



# ALL TERRAIN CRANE 90 TONS

LIEBHERR LTM 1080/1

**BOOM LENGTHS:**  
35 TO 157 FT

**JIB LENGTHS:**  
34 TO 62 FT

**JIB OFFSETS:**  
0 - 20 - 40



# NOTES:

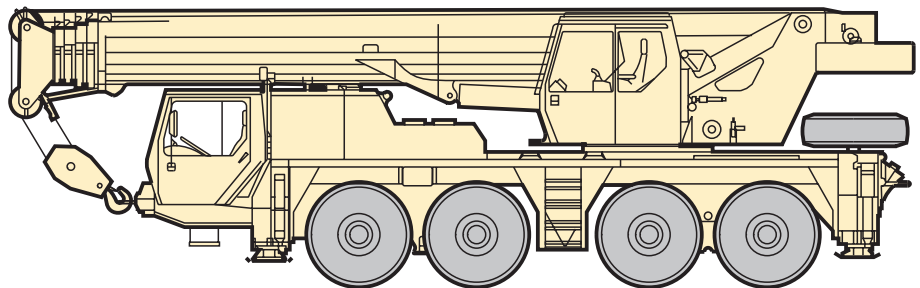
**Technical Data**  
**Caractéristiques techniques**

# LTM 1080/1

**Mobile Crane**  
**Grue automotrice**

Telescopic boom  
Flèche télescopique

**157 ft**

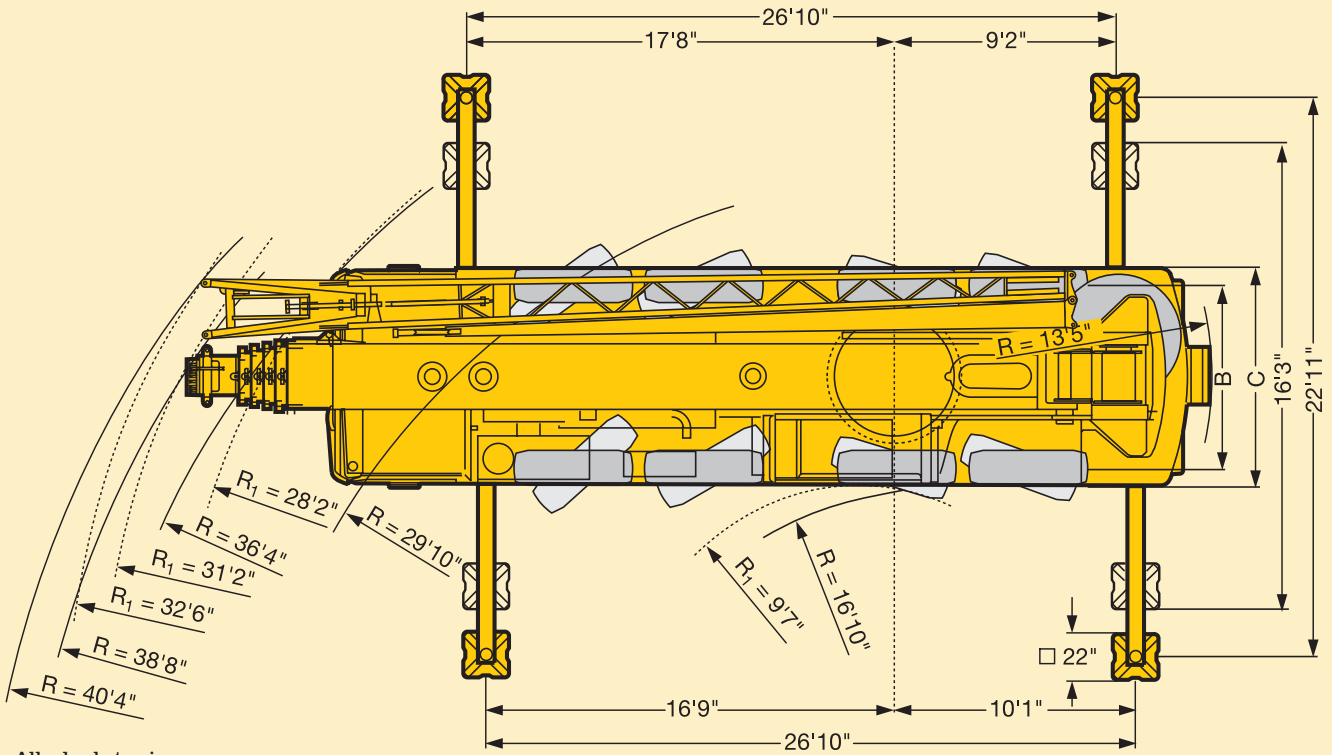
