

ATF 220G-5

250 TON CAPACITY

ALL TERRAIN CRANE

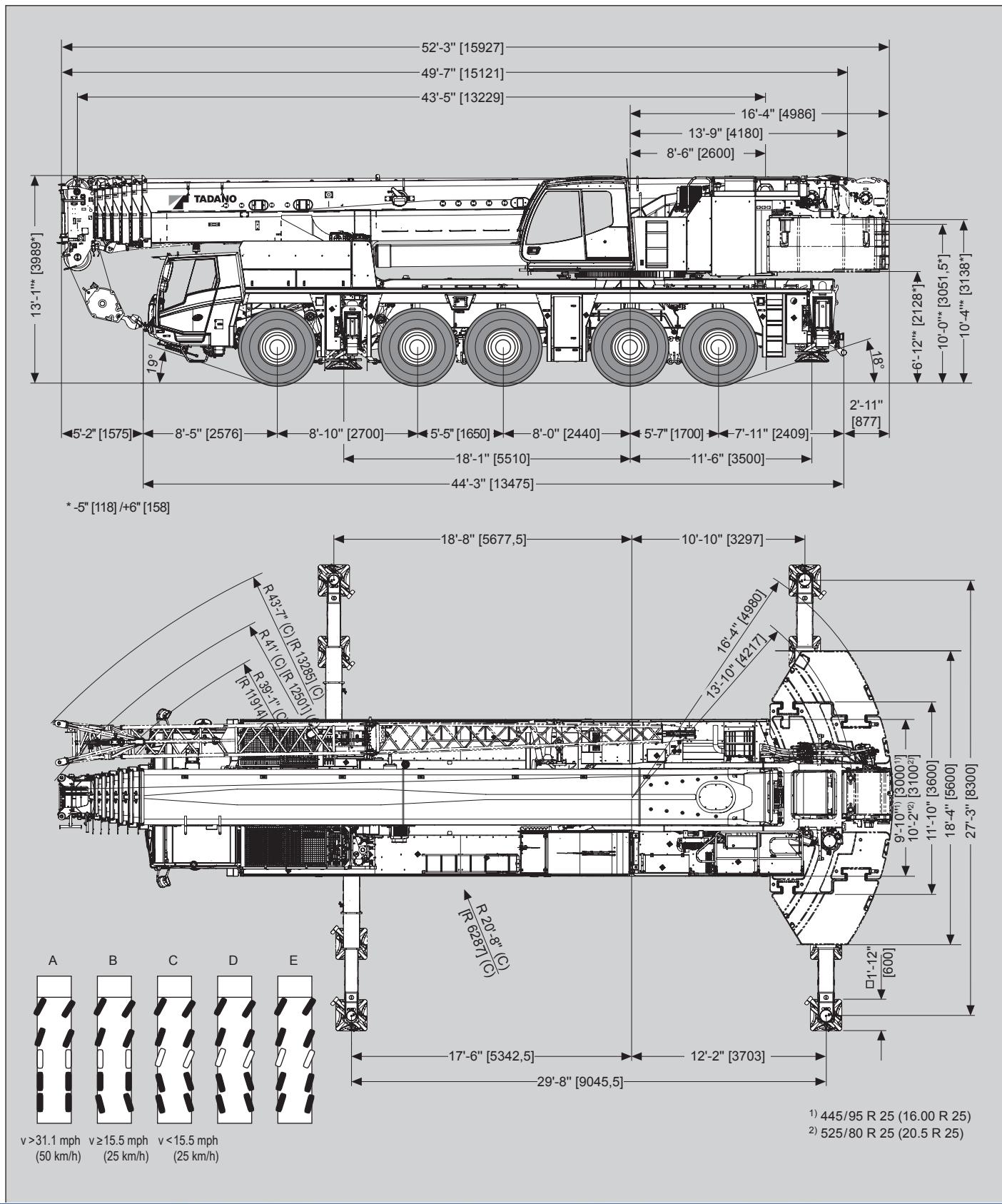


2 ENGINES

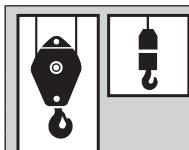
445/95 R 25
(16.00 R 25)

525/80 R 25
(20.50 R 25)

SAE



v > 31.1 mph (50 km/h) v ≥ 15.5 mph (25 km/h) v < 15.5 mph (25 km/h)



* Rams horn
* Gancho doble

**Lifting capacity
Capacidad de elevación [lbs]**

344,400 (Type / Typo 220.5 ton)*	9	19	3,527
275,000 (Type / Typo 176.4 ton)*	7	15	2,866
204,200 (Type / Typo 137.8 ton)*	5	11	2,535
112,900 (Type / Typo 88.1 ton)*	3	6	1,874
112,900 (Type / Typo 88.1 ton)	3	6	1,874
56,900 (Type / Typo 35.3 ton)	1	3	992
19,200 (Type / Typo 11.0 ton)	-	1	661

**Part of line
Ramales de cable**
**Weight
Peso [lbs]**


1

2

3

4

5

6

7

8

9

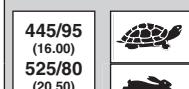
10

11

12

R1

R2

445/95
(16.00)
525/80
(20.50)
mph

1.9

1.9

2.5

5.6

4.3

5.6

7.5

9.3

12.4

15.5

19.9

25.5

1.9

2.5

63%*



3.7

5.0

6.2

8.1

9.9

13.0

16.8

21.7

28.0

36.0

46.0

52.8

3.7

5.0

48%

* 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/minsingle line
ramal simple0.83'/ 1,049.9'
21 mm / 320 m22,031 lbs
98 kN0 - 420 ft/min
0 - 128 m/minsingle line
ramal simple0.83'/ 1,049.9'
21 mm / 320 m22,031 lbs
98 kN

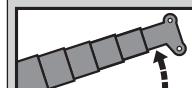
Max. permissible line pull may be affected by wire rope strength, which should not exceed 19,200 lbs for main winch and auxiliary winch
La fuerza max del cabestrante es dependiente de la normativa en vigor, la cual no permite superar los 85,4 kN de fuerza.



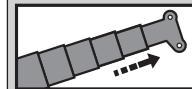
0 - 1.2 rpm

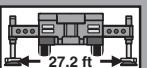
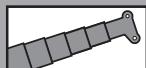


0° + 180°



-1.5° - +84°

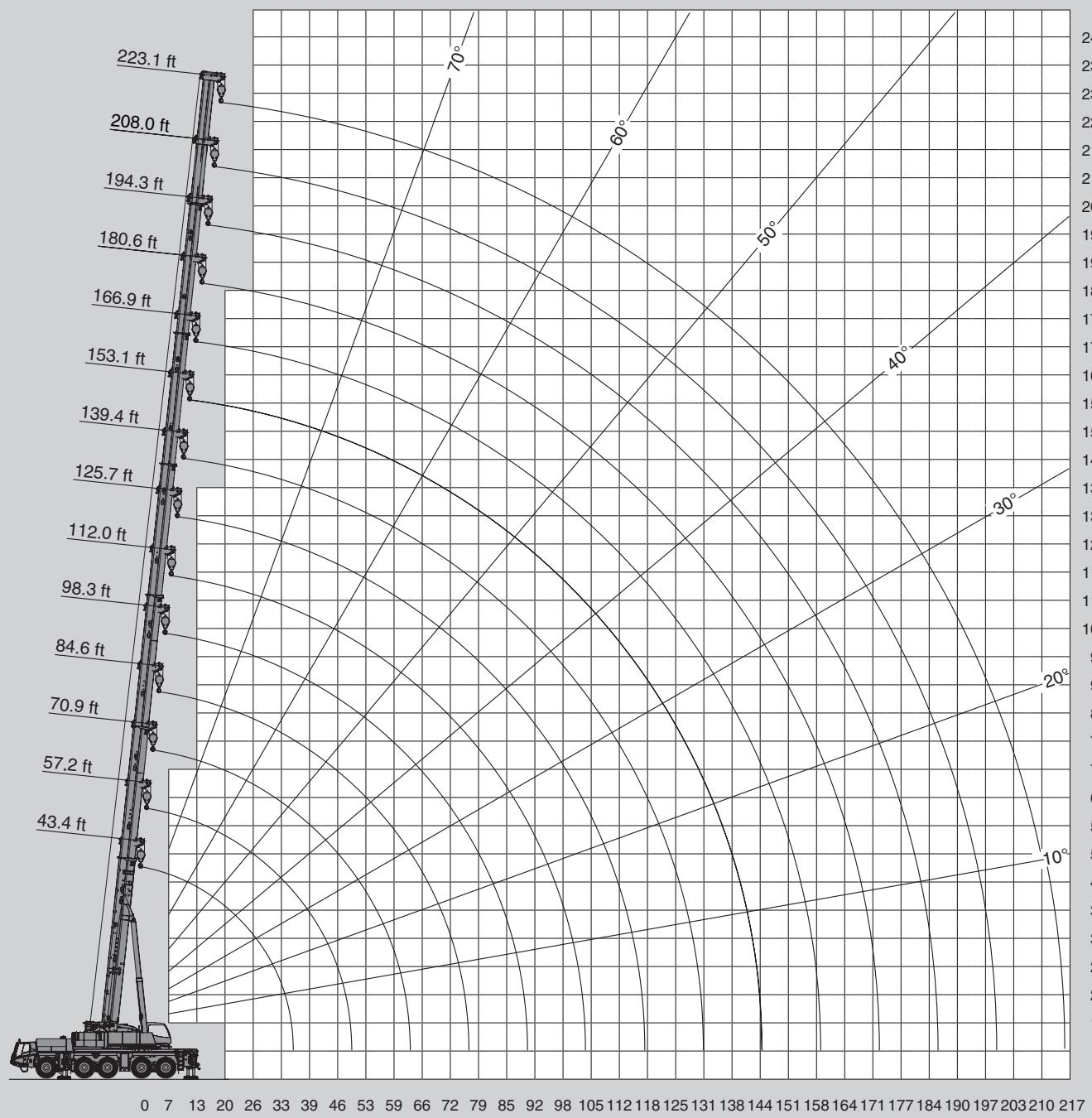
approx. 50 s
aproximadamente 50 s43.4 ft - 223.1 ft
13.2 m - 68.0 mapprox. 500 s
aproximadamente 500 s

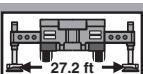
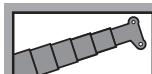


156,527 lbs

lbs x 1,000

SAE

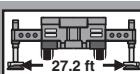
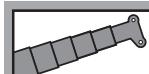



