



CROFTON
CRANE RENTAL & RIGGING

GROVE[®]
by **Manitowoc**

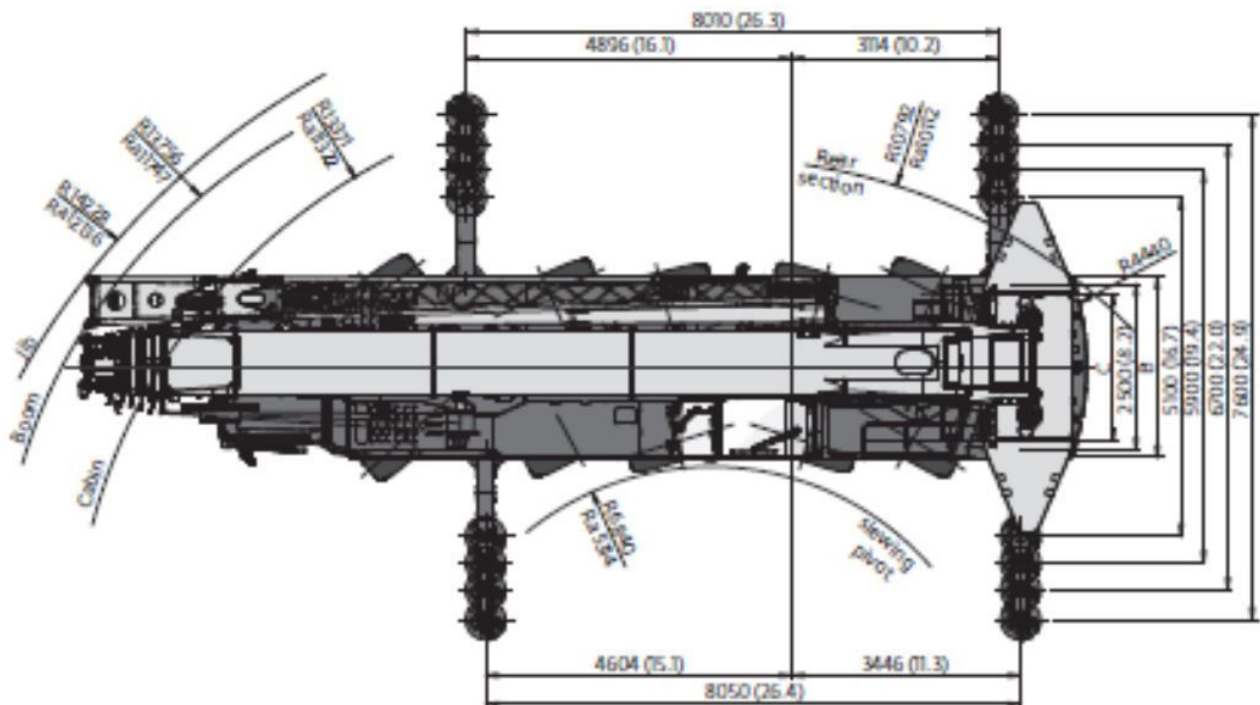
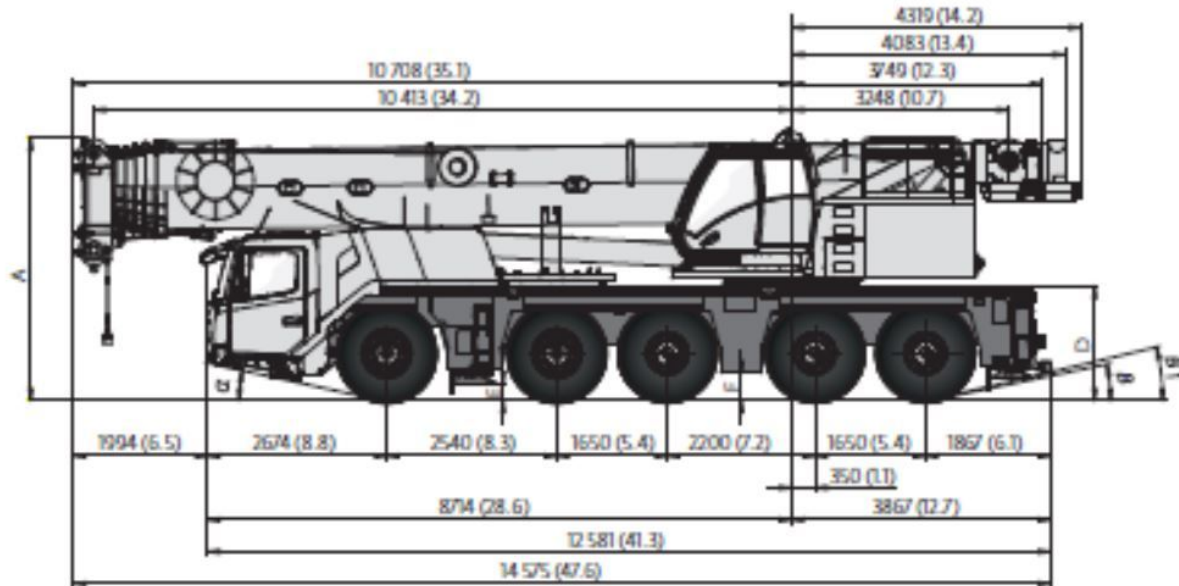
GMK5150L Product Guide

ASME B30.5 • Imperial 85%



Features

- 150 t (175 US t) capacity
- 60 m (197 ft) six-section boom
- 11,2 m (36 ft) / 17,8 m (58 ft) bi-fold swingaway
- 8 m (26 ft) boom and 8 m (26 ft) jib extensions for a maximum total length of 33,8 m (111 ft)
- Single engine design – less fuel consumption



Dimensions in mm (ft) unless otherwise noted.

