

Technical Data
Caractéristiques techniques



CUSTOM SERVICE CRANE, INC.

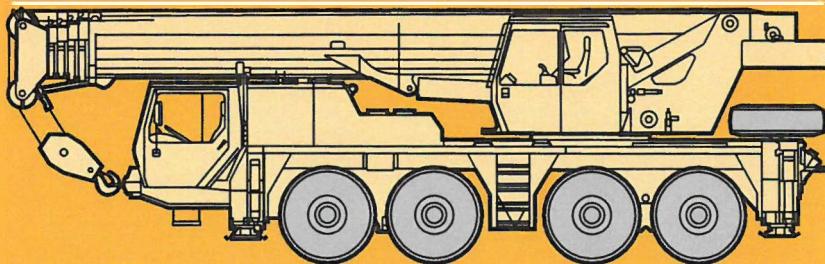
LTM 1080/1

Mobile Crane
Grue automotrice

Telescopic boom

Flèche télescopique

157 ft



LIEBHERR

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

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35 ft - 58 ft



0°



35500 lbs⁽¹⁾
18740 lbs⁽²⁾



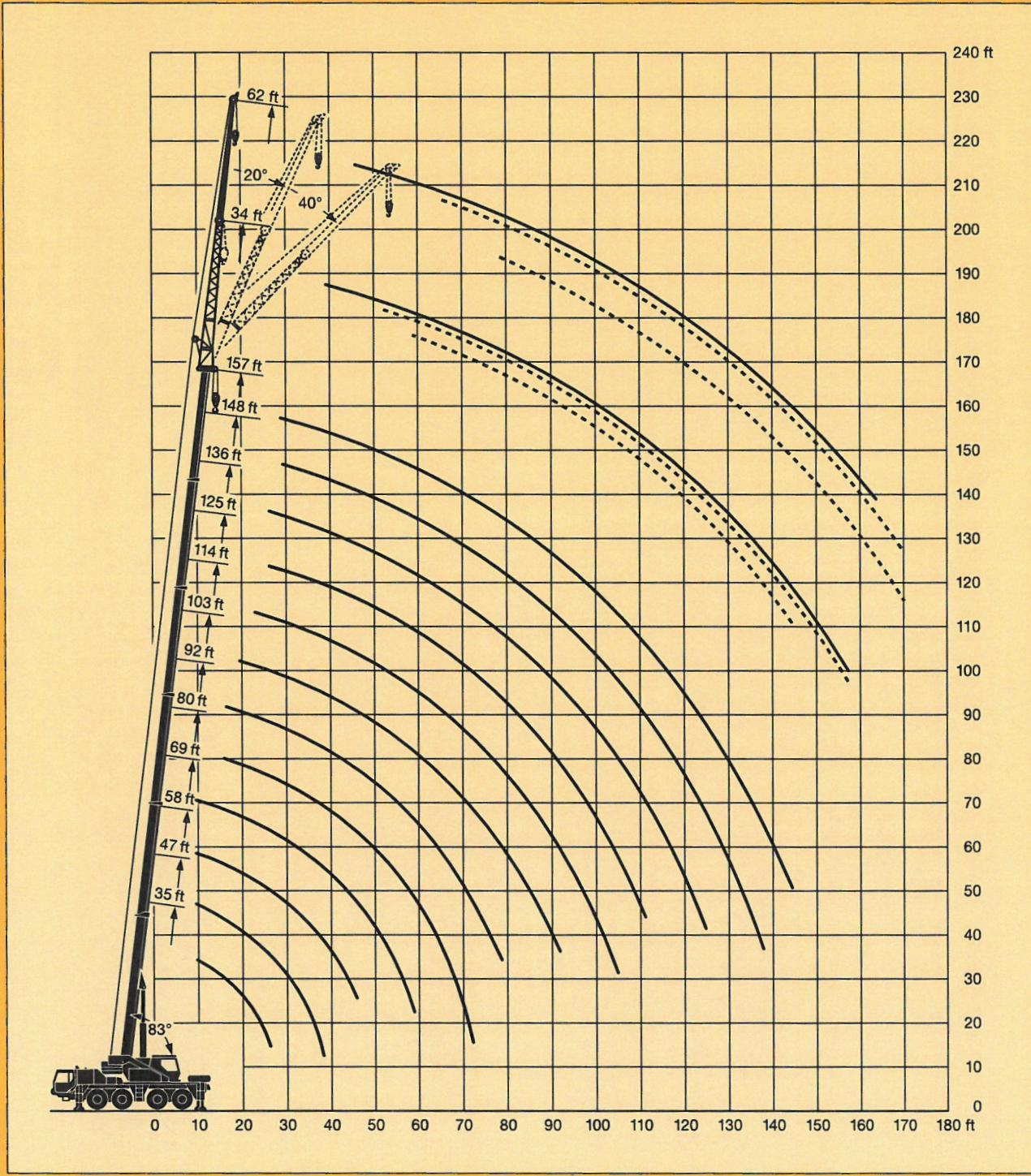
85%

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

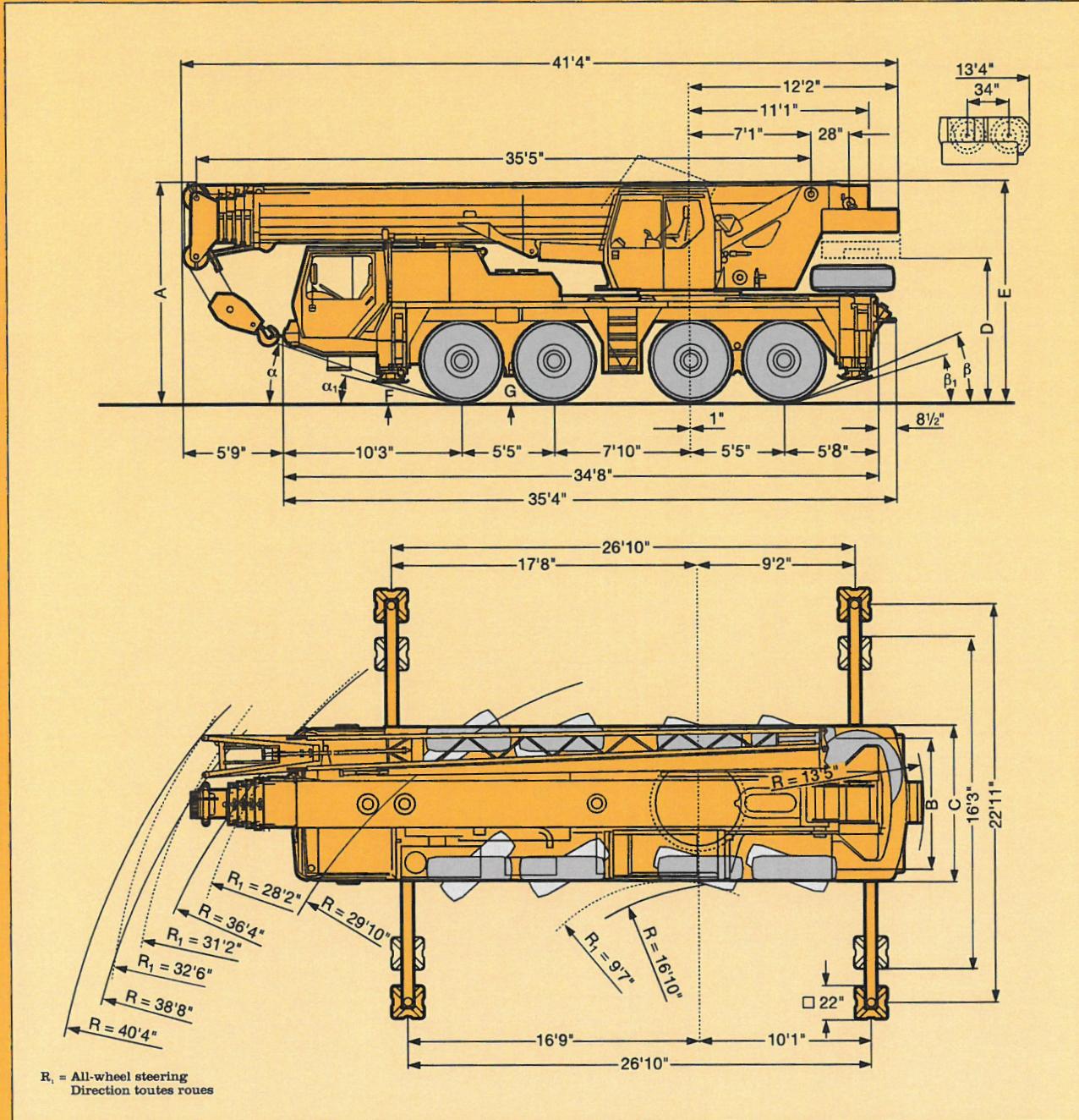
Lifting heights. Hauteurs de levage.

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Dimensions. Encombrement.

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	A	A	B	C	D	E	F	G	α	α_1	β	β_1
16.00 R 25	12'8"	12'4"	7'7"	9'	9'6"	12'8"	13 1/3"	15 1/3"	19°	16°	23°	16°

* lowered / abaissé

** with folding jib / avec fléchette pliante

Weights. Poids.

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

¹⁾ 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 ₁	R ₂	
	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	5/16" / 820'	12800 lbs
	0 - 426 ft/min single line ft/min au brin simple	5/16" / 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		

Crane carrier.

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

Crane superstructure.

Frame:	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.
Crane drive:	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.
Crane control:	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.
Hoist gear:	Axial piston fixed displacement motor, hoist drum with integrated planetary gear and spring-loaded static brake, actuation by open oil circuit.
Luffing gear:	1 differential ram with pilot operated brake valve.
Slewing gear:	Hydraulic motor, planetary gear with spring-loaded static brake, actuation by open oil circuit. Continuous control of slewing speed.
Crane cab:	All-steel construction, fully galvanized, with safety glass, heater, operating and control elements. Cab tilttable backwards.
Safety devices:	LICCON safe load indicator, hoist limit switch, safety valves against rupture of pipes and hoses.
Telescopic boom:	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.
Counterweight:	18740 lbs basic counterweight.
Electric system:	Control of the electrical and electronical components by modern data bus technique.

Complementary equipment.

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

Other equipments available on request.

