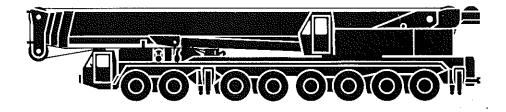


III 1200 Hydraulic Crane — Technical Data





Lifting capacities (in lbs.) at the telescopic boom.

Working lengths of boom (feet). Outriggers fully extended, 360°. Counterweight: 72,730 lbs.

Radius	Boom lengths in feet										
in feet	54 ft.	96 ft.*	96 ft.**	138 ft.	160 ft.	180 ft.					
	····	9616.	90 10.	10016.	160 15.	16016					
10	452,000										
13	375,000	242,000									
20	277,000	215,000		121,000		7 -					
23	242,000	193,000	169,000	116,000							
26	213,000	173,000	157,000	114,000	88,200						
30	187,000	148,000	142,000	111,000	83,300						
33	172,000	134,000	133,000	110,000	79,000	72,000					
40	143,000	111,000	112,000	99,000	71,000	67,000					
45		98,000	100,000	92,000	67,000	64,400					
50		85,000	90,000	82,000	62,800	61,700					
55		76,000	81,000	75,000	57,300	57,800					
60		68,300	72,000	68,000	54,000	54,000					
65		61,700	65,000	60,600	50,700	50,700					
70		54,000	59,500	52,900	48,900	48,700					
80		39,600	46,300	41,900	43,000	43,000					
90				34,170	35,270	34,200					
100				27,560	28,660	28,700					
110				22,490	24,250	22,500					
120		1000		18,740	18,740	19,800					
130			-	7,	15,430	15,430					
137		and of PW age		1.17	13,230	13,230					
140						12,130					
150					,	9,920					
157	4*0.2.2				~~	9,480					

^{*} Telescope section 1 fully extended, tolescope sections 2 and 3 retracted

Working lengths of boom (feet). Outriggers fully extended, 360°. Counterweight: 57,300 lbs.

Radius in	Boom lengths in feet									
feet	54 ft.	96 ft.*	96 ft.**	138 ft.	160 ft.	180 ft.				
10	452,000	A Laboratory Company								
13	375,000	242,000			· · ·					
20	277,000	215,000		121,000						
23	242,000	193,000	169,000	116,000						
26	213,000	173,000	157,000	114,000	88,200					
30	187,000	148,000	142,000	111,000	83,300					
33	168,000	134,000	133,000	110,000	79,000	72,000				
40	139,000	108,000	112,000	99,000	71,000	67,000				
45		94,000	100,000	92,000	67,000	64,400				
50		83,000	90,000	82,000	62,800	61,700				
55		73,000	81,000	75,000	57,300	57,800				
60		63,900	72,000	68,000	54,000	54,000				
65		57,300	63,900	60,600	50,700	50,700				
70		50,700	57,300	52,900	48,900	48,700				
80		37,500	44,100	41,900	43,000	43,000				
90				33,700	34,200	34,200				
100				26,500	26,900	28,700				
110				20,900	22,000	22,500				
120				16,000	17,600	19,800				
130					14,300	15,900				
137					11,700	13,200				
140						12,100				
150	- * pr		""			8,800				
157					,	7,300				

 $^{^{\}ast}$ Telescope section 1 fully extended, telescope sections 2 and 3 retracted.

^{**} Each telescope section extended % of its individual length

[&]quot;Each telescope section extended 1/3 of its individual length.



Working lengths of boom (feet). Outriggers fully extended, 360° . Counterweight: 32,000 lbs.

Radius in	Boom lengths in feet										
feet	54 ft.	96 ft.*	96 ft.**	138 ft.	160 ft.	180 ft.					
10' 6"	436,000										
13	353,000	242,000									
20	234,000	215,000		121,000							
23	200,000	193,000	169,000	114,000	,						
26	172,000	165,000	156,000	112,000	88,200						
30	146,000	135,000	142,000	110,000	83,300						
33	130,000	122,000	131,000	108,000	79,300	72,000					
40	100,000	93,000	100,000	95,000	71,000	69,400					
45		78,000	83,000	87,000	67,000	65,000					
50		67,200	72,000	76,000	62,800	61,700					
55		56,200	62,800	65,000	58,400	57,300					
60		47,400	55,100	55,500	54,000	54,000					
65		39,680	47,400	48,500	50,700	50,700					
70		34,170	41,800	41,800	46,300	46,300					
80		22,050	30,800	31,900	37,480	37,480					
90				23,100	28,600	28,600					
100				16,500	21,600	21,600					
110				12,100	16,500	16,300					
120				7,700	12,500	11,460					
130	_	, , , , , , , , , , , , , , , , , , ,			7,700	8,160					
137					5,200	5,950					
140	_					5,510					
145						4,190					

 $^{^{\}star}$ Telescope section 1 fully extended, telescope sections 2 and 3 retracted.

