type 6 WG 310, with torque converter, lock-up, integrated off-road ratio and additional activation of front wheel drive, 6 forwards and 2 reverse speeds.
Axles	Welded design, made of high-tensile fine grained steel. All axles steerable. Axles 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	Front axles mechanically steered, with hydraulic power assistance and stand-by steering pump. Rear axles hydraulically steered. All axles steered hydrostatically from crane cab. Steering acc. to EC directive 70/311/EEC.
Brakes	Service brake: Dual circuit, all-wheel servo-air brake. Parking brake: Spring brake actuator, acting on the wheels of the 2 nd , 3 rd and 4 th axle. Sustained-action brakes: Engine brake as exhaust retarder with Liebherr additional brake system ZBS. 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 drive	Diesel-hydraulic with 1 axial variable displacement pump with automatic capacity control, 1 double gear pump, driven by the carrier Diesel engine, open regulated oil circuits with electrically controlled "load sensing", operation of 4 movements simultaneously.
Crane control	Electrical control of drives by self-centering joysticks, armrest-integrated control elements, Liebherr system bus (LSB).
Hoist gear	Axial piston fixed displacement motor, Liebherr hoist drum with integrated planetary gear and spring-loaded static brake. Hoist gear is driven through a controlled open oil circuit.
Luffing gear	1 differential ram with safety check valves.
Slewing gear	Axial piston fixed displacement motor, planetary gear, spring-loaded static brake. Slewing gear invertible from released to locked as a standard feature.
Crane cab	All-steel construction, entirely galvanized, powder coated, with safety glazing, operating and control instruments, comfortably equipped, cab tiltable backwards.
Safety devices	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: 36 ft – 164 ft.
Counterweight	23600 lbs basic counterweight.
Electrical system	Modern data bus technique, 24 Volt DC.

Additional equipment

Swing-away jib	31 ft – 52 ft long, mountable to the telescopic boom at 0°, 20°, 40° or 60°. Hydraulic ram for operating the swing-away jib from 0° – 60° (option).
2nd hoist gear	For two-hook operation or for operation with swing-away jib if the hoist rope shall remain reeved.
Additional counterweight	8400 lbs for a total counterweight of 32000 lbs.
Tyres	8 tyres, size 20.5 R 25.
Drive 8 x 6	Additional drive of the 1 st axle.

Other items of equipment available on request.