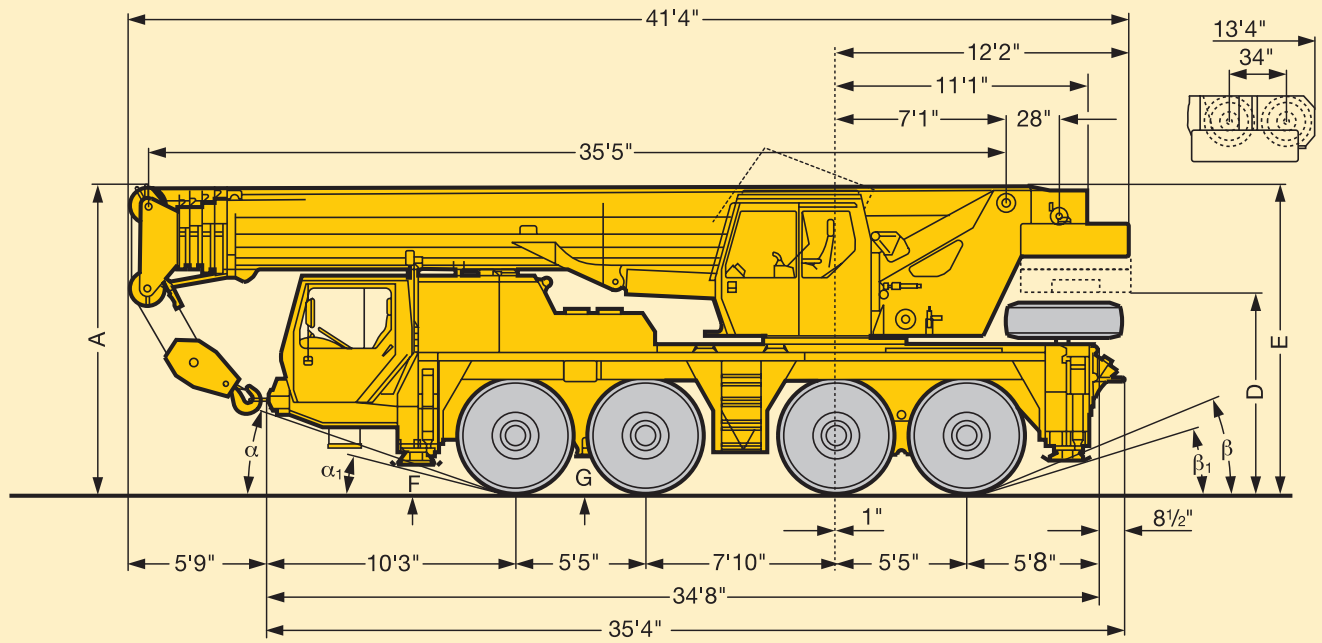


# LIEBHERR



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# Dimensions. Encombrement.



R<sub>1</sub> = All-wheel steering  
Direction toutes roues

	Dimensions / Encombrement												
	A	A	B	C	D	E**	F	G	α	α <sub>1</sub>	β	β <sub>1</sub>	
16.00 R 25	12'8"	12'4"	7'7"	9'	9'6"	12'8"	13'1/8"	15'1/8"	19°	16°	23°	16°	

