

ATF 220G-5

250 TON CAPACITY

**ALL
TERRAIN
CRANE**



Dimensions (ft, mm) / Dimensiones (ft, mm)

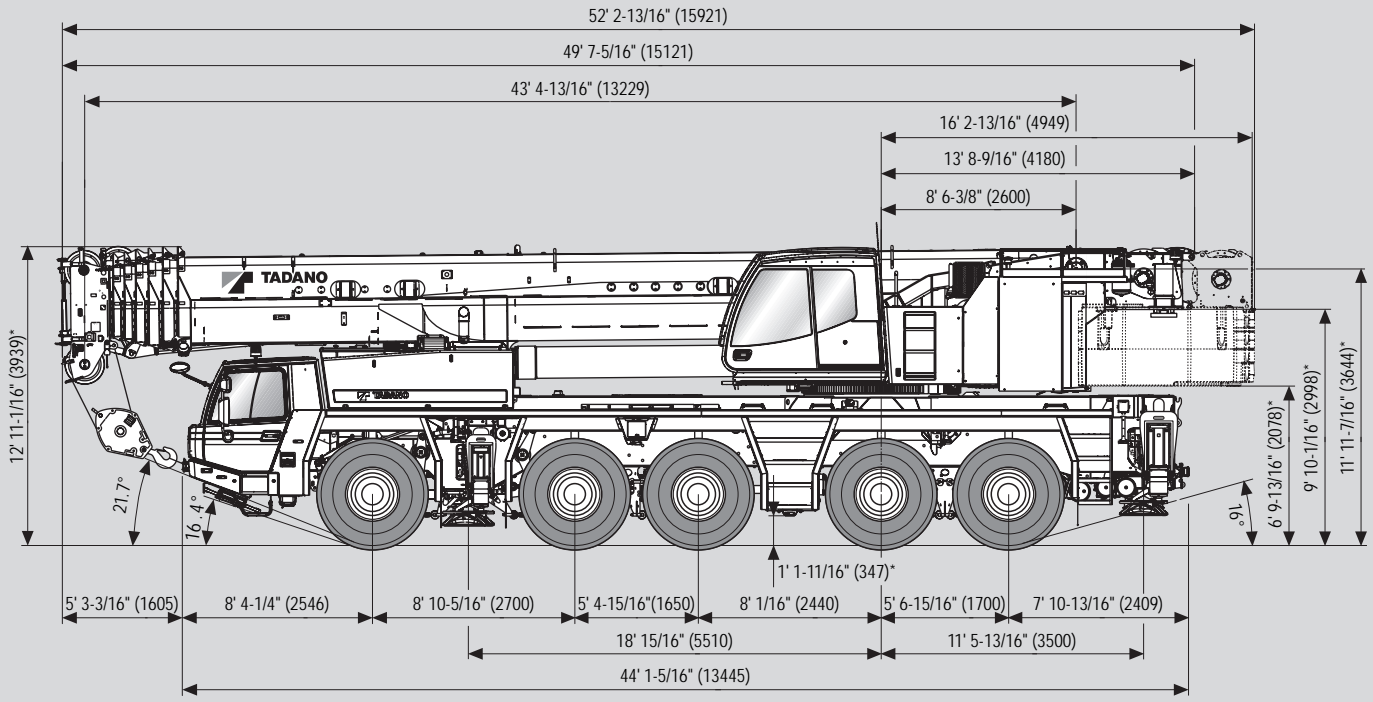


445/95 R 25
(16.00 R 25)

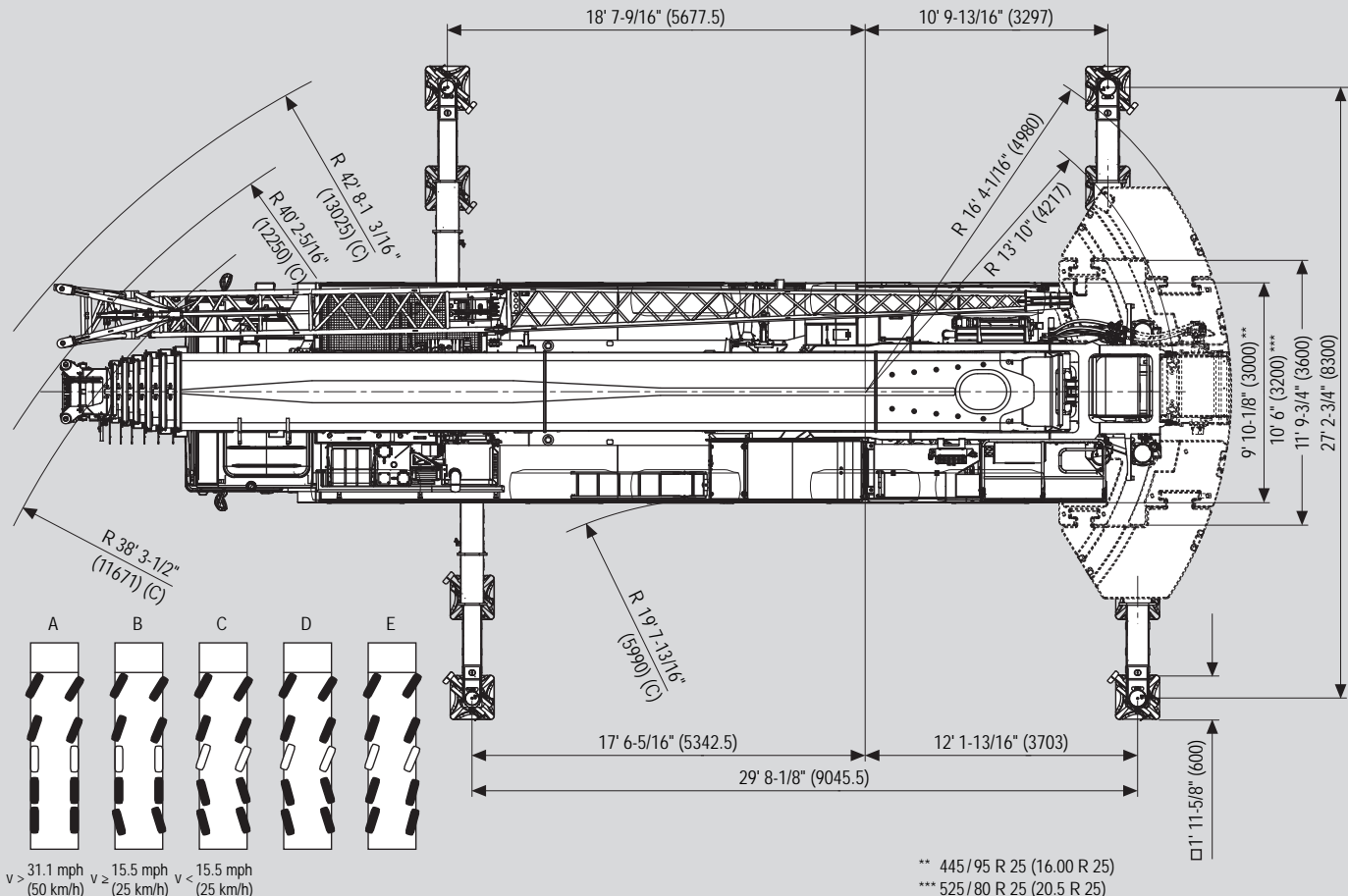


525/80 R 25
(20.50 R 25)

SAE





* - 4-5/8" (118) / + 6-1/4" (158)






Weights / Working speeds / Pesos / Velocidades de trabajo







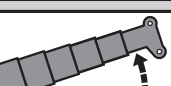



  * Rams horn * Gancho doble	Lifting capacity Capacidad de elevación [lbs]	Sheaves Poleas	Part of line Ramales de cable	Weight Peso [lbs]
	254,900 (Type / Typo 176.4 ton)*	9	16	3,527
208,800 (Type / Typo 137.8 ton)*	7	13	2,976	
130,500 (Type / Typo 88.2 ton)*	5	8	2,535	
98,300 (Type / Typo 69.4 ton)*	3	6	1,874	
98,300 (Type / Typo 69.4 ton)	3	6	1,874	
49,600 (Type / Typo 35.3 ton)	1	3	992	
16,750 (Type / Typo 11.0 ton)	-	1	661	

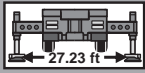
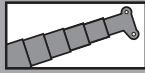


  445/95 (16.00) 525/80 (20.50) mph	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	R1	R2	 61%* 47%
445/95 (16.00)	1.9	1.9	2.5	2.5	3.1	4.3	5.0	5.6	6.8	8.7	10.6	12.4	14.9	18.6	21.7	26.0	1.9	1.9	61%*
525/80 (20.50) mph	3.7	4.3	5.0	6.2	7.5	9.3	11.2	13.0	16.2	19.3	23.6	28.6	34.8	42.3	49.7	52.8	3.7	4.3	47%

* Off road range / * Con transmisión todo terreno

 	Infinitely variable Infinitamente variable	Rope (diameter/length) Cable (diámetro/longitud)	Max. single line pull Trio máximo por ramal
	0 - 420 ft/min 0 - 128 m/min	single line ramal simple	19,180 lbs 98 kN
	0 - 420 ft/min 0 - 128 m/min	single line ramal simple	19,180 lbs 98 kN
	Max. permissible line pull may be affected by wire rope strength, which should not exceed 16,750 lbs for main winch and auxiliary winch La fuerza max del cabestrante es dependiente de la normativa en vigor, la cual no permite superar los 75 kN de fuerza.		
	0 - 1.2 rpm		
	-1.5° - +84°	approx. 50 s aproximadamente 50 s	
	43.3 ft - 223.1 ft 13.2 m - 68.0 m	approx. 500 s aproximadamente 500 s	

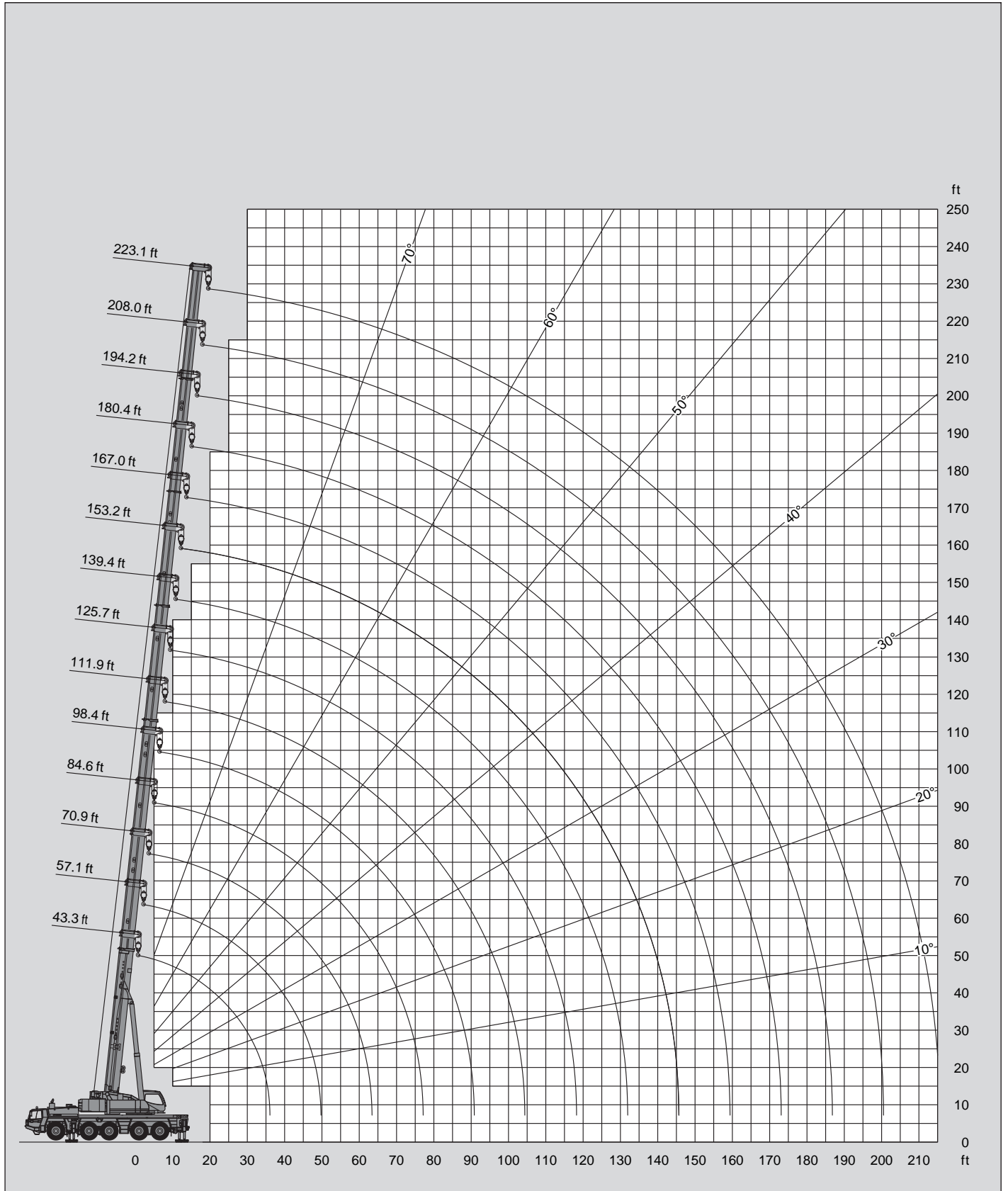
Lifting heights / Alturas de elevación

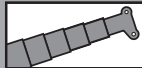
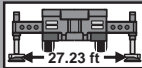



156,527 lbs

lbs x 1,000

SAE



156,527 lbs

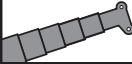
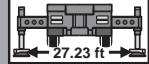

lbs x 1,000 SAE

ft	43.3 ft*	43.3 ft	57.1 ft	70.9 ft	84.6 ft	98.4 ft	111.9 ft	125.7 ft	139.4 ft	153.2 ft	167.0 ft	180.4 ft	194.2 ft	208.0 ft	223.1 ft
8	500.0**														
9	442.1**														
10	394.6**	385.6**	308.6**	308.6**	251.3**										
12	367.1**	346.1**	308.6**	308.6**	247.5**	199.5									
14	341.5**	317.1**	305.7**	304.5**	233.3	199.5									
16	306.9**	286.0**	284.9**	283.5**	227.1	193.7	154.3								
18	274.1**	260.7**	260.1**	258.5**	227.1	184.1	154.3	120.2							
20	244.6**	237.4	237.4	235.2	225.4	174.4	153.5	120.2	95.9						
25	194.9	194.3	193.4	191.5	193.0	170.9	139.1	120.2	95.9	76.1					
30	159.5	159.5	158.6	156.6	157.9	159.7	127.9	113.7	95.0	76.1	62.8	50.7			
35			133.2	131.4	132.6	134.2	126.0	103.1	88.3	75.5	62.8	50.7	41.4		
40			114.1	112.4	113.5	115.0	117.2	93.8	82.5	71.3	62.1	50.7	41.4	33.1	27.6
45			99.5	97.7	98.8	100.4	102.2	89.1	79.1	67.0	59.6	50.3	41.4	33.1	27.6
50				86.1	87.1	88.6	90.4	84.5	74.1	64.1	56.5	48.9	41.4	33.1	27.6
55				76.5	77.3	78.8	80.6	79.5	68.8	61.1	53.4	46.9	41.0	33.1	27.6
60				68.1	69.5	71.1	72.3	73.9	63.8	57.6	50.4	44.6	40.0	33.1	27.6
65					65.3	67.1	67.5	67.0	59.6	54.4	47.7	42.4	38.1	33.1	27.6
70					58.9	60.4	64.1	62.5	55.8	51.7	45.3	40.2	36.4	32.8	27.6
75						56.2	59.6	57.8	52.4	48.9	43.1	38.2	34.8	31.9	27.6
80						53.5	54.4	52.8	49.3	46.1	40.9	36.4	33.2	30.6	27.4
85						50.7	49.7	48.1	46.3	43.8	38.9	34.7	31.8	29.4	26.9
90							45.6	44.1	42.4	41.4	37.2	33.2	30.5	28.2	25.6
95							42.1	40.4	38.9	38.5	35.1	31.8	29.1	27.0	24.3
100							38.9	37.2	35.7	35.3	32.9	30.4	27.8	25.9	23.0
110								32.0	33.0	29.9	29.2	27.9	25.7	24.1	20.8
120									29.1	25.5	25.7	25.0	23.7	22.2	18.9
130										23.5	23.4	22.2	21.1	20.7	17.2
140										20.3	21.2	19.2	18.9	18.4	15.7
150											18.7	17.1	16.7	16.7	14.2
160												15.8	15.3	15.3	13.1
170												14.4	14.0	13.8	12.0
180													12.9	12.1	10.9
190														10.4	9.5
200															8.6
210															7.7