156,527 lbs
lbs x 1,000
SAE

ft	43.4 ft*	43.4 ft	57.2 ft	70.9 ft	84.6 ft	98.3 ft	112.0 ft	125.7 ft	139.4 ft	153.1 ft	166.9 ft	180.6 ft	194.3 ft	208.0 ft	223.1 ft
8.2	485.0**														
9.8	396.8**	389.1**	308.6**	308.6**	252.2										
11.5	373.7**	352.7**	308.6**	308.6**	252.0	199.5									
13.1	352.7**	331.8**	308.6**	308.6**	239.9	199.5									
14.8	331.8**	304.2**	303.6**	301.8**	228.6	199.5	154.3								
16.4	298.7**	280.0**	279.5**	277.8**	227.1	191.8	154.3	120.2							
19.7	248.0	240.3	240.3	238.5	227.1	175.9	154.3	120.2	95.9						
23.0	212.3	210.5	209.7	207.7	209.2	170.9	145.9	120.2	95.9	76.1					
26.2	184.3	184.3	183.9	181.9	183.2	170.9	134.9	120.2	95.9	76.1	62.8				
29.5	162.0	162.0	161.4	159.6	160.9	162.5	127.9	114.6	95.7	76.1	62.8	50.7			
32.8	144.2	144.2	143.3	141.5	142.6	144.4	127.9	107.8	91.3	76.1	62.8	50.7	41.4		
36.1			128.5	126.8	127.9	129.4	125.0	100.8	86.9	75.2	62.8	50.7	41.4	33.1	
39.4			116.2	114.4	115.5	117.1	119.0	94.4	82.9	71.9	62.4	50.7	41.4	33.1	30.4
45.9			97.0	95.2	96.3	97.7	99.6	88.2	78.5	66.1	59.1	50.3	41.4	33.1	30.4
52.5				80.7	81.8	83.1	85.1	82.2	71.4	62.8	54.9	48.1	41.4	33.1	30.4
59.1				69.7	70.5	71.9	73.6	75.2	64.6	58.2	50.9	45.0	40.3	33.1	29.5
65.6					61.5	62.8	67.0	66.1	59.1	54.0	47.4	42.1	37.9	33.1	28.9
72.2					54.0	57.8	60.0	58.6	54.2	50.5	44.3	39.2	35.7	32.6	28.2
78.7						54.2	53.8	52.2	50.0	46.7	41.4	36.8	33.5	30.9	27.6
85.3						49.6	48.5	47.2	45.9	43.7	38.8	34.6	31.7	29.3	26.9
91.9							44.1	42.5	41.2	40.6	36.6	32.6	30.0	27.8	25.1
98.4							40.1	38.4	36.8	36.4	34.4	30.9	28.2	26.2	23.4
105								34.6	34.2	32.6	32.4	29.1	26.7	24.9	21.8
112								31.5	32.6	29.3	29.8	27.6	25.4	23.8	20.5
118									30.0	26.2	26.7	26.2	24.0	22.5	19.2
125									27.3	24.3	25.6	23.6	22.9	21.6	18.1
131										23.4	24.3	22.0	20.7	20.5	17.0
138										22.7	22.0	20.1	19.6	18.7	16.1
144										17.9	20.3	18.1	18.3	17.6	15.0
151											18.5	17.0	17.4	16.8	14.1
158											15.7	16.1	15.7	15.9	13.4
164												15.2	14.8	15.0	12.6
171												14.3	13.9	13.9	11.9
177													13.2	12.8	11.2
184													12.6	11.7	10.6
190														10.6	10.1
197														9.7	9.5
203															8.6
210															7.7

* Over rear / * Sobre la parte trasera

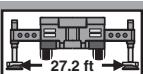
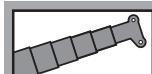
** With additional lifting equipment / ** Con equipo adicional


103,616 lbs
lbs x 1,000
SAE

ft	43.4 ft*	43.4 ft	57.2 ft	70.9 ft	84.6 ft	98.3 ft	112.0 ft	125.7 ft	139.4 ft	153.1 ft	166.9 ft	180.6 ft	194.3 ft	208.0 ft	223.1 ft			
8.2	485.0**																	
9.8	396.8**	384.7**	308.6**	308.6**	252.2													
11.5	373.7**	347.0**	308.6**	308.6**	252.0	199.5												
13.1	339.7**	315.0**	308.6**	308.6**	239.9	199.5												
14.8	302.5**	287.9**	286.8**	284.8**	228.6	199.5	154.3											
16.4	272.0**	264.3**	263.2**	261.2**	227.1	191.8	154.3	120.2										
19.7	226.0	226.0	224.9	222.9	224.4	175.9	154.3	120.2	95.9									
23.0	191.4	191.4	190.5	188.5	189.8	170.9	145.9	120.2	95.9	76.1								
26.2	165.1	165.1	164.0	162.3	163.6	165.3	134.9	120.2	95.9	76.1	62.8							
29.5	144.8	144.8	143.7	142.0	143.3	144.8	127.9	114.6	95.7	76.1	62.8	50.7						
32.8	128.5	128.5	127.4	125.7	126.8	128.5	127.9	107.8	91.3	76.1	62.8	50.7	41.4					
36.1			114.0	112.2	113.5	115.1	117.1	100.8	86.9	75.2	62.8	50.7	41.4	33.1				
39.4			102.7	100.8	102.1	103.6	105.6	94.4	82.9	71.9	62.4	50.7	41.4	33.1	30.4			
45.9				84.9	82.5	84.0	85.8	87.5	88.2	78.5	66.1	59.1	50.3	41.4	33.1	30.4		
52.5					65.9	67.2	73.0	75.4	73.6	71.4	62.8	54.9	48.1	41.4	33.1	30.4		
59.1						57.8	60.8	64.2	63.1	61.3	59.5	58.2	50.9	45.0	40.3	33.1	29.5	
65.6							55.1	54.7	53.6	51.8	50.3	49.8	47.4	42.1	37.9	33.1	28.9	
72.2								47.8	47.4	46.3	44.5	44.1	42.5	43.0	39.2	35.7	32.6	28.2
78.7									41.4	40.3	38.6	40.1	36.6	37.0	36.8	33.5	30.9	27.6
85.3									36.6	35.5	33.7	35.3	32.2	33.1	32.8	31.7	29.3	26.9
91.9										31.5	29.8	31.3	30.4	30.6	29.3	29.8	27.8	25.1
98.4										28.2	26.5	27.8	28.7	27.1	27.6	26.2	26.2	23.4
105											23.4	24.9	25.8	24.0	24.5	24.5	24.3	21.8
112											20.7	22.0	23.1	21.6	22.5	22.7	21.4	20.5
118												20.1	20.7	20.3	20.9	20.3	19.0	19.0
125												19.2	18.7	19.0	19.2	18.3	17.0	16.8
131													17.6	17.9	17.4	16.3	15.0	15.0
138													16.8	16.8	15.7	14.6	13.2	13.2
144													15.9	15.2	14.1	13.0	11.7	11.7
151														13.9	12.8	11.7	10.4	10.4
158														12.6	11.5	10.4	9.3	9.0
164															10.4	9.3	7.9	7.9
171															9.5	8.4	7.1	6.8
177																7.3	6.0	6.0
184																6.6	5.1	5.1
190																	4.4	4.2
197																	3.7	3.5
203																		2.9

* Over rear / * Sobre la parte trasera

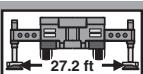
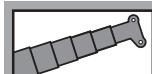
** With additional lifting equipment / ** Con equipo adicional


77,161 lbs
lbs x 1,000
SAE

ft	43.4 ft*	43.4 ft	57.2 ft	70.9 ft	84.6 ft	98.3 ft	112.0 ft	125.7 ft	139.4 ft	153.1 ft	166.9 ft	180.6 ft	194.3 ft	208.0 ft	223.1 ft
8.2	485.0**														
9.8	396.8**	374.6**	308.6**	308.6**	252.2										
11.5	367.9**	337.1**	308.6**	308.6**	252.0	199.5									
13.1	323.0**	305.3**	304.5**	302.5**	239.9	199.5									
14.8	287.3**	278.4**	277.3**	275.4**	228.6	199.5	154.3								
16.4	258.4	255.1	254.2	252.2	227.1	191.8	154.3	120.2							
19.7	213.2	213.2	212.3	210.3	211.6	175.9	154.3	120.2	95.9						
23.0	180.1	180.1	179.0	177.2	178.6	170.9	145.9	120.2	95.9	76.1					
26.2	155.2	155.2	154.3	152.3	153.7	155.4	134.9	120.2	95.9	76.1	62.8				
29.5	136.0	136.0	134.9	133.2	134.5	136.0	127.9	114.6	95.7	76.1	62.8	50.7			
32.8	120.2	120.2	119.0	117.1	118.4	119.9	119.9	107.8	91.3	76.1	62.8	50.7	41.4		
36.1			105.4	102.7	104.5	106.9	106.0	99.6	86.9	75.2	62.8	50.7	41.4	33.1	
39.4			90.6	88.2	89.9	92.2	94.6	94.1	82.9	71.9	62.4	50.7	41.4	33.1	30.4
45.9			69.9	68.8	73.6	78.7	77.6	75.6	72.8	66.1	59.1	50.3	41.4	33.1	30.4
52.5				62.4	64.4	63.9	62.8	61.1	59.3	58.6	54.9	48.1	41.4	33.1	30.4
59.1				53.1	53.6	53.1	52.0	50.3	50.5	48.3	48.7	45.0	40.3	33.1	29.5
65.6					45.6	45.2	44.1	42.3	43.9	40.3	40.8	41.2	37.9	33.1	28.9
72.2					39.5	38.8	37.7	35.9	37.5	36.2	37.0	35.7	35.7	32.6	28.2
78.7						33.7	32.6	30.9	32.4	33.5	32.0	32.2	31.1	30.9	27.6
85.3						29.8	28.4	26.7	28.2	29.3	27.8	28.4	29.1	27.8	26.9
91.9							25.1	23.1	25.1	26.5	26.0	26.5	25.4	24.3	24.0
98.4							23.6	21.8	23.6	24.5	24.3	23.4	22.3	20.9	20.9
105								20.5	22.3	22.3	21.8	20.7	19.6	18.3	18.3
112								19.4	20.7	19.8	19.4	18.3	17.2	15.9	15.9
118									18.5	17.9	17.2	16.3	15.2	13.9	13.7
125									16.8	16.1	15.4	14.3	13.2	12.1	11.9
131										14.3	13.9	12.8	11.7	10.4	10.4
138										13.0	12.3	11.2	10.1	9.0	8.8
144										11.9	11.0	9.9	9.0	7.5	7.5
151											9.9	8.8	7.7	6.4	6.4
158											8.8	7.7	6.6	5.3	5.3
164												6.8	5.7	4.4	4.2
171												6.0	4.9	3.5	3.3
177													4.0	2.6	2.4
184													3.3		

* Over rear / * Sobre la parte trasera

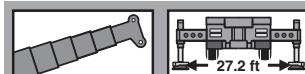
** With additional lifting equipment / ** Con equipo adicional