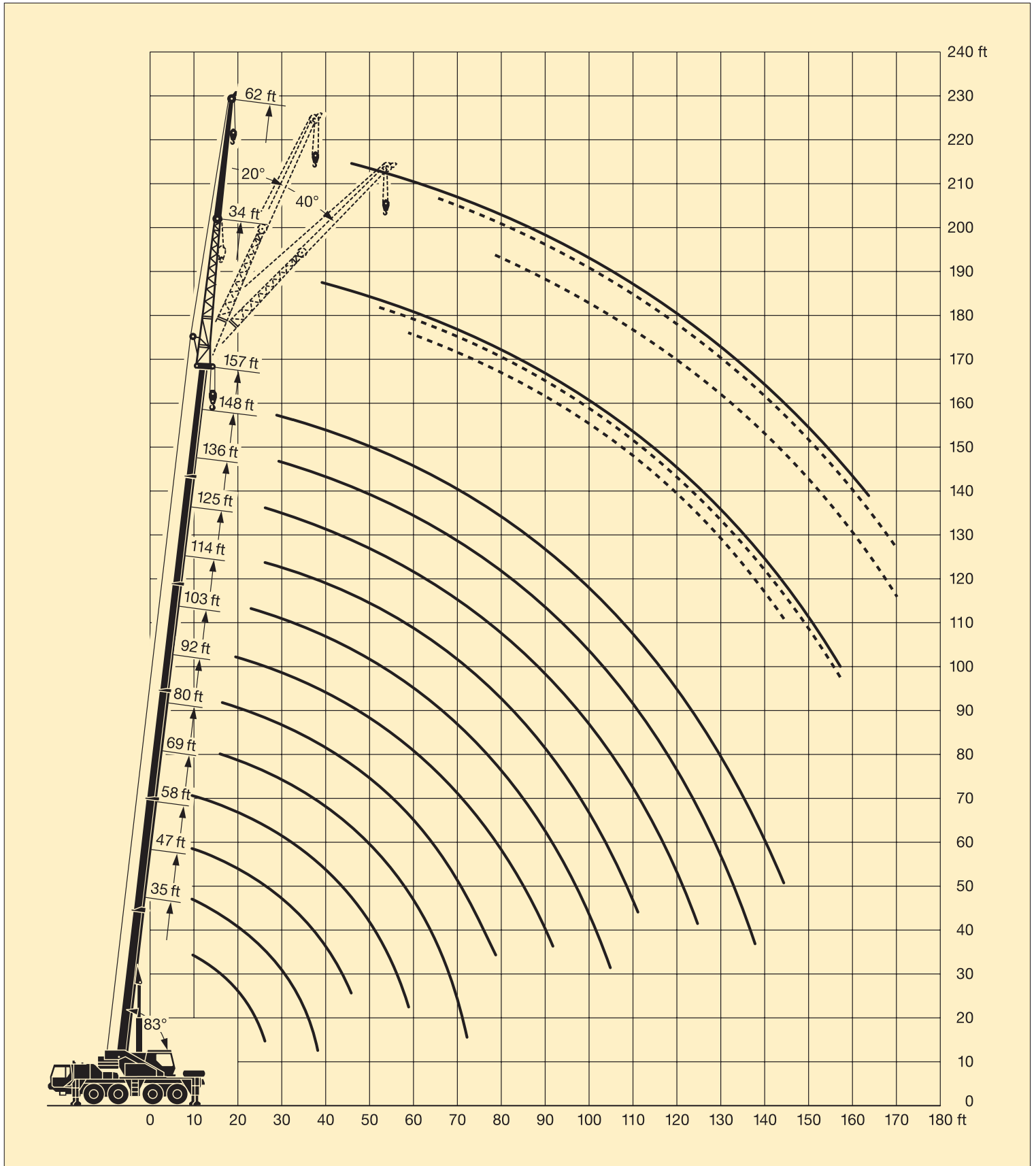
\* lowered / abaissé

\*\* with folding jib / avec fléchette pliante

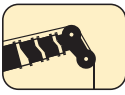


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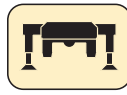
# Lifting heights. Hauteurs de levage.



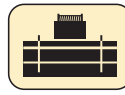
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35 ft – 157 ft