* Over rear / * Sobre la parte trasera


** With additional lifting equipment / ** Con equipo adicional

Lifting capacities / Capacidades de elevación

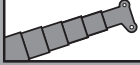
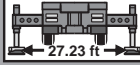

103,616 lbs

lbs x 1,000 SAE

 ft	43.3 ft*	43.3 ft	57.1 ft	70.9 ft	84.6 ft	98.4 ft	111.9 ft	125.7 ft	139.4 ft	153.2 ft	167.0 ft	180.4 ft	194.2 ft	208.0 ft	223.1 ft
10	394.6**	381.0**	308.6**	308.6**	251.3**										
12	362.9**	336.0**	308.6**	308.6**	247.5**	199.5									
14	319.5**	299.4**	296.9**	295.7**	233.3	199.5									
16	278.8**	269.2**	269.2**	266.9**	227.1	193.7	154.3								
18	248.6**	244.7**	244.7**	242.5**	225.5	184.1	154.3	120.2							
20	221.6	221.6	221.5	219.4	220.5	174.4	153.5	120.2	95.9						
25	174.7	174.7	173.8	172.0	173.3	167.3	139.1	120.2	95.9	76.1					
30	142.1	142.1	141.2	139.4	140.7	142.3	127.9	113.7	95.0	76.1	62.8	50.7			
35			118.4	116.5	117.8	119.3	120.1	103.1	88.3	75.5	62.8	50.7	41.4		
40			100.8	97.8	99.6	101.4	102.1	93.5	82.5	71.3	62.1	50.7	41.4	33.1	30.4
45			86.8	80.0	81.8	83.8	86.3	86.4	79.1	67.0	59.6	50.3	41.4	33.1	30.4
50				69.7	71.2	74.9	76.4	75.3	71.6	64.1	56.5	48.9	41.4	33.1	30.4
55				61.0	64.4	68.4	66.4	64.7	62.9	59.9	53.4	46.9	41.0	33.1	30.1
60				57.1	60.0	62.0	57.8	56.0	54.3	53.8	50.3	44.6	40.0	33.1	29.4
65					55.3	55.1	50.9	49.1	47.5	46.9	46.9	42.4	38.1	33.1	28.9
70					50.0	49.4	45.3	43.6	44.2	41.4	43.9	40.2	36.4	32.8	28.4
75						44.5	41.3	39.4	40.3	37.2	40.1	37.9	34.8	31.9	27.9
80						40.3	38.3	36.3	36.4	34.1	35.9	35.5	33.0	30.6	27.4
85						36.6	35.4	32.5	33.9	32.3	32.7	33.0	31.0	29.4	26.9
90							32.4	30.8	31.8	30.9	30.7	29.8	29.0	28.2	25.6
95							29.7	28.1	29.5	29.3	28.6	28.0	27.0	26.6	24.3
100							27.2	25.5	27.0	27.4	26.4	26.3	25.3	24.8	22.9
110								21.3	22.7	23.7	22.0	22.5	22.3	21.4	20.3
120									19.8	20.1	19.9	20.1	19.3	18.2	17.8
130										17.8	17.9	17.5	16.4	15.1	15.1
140										16.5	16.0	15.0	14.0	12.6	12.6
150											14.0	12.8	11.8	10.4	10.4
160												11.0	9.9	8.6	8.5
170												9.6	8.3	6.9	6.9
180													7.0	5.7	5.4
190														4.4	4.2
200															3.1
210															2.2


* Over rear / * Sobre la parte trasera

** With additional lifting equipment / ** Con equipo adicional

77,161 lbs

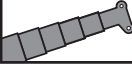
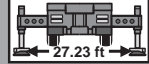

lbs x 1,000 SAE

 ft	43.3 ft*	43.3 ft	57.1 ft	70.9 ft	84.6 ft	98.4 ft	111.9 ft	125.7 ft	139.4 ft	153.2 ft	167.0 ft	180.4 ft	194.2 ft	208.0 ft	223.1 ft
10	394.0**	370.1**	308.6**	308.6**	251.3**										
12	352.8**	326.1**	307.3**	306.6**	247.5**	199.5									
14	303.0**	290.1**	289.5**	287.3**	233.3	199.5									
16	265.0**	260.3**	259.2**	257.0**	227.1	193.7	154.3								
18	235.8	234.2	233.2	231.1	219.4	184.1	154.3	120.2							
20	209.3	209.3	208.5	206.5	208.0	174.4	153.5	120.2	95.9						
25	164.1	164.1	163.3	161.4	162.7	158.0	139.1	120.2	95.9	76.1					
30	134.1	134.1	132.9	131.0	129.5	125.9	123.4	113.0	95.0	76.1	62.8	50.7			
35			110.8	107.9	107.1	102.6	101.2	95.9	88.3	75.5	62.8	50.7	41.4		
40			87.8	85.1	86.9	89.3	90.1	84.7	79.7	71.1	62.1	50.7	41.4	33.1	30.4
45			72.1	69.9	74.9	75.5	79.0	73.0	68.6	65.2	59.6	50.3	41.4	33.1	30.4
50				64.8	67.3	66.9	67.8	62.0	59.3	57.7	55.1	48.9	41.4	33.1	30.4
55				58.7	59.4	58.8	58.1	52.8	52.1	50.2	49.7	46.7	41.0	33.1	30.1
60				51.3	51.6	51.1	50.4	45.7	47.6	43.5	43.6	43.6	40.0	33.1	29.4
65					45.7	45.1	44.2	41.5	43.9	39.1	39.3	38.5	38.1	33.1	28.9
70					40.9	40.2	39.3	37.5	39.2	36.4	35.5	35.5	36.4	32.8	28.4
75						36.0	35.2	33.5	35.0	33.9	31.6	32.7	33.5	31.0	27.9
80						32.3	31.6	29.8	31.4	31.2	29.4	30.2	29.8	28.4	27.0
85						29.5	28.4	26.6	28.2	28.8	27.9	27.7	27.7	26.6	25.0
90							25.7	23.8	25.6	26.5	26.2	25.2	25.7	24.4	22.4
95							24.2	22.5	24.3	24.7	24.5	23.4	23.4	22.2	20.0
100							23.3	21.5	23.0	23.2	22.9	21.8	21.2	20.0	18.1
110								19.7	20.5	20.1	19.5	18.4	17.3	16.0	15.6
120									17.8	17.0	16.4	15.4	14.2	12.9	12.9
130										14.4	13.7	12.7	11.5	10.3	10.2
140										12.3	11.6	10.6	9.3	8.2	8.1
150											9.6	8.8	7.5	6.3	5.9
160												7.2	6.0	4.5	4.5
170												5.6	4.5	3.2	3.0
180													3.5		

* Over rear / * Sobre la parte trasera


** With additional lifting equipment / ** Con equipo adicional

Lifting capacities / Capacidades de elevación

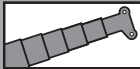
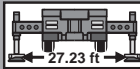

51,808 lbs

lbs x 1,000 **SAE**

 ft	43.3 ft*	43.3 ft	57.1 ft	70.9 ft	84.6 ft	98.4 ft	111.9 ft	125.7 ft	139.4 ft	153.2 ft	167.0 ft	180.4 ft	194.2 ft	208.0 ft	223.1 ft
10	392.2**	359.1**	308.6**	308.6**	251.3**										
12	334.8**	315.5**	303.8**	303.1**	247.5**	199.5									
14	287.1**	280.2**	279.7**	276.9**	233.3	199.5									
16	249.6**	248.8**	248.8**	246.3**	227.1	193.7	154.3								
18	221.6	221.6	221.3	218.6	205.7	179.6	154.3	120.2							
20	196.5	196.5	195.8	191.8	179.6	167.9	151.9	120.2	95.9						
25	156.0	156.0	149.2	136.5	130.2	125.4	119.1	111.1	95.9	76.1					
30	120.1	120.1	118.1	102.9	99.3	99.5	100.9	94.2	84.8	75.9	62.8	50.7			
35			89.0	83.8	88.9	87.3	82.8	77.3	72.2	69.0	62.8	50.7	41.4		
40			69.8	75.4	79.8	73.4	69.8	64.9	61.8	58.0	56.3	50.3	41.4	33.1	30.4
45			62.0	64.8	65.9	64.5	62.4	55.4	55.0	49.4	48.1	46.7	41.4	33.1	30.4
50				55.2	55.8	55.2	54.1	48.8	48.2	45.2	43.6	41.2	39.3	33.1	30.4
55				47.2	47.8	47.1	46.5	43.2	42.6	41.5	39.3	38.1	35.6	32.7	30.1
60				40.6	41.3	40.7	40.0	38.0	38.4	37.9	36.7	35.9	32.6	31.5	29.1
65					36.1	35.5	34.6	32.8	34.0	35.2	34.1	32.0	29.9	27.8	26.7
70					32.6	31.3	30.8	29.8	31.5	32.6	31.4	28.6	26.7	24.7	24.0
75						27.6	28.8	27.8	29.1	29.7	28.7	25.9	24.2	21.9	21.3
80						24.8	26.8	26.0	26.7	26.6	26.0	23.7	22.2	19.6	18.9
85						23.7	24.8	24.4	24.4	23.8	23.3	21.7	20.2	18.0	16.9
90							22.5	22.2	21.9	21.5	20.9	19.7	18.3	16.1	15.3
95							20.4	20.2	19.8	19.4	18.7	17.7	16.4	14.5	13.9
100							18.6	18.4	18.0	17.3	16.7	15.8	14.5	13.0	12.6
110								15.2	14.8	14.1	13.5	12.4	11.4	9.9	9.9
120									12.2	11.5	11.0	9.8	8.8	7.3	7.3
130										9.5	8.8	7.6	6.6	5.1	5.1
140										7.6	7.0	5.9	4.8	3.4	3.4
150											5.4	4.3	3.2		
160												3.0			


* Over rear / * Sobre la parte trasera

** With additional lifting equipment / ** Con equipo adicional

26,455 lbs

lbs x 1,000 SAE

 ft	43.3 ft*	43.3 ft	57.1 ft	70.9 ft	84.6 ft	98.4 ft	111.9 ft	125.7 ft	139.4 ft	153.2 ft	167.0 ft	180.4 ft	194.2 ft	208.0 ft	223.1 ft
10	377.4**	348.0**	308.6**	308.6**	251.3**										
12	316.7**	304.4**	303.3**	299.6**	247.5**	199.5									
14	271.1**	268.0**	267.5**	265.3**	233.3	199.5									
16	235.0	233.9	233.9	228.0	208.0	184.7	154.3								
18	208.1	207.5	205.4	192.1	177.7	159.4	143.4	120.2							
20	183.9	183.7	178.6	159.3	149.3	141.7	129.4	118.6	95.9						
25	133.4	133.4	126.4	112.2	107.1	107.8	104.5	93.7	87.4	76.1					
30	92.7	92.7	91.2	90.1	94.7	89.1	83.9	77.9	72.0	68.5	62.2	50.7			
35			72.9	76.9	78.3	72.4	68.3	63.1	62.7	55.1	53.3	50.3	41.4		
40			58.7	61.3	60.2	59.8	56.5	52.1	52.1	49.5	47.6	43.2	40.8	33.1	30.4
45			46.9	49.6	50.0	49.3	48.3	45.7	45.3	45.3	41.7	38.5	36.0	33.1	30.4
50				41.0	41.6	41.0	40.2	39.8	41.3	41.8	39.6	34.9	32.0	30.5	28.6
55				34.3	36.5	34.3	36.5	36.2	36.8	37.0	35.9	32.3	30.2	27.4	25.9
60				29.0	31.2	31.5	32.3	32.2	32.0	31.6	31.1	29.7	27.8	24.7	22.7
65					27.0	27.6	28.1	27.9	27.7	27.2	26.8	25.6	24.4	22.1	20.6
70					23.7	24.2	24.8	24.5	24.3	23.7	23.3	22.2	20.9	19.2	18.4
75						21.2	21.9	21.6	21.3	20.7	20.3	19.1	17.9	16.3	16.1
80						18.6	19.2	19.0	18.6	18.1	17.7	16.4	15.3	13.8	13.7
85						16.4	16.9	16.7	16.4	15.6	15.1	14.2	12.9	11.6	11.4
90							15.0	14.8	14.6	13.7	13.3	12.2	11.1	9.7	9.5
95							13.4	13.1	12.8	12.1	11.5	10.5	9.3	8.0	7.9
100							11.9	11.5	11.3	10.6	10.0	9.0	7.8	6.4	6.4
110								9.1	8.6	8.1	7.5	6.5	5.3	3.7	3.7
120									6.8	6.0	5.4	4.2	3.4		
130										4.4	3.6	2.6			
140										2.9					