51,808 lbs
lbs x 1,000
SAE

 ft	43.4 ft*	43.4 ft	57.2 ft	70.9 ft	84.6 ft	98.3 ft	112.0 ft	125.7 ft	139.4 ft	153.1 ft	166.9 ft	180.6 ft	194.3 ft	208.0 ft	223.1 ft
8.2	478.8**														
9.8	396.8**	364.2**	308.6**	308.6**	252.2										
11.5	349.2**	326.7**	308.6**	308.6**	252.0	199.5									
13.1	306.4**	295.2**	294.3**	292.3**	239.9	199.5									
14.8	272.5**	268.5**	267.4**	265.4**	228.6	199.5	154.3								
16.4	244.3	244.3	243.2	241.2	227.1	191.8	154.3	120.2							
19.7	200.4	200.4	199.5	197.5	198.9	175.9	154.3	120.2	95.9						
23.0	169.1	169.1	168.2	166.2	166.7	159.6	145.9	120.2	95.9	76.1					
26.2	145.3	145.3	144.2	142.2	137.3	132.9	127.9	120.2	95.9	76.1	62.8				
29.5	125.0	125.0	123.2	120.2	116.0	112.9	110.9	103.4	95.7	76.1	62.8	50.7			
32.8	103.0	103.0	101.2	98.3	99.4	97.7	99.2	95.5	86.0	76.1	62.8	50.7	41.4		
36.1			84.9	82.2	87.5	91.7	90.4	84.4	79.1	75.2	62.8	50.7	41.4	33.1	
39.4			72.8	76.7	82.5	82.5	80.7	75.4	70.5	67.5	62.4	50.7	41.4	33.1	30.4
45.9			61.5	63.9	64.6	64.2	62.8	61.1	59.1	54.9	53.6	50.3	41.4	33.1	30.4
52.5				51.4	52.0	51.6	50.5	48.7	50.5	45.2	44.3	43.9	41.4	33.1	29.5
59.1				42.5	43.0	42.5	41.4	39.7	41.4	41.0	40.6	39.9	37.3	33.1	29.5
65.6					36.4	35.7	34.6	33.1	34.6	35.7	34.4	34.8	33.1	32.0	28.9
72.2					32.2	30.4	30.0	28.9	31.1	32.4	32.0	31.1	29.8	27.6	26.7
78.7						26.0	28.0	26.7	28.7	28.0	27.6	26.7	25.6	23.8	23.1
85.3						23.6	25.4	24.9	25.1	24.3	23.8	22.9	21.8	20.3	19.8
91.9							22.5	22.0	22.0	21.4	20.7	19.6	18.5	17.2	17.0
98.4							19.8	19.4	19.4	18.5	18.1	17.0	15.9	14.3	14.3
105								17.2	17.0	16.3	15.7	14.6	13.4	12.1	12.1
112								15.2	15.0	14.1	13.7	12.6	11.5	10.1	10.1
118									13.2	12.3	11.9	10.8	9.7	8.4	8.4
125									11.7	10.8	10.4	9.3	8.2	6.8	6.8
131										9.5	9.0	7.9	6.8	5.5	5.3
138										8.4	7.7	6.6	5.5	4.2	4.2
144										7.5	6.6	5.5	4.4		
151											5.7	4.6	3.5		
158											4.9	3.7	2.6		
164												2.9			

* Over rear / * Sobre la parte trasera

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



26,455 lbs

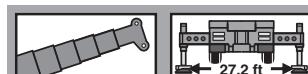
lbs x 1,000

SAE

 ft	43.4 ft*	43.4 ft	57.2 ft	70.9 ft	84.6 ft	98.3 ft	112.0 ft	125.7 ft	139.4 ft	153.1 ft	166.9 ft	180.6 ft	194.3 ft	208.0 ft	223.1 ft
8.2	455.9**														
9.8	383.8**	352.7**	308.6**	308.6**	252.2										
11.5	330.7**	315.7**	308.6**	308.6**	252.0	199.5									
13.1	290.1**	284.4**	283.3**	281.3**	239.9	199.5									
14.8	256.6	256.6	255.5	253.5	228.6	199.5	154.3								
16.4	229.1	229.1	228.0	226.0	221.3	191.8	154.3	120.2							
19.7	187.8	187.8	186.7	178.6	167.1	158.3	144.4	120.2	95.9						
23.0	157.4	157.4	155.0	139.6	132.5	127.2	123.5	113.5	95.9	76.1					
26.2	122.8	122.8	120.8	113.1	108.5	105.6	108.7	95.9	90.2	76.1	62.8				
29.5	97.0	97.0	95.2	92.2	96.6	99.9	93.7	86.9	80.5	76.1	62.8	50.7			
32.8	79.4	79.4	78.0	86.2	89.1	86.6	81.6	75.6	70.1	66.6	62.8	50.7	41.4		
36.1			71.6	74.5	75.4	75.0	71.6	66.4	65.5	58.2	56.4	50.7	41.4	33.1	
39.4			61.5	64.2	65.0	64.4	63.3	58.4	58.6	51.1	49.8	48.7	41.4	33.1	30.4
45.9			46.3	49.2	49.8	49.2	48.1	46.1	47.0	46.7	43.0	41.9	38.8	33.1	30.4
52.5				38.4	41.0	38.6	38.6	38.1	40.3	41.2	39.5	37.0	33.1	32.0	30.4
59.1				31.3	33.3	32.2	34.6	34.2	33.5	33.1	31.1	28.9		26.5	25.6
65.6					27.6	28.0	28.7	28.4	28.4	27.6	27.1	26.2	24.3	22.0	21.4
72.2					23.1	23.6	24.3	24.0	23.8	23.1	22.7	21.6	20.5	18.3	17.9
78.7						20.1	20.7	20.3	20.3	19.4	19.0	17.9	16.8	15.2	14.8
85.3						17.2	17.6	17.2	17.2	16.3	15.9	14.8	13.7	12.1	12.1
91.9							15.0	14.8	14.6	13.9	13.2	12.1	11.0	9.7	9.7
98.4							13.0	12.6	12.3	11.7	11.2	10.1	9.0	7.5	7.5
105								10.8	10.6	9.9	9.3	8.2		7.1	
112								9.3	9.0	8.2	7.7	6.6	5.5		
118									7.7	6.8	6.4	5.3			
125									6.4	5.7	5.1	4.0			
131										4.6	4.0	2.9			
138										3.7	3.1				
144										2.9					

* Over rear / * Sobre la parte trasera

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



0 lbs

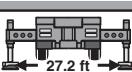
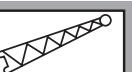
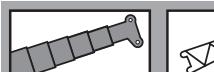
lbs x 1,000

SAE

 ft	43.4 ft*	43.4 ft	57.2 ft	70.9 ft	84.6 ft	98.3 ft	112.0 ft	125.7 ft	139.4 ft	153.1 ft	166.9 ft	180.6 ft	194.3 ft	208.0 ft	223.1 ft
8.2	430.6**														
9.8	362.4**	340.4**	308.6**	308.6**	252.2										
11.5	312.2**	303.4**	302.3**	300.3**	252.0	199.5									
13.1	271.8**	271.8**	270.7**	265.4**	227.1	199.5									
14.8	239.4	239.4	238.5	212.3	191.6	170.9	154.3								
16.4	213.6	213.6	203.0	175.5	160.9	150.1	133.8	120.2							
19.7	165.1	165.1	145.3	127.9	119.9	117.9	112.4	99.4	92.4						
23.0	124.8	124.8	110.9	102.7	107.8	103.0	95.2	85.8	77.6	72.1					
26.2	93.7	93.7	88.0	95.7	90.8	84.4	77.6	70.3	69.2	59.3	56.7				
29.5	73.2	73.2	79.8	78.7	75.2	70.3	64.8	58.6	58.2	55.8	49.8	46.3			
32.8	57.8	57.8	64.4	65.9	63.5	59.7	55.1	54.5	54.0	49.2	44.5	42.3	39.2		
36.1			52.7	55.8	54.5	51.4	50.7	51.1	49.2	46.3	41.7	37.3	34.0	33.1	
39.4			43.9	47.0	49.8	44.8	47.4	45.2	43.4	40.8	38.6	35.7	32.8	29.8	28.4
45.9			31.7	35.1	37.3	37.9	37.5	35.9	34.4	32.4	30.4	28.0	25.6	22.9	22.0
52.5				26.7	28.9	29.5	30.2	29.1	28.0	26.2	24.5	22.5	20.3	17.9	17.0
59.1				20.7	22.9	23.6	24.3	23.8	22.9	21.4	20.1	18.1	16.1	13.9	13.2
65.6					18.3	19.0	19.6	19.4	19.2	17.6	16.3	14.6	12.8	10.6	10.1
72.2						14.8	15.2	15.9	15.7	15.7	14.6	13.2	11.7	9.9	7.9
78.7							12.3	13.0	12.8	12.6	11.9	10.8	9.3	7.7	
85.3							10.1	10.6	10.4	10.1	9.5	8.8	7.3		
91.9								8.8	8.4	8.2	7.5	7.1	5.5		
98.4								7.1	6.8	6.6	5.7	5.3			
105									5.3	5.1	4.4	3.7			
112									4.2	4.0	3.1				
118									2.9						

* Over rear / * Sobre la parte trasera

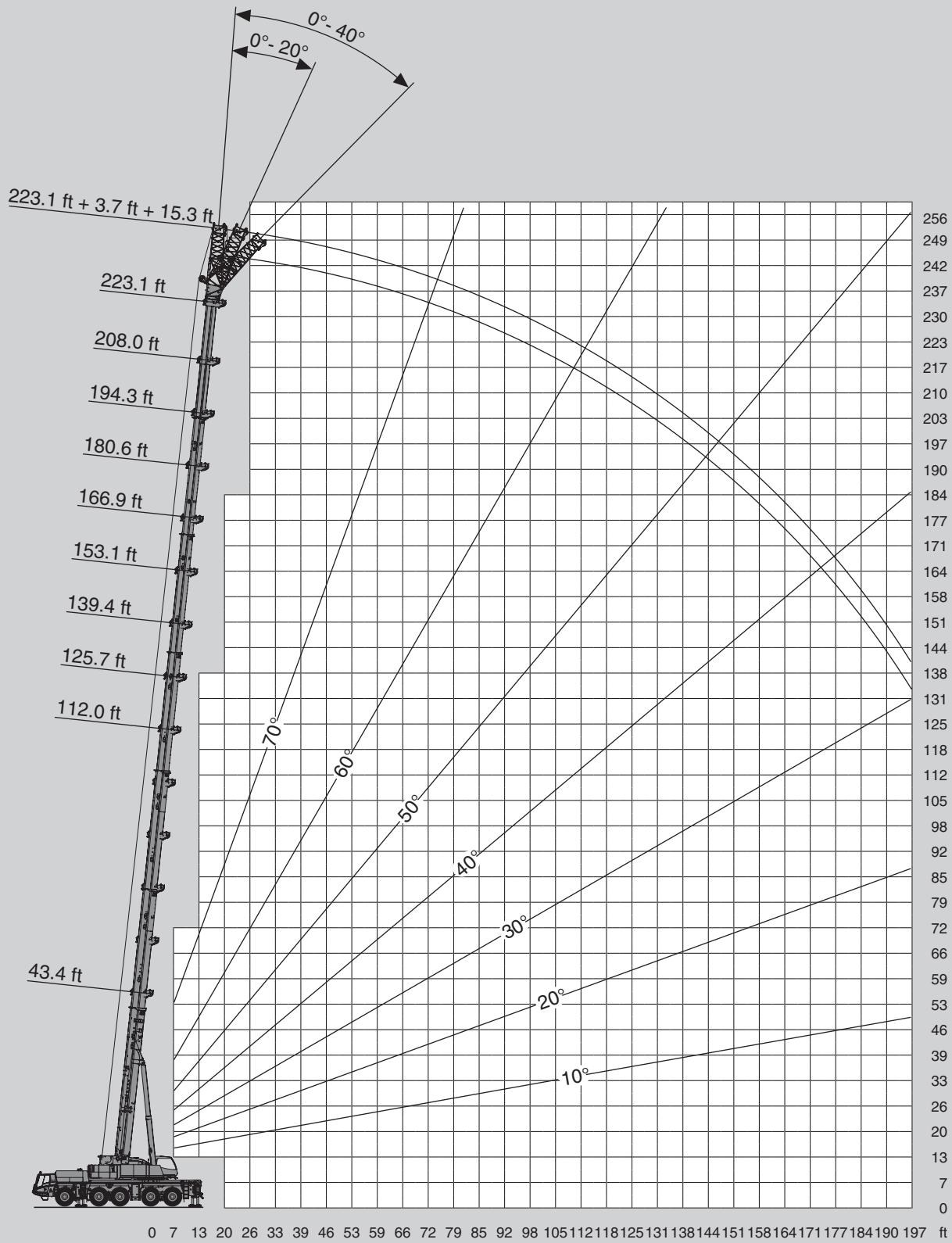
** With additional lifting equipment / ** Con equipo adicional