360°



35500 lbs

85%

ft	35 ft		47 ft	58 ft	69 ft	80 ft	92 ft	103 ft	114 ft	125 ft	136 ft	148 ft	157 ft	ft
	*													
9	183													9
10	169	149	148	137										10
11	158	141	140	131										11
12	148	133	133	126	110									12
13	139	126	126	121	107									13
14	131	120	120	116	104									14
15	124	114	114	111	101	84								15
16	117	109	109	106	98	81.5								16
17	111	104	104	102	95.5	79.5	67							17
18	105	99.5	99	97.5	93	77.5	65.5							18
20	94	90.5	90	89	87.5	73.5	63	54.5						20
22	85	83	83	82	80.5	69.5	60.5	52.4						22
24	77.5	76.5	76	75	73	66	58.1	50.4	43.5					24
26	71	70	69.5	68	65	62	55.7	48.4	42.2					26
28			64	62	58.9	56.9	53.1	46.6	41	35.5	30.3			28
30			58.6	56.3	53.3	51.6	50.1	44.9	39.8	34.5	29.6	26	20.9	30
32			54.2	51.4	48.8	47.3	46.3	43.1	38.8	33.5	28.9	25.6	20.5	32
34			50.2	47.4	45	43.7	42.9	41	37.4	32.6	28.2	25	20	34
36			46.4	44	41.7	40.5	39.9	38.7	36	31.6	27.5	24.3	19.5	36
38			42.7	40.5	38.4	37.4	36.9	36.4	34.5	30.7	26.9	23.6	19	38
40				37.4	35.4	34.5	34.2	34.1	32.9	29.8	26.2	23	18.6	40
45				31.1	29.8	29.1	28.9	29	28.5	27.4	24.1	21.2	17.5	45
50					25.2	24.7	24.6	24.9	24.6	24.6	22.3	19.7	16.4	50
55					21.2	21	21.1	21.4	21.3	21.8	20.6	18.3	15.4	55
60						18.9	18.2	18.6	18.5	19	19	17.1	14.4	60
65						17.4	15.4	17	16.2	16.8	16.8	15.9	13.5	65
70						15.9	14.1	15.8	14.3	14.9	15	14.8	12.8	70
75							12.9	14.4	13.3	13.1	13.3	13.6	12	75
80								12.9	12.4	11.5	12.3	12.2	11.3	80
85								11.4	11.7	10.8	11.5	10.6	10.5	85
90								10.2	11	10.2	10.3	9.5	9.4	90
95									10.2	9.5	9.3	8.5	8.4	95
100									9.5	8.8	8.4	7.6	7.5	100
105										8.1	7.6	6.9	6.7	105
110										7.4	6.9	6.2	6.1	110
115											6.3	5.6	5.5	115
120											5.8	5	4.9	120
125												4.5	4.4	125
130												4.1	4	130
135												3.7	3.6	135
140													3.2	140
I	0		0/0	46/0/0	92/0/0	92/0/0	92/0/0	92/0/0	92/0/0	92/0	92/46	92	100	I
II	0		46/0	46/0/0	46/0/0	92/0/0	92/0/0	92/92/0	92/92/46	92/92	92/92	92	100	II
III	0		0/0	0/0/0	0/0/0	0/92/0	46/92/46	46/92/92	92/92/92	92/92	92/92	92	100	III
IV	0		0/0	0/46/0	0/92/46	0/46/92	0/92/92	46/46/92	46/92/92	46/92	92/92	92	100	IV
%	0		0/46	0/46/92	0/46/92	0/46/92	0/46/92	0/46/92	0/46/92	46/92	46/92	92	100	V

\* over rear / en arrière

TAB 106139/106145

### Remarks referring to load charts.

- The tabulated lifting capacities do not exceed 85% of the tipping load.
- 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.
- The 85% overturning limit values take into account wind force 5 = wind speed 20 mph.
- Lifting capacities are given in kips.
- The weight of the hook blocks and hooks must be deducted from the lifting capacities.
- Working radii are measured from the slewing centreline.
- The lifting capacities given for the telescopic boom only apply if the folding jib is taken off.
- Lifting capacities are subject to modifications.
- Lifting capacities above 128 kips / 172 kips only with additional pulley block / special equipment.

### Remarques relatives aux tableaux des charges.

- Les forces de levage indiquées ne dépassent pas 85% de la charge de basculement.
- 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.
- A 85% de la charge de basculement, il a été tenu compte d'un vent de force 5 = vitesse de vent 20 mph.
- Les forces de levage sont données en kips.
- Les poids des moufles et crochets doit être soustrait des charges indiquées.
- Les portées sont calculées à partir de l'axe de rotation.
- Les forces indiquées pour la flèche télescopique s'entendent fléchette dépliée.
- Les forces de levage sont modifiables sans préavis.
- Forces de levage plus de 128 kips / 172 kips seulement avec un moufle complémentaire / équipement supplémentaire.

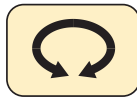
# Lifting capacities are given in kips (1,000 lbs).