* Over rear / * Sobre la parte trasera


** With additional lifting equipment / ** Con equipo adicional





0 lbs

lbs x 1,000 SAE

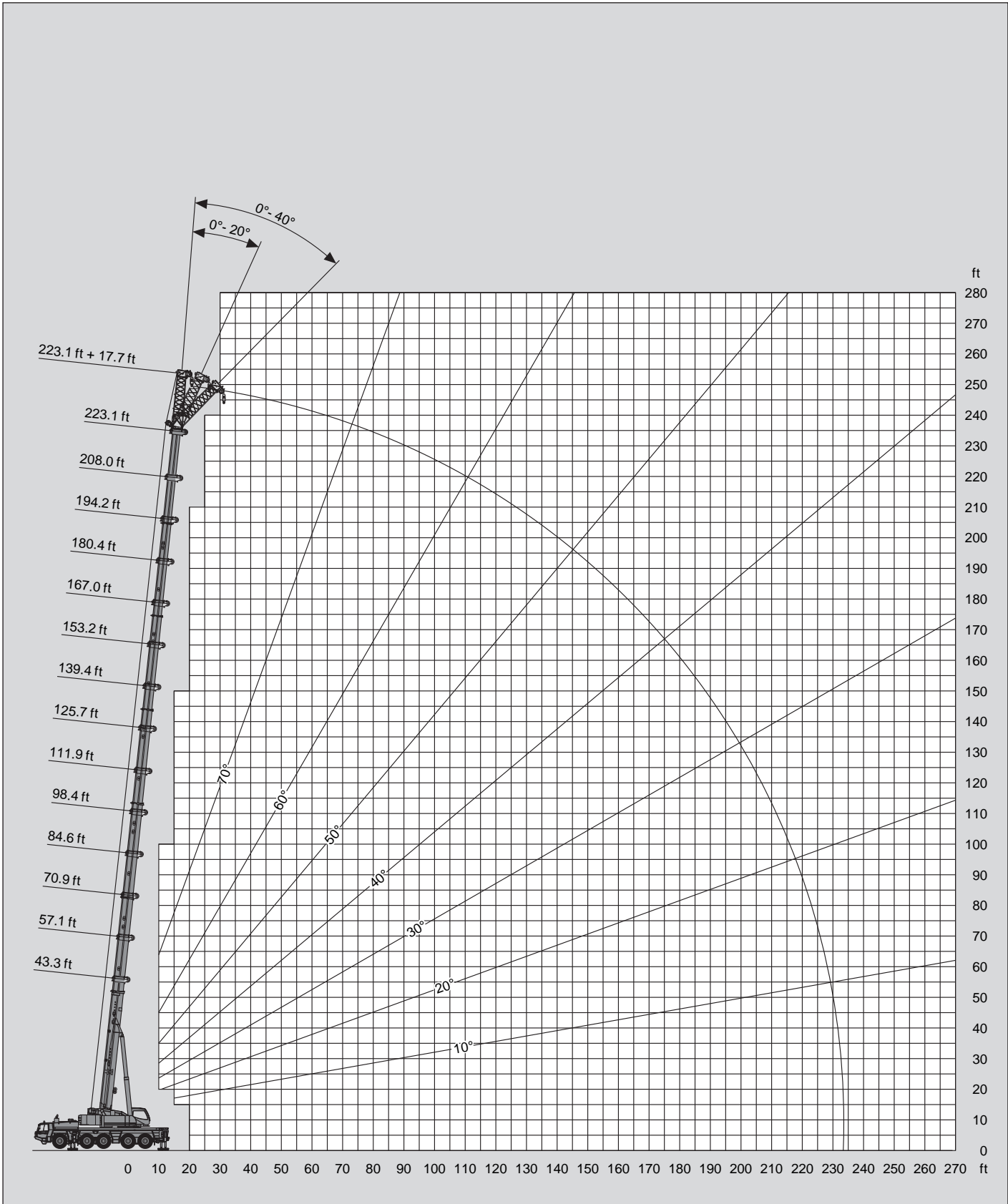
 ft	43.3 ft*	43.3 ft	57.1 ft	70.9 ft	84.6 ft	98.4 ft	111.9 ft	125.7 ft	139.4 ft	153.2 ft	167.0 ft	180.4 ft	194.2 ft	208.0 ft	223.1 ft
10	355.7**	334.9**	307.9**	307.7**	251.3**										
12	298.0**	292.0**	290.9**	281.7**	237.7	195.3									
14	253.0**	253.0**	247.8**	218.7**	195.2	169.4									
16	218.8	218.8	197.7	170.4	155.5	144.6	128.9								
18	183.0	183.0	161.4	140.7	130.3	122.6	115.2	105.1							
20	148.7	148.7	131.0	115.5	113.6	115.5	106.2	94.2	83.0						
25	101.5	101.5	91.4	93.2	90.0	83.7	77.3	69.8	65.8	58.8					
30	67.7	67.7	73.9	74.1	67.5	62.8	58.2	56.8	54.8	51.4	46.6	41.9			
35			53.5	57.0	55.8	51.4	50.8	49.2	46.9	43.9	40.5	37.1	33.1		
40			40.8	44.5	46.9	43.6	45.0	40.9	39.1	36.7	34.6	32.0	29.6		
45			32.1	35.4	38.0	38.3	38.1	36.2	34.8	32.7	29.0	26.8	24.5		
50				28.7	31.2	32.1	32.4	31.0	30.1	28.3	25.4	23.2	21.1		
55				23.4	25.8	26.6	27.4	26.2	25.9	24.3	22.4	20.3	18.4		
60				19.0	21.6	22.3	23.0	21.9	22.4	21.0	19.6	17.8	15.8		
65					18.1	18.9	19.6	18.5	19.3	18.0	16.9	15.1	13.1		
70					15.4	16.2	16.7	15.7	16.3	15.6	14.6	12.9	11.0		
75						13.8	14.3	13.4	13.8	13.3	12.5	10.9	9.1		
80						11.7	12.3	11.5	11.7	11.2	10.6	9.1	7.3		
85						10.0	10.5	9.8	10.0	9.4	8.9	7.6	5.8		
90							9.1	8.3	8.5	7.8	7.4	6.1			
95							7.9	7.0	7.2	6.4	6.0	4.8			
100							6.7	5.9	6.0	5.2	4.8	3.6			
110								4.0	4.0	3.2					

* Over rear / * Sobre la parte trasera


** With additional lifting equipment / ** Con equipo adicional

Lifting heights / Alturas de elevación

		 HYDRO	 27.23 ft	 360°	156,527 lbs	lbs x 1,000	SAE
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		 HYDRO	 27.23 ft	 360°	156,527 lbs	lbs x 1,000	SAE
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 ft	43.3 ft + 17.7 ft			111.9 ft + 17.7 ft			208.0 ft + 17.7 ft			223.1 ft + 17.7 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
10	104.2											
12	97.5	66.3										
14	91.6	63.8										
16	86.4	61.3										
18	81.9	59.2	48.1									
20	77.7	57.3	47.0	85.3								
25	69.2	53.2	44.8	85.3								
30	62.3	49.8	43.1	85.2	60.8	47.3						
35	56.7	47.0	41.7	81.7	58.5	46.3						
40	51.6	44.0	40.2	75.4	56.2	45.3						
45	46.6	41.3		69.8	54.4	44.5						
50	42.1			64.8	52.6	43.6	23.2			20.3		
55				60.4	51.1	42.9	22.3	20.7	19.9	20.0	19.1	
60				56.4	49.6	42.2	21.4	19.9	19.3	19.5	18.4	17.7
65				52.9	48.2	41.7	20.6	19.3	18.6	18.8	17.7	17.1
70				49.8	47.0	41.1	19.9	18.6	18.1	18.2	17.2	16.5
75				47.0	45.6	40.4	19.2	18.0	17.5	17.6	16.7	16.0
80				44.3	43.8	39.8	18.6	17.5	16.8	17.1	16.2	15.6
85				41.4	41.6	39.5	17.9	17.0	16.3	16.6	15.7	15.2
90				38.9	39.6	39.0	17.4	16.7	16.0	16.1	15.3	14.9
95				35.9	36.7	36.8	16.9	16.2	15.7	15.6	14.9	14.6
100				32.8	33.4	33.6	16.4	15.8	15.3	15.1	14.4	14.2
110				27.2	27.7		15.5	14.9	14.7	14.2	13.8	13.6
120				22.8			14.6	14.2	14.0	13.5	13.1	12.9
130							14.0	13.5	13.3	12.9	12.4	12.2
140							13.4	13.0	12.8	12.3	11.9	11.7
150							12.7	12.4	12.3	11.8	11.5	11.3
160							11.7	11.7	11.7	11.3	11.1	10.9
170							10.9	10.9	10.9	10.4	10.4	10.4
180							10.0	10.0		9.7	9.7	9.7
190							9.1	9.3		9.1	9.1	9.1
200							8.1	8.6		8.2	8.2	
210							7.1			7.1	7.1	
220										5.9		

Lifting capacities / Capacidades de elevación







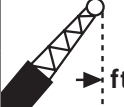




103,616 lbs

lbs x 1,000

SAE

 ft	43.3 ft + 17.7 ft			111.9 ft + 17.7 ft			208.0 ft + 17.7 ft			223.1 ft + 17.7 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
10	104.2											
12	97.5	66.3										
14	91.6	63.8										
16	86.4	61.3										
18	81.9	59.2	48.1									
20	77.7	57.3	47.0	85.3								
25	69.2	53.2	44.8	85.3								
30	62.3	49.8	43.1	85.2	60.8	47.3						
35	56.7	47.0	41.7	81.7	58.5	46.3						
40	51.6	44.0	40.2	75.4	56.2	45.3						
45	46.6	41.3		69.8	54.4	44.5						
50	42.1			64.8	52.6	43.6	23.2			20.3		
55				58.4	51.1	42.9	22.3	20.7	19.9	20.0	19.1	
60				50.8	49.1	42.2	21.4	19.9	19.3	19.5	18.4	17.7
65				44.0	45.2	41.7	20.6	19.3	18.6	18.8	17.7	17.1
70				38.5	39.9	39.5	19.9	18.6	18.1	18.2	17.2	16.5
75				33.8	35.7	36.6	19.2	18.0	17.5	17.6	16.7	16.0
80				29.8	32.6	33.5	18.6	17.5	16.8	17.1	16.2	15.6
85				26.2	29.7	30.6	17.9	17.0	16.3	16.6	15.7	15.2
90				24.1	26.4	27.1	17.4	16.7	16.0	16.1	15.3	14.9
95				22.2	23.4	23.9	16.9	16.2	15.7	15.6	14.9	14.6
100				20.2	20.9	20.9	16.4	15.8	15.3	15.1	14.4	14.2
110				15.8	16.2		15.5	14.9	14.7	14.2	13.8	13.6
120				12.4			14.6	14.2	14.0	13.5	13.1	12.9
130							13.6	13.5	13.3	12.9	12.4	12.2
140							11.2	11.5	11.8	11.2	11.6	11.5
150							9.1	9.4	9.8	9.3	10.1	10.1
160							7.3	7.6	7.8	7.5	8.1	8.2
170							5.6	6.3	6.3	5.8	6.3	6.5
180							4.4	4.8		4.6	4.9	5.0
190										3.5	3.6	3.5

		HYDRO	27.23 ft	360°	77,161 lbs	lbs x 1,000	SAE
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ft	43.3 ft + 17.7 ft			111.9 ft + 17.7 ft			208.0 ft + 17.7 ft			223.1 ft + 17.7 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
10	104.2											
12	97.5	66.3										
14	91.6	63.8										
16	86.4	61.3										
18	81.9	59.2	48.1									
20	77.7	57.3	47.0	85.3								
25	69.2	53.2	44.8	85.3								
30	62.3	49.8	43.1	85.2	60.8	47.3						
35	56.7	47.0	41.7	81.7	58.5	46.3						
40	51.6	44.0	40.2	74.9	56.2	45.3						
45	46.6	41.3		66.0	54.4	44.5						
50	42.1			56.3	52.6	43.6	23.2			20.3		
55				47.6	48.5	42.9	22.3	20.7	19.9	20.0	19.1	
60				40.3	42.1	41.5	21.4	19.9	19.3	19.5	18.4	17.7
65				34.5	36.2	37.1	20.6	19.3	18.6	18.8	17.7	17.1
70				29.8	31.4	32.2	19.9	18.6	18.1	18.2	17.2	16.5
75				25.8	27.1	28.4	19.2	18.0	17.5	17.6	16.7	16.0
80				22.4	23.4	25.5	18.6	17.5	16.8	17.1	16.2	15.6
85				19.4	20.3	22.4	17.9	17.0	16.3	16.6	15.7	15.2
90				16.8	18.3	19.7	17.4	16.7	16.0	16.1	15.3	14.9
95				14.8	16.4	17.2	16.9	16.2	15.7	15.6	14.9	14.6
100				13.2	14.4	14.6	16.4	15.8	15.3	15.1	14.4	14.2
110				10.2	10.5		14.5	14.9	14.7	14.2	13.8	13.6
120				7.1			11.6	12.3	12.9	11.8	12.5	12.6
130							8.9	9.6	9.9	9.3	10.0	10.3
140							6.7	7.3	7.7	7.3	7.8	8.0
150							4.9	5.4	5.8	5.4	5.8	6.0
160							3.4	3.8	3.9	3.8	3.9	4.2

		HYDRO	27.23 ft	360°	51,808 lbs	lbs x 1,000	SAE
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ft	43.3 ft + 17.7 ft			111.9 ft + 17.7 ft			208.0 ft + 17.7 ft			223.1 ft + 17.7 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
10	104.2											
12	97.5	66.3										
14	91.6	63.8										
16	86.4	61.3										
18	81.9	59.2	48.1									
20	77.7	57.3	47.0	85.3								
25	69.2	53.2	44.8	85.3								
30	62.3	49.8	43.1	84.7	60.8	47.3						
35	56.7	47.0	41.7	74.5	58.5	46.3						
40	51.6	44.0	40.2	62.0	56.1	45.3						
45	46.6	41.3		52.3	53.6	44.5						
50	42.1			45.7	48.3	43.6	23.2			20.3		
55				39.5	41.9	41.0	22.3	20.7	19.9	20.0	19.1	
60				33.1	35.1	36.4	21.4	19.9	19.3	19.5	18.4	17.7
65				27.6	29.4	30.5	20.6	19.3	18.6	18.8	17.7	17.1
70				23.2	24.7	25.8	19.9	18.6	18.1	18.2	17.2	16.5
75				19.4	20.6	21.7	19.2	18.0	17.5	17.6	16.7	16.0
80				16.0	17.2	18.2	18.6	17.5	16.8	17.1	16.2	15.6
85				13.2	14.5	15.0	17.9	17.0	16.3	16.6	15.7	15.2
90				11.0	12.0	12.4	15.8	16.3	16.0	15.7	15.3	14.9
95				8.9	9.7	10.1	13.7	14.8	14.9	14.2	14.4	14.6
100				7.0	7.7	7.9	11.8	12.9	13.3	12.2	13.0	13.7
110				4.1	4.5		8.6	9.5	9.9	9.0	9.8	10.4
120							6.1	6.6	7.1	6.4	7.1	7.6
130							4.0	4.4	4.9	4.2	4.9	5.4

Lifting heights / Alturas de elevación

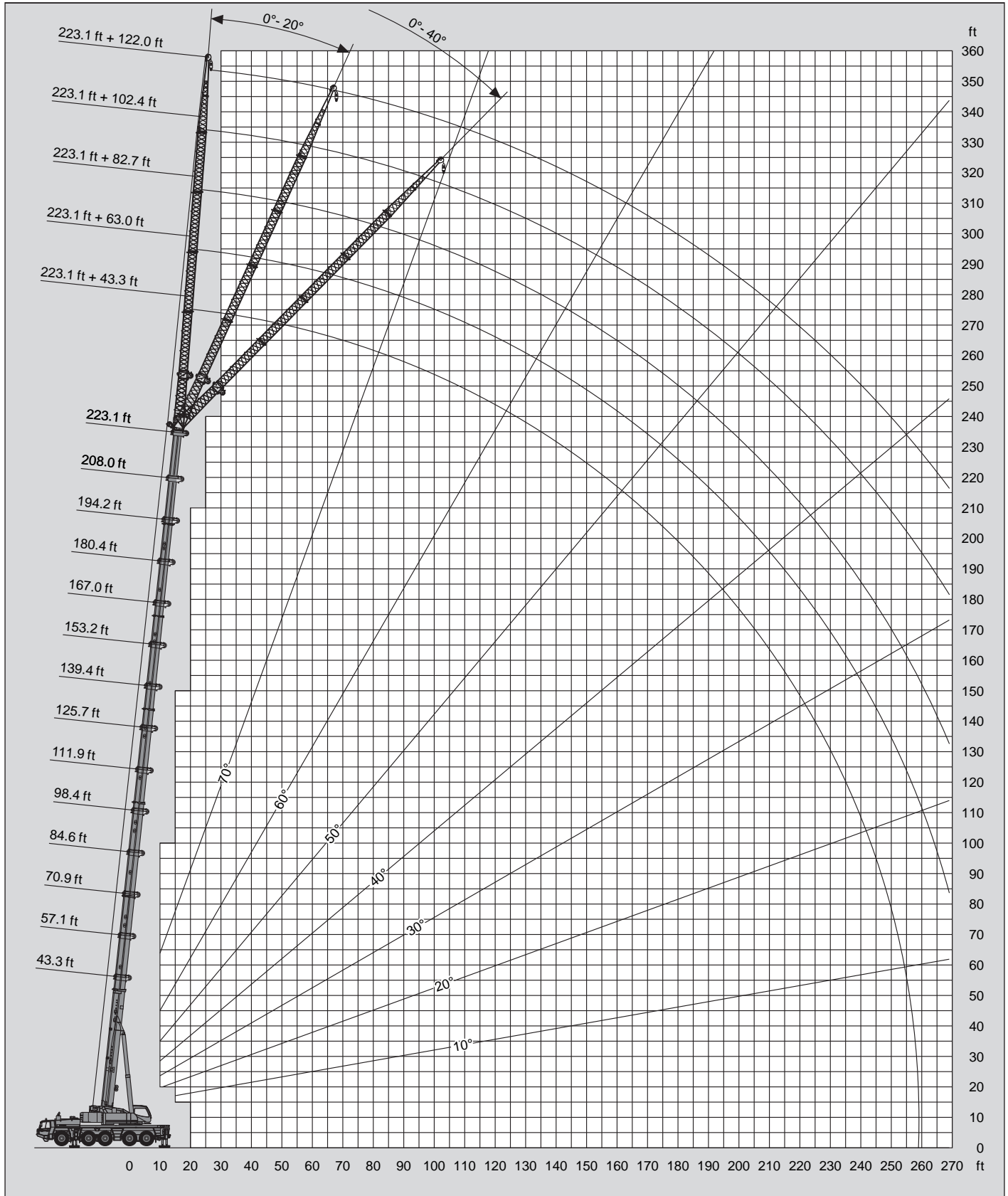


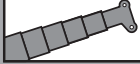
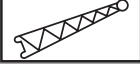
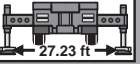