156,527 lbs

lbs x 1,000

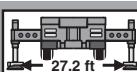
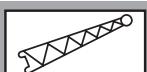
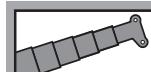
SAE





ft	43.4 ft + 3.7 ft + 15.3 ft			112.0 ft + 3.7 ft + 15.3 ft			125.7 ft + 3.7 ft + 15.3 ft			139.4 ft + 3.7 ft + 15.3 ft			153.1 ft + 3.7 ft + 15.3 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8	105.4														
11.5	99.6	67.2													
13.1	94.4	65.0													
14.8	89.9	63.1	50.0												
16.4	85.8	61.1	48.9												
19.7	78.5	57.8	47.4	85.3			66.8								
23.0	72.5	54.9	45.9	85.3											
26.2	67.5	52.5	44.5	85.3	63.3		66.8			52.9			43.7		
29.5	63.1	50.3	43.4	85.3	61.5	47.6	66.8	63.7		52.9	52.9		43.7		
32.8	59.3	48.3	42.5	84.9	59.7	47.0	66.8	61.9	47.8	52.9	52.9		43.7	37.5	
36.1	56.2	46.7	41.4	80.2	58.2	46.3	66.8	60.4	47.2	52.9	52.9	47.8	42.3	36.2	32.6
39.4	53.1	44.5	40.6	76.1	56.9	45.6	66.8	59.1	46.5	52.9	52.9	47.2	40.6	35.1	31.7
45.9	45.9	41.0		68.8	54.2	44.3	63.7	56.4	45.4	52.9	52.0	46.1	37.7	32.8	30.0
52.5	40.1			62.4	51.8	43.4	58.0	54.0	44.3	50.0	48.3	45.0	35.1	31.1	28.4
59.1				57.1	50.0	42.5	53.1	51.8	43.4	46.5	45.0	44.1	33.1	29.3	27.1
65.6				52.5	48.3	41.9	49.2	48.1	42.8	43.4	42.1	41.4	31.3	28.0	26.0
72.2				48.5	46.7	41.0	45.6	44.8	42.1	40.8	39.7	38.8	29.8	26.9	25.1
78.7				45.0	44.3	40.1	42.5	41.7	41.2	38.1	37.3	36.6	28.4	25.8	24.3
85.3				41.4	41.4	39.7	39.7	39.2	38.8	35.9	35.1	34.6	27.1	24.9	23.6
91.9				37.0	37.7	38.1	37.5	36.8	36.6	34.0	33.1	32.8	26.0	24.0	22.9
98.4				33.3	34.0	34.2	35.3	34.8	34.6	32.0	31.5	31.1	25.1	23.1	22.3
105				29.8	30.4		32.0	32.6	32.8	30.4	29.8	29.5	24.5	22.7	21.8
112				26.5	26.9		28.9	29.5		28.4	28.4	28.2	23.6	22.0	21.4
118				23.4			26.0	26.5		25.4	26.0	26.2	23.1	21.6	20.9
125							23.4	23.6		22.7	23.1		22.5	21.2	20.7
131							20.9			20.3	20.7		21.6	20.9	
138										18.3	18.5		19.4	19.8	
144										16.3	16.5		17.6	17.9	
151												15.9	16.1		
158												14.3			

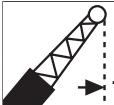
ft	166.9 ft + 3.7 ft + 15.3 ft			180.6 ft + 3.7 ft + 15.3 ft			194.3 ft + 3.7 ft + 15.3 ft			208.0 ft + 3.7 ft + 15.3 ft			223.1 ft + 3.7 ft + 15.3 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
32.8	39.2			34.2			28.4								
36.1	39.2	34.8		34.2	30.9										
39.4	37.9	33.7		34.2			28.4								
45.9	35.5	31.7	29.1	32.4	29.3	27.1	28.4	26.5		24.0	22.3		22.0		
52.5	33.5	30.0	27.8	30.6	27.8	25.8	27.1	25.1	23.8	22.7	21.2	20.3	20.7	19.4	
59.1	31.7	28.4	26.5	29.1	26.5	24.7	25.6	24.0	22.9	21.6	20.3	19.4	19.8	18.5	17.9
65.6	30.0	27.1	25.4	27.8	25.4	23.6	24.5	22.9	22.0	20.5	19.2	18.5	19.0	17.6	17.2
72.2	28.4	25.8	24.3	26.7	24.3	22.7	23.1	22.0	21.2	19.6	18.5	17.9	18.1	17.0	16.3
78.7	27.3	24.9	23.4	25.4	23.1	22.0	22.3	21.2	20.3	18.7	17.6	17.0	17.2	16.3	15.7
85.3	26.0	23.8	22.7	24.3	22.3	21.2	21.4	20.3	19.6	18.1	17.0	16.5	16.5	15.7	15.2
91.9	25.1	23.1	21.8	23.4	21.6	20.5	20.5	19.4	19.0	17.2	16.5	15.9	15.9	15.2	14.8
98.4	24.3	22.3	21.4	22.5	20.9	19.8	19.6	18.7	18.3	16.5	15.9	15.4	15.2	14.8	14.3
105	23.4	21.6	20.7	21.4	20.3	19.4	19.0	18.1	17.9	15.9	15.4	15.0	14.6	14.1	13.9
112	22.7	21.2	20.3	20.5	19.6	19.0	18.3	17.6	17.2	15.4	14.8	14.6	14.1	13.7	13.4
118	22.0	20.7	19.8	19.6	19.2	18.5	17.4	17.0	16.8	15.0	14.3	14.1	13.7	13.2	13.0
125	21.2	20.3	19.6	18.7	18.5	18.3	16.8	16.5	16.3	14.3	13.9	13.7	13.2	12.8	12.6
131	19.4	19.8	19.4	17.9	17.9	17.6	16.1	15.9	15.9	13.9	13.4	13.4	12.8	12.3	12.1
138	18.5	18.3		16.3	17.0	17.0	15.4	15.2	15.2	13.7	13.2	13.0	12.3	12.1	11.9
144	17.4	17.4		15.4	15.4	15.4	14.3	14.3	14.8	13.2	12.8	12.8	12.1	11.7	11.7
151	15.9	16.1		14.8	14.8		13.4	13.4	13.4	12.8	12.6	12.3	11.7	11.5	11.2
158	14.3	14.6		13.9	13.9		12.8	12.8	12.8	12.1	12.1	12.1	11.5	11.2	11.0
164	12.8	13.0		13.2	13.2		12.1	12.1		11.5	11.5	11.5	11.0	11.0	10.8
171	11.5			11.9	12.1		11.5	11.5		10.8	10.8	10.8	10.4	10.6	10.6
184				9.5			10.1	10.4		9.7	9.7		9.5	9.5	9.5
197							8.2			8.8	8.8		8.6	8.6	
210										7.3			7.3	7.3	
223													5.5		



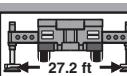
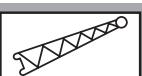
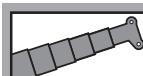
103,616 lbs

lbs x 1,000

SAE

 ft	43.4 ft + 3.7 ft + 15.3 ft			112.0 ft + 3.7 ft + 15.3 ft			125.7 ft + 3.7 ft + 15.3 ft			139.4 ft + 3.7 ft + 15.3 ft			153.1 ft + 3.7 ft + 15.3 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8	105.4														
11.5	99.6	67.2													
13.1	94.4	65.0													
14.8	89.9	63.1	50.0												
16.4	85.8	61.1	48.9												
19.7	78.5	57.8	47.4	85.3				66.8							
23.0	72.5	54.9	45.9	85.3											
26.2	67.5	52.5	44.5	85.3	63.3		66.8				52.9			43.7	
29.5	63.1	50.3	43.4	85.3	61.5	47.6	66.8	63.7			52.9	52.9		43.7	
32.8	59.3	48.3	42.5	84.9	59.7	47.0	66.8	61.9	47.8		52.9	52.9		43.7	37.5
36.1	56.2	46.7	41.4	80.2	58.2	46.3	66.8	60.4	47.2	52.9	52.9		47.8	42.3	36.2
39.4	53.1	44.5	40.6	76.1	56.9	45.6	66.8	59.1	46.5	52.9	52.9		47.2	40.6	35.1
45.9	45.9	41.0		68.8	54.2	44.3	63.7	56.4	45.4	52.9	52.0	46.1	37.7	32.8	30.0
52.5	40.1			62.4	51.8	43.4	58.0	54.0	44.3	50.0	48.3	45.0	35.1	31.1	28.4
59.1				56.4	50.0	42.5	53.1	51.8	43.4	46.5	45.0	44.1	33.1	29.3	27.1
65.6				47.2	48.3	41.9	49.2	48.1	42.8	43.4	42.1	41.4	31.3	28.0	26.0
72.2				39.9	41.2	41.0	42.3	43.7	42.1	40.8	39.7	38.8	29.8	26.9	25.1
78.7				34.0	35.3	35.7	36.4	37.5	38.1	36.2	37.0	36.6	28.4	25.8	24.3
85.3				28.9	30.0	30.6	31.5	32.6	33.1	31.3	32.2	32.8	27.1	24.9	23.6
91.9				24.7	25.6	26.0	27.3	28.2	28.9	26.9	27.8	28.4	26.0	24.0	22.9
98.4				21.2	21.8	22.0	23.6	24.5	24.9	23.4	24.0	24.5	24.5	23.1	22.3
105				18.1	18.5		20.5	21.4	21.6	20.1	20.9	21.2	21.4	22.3	21.8
112				15.4	15.9		17.9	18.5		17.4	18.1	18.3	18.7	19.6	19.8
118				13.0			15.7	16.1		15.0	15.7	15.9	16.3	17.0	17.4
125							13.4	13.9		13.0	13.4		14.3	14.8	15.0
131							11.7			11.2	11.5		12.3	13.0	
138										9.5	9.7		10.8	11.2	
144										8.2	8.2		9.3	9.7	
151												7.9		8.2	
158												6.8			