Working lengths of boom (feet). Outriggers fully extended, 360°. Without counterweight***.

Radius	Boom lengths in feet									
in feet	54 ft.	96 ft.*	96 ft.**	138 ft.	160 ft.	180 ft,				
10	388,000	III JAMETT.		-						
13	308,000	238,000								
20	198,000	196,000		121,000						
23	166,000	163,000	169,000	116,000						
26	145,000	138,000	145,000	114,000	88,200					
30	121,000	116,000	123,000	110,000	82,600					
33	108,000	100,000	108,000	105,000	74,900	72,000				
40	81,000	73,000	81,000	83,000	67,200	67,000				
45		58,000	68,300	69,000	61,730	61,200				
50		46,300	57,300	57,300	55,100	55,100				
55		36,300	46,300	47,400	48,500	47,400				
60		26,400	36,300	38,580	41,800	38,500				
65		19,400	27,500	30,860	35,270	31,900				
70		13,200	20,940	24,250	29,900	26,900				
80		5,070	13,230	14,330	20,900	17,640				
90				7,720	12,700	12,130				
100				3,310	7,700	7,720				
110					3,090	3,750				

 $^{^{\}star}$ Telescope section 1 fully extended, telescope sections 2 and 3 retracted.

 $[\]ensuremath{^{\prime\prime}}$ Each telescope section extended $\ensuremath{^{1\!\!/}}_3$ of its individual length.

^{**} Each telescope section extended % of its individual length.

^{***} The lifting capacities without counterweight also apply to the equipment modes: 57,300 lbs. or 72,730 lbs. counterweight retracted, support base width 21'4".



Lifting capacities (in lbs.) at the fold in jib.

Telescopic boom: 160 ft. - 180 ft. Folding jib: 49 ft. - 75 ft. Outriggers fully extended, 360°. Counterweight: 57,300 lbs.

Radius	Boom lengths in feet							
in	160 ft.	180 ft.						
	Fold in jib	Fold in jib	Fold in jib					
feet	49 ft.	49 ft.	75 ft.					
30	38,800	30,420						
35	37,400	29,760	18,520					
40	36,160	29,100	18,080					
50	32,400	27,230	16,980					
60	28,800	25,350	15,870					
70	25,800	23,590	15,210					
80	22,900	21,830	14,330					
90	20,700	20,060	13,450					
100	18,500	18,520	12,790					
110	16,900	16,980	11,900					
120	15,400	15,430	11,240					
130	14,100	13,890	10,470					
140	12,570	13,450	9,810					
150	10,580	10,360	9,040					
160	8,600	7,720	8,160					
170	5,900	5,290	7,280					
180	3,970	3,310	6,170					
184	3,090	2,430	5,730					
190			4,630					
200			2,870					
203			2,200					