27.23 ft


156,527 lbs

lbs x 1,000

SAE



		 HYDRO	 27.23 ft	 360°	156,527lbs	lbs x 1,000	SAE
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 ft	208.0 ft + 43.3 ft			208.0 ft + 63.0 ft			208.0 ft + 82.7 ft			208.0 ft + 102.4 ft			208.0 + 122.0 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
45	15.0														
50	15.0			11.5											
55	15.0			11.5			8.8								
60	15.0			11.5			8.8			7.1					
65	15.0	14.8		11.5			8.8			7.1			5.5		
70	15.0	14.3		11.5			8.8			7.1			5.5		
75	15.0	13.9		11.5	11.4		8.8			7.1			5.5		
80	14.9	13.6	12.5	11.5	11.2		8.8			7.1			5.5		
85	14.8	13.2	12.1	11.5	10.8		8.8	8.8		7.1			5.5		
90	14.3	12.9	12.0	11.5	10.5		8.8	8.7		7.1			5.5		
95	13.9	12.6	11.7	11.5	10.2		8.8	8.5		7.1			5.5		
100	13.5	12.2	11.4	11.4	9.9	9.2	8.8	8.3		7.1	6.6		5.5		
110	12.7	11.6	10.9	10.7	9.5	8.7	8.8	7.8	7.1	7.1	6.4		5.5	4.6	
120	12.1	11.0	10.5	10.1	9.0	8.3	8.5	7.4	6.8	7.1	6.1		5.4	4.6	
130	11.5	10.4	10.0	9.6	8.6	8.0	8.2	7.1	6.6	6.9	5.8	5.3	5.3	4.4	
140	11.0	10.1	9.6	9.2	8.3	7.6	7.7	6.8	6.3	6.4	5.4	5.1	5.1	4.3	
150	10.5	9.7	9.3	8.8	8.0	7.4	7.3	6.4	6.1	6.1	5.2	4.9	5.0	4.1	
160	10.1	9.4	9.0	8.3	7.6	7.2	7.0	6.1	5.9	5.9	5.0	4.6	4.8	3.9	
170	9.7	9.1	8.8	8.0	7.3	7.1	6.6	6.0	5.5	5.5	4.9	4.4	4.6	3.8	
180	9.1	8.7	8.7	7.8	7.0	6.7	6.3	5.8	5.4	5.2	4.5	4.3	4.3	3.6	
190	8.5	8.4	8.3	7.5	6.7	6.5	6.1	5.5	5.2	5.0	4.3	4.1	4.1	3.4	
200	8.0	8.0	7.8	7.1	6.6	6.3	5.9	5.2	5.0	4.7	4.1	3.9	3.9	3.3	
210	7.5	7.5		6.6	6.4	6.2	5.7	5.1	4.8	4.4	4.0	3.7	3.7	3.1	
220	6.8	7.0		6.3	6.1	6.0	5.4	4.9	4.7	4.2	3.8	3.6	3.4	3.1	
230	6.0	6.3		5.8	5.7		5.1	4.7	4.5	4.1	3.6	3.4	3.2	3.0	
240				5.3	5.4		4.7	4.6	4.3	3.8	3.5	3.2	3.0	2.8	
250				4.8	5.0		4.4	4.4		3.5	3.3	3.1	2.9		
260							4.1	4.2		3.3	3.1	2.9			
270							3.5	3.7		3.1	3.0				
280							2.8	3.0		2.7	2.8				

Lifting capacities / Capacidades de elevación







156,527 lbs

lbs x 1,000

SAE

ft	223.1 ft + 43.3 ft			223.1 ft + 63.0 ft			223.1 ft + 82.7 ft			223.1 ft + 102.4 ft			223.1 + 122.0 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
50	13.0														
55	13.0			10.1											
60	13.0			10.1											
65	13.0	13.0		10.1			7.9			6.2					
70	13.0	13.0		10.1			7.9			6.2			5.1		
75	13.0	12.9		10.1			7.9			6.2			5.1		
80	13.0	12.7	11.8	10.1	10.1		7.9			6.2			5.1		
85	13.0	12.4	11.5	10.1	10.1		7.9			6.2			5.1		
90	13.0	12.0	11.1	10.1	9.8		7.9			6.2			5.1		
95	12.8	11.7	10.9	10.1	9.6		7.9	7.9		6.2			5.1		
100	12.5	11.4	10.7	10.1	9.4	8.5	7.9	7.8		6.2			5.1		
110	11.8	10.7	10.2	10.0	8.9	8.2	7.9	7.3		6.2	6.0		5.1		
120	11.3	10.2	9.8	9.4	8.5	7.9	7.9	7.0	6.6	6.2	5.7		5.1		
130	10.7	9.7	9.3	8.9	8.0	7.5	7.5	6.7	6.2	6.2	5.6		5.1		
140	10.1	9.4	9.0	8.5	7.6	7.2	7.2	6.3	5.9	6.0	5.2		4.9		
150	9.7	9.1	8.6	8.2	7.3	7.0	6.9	6.1	5.6	5.8	5.0	4.5	4.8		
160	9.4	8.7	8.3	7.9	7.0	6.7	6.5	5.9	5.5	5.4	4.8	4.4	4.5		
170	8.8	8.4	8.2	7.5	6.8	6.4	6.2	5.5	5.3	5.1	4.4	4.2	4.2		
180	8.5	8.1	7.8	7.2	6.5	6.2	5.9	5.4	5.1	4.8	4.3	4.1	4.0		
190	8.2	7.8	7.6	6.8	6.3	6.1	5.6	5.1	5.0	4.5	4.1	3.9	3.9		
200	7.7	7.6	7.4	6.6	6.1	5.9	5.5	4.8	4.8	4.4	3.9	3.7	3.6		
210	7.1	7.3	7.3	6.4	6.0	5.7	5.3	4.6	4.6	4.2	3.7	3.5	3.3		
220	6.5	6.8		6.1	5.8	5.6	5.1	4.6	4.5	4.0	3.6	3.4	3.1		
230	5.8	6.0		5.6	5.6	5.5	4.8	4.5	4.3	3.9	3.4	3.2	3.0		
240	5.0	5.2		5.1	5.3		4.5	4.3	4.1	3.7	3.2	3.0	2.8		
250	4.1	4.4		4.6	4.8		4.2	4.2	4.0	3.5	3.1	2.9			
260				3.9	4.1		3.8	4.0		3.2	2.9				
270								3.7							
280								3.4							

103,616 lbs

lbs x 1,000 **SAE**

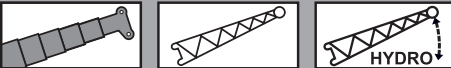
ft	208.0 ft + 43.3 ft			208.0 ft + 63.0 ft			208.0 ft + 82.7 ft			208.0 ft + 102.4 ft			208.0 + 122.0 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
45	15.0														
50	15.0			11.5											
55	15.0			11.5			8.8								
60	15.0			11.5			8.8			7.1					
65	15.0	14.8		11.5			8.8			7.1			5.5		
70	15.0	14.3		11.5			8.8			7.1			5.5		
75	15.0	13.9		11.5	11.4		8.8			7.1			5.5		
80	14.9	13.6	12.5	11.5	11.2		8.8			7.1			5.5		
85	14.8	13.2	12.1	11.5	10.8		8.8	8.8		7.1			5.5		
90	14.3	12.9	12.0	11.5	10.5		8.8	8.7		7.1			5.5		
95	13.9	12.6	11.7	11.5	10.2		8.8	8.5		7.1			5.5		
100	13.5	12.2	11.4	11.4	9.9	9.2	8.8	8.3		7.1	6.6		5.5		
110	12.7	11.6	10.9	10.7	9.5	8.7	8.8	7.8	7.1	7.1	6.4		5.5	4.6	
120	12.1	11.0	10.5	10.1	9.0	8.3	8.5	7.4	6.8	7.1	6.1		5.5	4.6	
130	11.5	10.4	10.0	9.6	8.6	8.0	8.2	7.1	6.6	7.1	5.8	5.3	5.4	4.4	
140	11.0	10.1	9.6	9.2	8.3	7.6	7.7	6.8	6.3	6.9	5.4	5.1	5.3	4.3	
150	10.2	9.7	9.3	8.8	8.0	7.4	7.3	6.4	6.1	6.4	5.2	4.9	5.1	4.1	
160	9.1	9.2	9.0	8.3	7.6	7.2	7.0	6.1	5.9	6.1	5.0	4.6	5.0	3.9	
170	7.4	8.2	8.8	7.7	7.3	7.1	6.6	6.0	5.5	5.9	4.9	4.4	4.8	3.8	
180	6.0	6.9	7.4	6.3	7.0	6.7	6.3	5.8	5.4	5.5	4.5	4.3	4.6	3.6	
190	4.8	5.6	6.0	5.1	6.1	6.4	5.5	5.5	5.2	5.2	4.3	4.1	4.3	3.4	
200	3.6	4.3	4.6	4.0	5.0	5.7	4.6	5.2	5.0	5.0	4.1	3.9	4.1	3.3	
210		3.1		2.9	4.0	4.4	3.7	4.8	4.8	4.6	4.0	3.7	3.9	3.1	
220					3.0	3.2	2.9	3.7	4.3	3.7	3.8	3.6	3.7	3.1	
230												3.4	3.7	3.0	

103,616 lbs

lbs x 1,000 **SAE**

ft	223.1 ft + 43.3 ft			223.1 ft + 63.0 ft			223.1 ft + 82.7 ft			223.1 ft + 102.4 ft			223.1 + 122.0 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
50	13.0														
55	13.0			10.1											
60	13.0			10.1											
65	13.0	13.0		10.1			7.9			6.2					
70	13.0	13.0		10.1			7.9			6.2			5.1		
75	13.0	12.9		10.1			7.9			6.2			5.1		
80	13.0	12.7	11.8	10.1	10.1		7.9			6.2			5.1		
85	13.0	12.4	11.5	10.1	10.1		7.9			6.2			5.1		
90	13.0	12.0	11.1	10.1	9.8		7.9			6.2			5.1		
95	12.8	11.7	10.9	10.1	9.6		7.9	7.9		6.2			5.1		
100	12.5	11.4	10.7	10.1	9.4	8.5	7.9	7.8		6.2			5.1		
110	11.8	10.7	10.2	10.0	8.9	8.2	7.9	7.3		6.2	6.0		5.1		
120	11.3	10.2	9.8	9.4	8.5	7.9	7.9	7.0	6.6	6.2	5.7		5.1		
130	10.7	9.7	9.3	8.9	8.0	7.5	7.5	6.7	6.2	6.2	5.6		5.1		
140	10.1	9.4	9.0	8.5	7.6	7.2	7.2	6.3	5.9	6.0	5.2		4.9		
150	9.6	9.1	8.6	8.2	7.3	7.0	6.9	6.1	5.6	5.8	5.0	4.5	4.8		
160	8.8	8.6	8.3	7.9	7.0	6.7	6.5	5.9	5.5	5.4	4.8	4.4	4.5		
170	7.2	8.0	8.2	7.5	6.8	6.4	6.2	5.5	5.3	5.1	4.4	4.2	4.2		
180	5.8	6.7	7.2	6.5	6.5	6.2	5.9	5.4	5.1	4.8	4.3	4.1	4.0		
190	4.6	5.3	5.9	5.3	6.0	6.1	5.2	5.1	5.0	4.5	4.1	3.9	3.9		
200	3.4	4.0	4.5	4.0	5.1	5.6	4.3	4.8	4.8	4.1	3.9	3.7	3.6		
210		2.9	3.3	2.9	4.0	4.6	3.3	4.6	4.6	3.3	3.7	3.5	3.3		
220						3.5		3.6	4.3		3.6	3.4			
230												3.2			

Lifting capacities / Capacidades de elevación




77,161 lbs lbs x 1,000 **SAE**

ft	208.0 ft + 43.3 ft			208.0 ft + 63.0 ft			208.0 ft + 82.7 ft			208.0 ft + 102.4 ft			208.0 + 122.0 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
45	15.0														
50	15.0			11.5											
55	15.0			11.5			8.8								
60	15.0			11.5			8.8			7.1					
65	15.0	14.8		11.5			8.8			7.1			5.5		
70	15.0	14.3		11.5			8.8			7.1			5.5		
75	15.0	13.9		11.5	11.4		8.8			7.1			5.5		
80	14.9	13.6	12.5	11.5	11.2		8.8			7.1			5.5		
85	14.8	13.2	12.1	11.5	10.8		8.8	8.8		7.1			5.5		
90	14.3	12.9	12.0	11.5	10.5		8.8	8.7		7.1			5.5		
95	13.9	12.6	11.7	11.5	10.2		8.8	8.5		7.1			5.5		
100	13.5	12.2	11.4	11.4	9.9	9.2	8.8	8.3		7.1	6.6		5.5		
110	12.7	11.6	10.9	10.7	9.5	8.7	8.8	7.8	7.1	7.1	6.4		5.5	4.6	
120	12.1	11.0	10.5	10.1	9.0	8.3	8.5	7.4	6.8	7.1	6.1		5.4	4.6	
130	10.8	10.4	10.0	9.6	8.6	8.0	8.2	7.1	6.6	6.9	5.8	5.3	5.3	4.4	
140	8.7	9.6	9.6	8.6	8.3	7.6	7.7	6.8	6.3	6.4	5.4	5.1	5.1	4.3	
150	6.8	8.2	8.6	7.3	8.0	7.4	7.2	6.4	6.1	6.1	5.2	4.9	5.0	4.1	
160	5.2	6.4	7.1	5.8	7.3	7.2	6.5	6.1	5.9	5.7	5.0	4.6	4.8	3.9	
170	3.8	4.7	5.4	4.3	5.6	6.9	4.9	6.0	5.5	4.9	4.9	4.4	4.6	3.8	
180		3.4	3.9	2.8	4.4	5.3	3.6	5.2	5.4	3.7	4.5	4.3	3.7	3.6	
190					3.2	3.8		4.1	4.9	2.6	4.2	4.1	2.7	3.4	
200								2.9	4.0			3.9		3.2	
210									2.9			3.7		2.9	