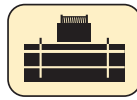
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35 ft – 157 ft






360°



18740 lbs

85%

 ft	35 ft	47 ft	58 ft	69 ft	80 ft	92 ft	103 ft	114 ft	125 ft	136 ft	148 ft	157 ft	 ft	
10	134	134	124										10	
11	127	127	119										11	
12	120	120	114	99.5									12	
13	113	113	110	97									13	
14	108	107	105	94.5									14	
15	102	102	101	91.5	76								15	
16	97	96.5	95.5	89	74								16	
17	92	92	90.5	85	72	61							17	
18	88	87.5	85.5	80	70.5	59.6							18	
20	79	78.5	76	70	66	57.1	49.6						20	
22	71.5	71	66.5	61.5	58.5	54.3	47.6						22	
24	64	63.5	58.4	54.5	52	50.2	45.6	39.5					24	
26	56.7	56.6	51.8	48.5	46.4	45	43.6	38.4					26	
28		50	46.6	43.5	41.8	40.6	39.8	36.9	32.3	27.6			28	
30		44	41.8	39	37.5	36.6	36	35.1	31.4	26.9	23.6	19	30	
32		39.9	37.8	35.3	34	33.3	32.9	32.1	30.5	26.3	23.2	18.6	32	
34		37.3	34.3	32.2	31.1	30.6	30.3	29.7	29	25.6	22.7	18.2	34	
36		34.2	31.1	29.5	28.6	28.2	28	27.5	27.2	24.9	22.1	17.7	36	
38		31.1	27.9	26.9	27.1	25.8	26.4	25.3	25.3	24.2	21.5	17.3	38	
40			25.1	24.5	25.8	23.6	25.2	23.3	23.6	23.3	20.9	16.9	40	
45			21.6	19.7	23	20.3	22.2	20.8	19.9	19.7	19.3	15.9	45	
50				17.4	20	18.1	19.2	18.7	17.4	17.9	17	14.9	50	
55				15.8	17.2	16.4	16.5	16.6	15.9	16	14.8	13.8	55	
60					14.7	15	14.2	14.9	14.4	14	12.9	12.6	60	
65					12.7	13.1	12.6	13.5	12.9	12.2	11.2	11	65	
70					11.1	12.1	11.7	11.8	11	10.5	9.6	9.5	70	
75						10.9	10.6	10.3	9.5	9.1	8.3	8.2	75	
80							9.3	9	8.4	8	7.2	7.1	80	
85							8.4	8.1	7.4	7	6.3	6.1	85	
90							7.5	7.3	6.6	6.2	5.5	5.4	90	
95								6.5	5.9	5.5	4.8	4.7	95	
100								5.8	5.3	4.9	4.1	4	100	
105									4.7	4.3	3.6	3.5	105	
110									4.1	3.8	3.1	3	110	
115										3.3	2.6	2.5	115	
120										2.9	2.2	2.1	120	
 %	I	0	0/ 0	46/ 0/ 0	92/ 0/ 0	92/ 0/ 0	92/ 0/ 0	92/ 0/ 0	92/ 0	92/46	92	100	I	
	II	0	46/ 0	46/ 0/ 0	46/ 0/ 0	92/ 0/ 0	92/ 0/ 0	92/92/ 0	92/92/46	92/92	92/92	92	100	II
	III	0	0/ 0	0/ 0/ 0	0/ 0/ 0	0/92/ 0	46/92/46	46/92/92	92/92/92	92/92	92/92	92	100	III
	IV	0	0/ 0	0/46/ 0	0/92/46	0/46/92	0/92/92	46/46/92	46/92/92	46/92	92/92	92	100	IV
	V	0	0/46	0/46/92	0/46/92	0/46/92	0/46/92	0/46/92	0/46/92	46/92	46/92	92	100	V

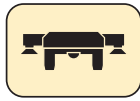
TAB 106142



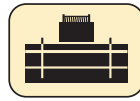
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35 ft - 58 ft