 ft	166.9 ft + 3.7 ft + 15.3 ft			180.6 ft + 3.7 ft + 15.3 ft			194.3 ft + 3.7 ft + 15.3 ft			208.0 ft + 3.7 ft + 15.3 ft			223.1 ft + 3.7 ft + 15.3 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
32.8	39.2			34.2			28.4								
36.1	39.2	34.8		34.2	30.9										
39.4	37.9	33.7		34.2											
45.9	35.5	31.7	29.1	32.4	29.3	27.1	28.4	26.5		24.0	22.3		22.0		
52.5	33.5	30.0	27.8	30.6	27.8	25.8	27.1	25.1	23.8	22.7	21.2	20.3	20.7	19.4	
59.1	31.7	28.4	26.5	29.1	26.5	24.7	25.6	24.0	22.9	21.6	20.3	19.4	19.8	18.5	17.9
65.6	30.0	27.1	25.4	27.8	25.4	23.6	24.5	22.9	22.0	20.5	19.2	18.5	19.0	17.6	17.2
72.2	28.4	25.8	24.3	26.7	24.3	22.7	23.1	22.0	21.2	19.6	18.5	17.9	18.1	17.0	16.3
78.7	27.3	24.9	23.4	25.4	23.1	22.0	22.3	21.2	20.3	18.7	17.6	17.0	17.2	16.3	15.7
85.3	26.0	23.8	22.7	24.3	22.3	21.2	21.4	20.3	19.6	18.1	17.0	16.5	16.5	15.7	15.2
91.9	25.1	23.1	21.8	23.4	21.6	20.5	20.5	19.4	19.0	17.2	16.5	15.9	15.9	15.2	14.8
98.4	24.3	22.3	21.4	22.5	20.9	19.8	19.6	18.7	18.3	16.5	15.9	15.4	15.2	14.8	14.3
105	21.6	21.6	20.7	21.4	20.3	19.4	19.0	18.1	17.9	15.9	15.4	15.0	14.6	14.1	13.9
112	19.0	19.6	20.1	19.4	19.6	19.0	18.3	17.6	17.2	15.4	14.8	14.6	14.1	13.7	13.0
118	16.5	17.2	17.4	17.0	17.6	17.9	17.4	17.0	16.8	15.0	14.3	14.1	13.7	13.2	13.0
125	14.3	15.0	15.2	14.8	15.4	15.7	15.4	16.1	16.3	14.3	13.9	13.7	13.2	12.8	12.6
131	12.6	13.0	13.2	13.0	13.4	13.7	13.4	14.1	14.3	13.9	13.4	13.4	12.8	12.3	12.1
138	10.8	11.2		11.2	11.7	11.9	11.9	12.3	12.6	12.6	13.2	13.0	12.3	12.1	11.9
144	9.3	9.7		9.7	10.1	10.4	10.4	10.8	11.0	11.2	11.7	12.1	11.5	11.7	11.7
151	7.9	8.2		8.4	8.6		9.0	9.3	9.5	9.7	10.1	10.8	9.9	10.4	10.6
158	6.8	7.1		7.1	7.3		7.7	8.2	8.2	8.6	8.8	9.5	8.6	9.0	9.3
164	5.5	5.7		6.0	6.2		6.6	6.8		7.3	7.7	8.2	7.5	7.9	8.2
171	4.6			4.9	5.1		5.5	5.7		6.4	6.6	7.1	6.4	6.8	7.1
184				3.1			3.7	4.0		4.4	4.6		4.6	4.9	4.9
197										2.9	3.1		2.9	3.1	


77,161 lbs
lbs x 1,000
SAE

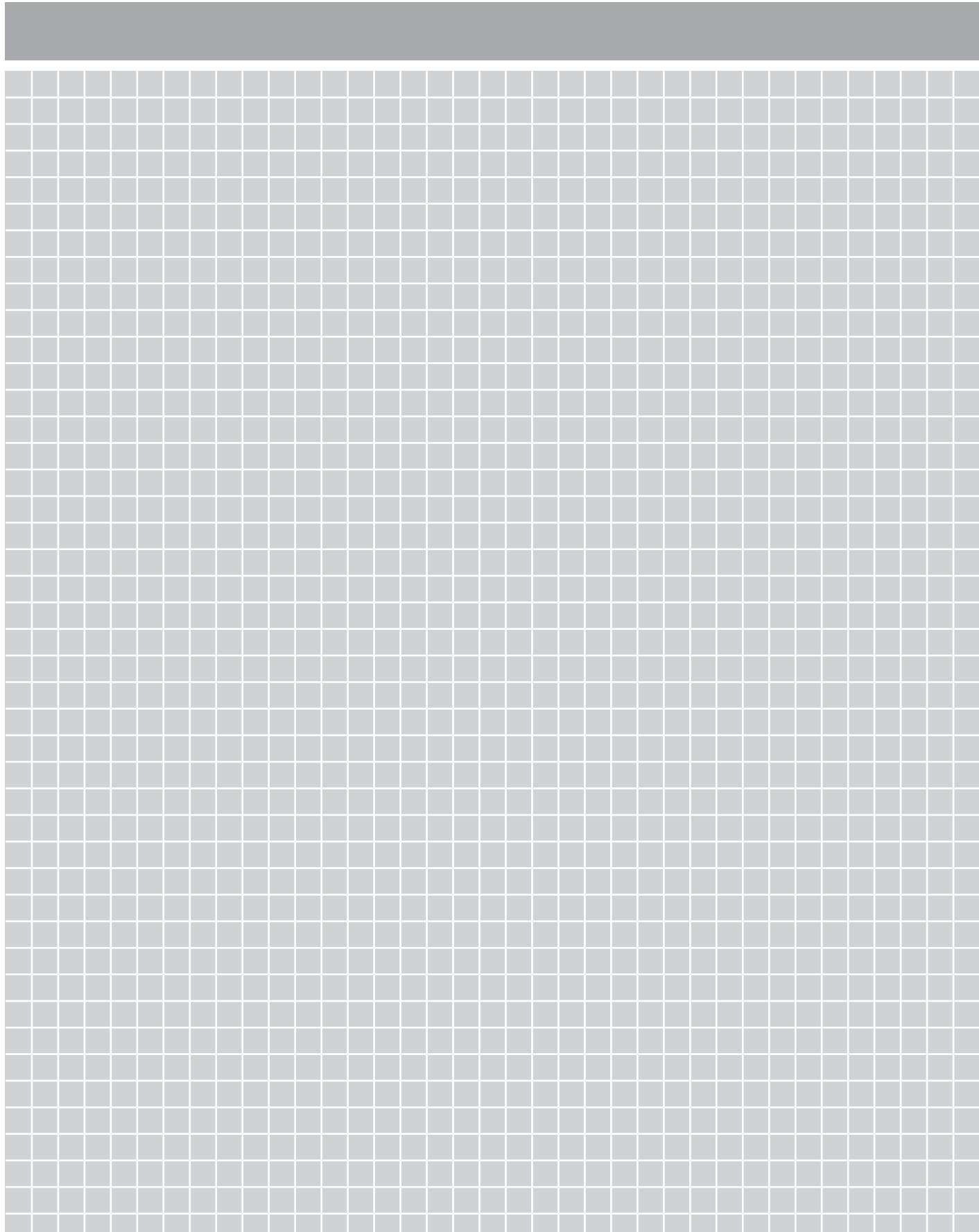
ft	43.4 ft + 3.7 ft + 15.3 ft			112.0 ft + 3.7 ft + 15.3 ft			125.7 ft + 3.7 ft + 15.3 ft			139.4 ft + 3.7 ft + 15.3 ft			153.1 ft + 3.7 ft + 15.3 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8	105.4														
11.5	99.6	67.2													
13.1	94.4	65.0													
14.8	89.9	63.1	50.0												
16.4	85.8	61.1	48.9												
19.7	78.5	57.8	47.4	85.3				66.8							
23.0	72.5	54.9	45.9	85.3											
26.2	67.5	52.5	44.5	85.3	63.3		66.8			52.9			43.7		
29.5	63.1	50.3	43.4	85.3	61.5	47.6	66.8	63.7		52.9	52.9		43.7		
32.8	59.3	48.3	42.5	84.9	59.7	47.0	66.8	61.9	47.8	52.9	52.9		43.7	37.5	
36.1	56.2	46.7	41.4	80.2	58.2	46.3	66.8	60.4	47.2	52.9	52.9	47.8	42.3	36.2	32.6
39.4	53.1	44.5	40.6	76.1	56.9	45.6	66.8	59.1	46.5	52.9	52.9	47.2	40.6	35.1	31.7
45.9	45.9	41.0		68.8	54.2	44.3	63.7	56.4	45.4	52.9	52.0	46.1	37.7	32.8	30.0
52.5	40.1			56.0	51.8	43.4	58.0	54.0	44.3	50.0	48.3	45.0	35.1	31.1	28.4
59.1				45.4	47.4	42.5	48.1	49.8	43.4	46.5	45.0	44.1	33.1	29.3	27.1
65.6				37.5	39.2	40.1	40.1	41.7	42.5	39.7	41.2	41.4	31.3	28.0	26.0
72.2				31.1	32.6	33.5	33.7	35.1	35.9	33.5	34.6	35.5	29.8	26.9	25.1
78.7				25.8	27.1	27.8	28.4	29.8	30.4	28.2	29.3	30.2	28.4	25.8	24.3
85.3				21.4	22.5	23.1	24.3	25.4	25.8	23.8	24.7	25.6	25.1	24.9	23.6
91.9				17.9	18.7	19.2	20.5	21.4	21.8	20.1	20.9	21.6	21.4	22.5	22.9
98.4				14.8	15.4	15.7	17.4	18.3	18.5	17.0	17.6	18.3	18.3	19.4	19.8
105				12.1	12.8		14.8	15.4	15.7	14.3	15.0	15.4	15.7	16.5	17.0
112				9.9	10.4		12.3	13.0		11.9	12.6	12.8	13.2	14.1	14.3
118				7.9			10.4	10.8		9.9	10.4	10.6	11.2	11.9	12.1
125							8.6	9.0		8.2	8.6		9.5	9.9	10.1
131							7.1			6.6	6.8		7.7	8.4	
138										5.1	5.3		6.4	6.8	
144										4.0	4.0		5.1	5.5	
151												4.0	4.0	4.2	
158												2.9			