77,161lbs lbs x 1,000 **SAE**

ft	223.1 ft + 43.3 ft			223.1 ft + 63.0 ft			223.1 ft + 82.7 ft			223.1 ft + 102.4 ft			223.1 + 122.0 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
50	13.0														
55	13.0			10.1											
60	13.0			10.1											
65	13.0	13.0		10.1			7.9			6.2					
70	13.0	13.0		10.1			7.9			6.2			5.1		
75	13.0	12.9		10.1			7.9			6.2			5.1		
80	13.0	12.7	11.8	10.1	10.1		7.9			6.2			5.1		
85	13.0	12.4	11.5	10.1	10.1		7.9			6.2			5.1		
90	13.0	12.0	11.1	10.1	9.8		7.9			6.2			5.1		
95	12.8	11.7	10.9	10.1	9.6		7.9	7.9		6.2			5.1		
100	12.5	11.4	10.7	10.1	9.4	8.5	7.9	7.8		6.2			5.1		
110	11.8	10.7	10.2	10.0	8.9	8.2	7.9	7.3		6.2	6.0		5.1		
120	11.3	10.2	9.8	9.4	8.5	7.9	7.9	7.0	6.6	6.2	5.7		5.1		
130	10.5	9.7	9.3	8.9	8.0	7.5	7.5	6.7	6.2	6.2	5.6		5.1		
140	8.4	9.3	9.0	8.5	7.6	7.2	7.2	6.3	5.9	6.0	5.2		4.9		
150	6.5	8.0	8.2	7.4	7.3	7.0	6.8	6.1	5.6	5.8	5.0	4.5	4.8		
160	4.9	6.2	7.1	5.8	6.8	6.7	6.0	5.9	5.5	5.3	4.8	4.4	4.5		
170	3.4	4.7	5.4	4.3	5.8	6.4	4.5	5.5	5.3	4.7	4.4	4.2	4.2		
180		3.4	3.9		4.5	5.3	3.3	4.9	5.1	3.4	4.3	4.1	3.4		
190					3.1	4.0		3.9	4.8		4.0	3.9	2.6		
200						2.7		2.7	4.0			3.7			
210									2.9			3.5			

					51,808 lbs	lbs x 1,000	SAE
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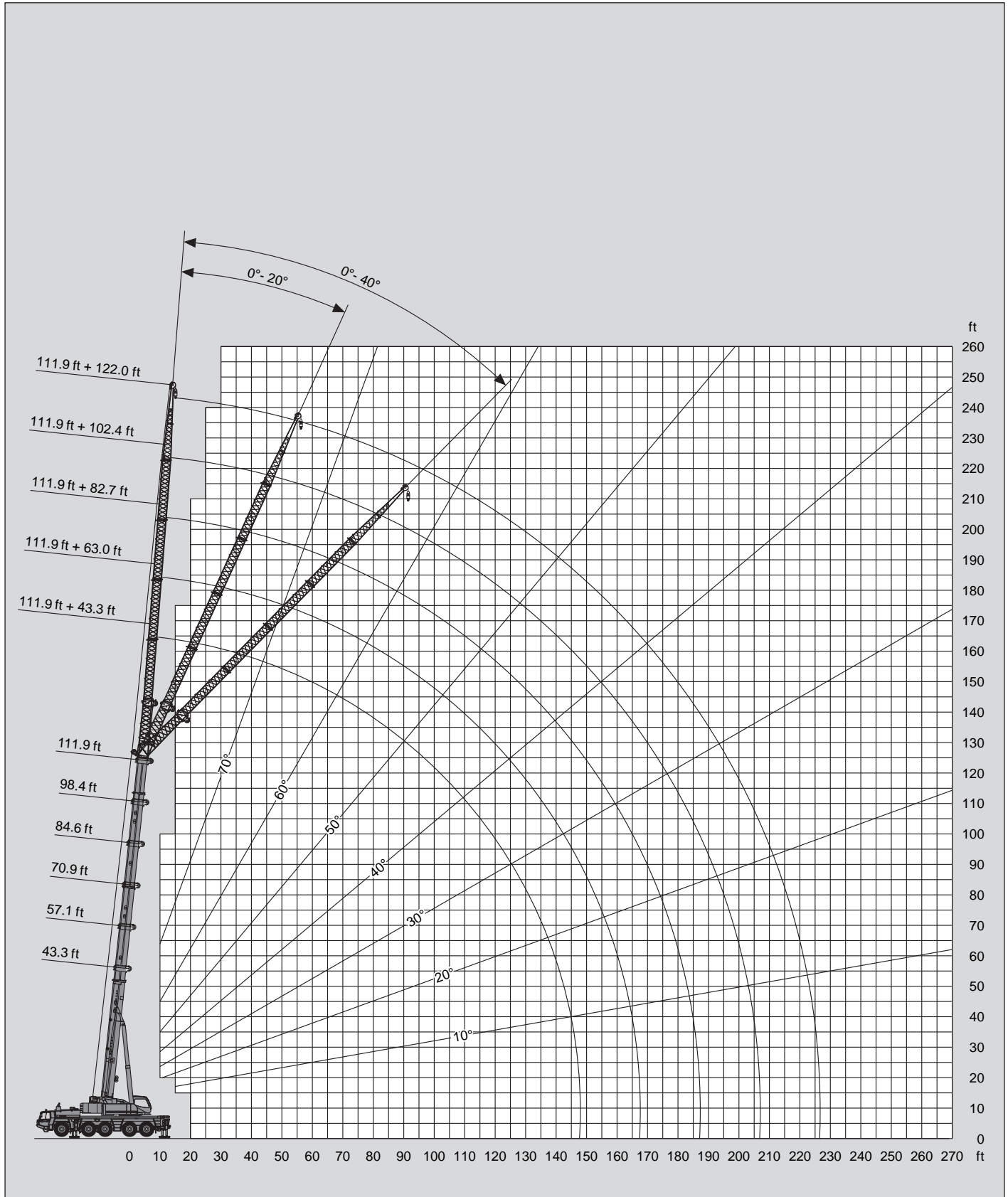
ft	208.0 ft + 43.3 ft			208.0 ft + 63.0 ft			208.0 ft + 82.7 ft			208.0 ft + 102.4 ft			208.0 + 122.0 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
45	15.0														
50	15.0			11.5											
55	15.0			11.5			8.8								
60	15.0			11.5			8.8			7.1					
65	15.0	14.8		11.5			8.8			7.1			5.5		
70	15.0	14.3		11.5			8.8			7.1			5.5		
75	15.0	13.9		11.5	11.4		8.8			7.1			5.5		
80	14.9	13.6	12.5	11.5	11.2		8.8			7.1			5.5		
85	14.8	13.2	12.1	11.5	10.8		8.8	8.8		7.1			5.5		
90	14.3	12.9	12.0	11.5	10.5		8.8	8.7		7.1			5.5		
95	13.9	12.6	11.7	11.5	10.2		8.8	8.5		7.1			5.5		
100	13.3	12.2	11.4	11.4	9.9	9.2	8.8	8.3		7.1	6.6		5.5		
110	10.6	11.6	10.9	10.7	9.5	8.7	8.8	7.8	7.1	7.1	6.4		5.5		
120	8.2	9.9	10.4	8.6	9.0	8.3	8.5	7.4	6.8	7.1	6.1		5.4		
130	5.8	7.6	8.8	6.4	8.3	8.0	7.1	7.1	6.6	6.9	5.8		5.3		
140	4.0	5.5	6.7	4.7	6.5	7.5	5.4	6.8	6.3	5.4	5.4		5.0		
150		3.5	4.7	3.0	4.9	6.2		5.9	6.1	3.8	5.2		4.0		
160			2.8		3.4	4.5		4.5	5.7		4.8				
170						3.0		3.2	4.7		3.8				
180									3.4						

					51,808 lbs	lbs x 1,000	SAE
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ft	223.1 ft + 43.3 ft			223.1 ft + 63.0 ft			223.1 ft + 82.7 ft			223.1 ft + 102.4 ft			223.1 + 122.0 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
50	13.0														
55	13.0			10.1											
60	13.0			10.1											
65	13.0	13.0		10.1			7.9			6.2					
70	13.0	13.0		10.1			7.9			6.2			5.1		
75	13.0	12.9		10.1			7.9			6.2			5.1		
80	13.0	12.7	11.8	10.1	10.1		7.9			6.2			5.1		
85	13.0	12.4	11.5	10.1	10.1		7.9			6.2			5.1		
90	13.0	12.0	11.1	10.1	9.8		7.9			6.2			5.1		
95	12.8	11.7	10.9	10.1	9.6		7.9	7.9		6.2			5.1		
100	12.4	11.4	10.7	10.1	9.4	8.5	7.9	7.8		6.2			5.1		
110	10.4	10.7	10.2	10.0	8.9	8.2	7.9	7.3		6.2			5.1		
120	7.8	9.7	9.8	8.8	8.5	7.9	7.9	7.0	6.6	6.2			5.1		
130	5.6	7.3	8.4	6.6	8.0	7.5	6.8	6.7	6.2	6.2			5.1		
140	3.8	5.4	6.4	4.8	6.8	7.2	5.0	6.3	5.9	5.0			4.8		
150		3.6	4.6	2.9	5.2	6.2	3.1	5.5	5.6	3.7			4.4		
160			2.9		3.5	4.7		4.3	5.3						
170						3.2		2.9	4.5						

Lifting heights / Alturas de elevación

		 HYDRO	 27.23 ft	 360°	156,527 lbs	lbs x 1,000	SAE
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		HYDRO	27.23 ft	360°	156,527 lbs	lbs x 1,000	SAE
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ft	43.3 ft + 43.3 ft			43.3 ft + 63.0 ft			43.3 ft + 82.7 ft			43.3 ft + 102.4 ft			43.3 + 122.0 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
10	39.7														
12	39.7			35.1											
14	39.0			34.3			22.9								
16	37.2			33.3			22.9								
18	35.4			32.3			22.9			14.1					
20	33.7			31.4			22.9			14.1			10.1		
25	30.4	24.5		29.2			22.9			14.1			10.1		
30	27.6	22.5		27.1			21.9			14.1			10.1		
35	25.2	21.0		24.9			20.2			14.1			10.1		
40	23.2	19.7	17.3	22.9	18.8		18.8			14.1			10.1		
45	21.5	18.5	16.5	21.3	17.6		17.4			13.9			10.1		
50	20.1	17.6	15.9	19.9	16.3		16.2			13.2			10.0		
55	18.8	16.8	15.4	18.4	15.1	12.7	15.1	12.9		12.4			9.7		
60	17.7	16.0	15.0	16.9	14.1	12.0	14.2	12.2		11.8			9.2		
65	16.7	15.3	14.8	15.6	13.1	11.5	13.3	11.1		11.1			8.9		
70	15.9	14.9		14.4	12.4	11.0	12.5	10.4		10.4			8.4		
75	15.3	14.6		13.3	11.7	10.5	11.6	9.8		9.9	8.3		8.0		
80				12.4	11.1	10.1	10.6	9.1		9.3	7.8		7.6	6.7	
85				11.5	10.4	9.7	10.0	8.6	7.7	8.4	7.3		7.3	6.4	
90				10.7	10.0		9.3	8.1	7.4	7.9	6.8		7.0	5.9	
95							8.6	7.7	7.1	7.4	6.4		6.5	5.5	
100							8.0	7.4	6.8	6.9	6.1		6.0	5.2	
110							7.2	6.7	6.4	6.1	5.4	5.0	5.2	4.7	
120										5.4	5.0	4.6	4.6	4.1	3.7
130										4.7	4.5	4.2	4.1	3.8	3.3
140													3.5	3.5	3.2
150													3.1	3.1	3.0

		HYDRO	27.23 ft	360°	156,527 lbs	lbs x 1,000	SAE
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ft	111.9 ft + 43.3 ft			111.9 ft + 63.0 ft			111.9 ft + 82.7 ft			111.9 ft + 102.4 ft			111.9 + 122.0 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
20	39.3														
25	36.8			28.9											
30	34.6			28.8			19.6			12.6					
35	32.4			28.0			19.6			12.6			9.0		
40	30.7	22.4		27.0			19.6			12.6			9.0		
45	29.0	21.4		25.8			19.4			12.6			9.0		
50	27.4	20.5		24.6			18.9			12.6			9.0		
55	26.1	19.7	16.5	23.5	17.7		18.1			12.6			9.0		
60	24.9	19.1	16.0	22.5	17.1		17.3			12.6			9.0		
65	23.7	18.4	15.7	21.5	16.4	12.8	16.6	12.6		12.6			9.0		
70	22.7	17.9	15.4	20.5	15.9	12.5	15.9	12.1		12.1			9.0		
75	21.8	17.4	15.1	19.7	15.4	12.2	15.3	11.7		11.7			8.8		
80	21.0	16.9	14.9	19.0	14.9	11.8	14.6	11.4		11.4	9.0		8.6		
85	20.1	16.6	14.6	18.1	14.4	11.5	13.9	11.0		11.0	8.6		8.4		
90	19.4	16.1	14.4	17.4	13.9	11.1	13.4	10.7		10.5	8.3		8.1		
95	18.8	15.7	14.2	16.9	13.4	10.9	12.9	10.4	8.3	10.2	8.1		7.7		
100	18.1	15.3	14.1	16.3	12.8	10.7	12.5	10.0	8.1	9.8	7.8		7.4	6.1	
110	16.9	14.8	13.9	15.1	12.0	10.2	11.6	9.4	7.5	9.1	7.3	5.8	7.1	5.8	
120	16.1	14.3	13.9	13.9	11.3	9.9	10.9	8.7	7.2	8.5	6.7	5.4	6.6	5.4	
130	15.3	13.9		12.7	10.6	9.5	10.0	8.0	6.9	8.0	6.2	5.1	6.2	4.9	4.0
140	14.9			11.7	10.1		9.2	7.6	6.7	7.3	5.9	4.9	5.9	4.6	3.7
150				10.8	9.7		8.4	7.2	6.5	6.7	5.5	4.8	5.4	4.2	3.4
160				9.9	9.4		7.8	6.7	6.4	6.0	5.2	4.6	4.9	3.9	3.3
170							7.1	6.4		5.5	4.9	4.4	4.4	3.8	3.1
180							6.6			5.2	4.5		4.1	3.4	3.1
190										4.8	4.3		3.8	3.2	3.0
200										4.3	4.1		3.5	3.0	2.8
210													3.3	2.9	
220													3.0		

Lifting capacities / Capacidades de elevación

103,616 lbs

lbs x 1,000 **SAE**

ft	43.3 ft + 43.3 ft			43.3 ft + 63.0 ft			43.3 ft + 82.7 ft			43.3 ft + 102.4 ft			43.3 + 122.0 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
10	39.7														
12	39.7			35.1											
14	39.0			34.3			22.9								
16	37.2			33.3			22.9								
18	35.4			32.3			22.9			14.1					
20	33.7			31.4			22.9			14.1			10.1		
25	30.4	24.5		29.2			22.9			14.1			10.1		
30	27.6	22.5		27.1			21.9			14.1			10.1		
35	25.2	21.0		24.9			20.2			14.1			10.1		
40	23.2	19.7	17.3	22.9	18.8		18.8			14.1			10.1		
45	21.5	18.5	16.5	21.3	17.6		17.4			13.9			10.1		
50	20.1	17.6	15.9	19.9	16.3		16.2			13.2			10.0		
55	18.8	16.8	15.4	18.4	15.1	12.7	15.1	12.9		12.4			9.7		
60	17.7	16.0	15.0	16.9	14.1	12.0	14.2	12.2		11.8			9.2		
65	16.7	15.3	14.8	15.6	13.1	11.5	13.3	11.1		11.1			8.9		
70	15.9	14.9		14.4	12.4	11.0	12.5	10.4		10.4			8.4		
75	15.3	14.6		13.3	11.7	10.5	11.6	9.8		9.9	8.3		8.0		
80				12.4	11.1	10.1	10.6	9.1		9.3	7.8		7.6	6.7	
85				11.5	10.4	9.7	10.0	8.6	7.7	8.4	7.3		7.3	6.4	
90				10.7	10.0		9.3	8.1	7.4	7.9	6.8		7.0	5.9	
95							8.6	7.7	7.1	7.4	6.4		6.5	5.5	
100							8.0	7.4	6.8	6.9	6.1		6.0	5.2	
110							7.2	6.7	6.4	6.1	5.4	5.0	5.2	4.7	
120										5.4	5.0	4.6	4.6	4.1	3.7
130										4.7	4.5	4.2	4.1	3.8	3.3
140													3.5	3.5	3.2
150													3.1	3.1	3.0