0°



35500 lbs<sup>1)</sup>  
18740 lbs<sup>2)</sup>



85%

ft	35 ft		47 ft		58 ft		ft
	1)	2)	1)	2)	1)	2)	
10	39.6	37.8	41	39.3	41.8	40.1	10
11	36.9	35.2	38.4	36.7	39.2	37.5	11
12	34.5	32.9	36	34.4	36.8	35.2	12
13	32.2	30.7	33.8	32.3	34.6	33.1	13
14	30.3	28.8	31.8	30.4	32.6	31.2	14
15	28.4	27	30	28.6	30.8	29.4	15
16	26.8	25.4	28.3	27	29.2	27.8	16
17	25.3	24	26.8	25.6	27.7	26.4	17
18	23.9	22.7	25.5	24.3	26.3	25.1	18
20	21.3	20.1	22.9	21.7	23.7	22.6	20
22	19.1	18.1	20.7	19.7	21.6	20.5	22
24	17.2	16.2	18.8	17.8	19.7	18.7	24
26	15.5	14.6	17.1	16.1	18	17	26
28			15.6	14.7	16.5	15.6	28
30			14.3	13.4	15.1	14.3	30
32			13.1	12.3	14	13.2	32
34			12	11.3	12.9	12.2	34
36			11.1	10.4	12	11.3	36
38			10.2	9.5	11	10.3	38
40					10.2	9.5	40
45					8.4	7.8	45
%	I	0		0/ 0		46/ 0/ 0	I
	II	0		46/ 0		46/ 0/ 0	II
	III	0		0/ 0		0/ 0/ 0	III
	IV	0		0/ 0		0/46/ 0	IV
	V	0		0/46		0/46/92	V

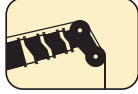
TAB 106189 / 106191



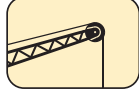
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# Lifting capacities on the folding jib. Forces de levage à la fléchette pliante.



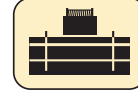
125 ft – 157 ft



34 ft – 62 ft



360°



35500 lbs

85%

ft	125 ft						136 ft						148 ft						157 ft						ft
	34 ft			62 ft			34 ft			62 ft			34 ft			62 ft			34 ft			62 ft			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
34	21																								34
36	20.7																								36
38	20.5																								38
40	20.3																								40
45	19.3																								45
50	17.9	15.5																							50
55	16.6	15.1	13.3																						55
60	15.4	14.6	13.1																						60
65	14.4	13.9	12.9																						65
70	13.4	13	12.7																						70
75	12.4	12.1	12.2																						75
80	11.4	11.3	11.4																						80
85	10.1	10.5	10.7																						85
90	9	9.6	10																						90
95	8	8.7	9.1																						95
100	7.2	7.7	8.2																						100
105	6.4	6.9	7.3																						105
110	5.9	6.2	6.5																						110
115	5.6	5.8	5.8																						115
120	5.3	5.4																							120
125	5	5.1																							125
130	4.7	4.8																							130
135	4.5	4.5																							135
140	4.1	4.2																							140
145	3.8																								145
150	3.4																								150
155																									155
160																									160
165																									165
170																									170
175																									175
180																									180
I																									I
II																									II
III																									III
IV																									IV
V																									V

TAB 106161 / 106167 / 106173

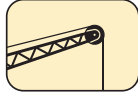


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# Lifting capacities on the folding jib. Forces de levage à la fléchette pliante.