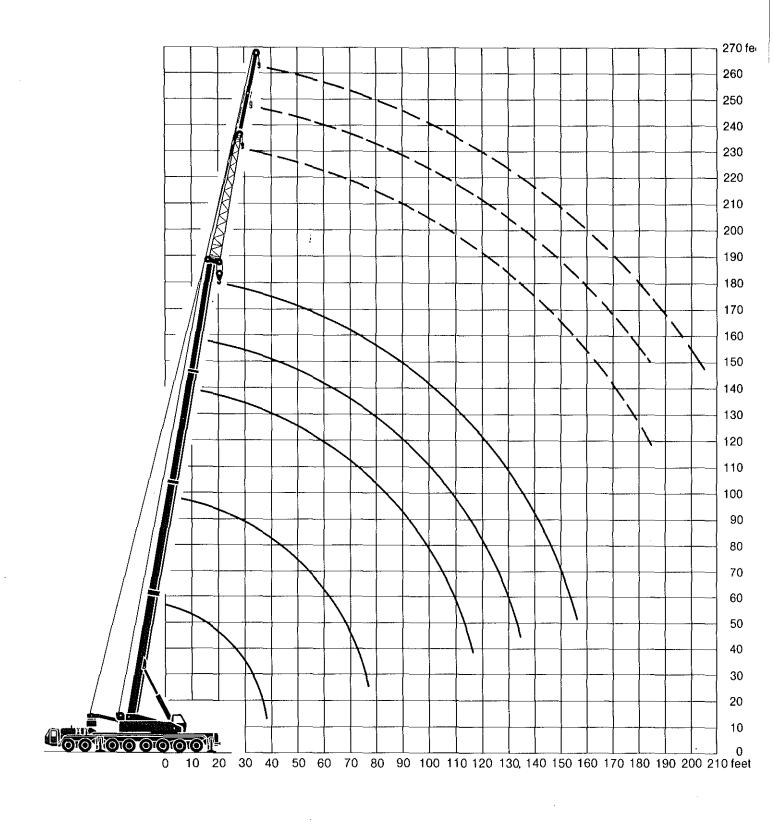
Remarks referring to load charts.

- 1. The tabulated load ratings do not exceed 85 % of the tipping load.
- 2. The 85 % overturning limit values take into account wind force.
- 3. Load capacities are given in pounds (lbs.).
- 4. The weight of the hook, respectively of the hook block is included in the tabulated ratings.
- 5. Working radii are counted from slewing centre.
- 6. The tabulated load ratings for the main boom are valid when lattice-type head section is disassembled. The ratings are to be reduced by 3,748 lbs. when lattice-type head section is placed beside pivot section.

The load ratings are to be reduced by 13,230 lbs. when lattice-type head section is assembled, but if working with main boom.



Lifting heights at the telescopic boom and at the fold in jib.





Lifting capacities (in lbs.) at the luffing fly jib.

Luffing fly jib: 36 ft. – 124 ft. Outriggers fully extended, 360°.

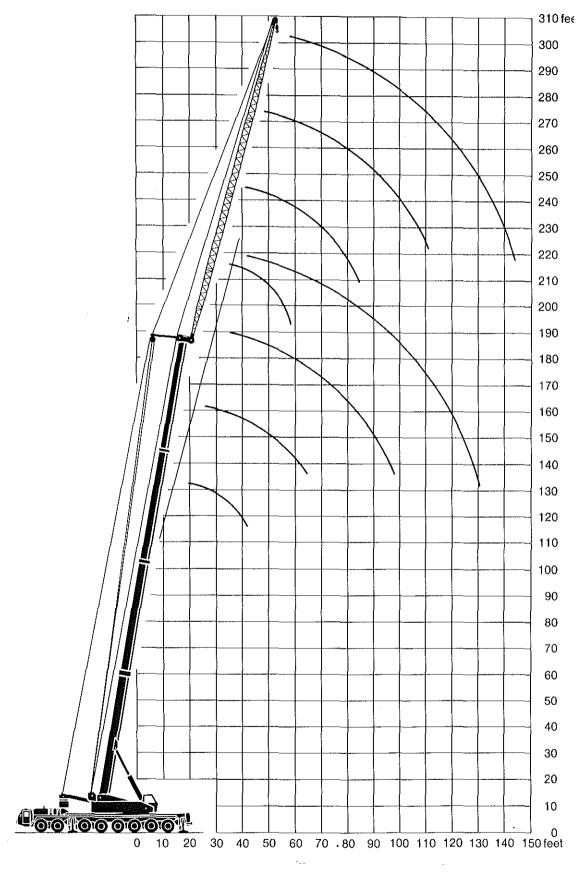
Counterweight: 57,300 lbs. extended or retracted.