103,616 lbs

lbs x 1,000 **SAE**

ft	111.9 ft + 43.3 ft			111.9 ft + 63.0 ft			111.9 ft + 82.7 ft			111.9 ft + 102.4 ft			111.9 + 122.0 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
20	39.3														
25	36.8			28.9											
30	34.6			28.8			19.6			12.6					
35	32.4			28.0			19.6			12.6			9.0		
40	30.7	22.4		27.0			19.6			12.6			9.0		
45	29.0	21.4		25.8			19.4			12.6			9.0		
50	27.4	20.5		24.6			18.9			12.6			9.0		
55	26.1	19.7	16.5	23.5	17.7		18.1			12.6			9.0		
60	24.9	19.1	16.0	22.5	17.1		17.3			12.6			9.0		
65	23.7	18.4	15.7	21.5	16.4	12.8	16.6	12.6		12.6			9.0		
70	22.7	17.9	15.4	20.5	15.9	12.5	15.9	12.1		12.1			9.0		
75	21.8	17.4	15.1	19.7	15.4	12.2	15.3	11.7		11.7			8.8		
80	21.0	16.9	14.9	19.0	14.9	11.8	14.6	11.4		11.4	9.0		8.6		
85	20.1	16.6	14.6	18.1	14.4	11.5	13.9	11.0		11.0	8.6		8.4		
90	19.4	16.1	14.4	17.4	13.9	11.1	13.4	10.7		10.5	8.3		8.1		
95	18.8	15.7	14.2	16.9	13.4	10.9	12.9	10.4	8.3	10.2	8.1		7.7		
100	18.1	15.3	14.1	16.3	12.8	10.7	12.5	10.0	8.1	9.8	7.8	5.8	7.4	6.1	
110	16.9	14.8	13.9	15.1	12.0	10.2	11.6	9.4	7.5	9.1	7.3	5.4	7.1	5.8	
120	15.7	14.3	13.9	13.9	11.3	9.9	10.9	8.7	7.2	8.5	6.7	5.1	6.6	5.4	
130	12.9	13.8		12.7	10.6	9.5	10.0	8.0	6.9	8.0	6.2	4.9	6.2	4.9	4.0
140	10.5			11.5	10.1		9.2	7.6	6.7	7.3	5.9	4.8	5.9	4.6	3.7
150				10.0	9.6		8.4	7.2	6.5	6.7	5.5	4.6	5.4	4.2	3.4
160				8.1	9.1		7.8	6.7	6.4	6.0	5.2	4.4	4.9	3.9	3.3
170							7.1	6.4		5.5	4.9		4.4	3.8	3.1
180							5.9			5.2	4.5		4.1	3.4	3.1
190										4.8	4.3		3.8	3.2	3.0
200										4.3	4.1		3.5	3.0	2.8
210													3.3	2.9	
220													3.0		

77,161 lbs

lbs x 1,000 SAE

	43.3 ft + 43.3 ft			43.3 ft + 63.0 ft			43.3 ft + 82.7 ft			43.3 ft + 102.4 ft			43.3 + 122.0 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
10	39.7														
12	39.7			35.1											
14	39.0			34.3			22.9								
16	37.2			33.3			22.9								
18	35.4			32.3			22.9			14.1					
20	33.7			31.4			22.9			14.1			10.1		
25	30.4	24.5		29.2			22.9			14.1			10.1		
30	27.6	22.5		27.1			21.9			14.1			10.1		
35	25.2	21.0		24.9			20.2			14.1			10.1		
40	23.2	19.7	17.3	22.9	18.8		18.8			14.1			10.1		
45	21.5	18.5	16.5	21.3	17.6		17.4			13.9			10.1		
50	20.1	17.6	15.9	19.9	16.3		16.2			13.2			10.0		
55	18.8	16.8	15.4	18.4	15.1	12.7	15.1	12.9		12.4			9.7		
60	17.7	16.0	15.0	16.9	14.1	12.0	14.2	12.2		11.8			9.2		
65	16.7	15.3	14.8	15.6	13.1	11.5	13.3	11.1		11.1			8.9		
70	15.9	14.9		14.4	12.4	11.0	12.5	10.4		10.4			8.4		
75	15.3	14.6		13.3	11.7	10.5	11.6	9.8		9.9	8.3		8.0		
80				12.4	11.1	10.1	10.6	9.1		9.3	7.8		7.6	6.7	
85				11.5	10.4	9.7	10.0	8.6	7.7	8.4	7.3		7.3	6.4	
90				10.7	10.0		9.3	8.1	7.4	7.9	6.8		7.0	5.9	
95							8.6	7.7	7.1	7.4	6.4		6.5	5.5	
100							8.0	7.4	6.8	6.9	6.1		6.0	5.2	
110							7.2	6.7	6.4	6.1	5.4	5.0	5.2	4.7	
120										5.4	5.0	4.6	4.6	4.1	3.7
130										4.7	4.5	4.2	4.1	3.8	3.3
140													3.5	3.5	3.2
150													3.1	3.1	3.0

77,161 lbs

lbs x 1,000 SAE

	111.9 ft + 43.3 ft			111.9 ft + 63.0 ft			111.9 ft + 82.7 ft			111.9 ft + 102.4 ft			111.9 + 122.0 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
20	39.3														
25	36.8			28.9											
30	34.6			28.8			19.6			12.6					
35	32.4			28.0			19.6			12.6			9.0		
40	30.7	22.4		27.0			19.6			12.6			9.0		
45	29.0	21.4		25.8			19.4			12.6			9.0		
50	27.4	20.5		24.6			18.9			12.6			9.0		
55	26.1	19.7	16.5	23.5	17.7		18.1			12.6			9.0		
60	24.9	19.1	16.0	22.5	17.1		17.3			12.6			9.0		
65	23.7	18.4	15.7	21.5	16.4	12.8	16.6	12.6		12.6			9.0		
70	22.7	17.9	15.4	20.5	15.9	12.5	15.9	12.1		12.1			9.0		
75	21.8	17.4	15.1	19.7	15.4	12.2	15.3	11.7		11.7			8.8		
80	21.0	16.9	14.9	19.0	14.9	11.8	14.6	11.4		11.4	9.0		8.6		
85	20.1	16.6	14.6	18.1	14.4	11.5	13.9	11.0		11.0	8.6		8.4		
90	19.4	16.1	14.4	17.4	13.9	11.1	13.4	10.7		10.5	8.3		8.1		
95	18.8	15.7	14.2	16.9	13.4	10.9	12.9	10.4	8.3	10.2	8.1		7.7		
100	17.6	15.3	14.1	16.3	12.8	10.7	12.5	10.0	8.1	9.8	7.8		7.4	6.1	
110	13.6	14.8	13.9	15.0	12.0	10.2	11.6	9.4	7.5	9.1	7.3	5.8	7.1	5.8	
120	10.7	12.0	13.3	12.1	11.3	9.9	10.9	8.7	7.2	8.5	6.7	5.4	6.6	5.4	
130	8.0	9.1		9.6	10.6	9.5	10.0	8.0	6.9	8.0	6.2	5.1	6.2	4.9	4.0
140	5.9			7.5	8.8		8.6	7.6	6.7	7.3	5.9	4.9	5.9	4.6	3.7
150				5.7	6.8		7.0	7.2	6.5	6.7	5.5	4.8	5.4	4.2	3.4
160				4.0	4.8		5.4	6.5	6.4	5.9	5.2	4.6	4.9	3.9	3.3
170							4.0	4.9		4.7	4.9	4.4	4.4	3.8	3.1
180										3.4	4.5		3.9	3.4	3.1
190											4.2			3.2	3.0
200											3.9			3.0	2.8

Lifting capacities / Capacidades de elevación







51,808 lbs

lbs x 1,000 SAE

ft	43.3 ft + 43.3 ft			43.3 ft + 63.0 ft			43.3 ft + 82.7 ft			43.3 ft + 102.4 ft			43.3 + 122.0 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
10	39.7														
12	39.7			35.1											
14	39.0			34.3			22.9								
16	37.2			33.3			22.9								
18	35.4			32.3			22.9			14.1					
20	33.7			31.4			22.9			14.1			10.1		
25	30.4	24.5		29.2			22.9			14.1			10.1		
30	27.6	22.5		27.1			21.9			14.1			10.1		
35	25.2	21.0		24.9			20.2			14.1			10.1		
40	23.2	19.7	17.3	22.9	18.8		18.8			14.1			10.1		
45	21.5	18.5	16.5	21.3	17.6		17.4			13.9			10.1		
50	20.1	17.6	15.9	19.9	16.3		16.2			13.2			10.0		
55	18.8	16.8	15.4	18.4	15.1	12.7	15.1	12.9		12.4			9.7		
60	17.7	16.0	15.0	16.9	14.1	12.0	14.2	12.2		11.8			9.2		
65	16.7	15.3	14.8	15.6	13.1	11.5	13.3	11.1		11.1			8.9		
70	15.9	14.9		14.4	12.4	11.0	12.5	10.4		10.4			8.4		
75	15.3	14.6		13.3	11.7	10.5	11.6	9.8		9.9	8.3		8.0		
80				12.4	11.1	10.1	10.6	9.1		9.3	7.8		7.6	6.7	
85				11.5	10.4	9.7	10.0	8.6	7.7	8.4	7.3		7.3	6.4	
90				10.7	10.0		9.3	8.1	7.4	7.9	6.8		7.0	5.9	
95							8.6	7.7	7.1	7.4	6.4		6.5	5.5	
100							8.0	7.4	6.8	6.9	6.1		6.0	5.2	
110							7.2	6.7	6.4	6.1	5.4	5.0	5.2	4.7	
120										5.4	5.0	4.6	4.6	4.1	3.7
130										4.7	4.5	4.2	4.1	3.8	3.3
140													3.5	3.5	3.2
150													3.1	3.1	3.0



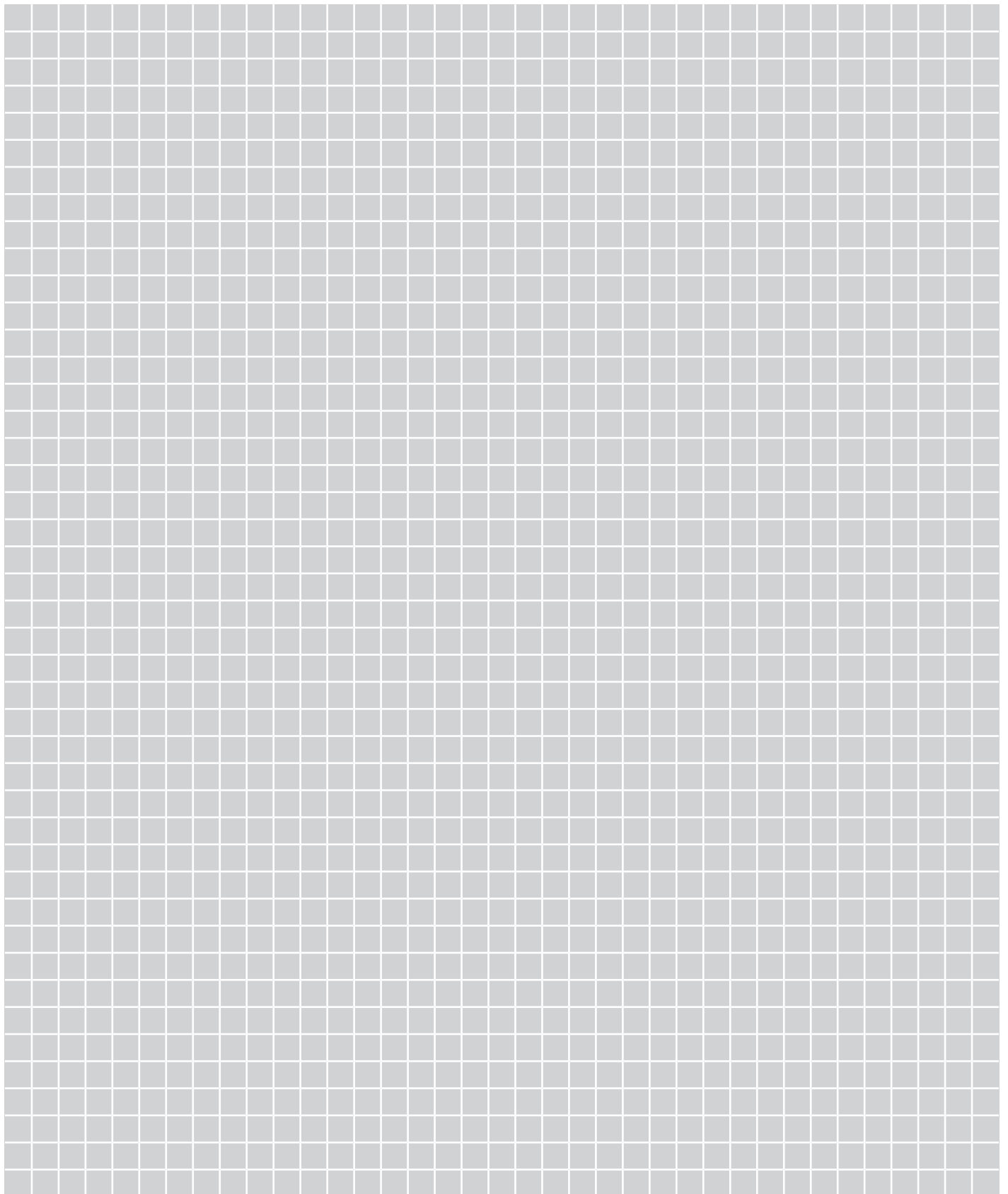




51,808 lbs

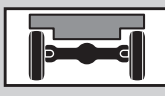
lbs x 1,000 SAE

ft	111.9 ft + 43.3 ft			111.9 ft + 63.0 ft			111.9 ft + 82.7 ft			111.9 ft + 102.4 ft			111.9 + 122.0 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
20	39.3														
25	36.8			28.9											
30	34.6			28.8			19.6			12.6					
35	32.4			28.0			19.6			12.6			9.0		
40	30.7	22.4		27.0			19.6			12.6			9.0		
45	29.0	21.4		25.8			19.4			12.6			9.0		
50	27.4	20.5		24.6			18.9			12.6			9.0		
55	26.1	19.7	16.5	23.5	17.7		18.1			12.6			9.0		
60	24.9	19.1	16.0	22.5	17.1		17.3			12.6			9.0		
65	23.7	18.4	15.7	21.5	16.4	12.8	16.6	12.6		12.6			9.0		
70	22.7	17.9	15.4	20.5	15.9	12.5	15.9	12.1		12.1			9.0		
75	21.6	17.4	15.1	19.7	15.4	12.2	15.3	11.7		11.7			8.8		
80	20.0	16.9	14.9	19.0	14.9	11.8	14.6	11.4		11.4	9.0		8.6		
85	17.1	16.6	14.6	18.1	14.4	11.5	13.9	11.0		11.0	8.6		8.4		
90	14.8	16.1	14.4	16.2	13.9	11.1	13.4	10.7		10.5	8.3		8.1		
95	12.6	14.8	14.2	14.3	13.4	10.9	12.9	10.4	8.3	10.2	8.1		7.7		
100	10.7	13.1	13.7	12.4	12.8	10.7	12.5	10.0	8.1	9.8	7.8		7.4	6.1	
110	7.5	9.6	10.5	9.2	11.7	10.2	10.8	9.4	7.5	9.1	7.3	5.8	7.1	5.8	
120	5.1	6.5	7.1	6.6	9.0	9.7	8.3	8.7	7.2	8.4	6.7	5.4	6.6	5.4	
130	3.1	4.0		4.6	6.5	7.8	6.0	8.0	6.9	6.9	6.2	5.1	6.2	4.9	4.0
140					4.3		4.1	6.3	6.7	5.1	5.9	4.9	5.4	4.6	3.7
150								4.5	5.7	3.5	5.3	4.8	4.2	4.2	3.4
160								2.6	4.0		4.4	4.5	2.7	3.9	3.3
170												4.0		3.8	3.1
180															3.1