Ra = Radius all wheels steered

	A	A 105 mm (0.1)	B	C	D	E	F	α	β	β ₁
R04.00/R25	3935 (12.9)	3805 (12.5)	2750 (9.0)	2298 (7.5)	1732 (5.7)	272 (0.9)	431 (1.4)	12°	12°	13°
R06.00/R25	3998 (13.1)	3868 (12.7)	2750 (9.0)	2296 (7.4)	1795 (5.9)	335 (1.1)	404 (1.6)	14°	15°	16°
R20.50/R25	3998 (13.1)	3868 (12.7)	2900 (9.5)	2296 (7.5)	1795 (5.9)	335 (1.1)	404 (1.6)	14°	15°	16°

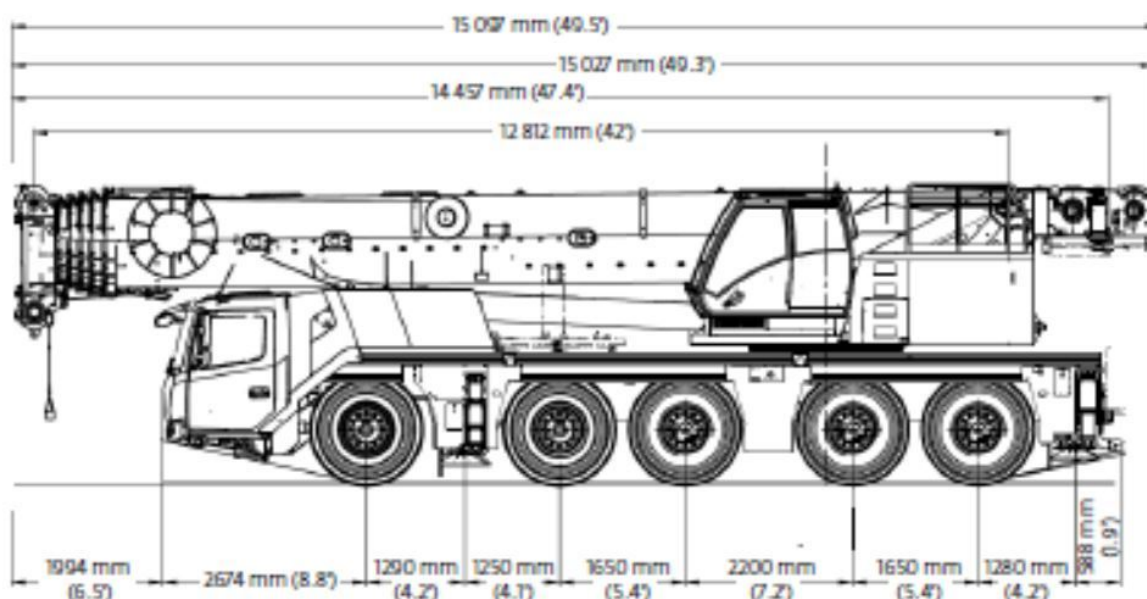
**Lowered

Weights



CROFTON
CRANE RENTAL & RIGGING

Boom over front



Basic Weights	Axles 1 and 2		Axles 3-5		Total	
GMK550L Mercedes-Benz power Tier 4 Final with: 16.00R25 tires, 10x6x0 drive/steer, 2nd oil cooler, outrigger pads, auxiliary hoist, driver and tanks filled, 26 t (29 Ust.) hook block on bumper	22 900 kg	50,500 lb	18 460 kg	61,020 lb	50 590 kg	111,530 lb
Additions						
10x6x10 drive/steer	180 kg	397 lb	220 kg	486 lb	400 kg	883 lb
Electric driveline retarder	87 kg	191 lb	0 kg	0 lb	87 kg	191 lb
Spare wheel 14.00 R25 XGC steel rim with stowage	-210 kg	-464 lb	481 kg	1061 lb	271 kg	597 lb
Spare wheel 16.00 R25 XGC steel rim with stowage	-252 kg	-555 lb	576 kg	1269 lb	324 kg	714 lb
Spare wheel 20.5 R25 XGC steel rim with stowage	-301 kg	-663 lb	688 kg	1516 lb	387 kg	853 lb
Brackets for hydraulic swingaway	105 kg	233 lb	5 kg	10 lb	110 kg	243 lb