Radius	Working lengths of telescopic boom										
in		96	ft.			138	3 ft.				
		Fly	jib		Fly	jib					
feet	36 ft.	65 ft.	95 ft.	124 ft.	36 ft.	65 ft.	95 ft,	124 ft.			
20	127,000										
26	115,000	97,000	,		84,800						
30	109,000	92,000	~ -		82,000						
33	103,000	87,000			79,150						
36	97,000	83,500	66,100		76,500	68,300					
40	91,000	79,100	62,300		73,850	65,900					
43	84,900	75,600	59,700	34,100	71,430	63,200	50,700				
46		71,800	56,900	32,850	68,340	61,000	48,900				
49		68,300	54,900	32,630	65,700	58,800	47,600	33,000			
53		64,600	52,400	31,900	63,050	56,400	46,000	32,400			
56		61,000	50,270	30,800		54,200	44,300	31,700			
59		57,300	48,500	29,900		52,000	42,700	30,600			
65		50,000	44,100	28,200		47,600	39,600	29,100			
72			39,900	26,600		42,900	36,300	27,100			
79			36,300	24,900		38,800	33,000	25,300			
85			32,600	23,150			30,200	23,300			
92			29,100	21,830			27,500	22,050			
98			25,790	20,060			25,100	20,060			
105				18,520			22,900	18,520			
111				17,200				16,310			
118				15,650				14,900			
125				14,110				13,670			
131				12,790				12,350			
138		ļ						11,020			

Radius	Working lengths of telescopic boom									
in		160) ft.	180 ft.						
		Fly	jib		Fly	jib				
feet	36 ft.	65 ft.	95 ft.	124 ft.	36 ft.	65 ft.	95 ft.	124 ft		
88	60,600							^,		
36	58,800				41,800					
40	57,100	47,400			41,400					
43	55,300	45,640	100		40,800	30,800				
46	53,500	44,500	36,300		40,100	30,400				
49	51,800	42,700	35,000		39,200	29,700	22,050			
53	50,000	41,600	33,900		38,300	29,100	21,160			
56	48,500	40,100	32,600	20,900	37,700	28,200	20,720			
59		38,800	31,500	20,500	37,000	27,700	20,280	12,13		
65		35,900	29,500	19,400		26,600	19,400	11,46		
72		33,000	27,100	18,080		25,300	18,080	11,020		
79		30,400	25,300	17,200		24,250	17,200	10,58		
85			23,500	16,090		22,930	16,090	10,140		
92			20,900	14,990			15,210	9,70		
98			19,400	14,550			13,890	9,04		
105			17,400	13,230			13,010	8,60		
111				12,130			11,020	8,16		
118				11,020				7,94		
125				10,140				7,72		
131				9,700				7,50		
138				8,600				7,28		
144				,				7,05		



Lifting heights at the luffing fly jib.





Lifting capacities (in lbs.) at the fixed fly jib.

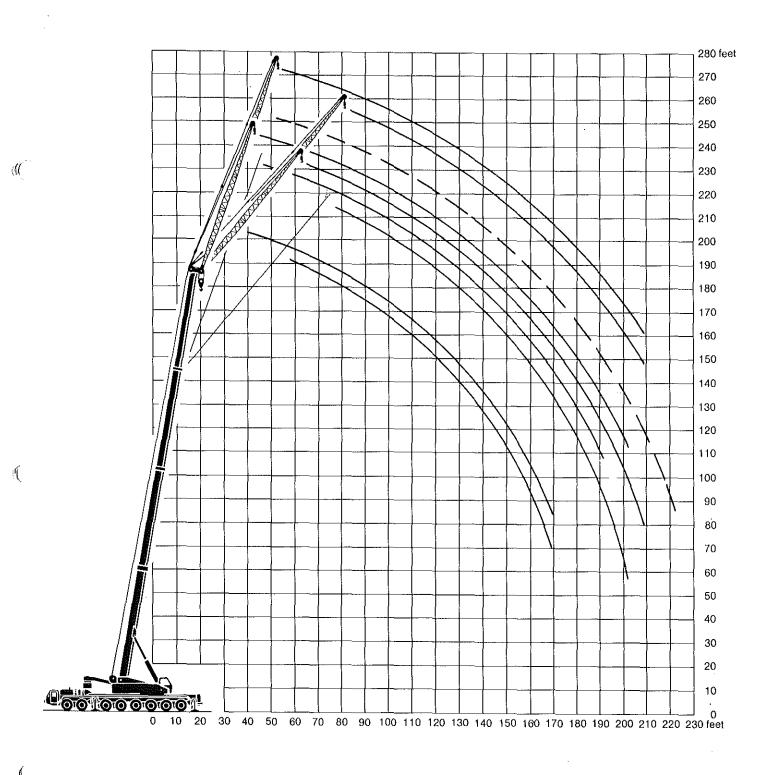
Fixed fly jib: 65 ft. -95 ft. Outriggers fully extended, 360° . Counterweight: 57,300 lbs. or 72,750 lbs. fully extended.