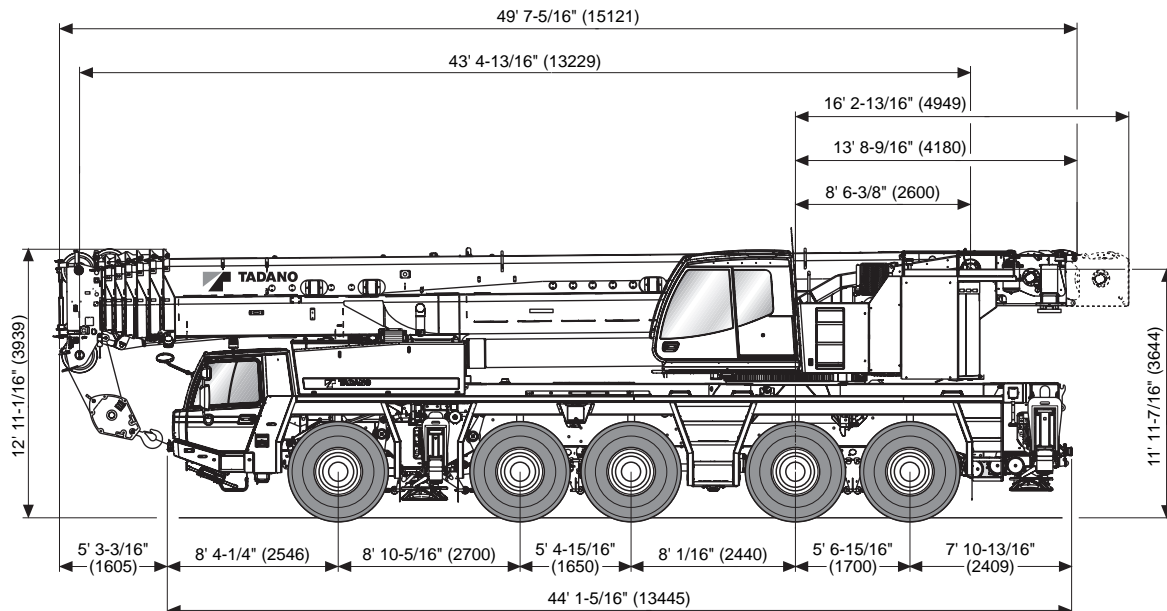
Axle weight distribution chart / Distribución de pesos por ejes



	Axle Eje	1	2	3	4	5	Total weight Peso total
	Tires 445/95 R 25 (16.00 R 25) [lbs]		26,455	26,455	26,455	26,455	26,455
Tires 525/80 R 25 (20.50 R 25) [lbs]		26,662	26,662	26,662	26,662	26,662	133,310

Boom to front	Total [lbs]	Axle 1 [lbs]	Axle 2 [lbs]	Axle 3 [lbs]	Axle 4 [lbs]	Axle 5 [lbs]
Base machine with 16.00 R 25 tires, 10 x 8 drive, no counterweight, fuel	132,225	26,508	26,438	26,376	26,530	26,373
Fuel in carrier	992	92	91	274	268	268
Fuel in superstructure	470	-73	-73	209	203	203
Driver in carrier	198	150	148	-34	-33	-33
11.0 ton (10.0 t)* hook ball at boom head	661	628	622	-198	-194	-194
35.3 ton (32.0 t)* (1 sheave) hook block at boom head	992	941	933	-298	-291	-291
69.4 ton (63.0 t)* (3 sheaves) hook ball at boom head	1,874	1,779	1,761	-564	-551	-551
17.7 ft / 43.3 ft boom extensions	3,375	1,845	1,828	-99	-97	-97
Auxiliary winch with cable	3,624	-1,638	-1,620	2,332	2,275	2,275
Auxiliary boom point sheave (single top)	205	256	254	-104	-101	-101
2 nd oil cooler	90	-9	-9	35	35	35
Air conditioning carrier	101	75	74	-16	-16	-16
Boom dismounting device	661	-141	-139	320	311	311
20.50 R 25 tires in lieu of 16.00 R 25 tires	1,036	207	207	207	207	207
Towing attachment	187	-77	-77	117	112	112
Drive 10 x 6	-276	-138	-137	0	0	0
Eddy-current brake	827	128	127	194	189	189
Tool box at rear	154	-66	-66	97	95	95

* Metric

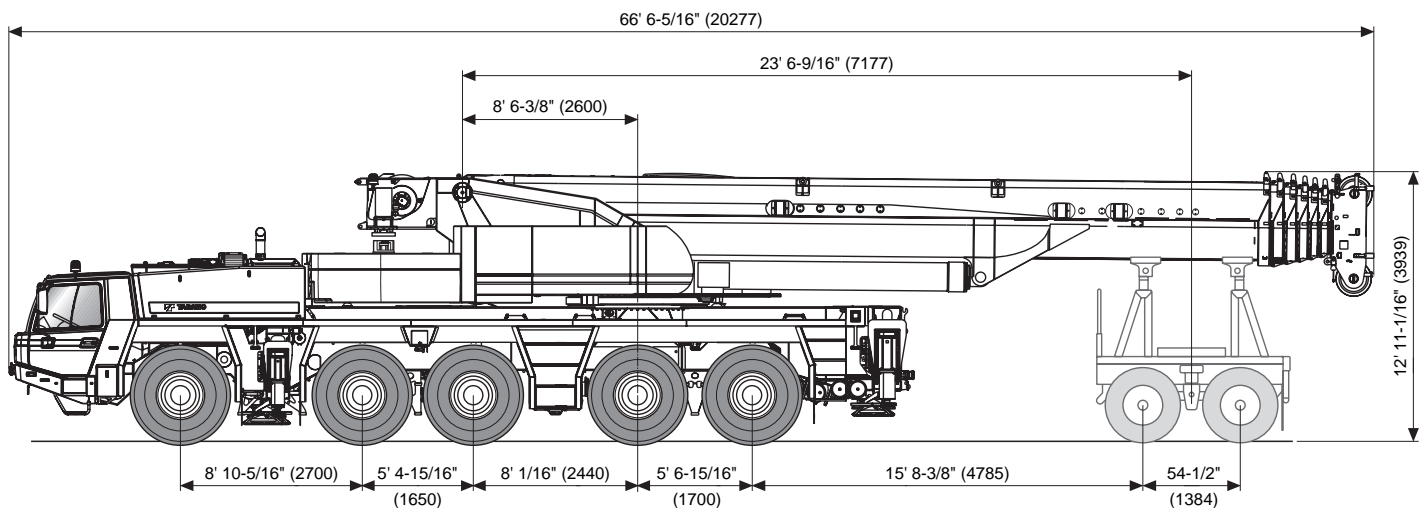


Axle weight distribution chart / Distribución de pesos por ejes

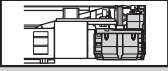
Boom in dolly, 23.5 ft behind boom pivot point	Total [lbs]	Axle 1 [lbs]	Axle 2 [lbs]	Axle 3 [lbs]	Axle 4 [lbs]	Axle 5 [lbs]	Dolly [lbs]
Base machine with 16.00 R 25 tires, 10 x 8 drive, no counterweight, fuel	132,328	17,013	18,109	21,981	23,074	22,913	29,238
Fuel in carrier	992	92	91	274	268	268	0
Fuel in superstructure	470	49	49	126	123	123	0
Driver in carrier	198	150	148	-34	-33	-33	0
11.0 ton (10.0 t)* hook ball	661	-53	-53	-42	-42	-42	893
35.3 ton (32.0 t)* (1 sheave) hook block at boom head	992	-79	-80	-64	-63	-63	1,341
69.4 ton (63.0 t)* (3 sheaves) hook block at boom head	1,874	-150	-150	-120	-120	-120	2,534
17.7 ft / 43.3 ft boom extensions	3,375	100	100	81	81	81	2,932
Auxiliary winch with cable	3,625	1,451	1,437	250	244	244	0
Auxiliary boom point sheave (single top)	205	-17	-17	-13	-13	-13	278
2 nd oil cooler	90	4	4	28	28	28	0
Air conditioning carrier	101	75	74	-16	-16	-16	0
Boom dismounting device	661	106	106	149	150	150	0
20.50 R 25 tires in lieu of 16.00 R 25 tires	1,036	207	207	207	207	207	0
Towing attachment	187	-77	-77	117	112	112	0
Air and electric linesto rear bumper and free swing and boom elevation circuits	106	-5	-5	38	39	39	0
Drive 10 x 6	-276	-138	-137	0	0	0	0
Eddy-current brake	827	128	127	194	189	189	0
Tool box at rear	154	-66	-66	97	95	95	0

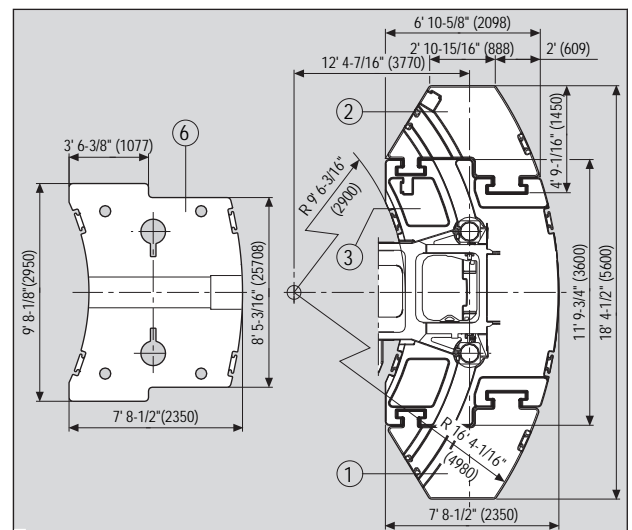
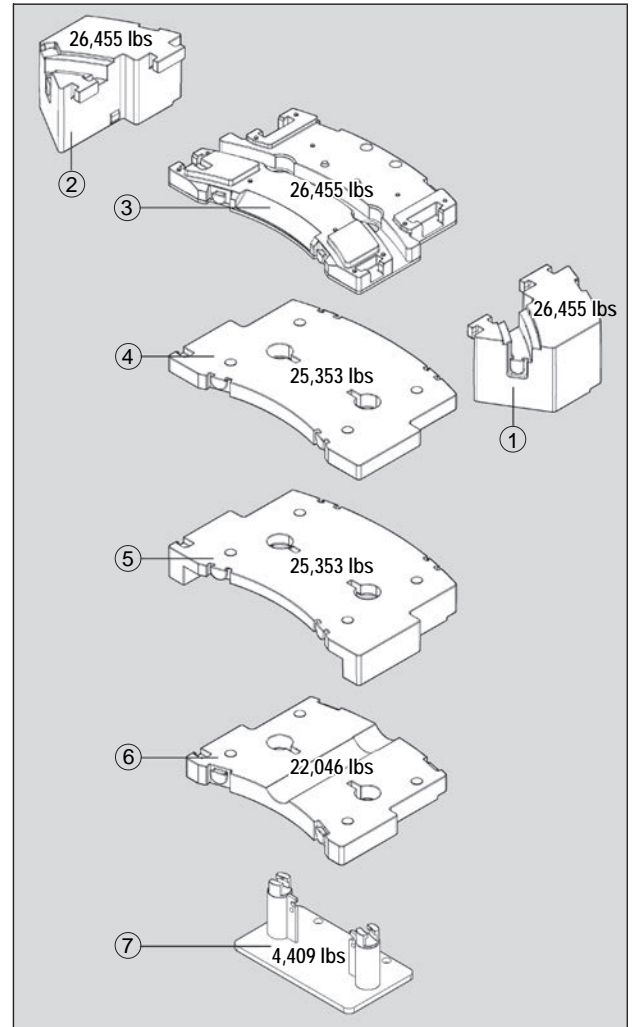
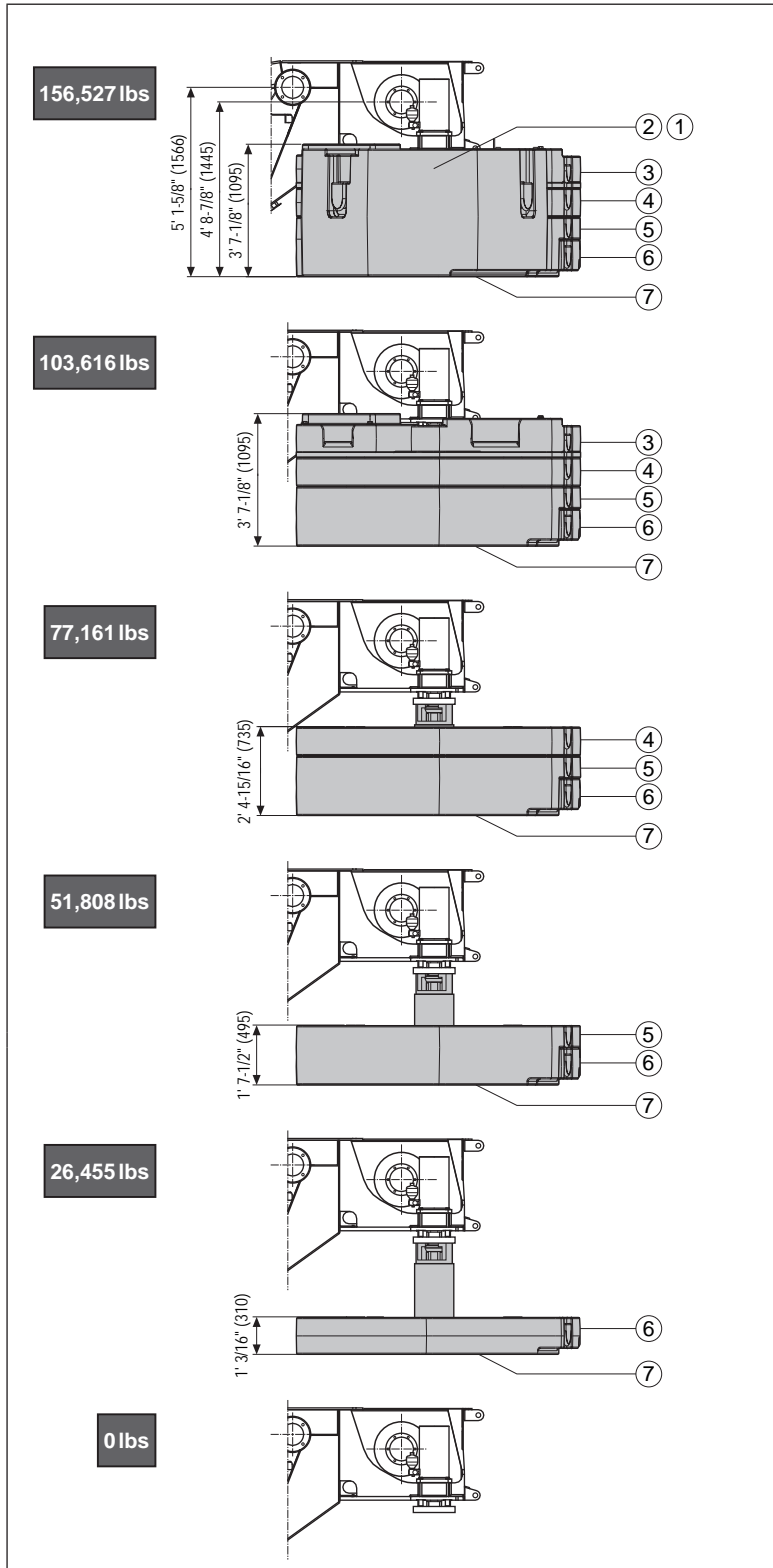
c/w on the carrier:							
4,409 lbs (2.0 t)* base plate	4,409	1,146	1,146	473	473	473	0
22,046 lbs (10.0 t)*	22,046	7,479	7,479	2,363	2,363	2,363	0
25,353 lbs (11.5 t)*	25,353	8,600	8,600	2,718	2,718	2,718	0
25,353 lbs (11.5 t)*	25,353	8,600	8,600	2,718	2,718	2,718	0

* Metric



Counterweight versions / Variaciones de contrapeso

	Counterweight / Contrapeso	①	②	③	④	⑤	⑥	⑦
		[lbs]	26,455	26,455	26,455	25,353	25,353	22,046





Frame Torsion-resistant, welded construction made from high strength, fine grained steel. Central lubricating system.