Hose reel + parts for hydraulic swingaway	293 kg	646 lb	-128 kg	-282 lb	165 kg	364 lb
11 m-18 m (36 ft-59 ft) hydraulic swingaway	2230 kg	4915 lb	-370 kg	-816 lb	1860 kg	4099 lb
Auxiliary boom nose	176 kg	389 lb	-94 kg	-207 lb	82 kg	182 lb
(2) 2300 kg (5070 lb) sections pinned to superstructure	-3102 kg	-6862 lb	7614 kg	16,787 lb	4502 kg	9925 lb
2300 kg (5070 lb) section pinned to superstructure	-1586 kg	-3497 lb	3880 kg	8555 lb	2294 kg	5058 lb
2300 kg (5070 lb) section stowed on carrier	1757 kg	3874 lb	557 kg	1227 lb	2314 kg	5101 lb
(2) 2300 kg (5070 lb) sections stowed on carrier	357 kg	775 lb	1115 kg	2457 lb	4632 kg	10,212 lb
Substitutions:						
14.00R25 tires	-212 kg	-468 lb	-318 kg	-700 lb	-530 kg	-1168 lb
20.5R25 tires	252 kg	555 lb	378 kg	834 lb	630 kg	1389 lb
Removals:						
Boom assembly	-12 184 kg	-26,860 lb	-2898 kg	-6389 lb	-15 082 kg	-33,249 lb
Front outriggers	-1697 kg	-3741 lb	-6 kg	-13 lb	-1703 kg	-3754 lb
Rear outriggers	1208 kg	2663 lb	-3125 kg	-6890 lb	-1917 kg	-4227 lb
Front and rear outrigger floats	-34 kg	-75 lb	-152 kg	-336 lb	-186 kg	-411 lb

Working range

Main boom



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Working range



12,8 - 60,0 m
(42 - 197 ft)



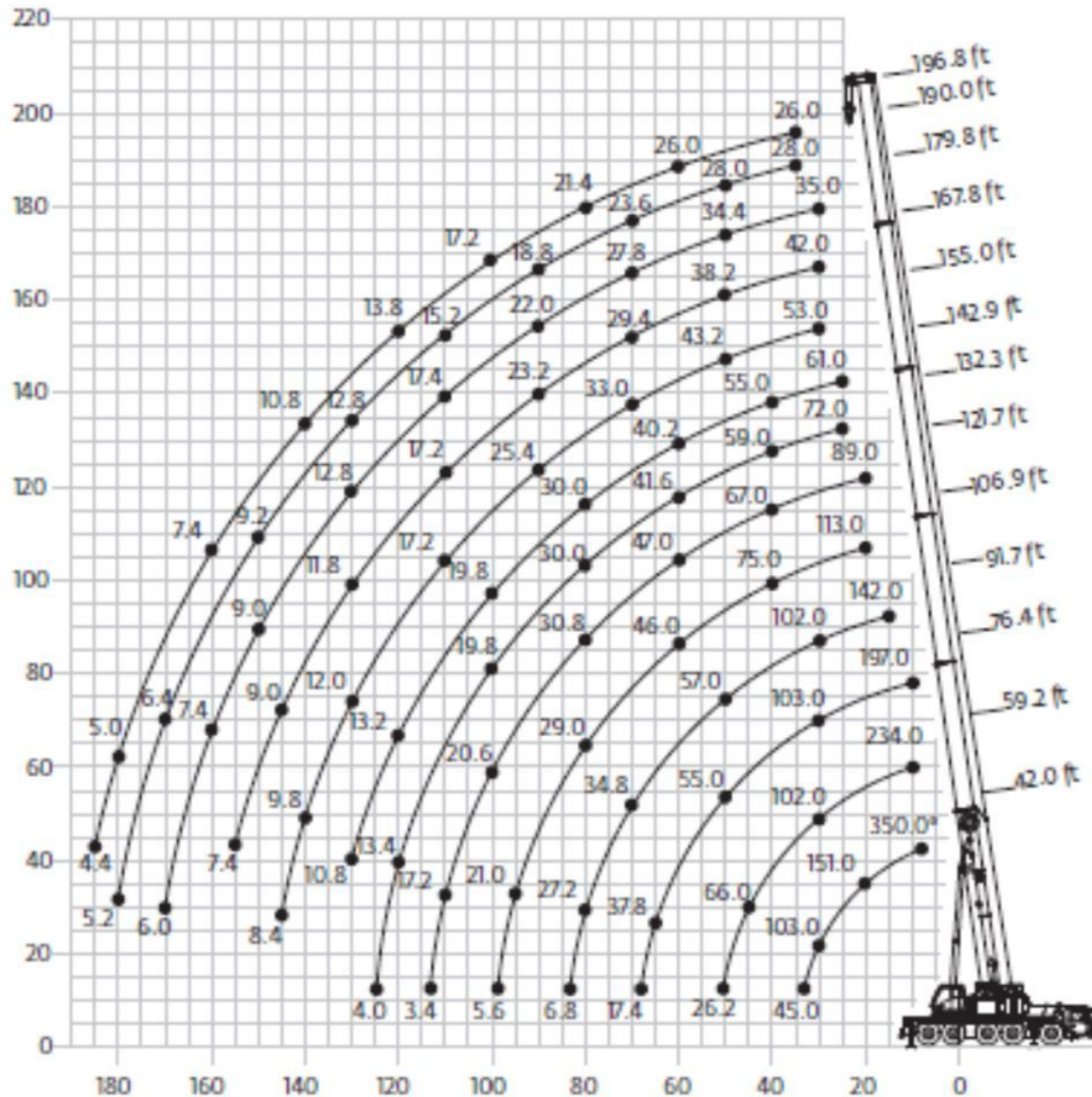
7,6 m (25 ft)