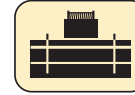
125 ft – 157 ft



34 ft – 62 ft



360°



18740 lbs

85%

ft	125 ft						136 ft						148 ft						157 ft						ft	
	34 ft			62 ft			34 ft			62 ft			34 ft			62 ft			34 ft			62 ft				
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
34	19																								34	
36	18.9																								36	
38	18.7																								38	
40	18.4			7.4			15.2							12.4						9					40	
45	17.5			7.3			14.4							11.7						8.9					45	
50	15.7	14.1		7.1			13.7	12.2		6.6				11.1	9.9		5.9			8.6			5.3		50	
55	13.7	13.7	12.1	6.9			12.8	11.6	11	6.4				10.5	9.4		5.8			8.2	8		5.3		55	
60	11.9	13.1	11.9	6.7	5.6		11.7	11	10.4	6.2	5.3			9.9	9	8.7	5.8			7.9	7.7	7.7	5.4		60	
65	10.3	11.4	11.7	6.5	5.5		10.2	10.5	10	6.1	5.2			9.4	8.6	8.2	5.7			7.6	7.5	7.4	5.3		65	
70	9	10	10.7	6.3	5.4		8.9	9.7	9.6	6	5.2			8.7	8.2	7.9	5.6	4.8		7.3	7.2	7.1	5.1	4.5	70	
75	8.3	8.7	9.5	6.2	5.3	4.6	8.4	8.7	9	5.9	5.1			7.8	7.8	7.6	5.5	4.8		7	6.9	6.9	4.9	4.5	75	
80	7.8	7.6	8.3	6	5.2	4.6	7.7	7.6	8.3	5.8	5	4.5		6.8	7.4	7.3	5.4	4.7	4.2	6.6	6.7	6.7	4.8	4.4	3.9	80
85	7.3	6.9	7.2	5.9	5.1	4.5	6.8	7.2	7.2	5.6	4.9	4.4		5.9	6.7	7	5.3	4.6	4.2	5.7	6.4	6.5	4.6	4.4	3.9	85
90	6.5	6.6	6.5	5.5	5	4.5	6	6.5	6.7	5.4	4.8	4.4		5.2	5.9	6.3	5.2	4.5	4.1	4.9	5.7	6.1	4.5	4.3	3.9	90
95	5.8	6.2	6.3	5	4.9	4.4	5.2	5.8	6.2	5	4.7	4.3		4.5	5.1	5.6	4.8	4.5	4.1	4.2	4.9	5.5	4.3	4.3	3.9	95
100	5.1	5.6	5.9	4.7	4.8	4.4	4.6	5.1	5.5	4.7	4.6	4.3		3.8	4.4	4.9	4.3	4.4	4.1	3.6	4.2	4.7	4	4.1	3.8	100
105	4.5	4.9	5.2	4.5	4.7	4.3	4	4.5	4.8	4.5	4.6	4.3		3.2	3.8	4.2	3.7	4.4	4.1	3	3.6	4.1	3.5	4	3.8	105
110	4	4.4	4.6	4.3	4.2	4.3	3.5	3.9	4.2	4	4.2	4.2		2.7	3.3	3.6	3.2	4.1	4.1	2.5	3.1	3.5	3	3.9	3.8	110
115	3.5	3.9	4.1	4	4	4.1	3	3.4	3.7	3.5	4	4.1		2.3	2.8	3.1	2.7	3.7	4	2.1	2.6	3	2.5	3.5	3.8	115
120	3.1	3.4		3.5	3.8	3.8	2.6	3	3.2	3	3.8	3.9		1.8	2.3	2.6	2.3	3.2	3.8		2.1	2.5	2.1	3	3.6	120
125	2.7	3		3.1	3.7	3.7	2.2	2.5		2.6	3.3	3.7		1.8	2.1	1.9	2.7	3.3			2		2.5	3.2	125	
130	2.3	2.5		2.8	3.3	3.6	1.9	2.2		2.3	2.9	3.4		1.4	1.7	1.5	2.3	2.9			1.5		2.1	2.8	130	
135	1.9	2.1		2.4	2.9	3.3	1.5	1.8		1.9	2.5	3					1.9	2.5					1.7	2.3	135	
140	1.6	1.8		2.1	2.6	2.9				1.6	2.2	2.6					1.5	2.1						1.9	140	
145				1.8	2.2						1.9	2.2													145	
150				1.5	1.9						1.5	1.9													150	
155				1.6							1.5														155	
I	92/ 0						92/46						92						100						I	
II	92/92						92/92						92						100						II	
III	92/92						92/92						92						100						III	
IV	46/92						92/92						92						100						IV	
V	46/92						46/92						92						100						V	

TAB 106158 / 106164 / 106170



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# Weights. Poids.

LTM 1080/1



Axle Essieu	1	2	3	4	Total weight Poids total
lbs	26400	26400	26400	26400	105600 <sup>1)</sup>

<sup>1)</sup> with 18740 lbs counterweight / avec contrepoids 18740 lbs



Load (kips) Forces de levage kips	No. of sheaves Poulies	No. of lines Brins	Weight lbs Poids lbs
176	7	14	950
128	5	10	730
84	3	7	880
35	1	3	520
12.5	-	1	240

# Working speeds. Vitesses.



	1	2	3	4	5	6	R <sub>1</sub>	R <sub>2</sub>	
	6.0	9.2	14.4	22.4	32.9	49.7	6	14.4	35 %
	3.9	6	9.3	14.5	21.2	33	3.9	6	60 %
	16.00 R 25								



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 - 426 ft/min single line ft/min au brin simple	2/3" / 820'	12800 lbs
	0 - 426 ft/min single line ft/min au brin simple	2/3" / 690'	12800 lbs
	0 - 2.0 rpm		
	approx. 48 seconds to reach 83° boom angle env. 48 s jusqu'à 83°		
	approx. 240 seconds for boom extension from 35 ft - 157 ft env. 240 s pour passer de 35 ft - 157 ft		



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# Crane carrier.