Outriggers 4 point, double telescopic hydraulic outriggers with controls on both sides of carrier and in superstructure cab. Outrigger base 27'-2.75" (8.3 m) {18'-4.25" (5.6 m) mid extension} x 29'-6.75" (9.01 m).

Carrier engine Mercedes-Benz 8 cylinder model OM 502 LA (Euromot III b/EPA Tier 4i), water-cooled diesel engine. Rated at 551 HP (405 kW) at 1,800 rpm. Torque 1,918 ft-lbs (2,600 Nm / 265 kpm) at 1,300 rpm. Engine rating according to 80 / 1269 / EWG. Fuel tank 143 gal (540 l). DEF Tank 11 gal (40 l).

Transmission ZF-AS-Tronic 16 AS 2602 mechanical transmission with electro-pneumatically operated dry-type clutch and automatic gear shifting with 16 forward gears and 2 reverse gears. Power / Economy modes.

Transfer Case Two stage.

Drive 10 x 8 (10 x 6 optional*)

Axles

1st axle: steered, driven (*not driven).
 2nd axle: steered, driven.
 3rd axle: steered, not driven.
 4th axle: steered, driven, with longitudinal differential lock.
 5th axle: steered, driven.
 All driven axles with transverse differential locks.

Suspension Hydro-pneumatic with levelling adjustment.

Brake system Service brakes: dual circuit compressed air system. Parking brake: spring loaded type acting on 2nd, 4th and 5th axle. Auxiliary brakes: Intarder with brake control, engine exhaust brake and constant throttle engine brake system.

Tires (10) 445/95 R 25 (16.00 R 25), width 9'-10.13" (3.00 m).
 (10) 525/80 R 25 (20.50 R 25), width 10'-6" (3.20 m).

Steering system ZF-Servocom, dual circuit hydraulic steering with emergency steering pump, mechanical hydraulically-assisted steering of front two axles and automatic steering of the 3rd and 4th axle up to a travel speed of 15.5 mph (25 km/h) and of the 5th axle up to 31.1 mph (50 km/h).

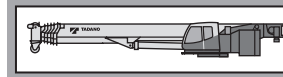
Carrier cab Two-man full width cab of composite (steel sheet metal and fibre-glass) structure, with safety glass, air-cushioned adjustable seats (driver seat with heater) and engine dependent water heater, radio/CD-player, complete controls and instrumentation for road travel. Cruise control with hill breaking feature functions.

Electrical system 24 volt DC system, 2 batteries, CAN-Bus system with CSS integrated self-diagnosis system, outrigger area lighting. Electrical system conforms with European standard regulations.

Optional Equipment (at extra charge)

Towing attachment, engine independent additional cab heater with engine pre-heat, air conditioning, ABS, 525 / 80 R 25 (20.50 R 25) tires, spare wheel and tire, special painting and lettering.

Further optional equipment available upon request.



Frame Torsion-resistant, all-welded structure of high strength steel. Connected to carrier by single-row, ball bearing slewing ring with external gearing for 360° continuous rotation. Central lubricating system.

Superstructure engine Mercedes-Benz 4 cylinder model OM 924 LA (Euromot III b/EPA Tier 4i), water-cooled diesel engine. Rated at 194 HP (143 kW) at 1,800 rpm. Torque 590 ft-lbs (800 Nm / 82 kpm) at 1,200 - 1,600 rpm. Engine rating according to 80 / 1269 / EWG. Fuel tank 66 gal (250 l). DEF Tank 2 gal (8 l).

Hydraulic system Three circuit diesel hydraulic system with 1 double axial piston pump, 1 axial piston pump and 1 gear pump, oil cooler.

Controls Electrical, 2 joy-stick levers for simultaneous operation of crane motions.

Telescopic boom 7 sections, made of high tensile, fine-grained steel, consisting of 1 base section and 6 telescoping sections extended by means of a single telescopic cylinder. All telescope sections extendable under partial load. 43.3 ft (13.2 m) to 223.1 ft (68.0 m) long. Boom head with 7 sheaves

Derricking system 1 double acting hydraulic cylinder with integral brake and holding valve.

Main winch Axial piston motor, winch drum with integrated planetary reduction and hydraulically controlled spring loaded, multiple disc brake and integrated free rotation (no sagging of load when hoisting). Hoist cable with 'Super-Stop' easy reeving system.

Slewing system Axial piston motor with three-stage planetary gear equipped with automatic service brake and a parking brake. Closed hydraulic circuit with free slewing function. Speed infinitely variable 0 - 1.2 rpm.

Counterweight Total 156,527 lbs (71.0 t) divisible, assembled and disassembled by hydraulic cylinders controlled from superstructure cab.

Superstructure cab Spacious panoramic cab of composite structure with safety (tinted) glass windows, tiltable cockpit with hydraulically cushioned adjustable seat with heater, engine dependent water heater, additional engine independent heater with engine pre-heat, air conditioning, radio/CD-player. Complete controls and instrumentation plus LCD graphic display for crane operation.

Electrical system 24 volt DC system, 2 batteries.

Safety devices 'Lift Adjuster', load moment device (LMD), anemometer, working area limiter, hoist limit switch, lower limit switch and drum turn indicator, safety valves against pipe and hose rupture, holding valves on hydraulic cylinders.

Optional Equipment (at extra charge)

Boom extensions 43.3 ft to 122.0 ft, offsets 0°, 20° and 40° or hydraulically 0° - 40°, heavy duty jib 17.7 ft, boom extensions HTLJ 29.7 ft to 68.9 ft (hydraulically offsets and telescopic 0° - 60°), counterweight variations 26,455 lbs / 51,808 lbs / 77,161 lbs / 103,616 lbs, selection of hook blocks 11.0 tons - 176.4 tons, auxiliary winch (same as main winch), special painting and lettering, outrigger load display.

Further optional equipment available upon request.

Equipo



Chasis portante Construcción de acero de alta resistencia soldado, resistente a la torsión y a la flexión. Sistema de engrase central.

Estabilizadores Estabilizadores hidráulicos de 4 puntos. Posibilidad de manejo desde ambos lados del chasis portante y desde la cabina de la grúa. Extensión de los estabilizadores: 8,3 m (y 5,6 m) x 9,0 m.

Motor Mercedes Benz modelo OM 502 LA (Euromot III B / EPA Tier 4i), 8 cilindros, diesel, refrigerado por agua. Nominal 405 kW (551 CV) a 1800 min⁻¹. Par 2600 Nm (265 kpm) a 1300 min⁻¹. Potencia del motor según 80 / 1269 / EWG. Depósito de combustible de 540 l. Depósito AdBlue 40 l.

Transmisión Transmisión mecánica tipo ZF-AS Tronic modelo 16 AS 2602 con accionamiento electro - neumático embrague en seco y cambio automático, 16 marchas delanteras y 2 marchas traseras. Modo rendimiento máximo / económico.

Transmisión Caja de distribución (transfer) con 2 relaciones de velocidad.

Tracción 10 x 8 (10 x 6 como opción*)

Ejes

- 1º eje: de dirección, accionado, (*no accionado), con bloqueo diferencial transversal.
- 2º eje: de dirección, accionado, conectar según necesidad, con bloqueo diferencial transversal.
- 3º eje: de dirección, no accionado.
- 4º eje: de dirección, accionado, con bloqueo diferencial transversal y longitudinal.
- 5º eje: de dirección, accionado, con bloqueo diferencial transversal.

Suspensión Suspensión hidroneumática con regulación de nivel.

Sistemas de frenos Accionamiento neumático de doble circuito. Freno de estacionamiento del tipo muelles cargados, liberados por aire, sobre los ejes 2º, 4º y 5º. Intarder / sistema automático de frenado y freno continuo: Sistema estrangulador y sobre el escape del motor diesel.

Neumáticos (10) 445 / 95 R 25 (16.00 R 25), (ancho 3.00 m).
(10) 525 / 80 R 25 (20.50 R 25), (ancho 3.20 m).

Dirección Hidráulica ZF Servocom de doble circuito con bomba auxiliar de dirección. Dirección mecánica del 1º y 2º eje y direccional del 3º y 4º eje hasta una velocidad de 25 km/h y del 5º eje hasta una velocidad de conducción de 50 km/h.

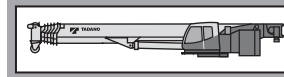
Cabina Cabina para dos personas, en construcción de acero y fibra de vidrio. Cristales de seguridad, asiento con suspensión neumática, asiento de conductor calefactado. Calefacción por agua caliente del motor, radio/CD player. Elementos de control e instrumentos para circular por carretera. Regulador de velocidad, sistema automático de frenado.

Sistema eléctrico Sistema de 24 V c.c. con dos baterías, conexiones eléctricas integradas en el sistema CAN-Bus, sistema integrado de diagnóstico CSS. Faros de trabajo en los estabilizadores. El sistema eléctrico cumple la normativa CEE.

Equipo adicional (con suplemento de precio)

Embrague de remolque, calefacción adicional con precalefacción del motor, climatización, ABS, neumáticos 525 / 80 R 25 (20.50 R 25), rueda de repuesto, pintura especial y rotulación.

Otros equipamientos sobre pedido.



Superestructura Construida en aceros soldados, resistente a la torsión. Corona de giro con rodamiento de una fila de bolas con dientes externos para giro continuo a 360°. Sistema de engrase central.

Motor Mercedes Benz modelo OM 924 LA (Euromot III B / EPA Tier 4i), 4 cilindros, diesel, refrigerado por agua. Las revoluciones aumentan de forma gradual accionando el acelerador. Nominal 143 kW (194 CV) a 1800 min⁻¹. Par 800 Nm (82 kpm) a 1200 - 1600 min⁻¹. Potencia del motor según 80 / 1269 / EWG. Depósito de combustible de 250 l. Depósito AdBlue 8 l.

Sistema hidráulico Sistema hidráulico de 3 circuitos, 1 bomba doble de pistones axiales, una bomba de pistones axiales y una bomba de ruedas dentadas, enfriador de aceite.

Mandos 2 palancas de control de tipo joy-stick para movimientos simultáneos de la grúa (4 direcciones), asistidos eléctricamente.

Pluma telescópica 7 secciones, un tramo base y 6 telescópicos de acero de alta resistencia soldado, 1 cilindro hidráulico, los tramos se pueden telescopar hidráulicamente bajo carga. Longitud de 13,2 m a 68,0 m. Cabeza de pluma con 7 poleas.

Elevación de pluma Mediante un cilindro hidráulico de doble efecto con válvula de retención integrada.

Cabrestante principal Motor hidráulico de pistones axiales y caudal fijo. Tambor del cabrestante con reducción planetaria y frenos de disco múltiples accionado, con sistema libre de elevación. Cable de elevación con sistema fácil de guiado y 'Super-Stop'.

Sistema de giro Motor hidráulico de pistones axiales con reducción planetaria de tres etapas. Con freno de giro automático de bloqueo. Circuito cerrado con mecanismo de giro libre con posibilidad de desconexión. Velocidad de giro gradual de 0 a 1,2 min⁻¹.

Contrapeso Peso total 71 t divisible, se acciona desde la cabina de la grúa.

Cabina de la grúa Cabina espaciosa y confortable, en construcción de acero y fibra de vidrio, con cristales tintados de seguridad. Asiento de operador regulable amortiguado hidráulicamente, inclinable junto con los instrumentos y mandos, asiento calefactado. Calefacción adicional con precalefacción del motor, climatización, radio/CD player. Elementos de control y mandos de conducción como display digital LCD para la operación de la grúa.

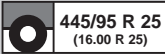
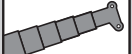
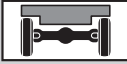
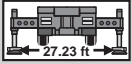
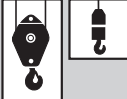







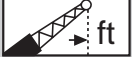

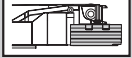



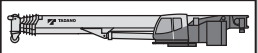


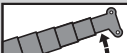

Sistema eléctrico Sistema de 24 V c.c. con dos baterías.

Medidas de seguridad 'Lift Adjuster', limitación del momento de carga (LMC), anemómetro, limitación del área de trabajo, interruptor de final de elevación, interruptor de 3 últimas vueltas en cabrestante, indicador de bajada o subida del cable del cabrestante, válvulas de seguridad para rotura de tubos y latiguillos. Válvulas de retención en los cilindros hidráulicos.

Equipo adicional (con suplemento de precio)

Plumin de 13,2 m a 37,2 m regulable de 0°, 20° y 40° (o hidráulicamente 0° a 40°), plumin de carga pesada de 5,4 m, plumin HTLJ de 8,5 m a 21,0 m (hidráulicamente regulable y telescopable 0° - 60°), variantes de contrapeso de 12 t / 23,5 t / 35 t / 47 t, gancho de 10 a 160 t, 2º cabrestante (similar a cabrestante principal), pintura especial y rotulación, control carga (gatos de apoyo).

Otros equipamientos sobre pedido.

 445/95 R 25 (16.00 R 25)	Tires / Size Neumáticos / Tamaño de ruedas		Telescopic boom Pluma telescópica
	Axle load Carga por eje	 27.23 ft	Outriggers Estabilizadores
	Hook block / Swivel hook Gancho / Gancho de bola	156,527 lbs	Counterweight Contrapeso
V+ 	Carrier speeds Velocidades del chasis	 ft	Radius Radio
	Transmission / Gear Transmisión / Marchas		Boom extension Plumin
	Gradeability Superacion de pendientes	 HYDRO	Boom extension hydraulically Plumin hidráulicamente
	Off road Todo terreno	 ft	Radius Radio
	On road En carretera		Counterweight versions Variaciones de contrapeso
V+ 	Superstructure speeds Velocidades de la superestructura		Carrier chasis
	Main winch Cabrestante principal		Superstructure superestructura
	Auxiliary winch 2° cabrestante	SAE	The data are for basic information only and the operator's manual must be consulted before operating this crane. All data and performances refer to the standard crane. The addition of optional and other equipment may affect the performance of the crane.
 360°	Slewing system Sistema de giro		
	Derricking system Elevación de pluma		
	Boom telescoping Telescopaje de pluma		Los datos sirven solamente para su información. Hay que leer las instrucciones para el uso antes de la puesta en servicio de la máquina. Todos los datos mencionados en las presentes tablas rigen para los modelos standard. Cualquier modificación del equipo montado puede dar lugar a modificaciones de aquellos valores.



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