360°



44,5 t (98,100 lb)



Hook block

H

140 D (154 USt)

3160 (10.4 ft)

95 D (105 USt)

3070 (10.1 ft)

60 E/D (66 USt)

3000 (9.8 ft)

26 E (29 USt)

2770 (9.1 ft)

9 HVB (10 USt)

2350 (7.7 ft)



Load chart

Main boom

Telescopic boom



12,8 - 60,0 m
(42 - 197 ft)



7,6 m (25 ft)



360°



44,5 t (98,100 lb)



lb x 1000

ft	42.0	59.3	76.4	91.7	106.9	116.6	121.7	133.7	146.1	155.0	167.8	179.8	190.0	196.9	ft
8.0	*350.0														8.0
10.0	**238.0	**234.0	197.0												10.0
15.0	186.0	186.0	181.0	142.0											15.0
20.0	151.0	152.0	150.0	132.0	113.0	79.0	89.0								20.0
25.0	126.0	128.0	126.0	116.0	103.0	69.0	87.0	72.0	61.0						25.0
30.0	103.0	105.0	103.0	102.0	92.0	61.0	80.0	71.0	61.0	53.0	42.0	35.0			30.0
35.0		88.0	86.0	87.0	83.0	54.0	73.0	65.0	59.0	52.0	42.0	35.0	28.0	26.0	35.0
40.0		75.0	75.0	74.0	75.0	49.0	67.0	59.0	55.0	50.0	42.0	35.0	28.0	26.0	40.0
45.0		66.0	65.0	64.0	66.0	44.0	61.0	54.0	51.0	46.0	40.8	35.0	28.0	26.0	45.0
50.0		46.0	57.0	57.0	58.0	40.8	56.0	49.0	47.0	43.2	38.2	34.4	28.0	26.0	50.0
55.0			52.0	51.0	51.0	38.0	52.0	45.0	43.6	40.4	35.8	32.8	27.8	26.0	55.0
60.0			47.0	47.0	46.0	35.2	47.0	41.6	40.2	37.8	33.4	31.0	26.4	26.0	60.0
65.0			39.6	42.4	41.4	33.0	42.8	38.4	37.2	35.2	31.4	29.4	25.0	25.0	65.0
70.0				38.0	36.8	31.2	38.6	35.6	34.4	33.0	29.4	27.8	23.6	23.8	70.0
75.0				34.0	34.2	29.4	34.4	33.0	32.0	31.0	27.8	26.2	22.4	22.6	75.0
80.0				27.2	32.0	28.0	30.8	31.0	30.0	29.0	26.0	24.6	21.0	21.4	80.0
85.0					29.2	26.6	27.8	29.0	26.8	27.4	24.6	23.4	20.0	20.4	85.0
90.0					26.6	25.4	25.2	26.4	24.2	25.4	23.2	22.0	18.8	19.2	90.0
95.0					24.2	24.2	22.8	24.0	22.6	23.0	22.0	20.8	17.8	18.2	95.0
100.0						23.2	20.6	21.8	21.6	20.8	20.8	19.6	16.8	17.2	100.0
105.0						21.4	18.8	20.0	20.6	19.0	19.0	18.4	16.0	16.2	105.0
110.0						12.2	17.2	18.2	19.0	17.2	17.2	17.4	15.2	15.4	110.0
115.0							16.6	16.8	17.4	16.2	15.8	16.6	14.6	14.6	115.0
120.0							11.2	15.4	16.0	15.4	15.0	15.2	14.0	13.8	120.0
125.0								11.0	14.8	14.8	14.2	14.0	13.4	13.0	125.0
130.0									13.6	13.6	13.4	12.8	12.8	12.4	130.0
135.0									12.4	12.6	12.4	11.8	12.0	11.6	135.0
140.0										11.6	11.4	10.8	11.0	10.8	140.0
145.0										10.8	10.4	10.0	10.2	9.8	145.0
150.0										4.2	9.6	9.6	9.2	9.0	150.0
155.0											8.8	9.2	8.4	8.2	155.0
160.0											7.4	8.4	7.8	7.4	160.0
165.0												7.6	7.0	6.8	165.0
170.0												7.0	6.4	6.2	170.0
175.0													5.8	5.6	175.0
180.0													5.2	5.0	180.0
185.0														4.4	185.0