LTM 1080/1

<b>Frame:</b>	Liebherr designed and manufactured, box-type, torsion resistant design of high-tensile fine grained structural steel.
<b>Outriggers:</b>	4-point support, all-hydraulic horizontal and vertical operation.
<b>Engine:</b>	6-cylinder Diesel engine, make Liebherr, type D 9406 TI-E, watercooled, 320 kW (435 HP) at 2100 min <sup>-1</sup> acc. to ECE-R 24.03 and 2001/27/EG (Euro 3), max. torque 1900 Nm at 1100 – 1400 min <sup>-1</sup> , engine management with Liebherr data bus. Fuel tank: 400 l.
<b>Transmission:</b>	ZF power shift gear, with torque converter, lock-up and integrated off-road ratio, additional activation of front wheel drive, 6 forwards and 2 reverse speeds.
<b>Axles:</b>	All axles steered. Axles 1, 3 and 4 with planetary gears and differential locks.
<b>Suspension:</b>	All axles with hydropneumatic suspension and hydraulic locking facility.
<b>Tyres:</b>	8 tyres. Tyre size: 16.00 R 25.
<b>Steering:</b>	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.
<b>Brakes:</b>	<b>Service brake:</b> All-wheel servo-air brake, dual circuit system. <b>Hand brake:</b> Spring-loaded, acting on all wheels of axles 2, 3 and 4. <b>Sustained-action brake:</b> Exhaust retarder with additional Liebherr braking system <b>Brakes acc. to EC directive 71/320/EEC.</b>
<b>Driving cab:</b>	Two-men driving cab, steel sheet design, with dipping varnish and powder coating. With control elements and instruments for driving.
<b>Electrical system:</b>	Control of the electrical and electronical components by modern data bus technique. 24 Volt DC, 2 batteries, lighting according to traffic regulations.

# Crane superstructure.

<b>Frame:</b>	Liebherr-made torsion resistant, welded construction of high-tensile structural steel, linked to carrier by a three-row roller slewing ring for 360° continuous rotation.
<b>Crane drive:</b>	Diesel-hydraulic with 1 double axial piston variable displacement pump with automatic capacity control, 1 double gear pump, driven by the carrier Diesel engine, open oil circuits with electrically controlled “load sensing”, operation of 4 movements simultaneously.
<b>Crane control:</b>	By 2 control levers (joystick type) and by electronic speed variation of Diesel engine, electric pilot control with stepless control of all crane motions. Liebherr data bus technique for data transfer.
<b>Hoist gear:</b>	Axial piston fixed displacement motor, hoist drum with integrated planetary gear and spring-loaded static brake, actuation by open oil circuit.
<b>Luffing gear:</b>	1 differential ram with pilot operated brake valve.
<b>Slewing gear:</b>	Hydraulic motor, planetary gear with spring-loaded static brake, actuation by open oil circuit. Continuous control of slewing speed.
<b>Crane cab:</b>	All-steel construction, fully galvanized, with safety glass, heater, operating and control elements. Cab tiltable backwards.
<b>Safety devices:</b>	LICCON safe load indicator, hoist limit switch, safety valves against rupture of pipes and hoses.
<b>Telescopic boom:</b>	Buckling resistant and torsion-proof design of high tensile steel with oviform boom profile, 1 base section and 5 telescopic sections. All telescopic sections extendable hydraulically and independently from one another. Rapid-cycle telescoping system “TELEMATIK”. Boom length: 35 ft – 157 ft.
<b>Counterweight:</b>	18740 lbs basic counterweight.
<b>Electric system:</b>	Control of the electrical and electronical components by modern data bus technique.

# Complementary equipment.

<b>Folding jib:</b>	34 ft – 62 ft long, for mounting on telescopic boom at 0°, 20° and 40°.
<b>2nd hoist gear:</b>	For two-hook operation, or with folding jib in case main hoist shall remain reeved.
<b>Additional counterweight:</b>	16760 lbs for a total counterweight of 35500 lbs.
<b>Drive 8 x 8:</b>	Axle 2 additionally driven.



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