Radius	Working lengths of telescopic boom										
		138	3 ft.		160 ft.						
in		Fly	jib			Fly	jib				
	65 ft.		95 ft.		65 ft.		95 ft.				
feet	10°	30°	10°	30°	10°	30°	10°	30°			
. 53	21,800										
60	20,710		11,300		17,980						
65	19,980	16,970	10,960		16,870		11,490				
72	19,090	16,270	10,670		15,550	14,080	11,040				
78	18,060	15,600	10,450		14,660	13,430	10,710				
80	17,760	15,330	10,300		14,360	13,150	10,620				
92	16,000	13,810	9,450	8,100	12,830	11,620	9,930	9,930			
98	15,300	13,140	9,120	7,780	11,940	10,960	9,480	9,480			
110	13,750	11,810	8,360	7,120	10,840	9,840	8,720	8,720			
120	12,570	10,700	7,950	6,470	9,800	9,040	8,140	8,140			
130	11,290	9,790	7,120	5,900	8,860	8,110	7,580	7,580			
140	10,340	8,890	6,540	5,410	8,080	7,510	6,950	6,950			
150	9,420	8,070	6,000	4,950	7,340	6,850	6,300	6,300			
160	8,500	7,400	5,400	4,510	6,600	6,160	5,680	5,680			
170	7,700	6,910	4,880	4,140	5,860	5,610	5,120	5,120			
180			3,110	3,770	5,120	4,970	4,570	4,570			
190			2,880	3,520	4,610	4,380	3,960	3,960			
195				3,420	4,430	4,100	3,630	3,630			
203				3,300	3,600		3,170	3,170			
210			ł				2,780	2,780			
215				· · · · · · · · · · · · · · · · · · ·			2,510	2,510			
223								2,020			

Radius	Working lengths of telescopic boom 180 ft. Fly jib								
in									
	65	ft.	95	ft.					
feet	10°	30°	10°	30°					
60	15,120		28 5						
65	14,290		8,730						
72	13,360		8,370						
78	12,580	11,470	8,040						
80	12,320	11,310	7,950						
92	10,770	9,680	7,340						
98	10,000	9,020	7,050	7,050					
110	8,650	7,780	6,390	6,390					
120	7,550	6,890	5,830	5,830					
130	6,440	6,150	5,380	5,380					
140	5,650	5,490	4,840	4,840					
150	4,920	4,840	4,290	4,290					
160	4,220	4,220	3,760	3,760					
170	3,670	3,670	3,300	3,300					
180	3,200	3,110	2,750	2,750					
190	2,740	2,560	2,250	2,250					
195	2,510	2,280	2,020	2,020					
203	2,230	1,950	1,600	1,600					
210		1,690	1,210	1,210					

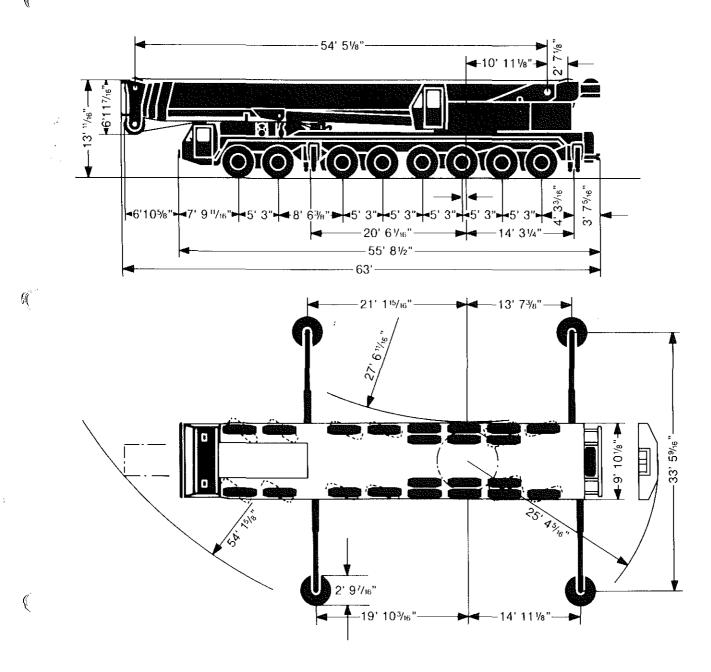


Lifting heights at the fixed fly jib.