* Over rear with special equipment

**Lifting loads > 206,000 lb can be lifted only with additional equipment



Working range

Main boom and bi-fold swingaway

Working range



12,8 - 60,0 m
(42 - 197 ft)



11,2/17,8/25,8 m
(36 / 58 / 85 ft)



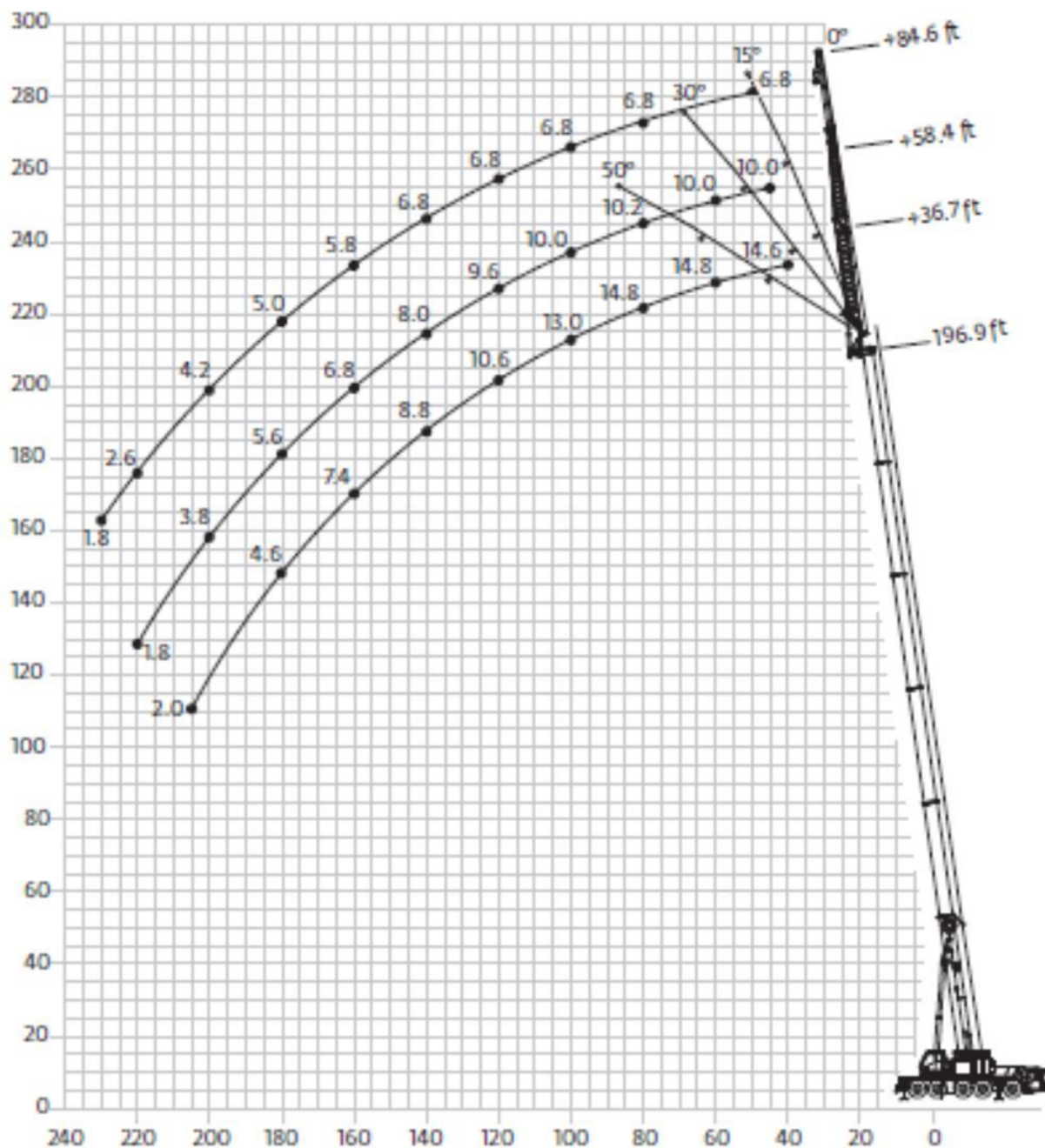
7,6 m
(25 ft)



360°



44,5 t
(98,100 lb)





Load chart

Main boom and bi-fold swingaway

Swingaway (hydraulic luffing)



12,8 - 60,0 m
(42 - 197' ft)



11,2 m (36 ft)



7,6 m
(25' ft)