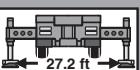
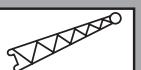
ft	166.9 ft + 3.7 ft + 15.3 ft			180.6 ft + 3.7 ft + 15.3 ft			194.3 ft + 3.7 ft + 15.3 ft			208.0 ft + 3.7 ft + 15.3 ft			223.1 ft + 3.7 ft + 15.3 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
32.8	39.2			34.2			28.4								
36.1	39.2	34.8		34.2	30.9										
39.4	37.9	33.7		34.2											
45.9	35.5	31.7	29.1	32.4	29.3	27.1	28.4	26.5		24.0	22.3		22.0		
52.5	33.5	30.0	27.8	30.6	27.8	25.8	27.1	25.1	23.8	22.7	21.2	20.3	20.7	19.4	
59.1	31.7	28.4	26.5	29.1	26.5	24.7	25.6	24.0	22.9	21.6	20.3	19.4	19.8	18.5	17.9
65.6	30.0	27.1	25.4	27.8	25.4	23.6	24.5	22.9	22.0	20.5	19.2	18.5	19.0	17.6	17.2
72.2	28.4	25.8	24.3	26.7	24.3	22.7	23.1	22.0	21.2	19.6	18.5	17.9	18.1	17.0	16.3
78.7	27.3	24.9	23.4	25.4	23.1	22.0	22.3	21.2	20.3	18.7	17.6	17.0	17.2	16.3	15.7
85.3	25.4	23.8	22.7	24.3	22.3	21.2	21.4	20.3	19.6	18.1	17.0	16.5	16.5	15.7	15.2
91.9	21.6	22.5	21.8	22.0	21.6	20.5	20.5	19.4	19.0	17.2	16.5	15.9	15.9	15.2	14.8
98.4	18.5	19.4	19.8	19.0	19.6	19.8	19.6	18.7	18.3	16.5	15.9	15.4	15.2	14.8	14.3
105	15.7	16.5	17.0	16.1	17.0	17.4	16.8	17.6	17.9	15.9	15.4	15.0	14.6	14.1	13.9
112	13.4	14.1	14.6	13.9	14.6	15.0	14.6	15.2	15.7	15.2	14.8	14.6	14.1	13.7	13.4
118	11.2	11.9	12.3	11.7	12.3	12.8	12.3	13.0	13.4	13.2	13.9	14.1	13.4	13.2	13.0
125	9.5	10.1	10.4	9.9	10.6	10.8	10.6	11.2	11.5	11.5	11.9	12.8	11.7	12.3	12.6
131	7.9	8.4	8.6	8.4	8.8	9.0	9.0	9.5	9.7	9.7	10.4	11.0	9.9	10.6	11.0
138	6.4	6.8		6.8	7.3	7.5	7.5	7.9	8.2	8.4	8.8	9.5	8.6	9.0	9.5
144	5.1	5.5		5.5	6.0	6.2	6.2	6.6	6.8	7.1	7.5	7.9	7.7	7.7	7.9
151	4.0	4.2		4.4	4.6		5.1	5.3	5.5	5.7	6.2	6.8	6.0	6.4	6.6
158	2.9	3.1		3.3	3.5		4.0	4.2	4.4	4.6	5.1	5.5	4.9	5.3	5.5
164					2.4		2.9	3.3		3.7	4.0	4.4	4.0	4.2	4.4
171										2.9	3.1	3.5			


51,808 lbs
lbs x 1,000
SAE

ft	43.4 ft + 3.7 ft + 15.3 ft			112.0 ft + 3.7 ft + 15.3 ft			125.7 ft + 3.7 ft + 15.3 ft			139.4 ft + 3.7 ft + 15.3 ft			153.1 ft + 3.7 ft + 15.3 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8	105.4														
11.5	99.6	67.2													
13.1	94.4	65.0													
14.8	89.9	63.1	50.0												
16.4	85.8	61.1	48.9												
19.7	78.5	57.8	47.4	85.3			66.8								
23.0	72.5	54.9	45.9	85.3											
26.2	67.5	52.5	44.5	85.3	63.3		66.8			52.9			43.7		
29.5	63.1	50.3	43.4	85.3	61.5	47.6	66.8	63.7		52.9	52.9		43.7		
32.8	59.3	48.3	42.5	84.9	59.7	47.0	66.8	61.9	47.8	52.9	52.9		43.7	37.5	
36.1	56.2	46.7	41.4	77.6	58.2	46.3	66.8	60.4	47.2	52.9	52.9	47.8	42.3	36.2	32.6
39.4	53.1	44.5	40.6	68.6	56.9	45.6	66.8	59.1	46.5	52.9	52.9	47.2	40.6	35.1	31.7
45.9	45.9	41.0		54.9	54.2	44.3	56.4	56.4	45.4	52.9	52.0	46.1	37.7	32.8	30.0
52.5	40.1			43.7	46.1	43.4	46.5	48.5	44.3	44.5	46.5	45.0	35.1	31.1	28.4
59.1				34.8	36.8	38.1	37.5	39.2	40.6	37.0	38.8	40.1	33.1	29.3	27.1
65.6				27.8	29.8	30.9	30.6	32.4	33.3	30.4	31.7	32.8	31.3	28.0	26.0
72.2				22.0	23.6	24.7	24.9	26.5	27.6	24.5	26.0	27.1	26.0	26.9	25.1
78.7				17.4	19.0	19.6	20.3	21.6	22.5	19.8	21.2	22.0	21.4	22.7	23.6
85.3				13.7	15.0	15.4	16.5	17.6	18.3	16.1	17.2	17.9	17.4	18.7	19.6
91.9				10.6	11.7	12.1	13.4	14.6	15.0	13.0	13.9	14.6	14.3	15.4	16.1
98.4				8.2	8.8	9.0	10.8	11.7	12.1	10.4	11.2	11.7	11.7	12.8	13.2
105				6.0	6.4		8.6	9.3	9.5	8.2	8.8	9.3	9.5	10.4	10.8
112				4.0	4.4		6.6	7.3		6.2	6.6	7.1	7.5	8.2	8.6
118				2.4			4.9	5.3		4.4	4.9	5.1	5.7	6.4	6.8
125							3.5	3.7		2.9	3.3		4.2	4.9	5.1
131												2.9		3.3	

ft	166.9 ft + 3.7 ft + 15.3 ft			180.6 ft + 3.7 ft + 15.3 ft			194.3 ft + 3.7 ft + 15.3 ft			208.0 ft + 3.7 ft + 15.3 ft			223.1 ft + 3.7 ft + 15.3 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
32.8	39.2			34.2			28.4								
36.1	39.2	34.8		34.2	30.9										
39.4	37.9	33.7		34.2			28.4								
45.9	35.5	31.7	29.1	32.4	29.3	27.1	28.4	26.5		24.0	22.3		22.0		
52.5	33.5	30.0	27.8	30.6	27.8	25.8	27.1	25.1	23.8	22.7	21.2	20.3	20.7	19.4	
59.1	31.7	28.4	26.5	29.1	26.5	24.7	25.6	24.0	22.9	21.6	20.3	19.4	19.8	18.5	17.9
65.6	30.0	27.1	25.4	27.8	25.4	23.6	24.5	22.9	22.0	20.5	19.2	18.5	19.0	17.6	17.2
72.2	26.2	25.8	24.3	26.2	24.3	22.7	23.1	22.0	21.2	19.6	18.5	17.9	18.1	17.0	16.3
78.7	21.6	22.9	23.4	22.0	23.1	22.0	22.3	21.2	20.3	18.7	17.6	17.0	17.2	16.3	15.7
85.3	17.9	19.0	19.6	18.3	19.4	20.1	19.0	20.1	19.6	18.1	17.0	16.5	16.5	15.7	15.2
91.9	14.6	15.7	16.3	15.0	16.1	16.8	15.7	16.8	17.4	16.5	16.5	15.9	15.9	15.2	14.8
98.4	11.9	12.8	13.4	12.3	13.2	13.9	13.0	13.9	14.6	13.9	14.8	15.4	14.3	14.8	14.3
105	9.7	10.4	10.8	9.9	10.8	11.2	10.8	11.5	12.1	11.5	12.3	13.4	11.9	12.8	13.2
112	7.5	8.4	8.8	7.9	8.8	9.3	8.6	9.5	9.9	9.5	10.1	11.2	9.9	10.6	11.0
118	6.0	6.4	6.8	6.2	6.8	7.3	7.1	7.5	7.9	7.7	8.4	9.3	8.2	8.8	9.3
125	4.4	4.9	5.1	4.9	5.3	5.7	5.5	6.0	6.4	6.2	6.8	7.7	6.6	7.1	7.5
131		3.5	3.7			4.2		4.6	4.9	4.9	5.3	6.2		5.7	6.2
138												4.9			

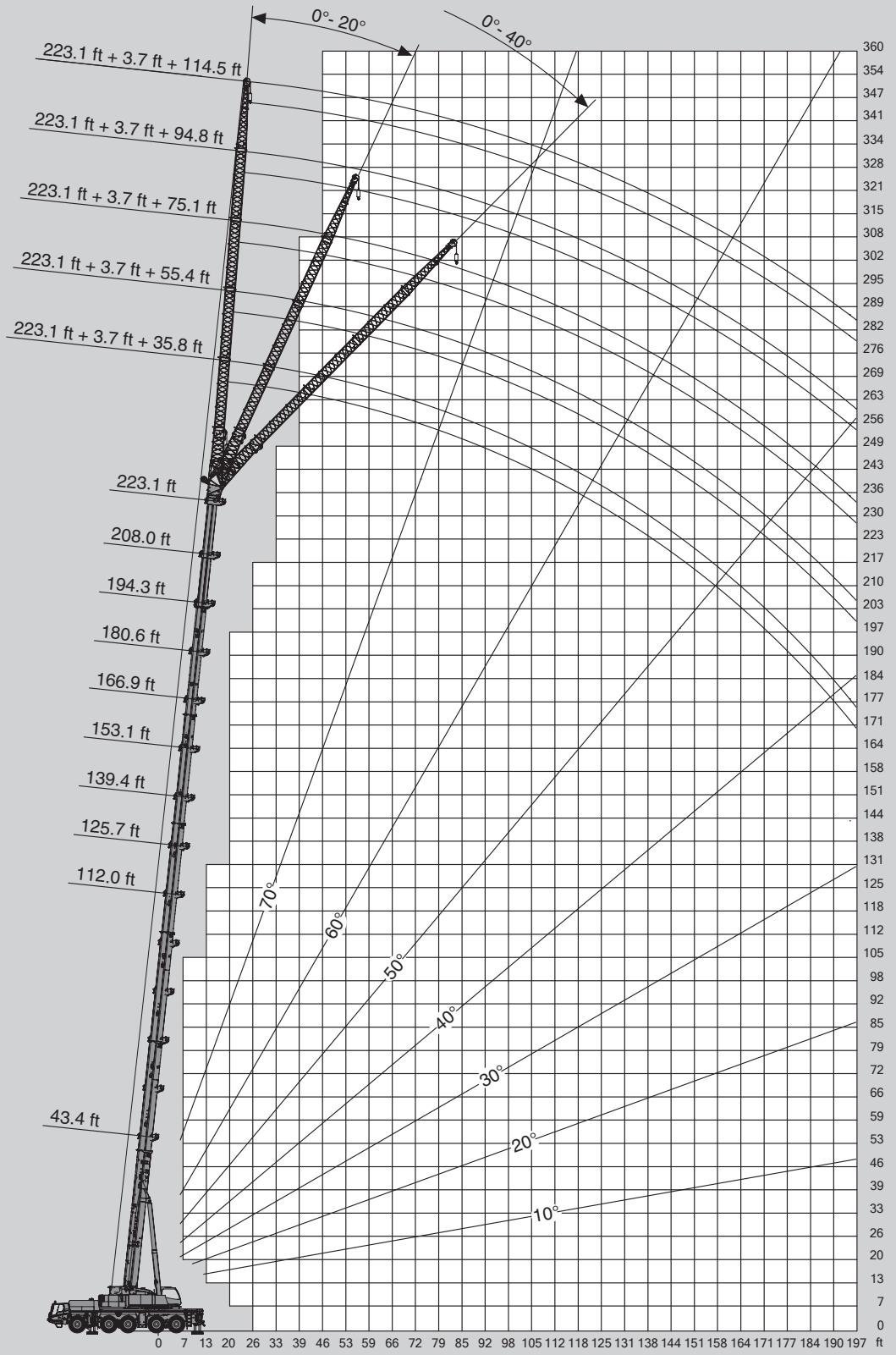


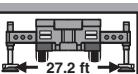
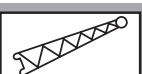
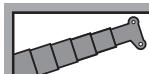