Dimensions.



Hook blocks and hook.

Basic machine complete with counterweight

279,990 lbs.



Upper machinery.

Frame: Liebherr-made, torsion-resistant, welded construction made of high-tensile structural steel. Connection

to crane carrier by triple roller slewing ring, make Rothe Erde, designed for 360° continuous rotation. Diesel, 8 cylinder, watercooled, make Daimler-Benz, type OM 402, output 181 kW DIN (246 HP) at 2300 min⁻¹. (Max. torque 620 lbs. ft. at 1400 min⁻¹. Fuel supply: 93 gal.

Crane engine:

Diesel-hydraulic with 4 axial piston swivelling pumps with servo control and automatic output regulation. Crane drive:

One auxiliary double pump for feeder circuit.

Crane control: By self-centering control lever, operationable in 4 directions (cross-control arrangement).

Main winch and Axial piston motor, full hydraulic power up and down. Hoist drum with integrated planetary gear and aux. winch: spring loaded brake.

Derricking: Twin double-acting hydraulic cylinders with integral safety locking valves.

Slewing: Worm-and-planetary-gear with flange connected hydraulic motor and spring loaded brake.

Crane cab: All-steel construction, safety glazing, heater, full instrumentation.

Safety devices: Hoist limit switch, radius indicator, safety valves to protect hydraulic system against pipe and hose

fracture. Overload protection.

Telescopic main 1 boom pivot section and 3 telescope sections. All sections hydraulically under load extendable. Extension of

sections 2 and 3 synchronous. Boom length: 180 ft.

Lattice-type head section: 36 ft. - 124 ft. long, fixed or luffing, only in conjunction with auxiliary winch.

Fold in jib: From 49 ft. - 75 ft. extendable, straight line extension of main boom.

Electrical system: 24 volts d. c., 2 batteries.

Truck chassis.

Frame: Liebherr designed and manufactured, box type, torsion resistant, all-welded construction made of high-

tensile structural steel.

Outriggers: 4 sliding beams with hydraulic extension cylinders and hydraulic support pad jacks. Front outriggers

mounted between axles 2 and 3, rear outriggers at rear of truck chassis.

Diesel, 12 cylinder, watercooled, make Daimler-Benz, type OM 404 A, output 386 kW DIN (525 HP) at 2500 min⁻¹. Max. torque 1400 lbs. ft. at 1600 min⁻¹. Fuel supply: 238 gal. Engine:

Allison Type CLBT 750 automatic transmission with torque converter and hydrodynamic retarder brake.

5 forward speeds, 1 reverse. Splitter gearbox with differential. Axles:

Heavy duty crane truck axies, all 8 axles sprung. Axles 1 to 4 and 7 and 8 steered. Axles 1, 2, 5 and 6 have planetary reduction gears and inter-axle differentials. Suspension:

Axles 1 and 2 and 5 and 6 coil-sprung and mounted on tandem compensating beams. Axles 3, 4, 7 and 8 hydraulically sprung, with variable axle load facility. All axles provided with hydraulic locking without sacrificing balance-beam action between the above-mentioned axle pairs.

Tyres: 22 tyres: axles 1 to 4 and 8 with single tyres, <math>axles 5 to 7 with twin tyres. Tyre size: 14.00-24, 22 PR.

ZF semi-unitary hydraulic power steering with 2 pump circuits. Main pump circuit driven from engine,

auxiliary pump circuit from final drive.

Brakes: Service brake: servo assisted air brakes acting on all wheels. Twin pipe, dual circuit system. Handbrake:

spring-action, acting on all wheels of axles 2 to 7.

Driver's cab: Large-area, all-steel cab with resilient mountings, safety glass windows and full range of instruments.

Electrical system: 24 volts d. c., 2 batteries, lighting to German road vehicle regulations.

Subject to modification.

Gearbox:

Steering:

TP 32a USA 2.2.81