360°



44,5 t
(98,100 lb)



lb x 1000

ft	42.0 36.7				121.7 36.7				179.8 36.7				196.9 36.7				ft
ft	0°	0°-15°	15°-30°	30°-50°	0°	0°-15°	15°-30°	30°-50°	0°	0°-15°	15°-30°	30°-50°	0°	0°-15°	15°-30°	30°-50°	ft
10.0	37.2																10.0
15.0	37.2																15.0
20.0	37.2	34.0															20.0
25.0	37.2	31.2	25.6		36.6												25.0
30.0	34.8	28.4	23.8	20.2	35.8												30.0
35.0	30.8	26.2	22.4	19.6	35.0	29.8			19.4								35.0
40.0	27.6	24.2	21.2	18.8	34.0	29.0	24.8		19.4				14.6				40.0
45.0	25.2	22.6	20.2	18.2	33.0	28.2	24.0		19.4				14.6				45.0
50.0	23.0	21.0	19.4	18.0	32.2	27.4	23.2	19.6	19.4	19.4			14.6	14.6			50.0
55.0	21.2	19.8	18.4		31.0	26.6	22.6	19.2	19.4	19.4	19.0		14.6	14.6			55.0
60.0	19.6	18.6	17.6		29.8	25.8	22.0	19.0	19.4	19.4	19.0	17.4	14.6	14.6	14.8		60.0
65.0	18.0	17.4	17.2		28.2	24.8	21.4	18.8	19.4	19.4	19.0	17.4	14.6	14.6	14.8		65.0
70.0	16.8	16.8			26.8	23.6	21.0	18.2	19.4	19.4	18.6	17.4	14.6	14.6	14.8	14.8	70.0
75.0					25.4	22.6	20.4	18.2	19.4	18.6	17.8	17.4	14.6	14.6	14.8	14.8	75.0
80.0					24.0	21.6	20.0	18.0	18.6	17.6	17.0	17.0	14.6	14.6	14.8	14.8	80.0
85.0					22.8	20.6	19.4	17.8	17.6	17.0	16.4	16.4	14.6	14.6	14.6	14.6	85.0
90.0					21.8	19.8	18.4	17.8	16.8	16.2	15.8	15.8	14.2	14.0	14.0	14.0	90.0
95.0					20.8	19.0	17.8	17.4	16.0	15.6	15.2	15.2	13.6	13.4	13.2	13.2	95.0
100.0					19.8	18.0	17.2	17.0	15.2	15.0	14.6	14.6	13.0	12.8	12.6	12.6	100.0
105.0					19.0	17.4	16.8	16.8	14.6	14.4	14.2	14.2	12.2	12.2	12.0	12.0	105.0
110.0					18.0	16.8	16.4	16.4	13.8	13.6	13.6	13.6	11.6	11.6	11.6	11.6	110.0
115.0					16.6	16.4	15.8		13.2	13.0	13.0	13.0	11.0	11.0	11.0	11.0	115.0
120.0					15.2	15.2	15.6		12.6	12.6	12.6	12.6	10.6	10.4	10.4	10.4	120.0
125.0					14.0	14.0	14.4		12.2	12.0	12.0	12.0	10.0	10.0	10.0	10.0	125.0
130.0					12.8	12.8	13.2		11.6	11.4	11.4	11.6	9.6	9.4	9.4	9.6	130.0
135.0					11.8	11.8	12.0		11.0	11.0	11.0	11.0	9.2	9.0	9.0	9.2	135.0
140.0					10.8	10.8			10.2	10.2	10.6	10.6	8.8	8.6	8.6	8.8	140.0
145.0					10.0	10.0			9.2	9.2	9.8	10.0	8.2	8.2	8.2	8.4	145.0
150.0					3.8	3.8			8.4	8.4	8.8	9.2	8.0	8.0	8.0	8.0	150.0
155.0									7.6	7.6	8.0		7.4	7.4	7.6	7.6	155.0
160.0									6.8	6.8	7.2		6.6	6.6	7.0	7.4	160.0
165.0									6.2	6.2	6.4		6.0	6.0	6.4		165.0
170.0									5.4	5.4	5.8		5.4	5.4	5.6		170.0
175.0									4.8	4.8	5.2		4.6	4.6	5.0		175.0
180.0									4.4	4.4	4.6		4.2	4.2	4.4		180.0
185.0									3.8	3.8	4.0		3.6	3.6	3.8		185.0
190.0									3.4	3.4	3.4		3.0	3.0	3.4		190.0
195.0									2.8	2.8			2.6	2.6	2.8		195.0
200.0									2.4	2.4			2.2	2.2	2.4		200.0
205.0									2.0	2.0			1.8	1.8			205.0



Load chart

Main boom and bi-fold swingaway

Swingaway (hydraulic luffing)



12,8 - 60,0 m
(42 - 197 ft)



17,8 m (58 ft)



7,6 m
(25 ft)



360°



44,5 t
(98,100 lb)