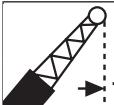
156,527 lbs

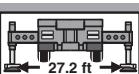
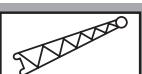
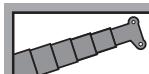
lbs x 1,000

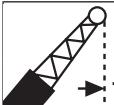
SAE

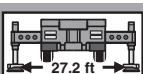
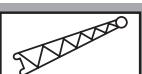
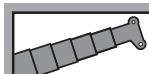


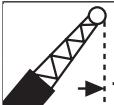

156,527 lbs
lbs x 1,000
SAE

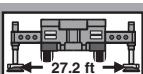
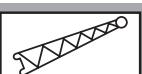
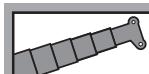
 ft	43.4 ft + 3.7 ft + 35.8 ft			112.0 ft + 3.7 ft + 35.8 ft			166.9 ft + 3.7 ft + 35.8 ft			208.0 ft + 3.7 ft + 35.8 ft			223.1 ft + 3.7 ft + 35.8 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8	43.4														
11.5	43.2														
13.1	42.1														
14.8	41.0														
16.4	39.7														
19.7	37.5	31.1		41.9											
23.0	35.3	29.1		40.6											
26.2	33.3	27.3		39.2											
29.5	31.5	25.6	21.4	38.1											
32.8	29.8	24.3	20.5	36.8	29.3		28.9								
36.1	28.4	23.1	19.6	35.7	28.4		28.9								
39.4	27.1	22.0	19.0	34.6	27.3		28.9								
45.9	24.3	20.1	17.9	32.4	25.6	20.3	28.7	23.8		16.5					
52.5	21.6	18.5	17.0	30.6	24.3	19.6	26.9	22.7		16.5			14.6		
59.1	19.4	17.4	16.3	28.9	22.9	19.0	25.6	21.6	19.2	16.5	16.1		14.6		
65.6	17.6	16.5		27.3	21.6	18.3	24.3	20.5	18.5	16.5	15.4		14.6	14.3	
72.2	16.3	15.9		26.0	20.7	17.9	23.1	19.6	17.9	15.9	14.8	13.7	14.6	13.7	12.8
78.7				24.9	19.8	17.4	22.0	18.7	17.2	15.2	14.1	13.2	14.1	13.2	12.3
85.3				23.8	19.0	17.0	21.2	18.1	16.5	14.8	13.4	12.8	13.4	12.6	11.9
91.9				22.3	18.3	16.5	20.1	17.4	16.1	14.3	13.0	12.3	13.2	12.1	11.5
98.4				21.2	17.6	16.3	19.2	16.8	15.7	13.7	12.6	11.9	12.8	11.7	11.0
105				20.1	17.2	16.1	18.5	16.1	15.2	13.2	12.1	11.5	12.1	11.2	10.8
112				19.0	16.8	15.9	17.9	15.7	14.8	12.8	11.7	11.2	11.7	11.0	10.4
118				18.1	16.3		17.2	15.2	14.3	12.3	11.5	10.8	11.5	10.6	10.1
125				17.4	16.1		16.8	14.8	14.1	11.9	11.0	10.6	11.0	10.4	9.7
131				16.8	15.9		16.1	14.3	13.7	11.5	10.8	10.1	10.6	9.9	9.5
138				16.1			15.7	14.1	13.4	11.2	10.6	9.9	10.4	9.7	9.3
144							15.4	13.7	13.2	10.8	10.1	9.7	9.9	9.5	9.0
151							15.0	13.4	13.0	10.6	9.9	9.5	9.7	9.3	8.8
158							14.1	13.2	12.8	10.1	9.7	9.5	9.5	9.0	8.6
164							13.4	13.0		9.9	9.5	9.3	9.3	8.8	8.6
171							12.6	12.8		9.7	9.3	9.0	8.8	8.6	8.4
184							10.4	10.8		8.8	8.8	8.6	8.4	8.2	7.9
197							7.3			7.9	7.9		7.7	7.7	7.7
210										7.1	7.3		6.8	7.1	
223										6.4	6.6		6.2	6.2	
236										5.3			4.9	5.1	
249													3.7		

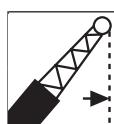

156,527 lbs
lbs x 1,000
SAE

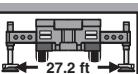
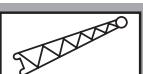
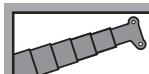
 ft	43.4 ft + 3.7 ft + 55.4 ft			112.0 ft + 3.7 ft + 55.4 ft			166.9 ft + 3.7 ft + 55.4 ft			208.0 ft + 3.7 ft + 55.4 ft			223.1 ft + 3.7 ft + 55.4 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8	38.8														
11.5	38.1														
13.1	37.5														
14.8	36.8														
16.4	35.9														
19.7	34.2														
23.0	32.6			32.2											
26.2	31.1			32.2											
29.5	29.8	24.5		31.7											
32.8	28.2	22.9		30.9											
36.1	27.1	21.4		30.0			18.3								
39.4	25.6	20.1		29.3			18.3								
45.9	22.0	17.9	15.0	27.8	22.0		18.3								
52.5	19.2	16.1	13.7	26.5	20.7		18.3			12.3					
59.1	17.0	14.8	12.8	25.1	19.4	14.6	18.3	17.2		12.3			11.2		
65.6	15.2	13.4	11.9	24.0	18.3	13.9	18.3	16.3		12.3			11.2		
72.2	13.9	12.6	11.2	22.9	17.2	13.2	18.3	15.7		12.3	12.1		11.2		
78.7	12.6	11.7	10.6	21.2	16.1	12.8	17.9	15.0	13.2	12.3	11.5		11.2	10.8	
85.3	11.5	10.8		19.6	15.2	12.3	17.2	14.6	13.0	12.3	11.0		11.2	10.4	
91.9	10.6	10.4		18.3	14.3	11.9	16.5	13.9	12.6	11.9	10.8	9.9	11.0	10.1	9.3
98.4				17.0	13.7	11.5	15.9	13.4	12.1	11.5	10.4	9.5	10.6	9.7	9.0
105				15.9	13.0	11.2	15.2	13.0	11.9	11.0	9.9	9.3	10.1	9.3	8.6
112				15.0	12.6	10.8	14.6	12.6	11.5	10.8	9.7	9.0	10.1	9.0	8.4
118				14.1	11.9	10.6	14.1	12.3	11.2	10.4	9.3	8.6	9.7	8.8	8.2
125				13.4	11.5	10.4	13.7	11.9	11.0	10.1	9.0	8.4	9.3	8.4	7.9
131				12.8	11.0	10.1	13.2	11.7	10.8	9.7	8.8	8.2	9.0	8.2	7.7
138				12.1	10.8		12.8	11.2	10.4	9.5	8.4	7.9	8.8	7.9	7.5
144				11.5	10.4		12.6	11.0	10.1	9.0	8.2	7.7	8.4	7.7	7.3
151				11.0	10.1		12.1	10.8	10.1	8.8	7.9	7.7	8.2	7.5	7.1
158				10.6			11.9	10.6	9.9	8.6	7.7	7.5	7.9	7.3	6.8
164							11.7	10.4	9.7	8.4	7.5	7.3	7.7	7.1	6.6
171							11.5	10.1	9.5	8.2	7.5	7.1	7.5	6.8	6.6
184							10.6	9.9		7.7	7.1	6.8	7.1	6.6	6.4
197							9.3	9.7		7.1	6.8	6.6	6.6	6.4	6.2
210							7.5			6.4	6.4	6.4	6.2	6.0	6.0
223										5.7	6.0		5.5	5.7	
236										5.3	5.3		4.9	5.1	
249										4.2			4.0	4.4	
263													2.9		


156,527 lbs
lbs x 1,000
SAE

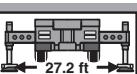
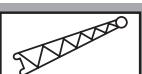
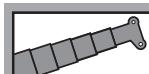
 ft	43.4 ft + 3.7 ft + 75.1 ft			112.0 ft + 3.7 ft + 75.1 ft			166.9 ft + 3.7 ft + 75.1 ft			208.0 ft + 3.7 ft + 75.1 ft			223.1 ft + 3.7 ft + 75.1 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
11.5	24.5														
13.1	24.5														
14.8	24.5														
16.4	24.0														
19.7	23.1														
23.0	22.3														
26.2	21.4			19.6											
29.5	20.5			19.6											
32.8	19.6			19.6											
36.1	19.0			19.6											
39.4	18.1	16.8		19.6											
45.9	16.8	15.0		19.0			13.2								
52.5	15.4	13.4		18.1			13.2								
59.1	14.1	12.1		17.2	14.3		13.2								
65.6	12.6	11.0	9.5	16.3	13.4		13.2			9.5			8.8		
72.2	11.2	10.1	8.8	15.7	13.0		13.2	12.1		9.5			8.8		
78.7	10.4	9.3	8.4	15.0	12.1	9.3	13.2	11.7		9.5			8.8		
85.3	9.5	8.6	7.7	14.3	11.5	9.0	13.2	11.5		9.5	9.3		8.8		
91.9	8.6	7.9	7.5	13.7	10.8	8.6	13.0	11.0	8.8	9.5	8.8		8.8	8.4	
98.4	8.2	7.5	7.1	13.0	10.4	8.4	12.6	10.6	8.6	9.5	8.6		8.8	7.9	
105	7.5	7.1		12.6	9.7	7.9	12.3	10.4	8.4	9.5	8.2	7.5	8.6	7.7	
112	7.1	6.6		11.9	9.3	7.7	11.9	10.1	8.2	9.0	7.9	7.3	8.4	7.5	6.8
118				11.2	8.8	7.5	11.7	9.9	7.9	8.6	7.7	7.1	7.9	7.3	6.6
125				10.6	8.6	7.3	11.2	9.5	7.7	8.4	7.5	6.8	7.7	7.1	6.4
131				9.9	8.2	7.1	10.8	9.3	7.7	8.2	7.1	6.6	7.5	6.8	6.2
138				9.3	7.9	7.1	10.6	9.0	7.5	7.9	6.8	6.4	7.3	6.6	6.2
144				8.8	7.5	6.8	10.1	8.6	7.3	7.5	6.6	6.2	7.1	6.4	6.0
151				8.4	7.3	6.6	9.9	8.4	7.1	7.3	6.6	6.2	6.8	6.2	5.7
158				7.9	7.1		9.7	8.2	7.1	7.1	6.4	6.0	6.6	6.0	5.5
164				7.5	6.8		9.5	7.9	6.8	6.8	6.2	5.7	6.4	5.7	5.5
171				7.1	6.6		9.0	7.7	6.8	6.6	6.0	5.7	6.2	5.5	5.3
184							8.6	7.3	6.6	6.4	5.7	5.3	6.0	5.3	5.1
197							7.9	7.1	6.6	6.0	5.3	5.1	5.5	5.1	4.9
210							7.5	6.6		5.5	5.1	4.9	5.3	4.9	4.4
223							6.4	6.4		5.3	4.9	4.6	4.9	4.6	4.4
236										4.6	4.6		4.4	4.4	4.2
249										4.0	4.2		3.7	4.2	
263										3.3	3.7		3.1	3.5	
276										2.4				2.4	