lb x 1000

ft	42.0 58.4				121.7 58.4				179.8 58.4				196.0 58.4				ft
ft	0°	0°-15°	15°-30°	30°-50°	0°	0°-15°	15°-30°	30°-50°	0°	0°-15°	15°-30°	30°-50°	0°	0°-15°	15°-30°	30°-50°	ft
10.0																	10.0
15.0	18.8																15.0
20.0	18.8																20.0
25.0	18.8																25.0
30.0	17.8	15.8			17.0												30.0
35.0	17.0	15.0			16.8												35.0
40.0	16.0	14.2	12.8		16.4				12.2								40.0
45.0	15.2	13.6	12.0		16.2	14.4			12.2				10.0				45.0
50.0	14.4	13.0	11.4	10.0	15.8	14.0			12.2				10.0				50.0
55.0	13.6	12.2	10.8	9.6	15.6	13.8	12.2		12.2				10.0				55.0
60.0	13.0	11.6	10.4	9.4	15.2	13.4	12.0		12.0	11.4			10.0	10.0			60.0
65.0	12.2	11.0	10.0	9.2	15.0	13.2	11.6		12.0	11.4			10.0	10.0			65.0
70.0	11.4	10.4	9.6	9.0	14.6	12.8	11.4	9.6	11.8	11.4			10.0	10.0			70.0
75.0	10.8	10.0	9.4	9.0	14.2	12.6	11.0	9.6	11.8	11.2	10.8		10.0	10.0			75.0
80.0	10.2	9.6	9.2		14.0	12.4	10.8	9.4	11.8	11.2	10.6		10.0	10.0	10.2		80.0
85.0	9.6	9.2	9.0		13.6	12.0	10.6	9.2	11.6	11.0	10.6		10.0	10.0	10.2		85.0
90.0	9.2	9.0			13.2	11.8	10.4	9.2	11.6	11.0	10.4	9.2	10.0	10.0	10.2	9.2	90.0
95.0					13.0	11.6	10.2	9.2	11.6	11.0	10.4	9.2	10.0	10.0	10.0	9.2	95.0
100.0					12.6	11.2	10.0	9.0	11.4	10.8	10.2	9.2	10.0	10.0	10.0	9.2	100.0
105.0					12.4	11.0	9.8	9.0	11.4	10.8	10.2	9.0	10.0	10.0	10.0	9.0	105.0
110.0					12.2	10.6	9.6	9.0	11.2	10.6	10.0	9.0	10.0	10.0	9.8	9.0	110.0
115.0					11.8	10.4	9.4	9.0	11.2	10.6	9.8	9.0	10.0	10.0	9.8	9.0	115.0
120.0					11.4	10.2	9.4	9.0	11.0	10.4	9.6	9.0	9.6	9.4	9.4	9.0	120.0
125.0					11.2	10.0	9.2	9.0	10.8	10.2	9.6	8.8	9.0	9.0	9.0	8.8	125.0
130.0					10.8	9.8	9.0	9.0	10.4	10.0	9.4	8.8	8.6	8.6	8.6	8.8	130.0
135.0					10.6	9.6	9.0		10.0	9.8	9.2	8.8	8.2	8.2	8.2	8.4	135.0
140.0					10.2	9.4	9.0		9.6	9.4	9.2	8.8	7.8	7.8	8.0	8.0	140.0
145.0					10.0	9.2	9.0		9.2	9.0	9.0	8.8	7.6	7.6	7.6	7.6	145.0
150.0					9.8	9.2	9.0		8.8	8.8	8.8	8.8	7.2	7.2	7.2	7.4	150.0
155.0					9.4	9.2	9.0		8.4	8.4	8.4	8.4	6.8	6.8	7.0	7.0	155.0
160.0					8.8	8.8			7.8	7.8	8.2	8.2	6.6	6.6	6.6	6.8	160.0
165.0					8.0	8.0			7.0	7.0	7.8	8.0	6.2	6.2	6.4	6.4	165.0
170.0					7.4	7.4			6.4	6.4	7.0	7.6	6.0	6.0	6.0	6.2	170.0
175.0									5.8	5.8	6.4	6.8	5.6	5.6	5.8	6.0	175.0
180.0									5.2	5.2	5.8		5.0	5.0	5.6	5.6	180.0
185.0									4.6	4.6	5.2		4.4	4.4	5.0	5.4	185.0
190.0									4.2	4.2	4.6		3.8	3.8	4.4	4.8	190.0
195.0									3.6	3.6	4.0		3.4	3.4	4.0		195.0
200.0									3.2	3.2	3.6		3.0	3.0	3.4		200.0
205.0									2.8	2.8	3.2		2.6	2.6	3.0		205.0
210.0									2.4	2.4			2.2	2.2	2.4		210.0
215.0									2.0	2.0					2.0		215.0



Load chart

Main boom and bi-fold swingaway

Swingaway (hydraulic luffing)


12,8 - 60,0 m
(42 - 197 ft)


25,8 m (85 ft)


7,6 m
(25 ft)


360°


44,5 t
(98,100 lb)




lb x 1000

ft ft	42.0 84.6				121.7 84.6				179.8 84.6				196.9 84.6				ft ft
	0°	0°-15°	15°-30°	30°-50°	0°	0°-15°	15°-30°	30°-50°	0°	0°-15°	15°-30°	30°-50°	0°	0°-15°	15°-30°	30°-50°	
10.0																	10.0
15.0																	15.0
20.0	13.2																20.0
25.0	12.8																25.0
30.0	12.4				11.2												30.0
35.0	12.0				11.2												35.0
40.0	11.6	10.8			11.0												40.0
45.0	11.2	10.2			10.8				7.8								45.0
50.0	10.8	9.6			10.8				7.8				6.8				50.0
55.0	10.4	9.2			10.6				7.8				6.8				55.0
60.0	9.8	8.6	7.8		10.4	9.6			7.8				6.8				60.0
65.0	9.2	8.2	7.4		10.2	9.2			7.8				6.8				65.0
70.0	8.8	7.8	7.0		10.2	9.0			7.6				6.8				70.0
75.0	8.2	7.4	6.8	6.2	10.0	8.8	7.4		7.6	7.4			6.8	6.8			75.0
80.0	7.8	7.2	6.6	6.0	9.8	8.4	7.2		7.6	7.4			6.8	6.8			80.0
85.0	7.4	6.8	6.4	5.8	9.6	8.2	7.2		7.6	7.2			6.8	6.8			85.0
90.0	7.0	6.6	6.0	5.6	9.4	8.0	7.0	6.0	7.6	7.2			6.8	6.8			90.0
95.0	6.8	6.2	6.0	5.6	9.2	7.8	6.8	6.0	7.4	7.2	6.8		6.8	6.8			95.0
100.0	6.4	6.0	5.8	5.6	8.8	7.6	6.6	5.8	7.4	7.2	6.6		6.8	6.8	6.4		100.0
105.0	6.2	6.0	5.6		8.6	7.4	6.6	5.8	7.4	7.2	6.6	5.8	6.8	6.6	6.4		105.0
110.0	6.0	5.8	5.6		8.4	7.2	6.4	5.8	7.4	7.0	6.4	5.8	6.8	6.6	6.4		110.0
115.0	5.6	5.6			8.2	7.0	6.2	5.6	7.2	7.0	6.4	5.6	6.8	6.6	6.2	5.6	115.0
120.0	5.4	5.4			7.8	6.8	6.2	5.6	7.2	7.0	6.2	5.6	6.8	6.6	6.2	5.6	120.0
125.0					7.6	6.8	6.0	5.6	7.2	6.8	6.2	5.6	6.8	6.6	6.0	5.6	125.0
130.0					7.4	6.6	6.0	5.6	7.2	6.8	6.0	5.6	6.8	6.6	6.0	5.6	130.0
135.0					7.2	6.4	5.8	5.6	7.2	6.6	6.0	5.6	6.8	6.6	6.0	5.6	135.0
140.0					7.0	6.2	5.8	5.4	7.2	6.6	6.0	5.6	6.8	6.4	5.8	5.4	140.0
145.0					6.8	6.2	5.8	5.4	7.0	6.4	5.8	5.4	6.6	6.4	5.8	5.4	145.0
150.0					6.6	6.0	5.6	5.4	7.0	6.4	5.8	5.4	6.2	6.2	5.8	5.4	150.0
155.0					6.6	6.0	5.6	5.4	7.0	6.2	5.8	5.4	6.0	6.0	5.8	5.4	155.0
160.0					6.4	5.8	5.6		6.8	6.2	5.6	5.4	5.8	5.8	5.6	5.4	160.0
165.0					6.2	5.8	5.6		6.8	6.0	5.6	5.4	5.4	5.4	5.6	5.4	165.0
170.0					6.0	5.8	5.4		6.4	6.0	5.6	5.4	5.2	5.2	5.4	5.4	170.0
175.0					6.0	5.8	5.4		6.2	6.0	5.6	5.4	5.0	5.0	5.0	5.2	175.0
180.0					5.8	5.6	5.4		5.6	5.6	5.6	5.4	4.8	4.8	4.8	5.0	180.0
185.0					5.8	5.6			5.0	5.0	5.4	5.4	4.6	4.6	4.6	4.8	185.0
190.0					5.6	5.6			4.4	4.4	5.4	5.4	4.2	4.2	4.4	4.6	190.0
195.0					5.4	5.4			4.0	4.0	4.8	5.4	3.6	3.6	4.2	4.4	195.0
200.0									3.6	3.6	4.2	4.8	3.2	3.2	4.0	4.2	200.0
205.0									3.0	3.0	3.8		2.8	2.8	3.6	4.0	205.0
210.0									2.6	2.6	3.2		2.4	2.4	3.0	3.6	210.0
215.0									2.2	2.2	2.8		2.0	2.0	2.6	3.2	215.0
220.0									1.8	1.8	2.4				2.2		220.0
225.0											2.0				1.8		225.0

The lifting capacities correspond to ASME 30.5

The lifting capacities likewise fulfill the requirements of SAE J1289 and ISO 4305 with regard to stability.

The lifting capacities are given in 1,000 lb.

Lifting capacity = Payload + weight of hook block and suspending device.

The lifting capacities for the main boom only apply with the jib dismantled.

Lifting capacities > 98t (206,000 lb) require additional equipment.

Lifting capacities > 130t (286,600 lb) require special equipment.

The right is reserved to modify the load-carrying capacities.

Note: The details in this brochure serve only as general information. The determinant values for the operation of the crane are the lifting capacity tables belonging to it and the operating instructions.

Lifting capacities are indicated by boom length for different levels of extension. The actual boom length will be in accordance with the selected configuration for boom extension.