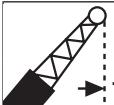

156,527 lbs
lbs x 1,000
SAE

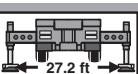
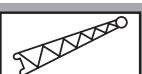
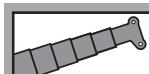
 ft	43.4 ft + 3.7 ft + 94.8 ft			112.0 ft + 3.7 ft + 94.8 ft			166.9 ft + 3.7 ft + 94.8 ft			208.0 ft + 3.7 ft + 94.8 ft			223.1 ft + 3.7 ft + 94.8 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
16.4	14.3														
19.7	14.3														
23.0	14.3														
26.2	14.3														
29.5	14.3			13.7											
32.8	14.3			13.7											
36.1	14.1			13.7											
39.4	13.7			13.7											
45.9	12.8			13.4											
52.5	11.9	10.8		12.8			9.7								
59.1	11.0	9.9		12.3			9.7								
65.6	10.4	9.3		11.9	9.9		9.7			7.3			6.8		
72.2	9.7	8.6		11.5	9.5		9.7			7.3			6.8		
78.7	9.0	7.9	6.8	10.8	9.0		9.7	8.6		7.3			6.8		
85.3	8.4	7.3	6.4	10.4	8.6		9.5	8.2		7.3			6.8		
91.9	7.5	6.6	6.0	9.9	8.4	6.6	9.3	7.9		7.3			6.8		
98.4	6.8	6.2	5.5	9.5	7.9	6.4	9.0	7.7		7.3	6.8		6.8		
105	6.4	5.7	5.3	9.3	7.7	6.2	8.8	7.5		7.3	6.6		6.8	6.4	
112	5.7	5.3	5.1	8.8	7.3	5.7	8.6	7.3	6.0	7.3	6.6		6.8	6.2	
118	5.3	5.1	4.9	8.6	6.8	5.5	8.4	7.1	6.0	7.3	6.4		6.8	6.0	
125	5.1	4.9		8.2	6.6	5.5	8.2	6.8	5.7	7.1	6.2	5.5	6.6	5.7	
131	4.6	4.4		7.9	6.2	5.3	7.9	6.6	5.5	6.8	6.0	5.3	6.4	5.5	5.1
138				7.3	6.0	5.1	7.7	6.4	5.3	6.6	5.7	5.3	6.2	5.3	4.9
144				6.8	5.7	4.9	7.5	6.4	5.3	6.4	5.5	5.1	6.0	5.3	4.9
151				6.6	5.5	4.9	7.3	6.2	5.1	6.2	5.3	4.9	5.5	5.1	4.6
158				6.2	5.3	4.6	7.1	6.0	5.1	6.0	5.1	4.9	5.3	4.9	4.4
164				6.0	5.1	4.6	7.1	6.0	4.9	5.7	5.1	4.6	5.3	4.6	4.4
171				5.5	4.9	4.4	6.8	5.7	4.9	5.5	4.9	4.4	5.1	4.4	4.2
184				5.1	4.6		6.4	5.3	4.6	5.1	4.6	4.2	4.9	4.2	4.0
197				4.6			6.0	5.1	4.4	4.9	4.2	4.0	4.4	4.0	3.7
210							5.5	4.9	4.4	4.4	4.0	3.7	4.2	3.7	3.5
223							5.1	4.6		4.2	3.7	3.5	4.0	3.5	3.3
236							4.9	4.4		3.7	3.5	3.3	3.7	3.3	3.1
249							4.4			3.5	3.3	3.1	3.3	3.1	2.9
263										3.1	3.1		2.9		2.9
276										2.4	2.9		2.6		

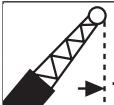

156,527 lbs
lbs x 1,000
SAE

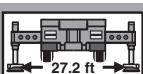
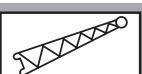
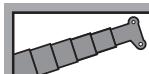
ft	43.4 ft + 3.7 ft + 114.5 ft			112.0 ft + 3.7 ft + 114.5 ft			166.9 ft + 3.7 ft + 114.5 ft			208.0 ft + 3.7 ft + 114.5 ft			223.1 ft + 3.7 ft + 114.5 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
19.7	10.4														
23.0	10.4														
26.2	10.4														
29.5	10.4														
32.8	10.4														
36.1	10.4			9.9											
39.4	9.9			9.9											
45.9	9.5			9.5											
52.5	8.8			9.3											
59.1	8.4			8.8											
65.6	7.9	7.3		8.4			7.3			5.7			5.3		
72.2	7.5	6.8		8.2			7.1			5.7			5.3		
78.7	7.1	6.4		7.7	6.6		6.8			5.5			5.3		
85.3	6.6	6.0		7.5	6.4		6.6			5.5			5.1		
91.9	6.2	5.7		7.3	6.2		6.4	5.5		5.3			5.1		
98.4	6.0	5.3	4.6	6.8	6.0		6.4	5.3		5.3			4.9		
105	5.5	4.9	4.2	6.6	5.7		6.2	5.3		5.1			4.9		
112	4.9	4.4	4.0	6.4	5.5	4.4	6.0	5.1		5.1	4.4		4.9		
118	4.6	4.2	3.7	6.2	5.3	4.2	5.7	4.9		5.1	4.4		4.6		
125	4.2	3.7	3.5	6.0	5.1	4.0	5.7	4.9		4.9	4.2		4.6		
131	3.7	3.5	3.3	5.7	4.9	4.0	5.5	4.6	4.0	4.9	4.2		4.6		
138	3.5	3.3	3.1	5.5	4.6	3.7	5.3	4.6	4.0	4.6	4.0		4.4		
144	3.3	3.1		5.3	4.4	3.5	5.3	4.4	3.7	4.6	4.0		4.4		
151	2.9	2.9		5.3	4.2	3.5	5.1	4.4	3.7	4.4	4.0		4.2		
158				4.9	4.0	3.3	5.1	4.2	3.5	4.4	3.7		4.2		
164				4.6	3.7	3.3	4.9	4.2	3.5	4.4	3.7		4.2		
171				4.4	3.5	3.1	4.6	4.0	3.3	4.2	3.7		4.0		
184				4.0	3.3	3.1	4.4	3.7	3.3	4.0	3.5		3.7		
197				3.5	3.1		4.4	3.5	3.1	3.7	3.3		3.5		
210				3.1	2.9		4.2	3.3	2.9	3.5	3.1		3.3		
223							3.7	3.1	2.9	3.3	2.9		2.9		
236							3.5	3.1	2.9	2.9	2.6		2.6		
249							3.3	2.9		2.4	2.2		2.4		
263							2.9	2.9		2.2			2.2		

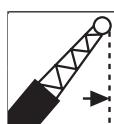

103,616 lbs
Lbs x 1,000
SAE

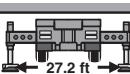
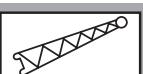
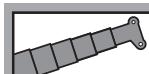
 ft	43.4 ft + 3.7 ft + 35.8 ft			112.0 ft + 3.7 ft + 35.8 ft			166.9 ft + 3.7 ft + 35.8 ft			208.0 ft + 3.7 ft + 35.8 ft			223.1 ft + 3.7 ft + 35.8 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8	43.4														
11.5	43.2														
13.1	42.1														
14.8	41.0														
16.4	39.7														
19.7	37.5	31.1		41.9											
23.0	35.3	29.1		40.6											
26.2	33.3	27.3		39.2											
29.5	31.5	25.6	21.4	38.1											
32.8	29.8	24.3	20.5	36.8	29.3		28.9								
36.1	28.4	23.1	19.6	35.7	28.4		28.9								
39.4	27.1	22.0	19.0	34.6	27.3		28.9								
45.9	24.3	20.1	17.9	32.4	25.6	20.3	28.7	23.8		16.5					
52.5	21.6	18.5	17.0	30.6	24.3	19.6	26.9	22.7		16.5			14.6		
59.1	19.4	17.4	16.3	28.9	22.9	19.0	25.6	21.6	19.2	16.5	16.1		14.6		
65.6	17.6	16.5		27.3	21.6	18.3	24.3	20.5	18.5	16.5	15.4		14.6	14.3	
72.2	16.3	15.9		26.0	20.7	17.9	23.1	19.6	17.9	15.9	14.8	13.7	14.6	13.7	12.8
78.7				24.9	19.8	17.4	22.0	18.7	17.2	15.2	14.1	13.2	14.1	13.2	12.3
85.3				23.8	19.0	17.0	21.2	18.1	16.5	14.8	13.4	12.8	13.4	12.6	11.9
91.9				22.3	18.3	16.5	20.1	17.4	16.1	14.3	13.0	12.3	13.2	12.1	11.5
98.4				21.2	17.6	16.3	19.2	16.8	15.7	13.7	12.6	11.9	12.8	11.7	11.0
105				20.1	17.2	16.1	18.5	16.1	15.2	13.2	12.1	11.5	12.1	11.2	10.8
112				17.9	16.8	15.9	17.9	15.7	14.8	12.8	11.7	11.2	11.7	11.0	10.4
118				15.7	16.3		17.2	15.2	14.3	12.3	11.5	10.8	11.5	10.6	10.1
125				13.7	14.6		15.4	14.8	14.1	11.9	11.0	10.6	11.0	10.4	9.7
131				11.7	12.6		13.7	14.3	13.7	11.5	10.8	10.1	10.6	9.9	9.5
138				10.1			11.9	13.0	13.4	11.2	10.6	9.9	10.4	9.7	9.3
144							10.4	11.5	12.6	10.8	10.1	9.7	9.9	9.5	9.0
151							9.0	9.9	10.8	10.6	9.9	9.5	9.7	9.3	8.8
158							7.9	8.6	9.5	9.5	9.7	9.5	9.3	9.0	8.6
164							6.8	7.5		8.4	9.3	9.3	7.9	8.8	8.6
171							5.7	6.4		7.3	8.2	8.6	7.1	7.9	8.4
184							4.0	4.4		5.3	6.2	6.4	5.1	6.0	6.4
197							2.6			3.7	4.4		3.5	4.2	4.6
210										2.4	2.9			2.6	

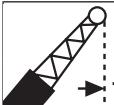

103,616 lbs
lbs x 1,000
SAE

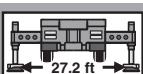
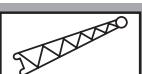
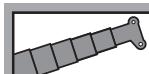
 ft	43.4 ft + 3.7 ft + 55.4 ft			112.0 ft + 3.7 ft + 55.4 ft			166.9 ft + 3.7 ft + 55.4 ft			208.0 ft + 3.7 ft + 55.4 ft			223.1 ft + 3.7 ft + 55.4 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8	38.8														
11.5	38.1														
13.1	37.5														
14.8	36.8														
16.4	35.9														
19.7	34.2														
23.0	32.6			32.2											
26.2	31.1			32.2											
29.5	29.8	24.5		31.7											
32.8	28.2	22.9		30.9											
36.1	27.1	21.4		30.0			18.3								
39.4	25.6	20.1		29.3			18.3								
45.9	22.0	17.9	15.0	27.8	22.0		18.3								
52.5	19.2	16.1	13.7	26.5	20.7		18.3			12.3					
59.1	17.0	14.8	12.8	25.1	19.4	14.6	18.3	17.2		12.3			11.2		
65.6	15.2	13.4	11.9	24.0	18.3	13.9	18.3	16.3		12.3			11.2		
72.2	13.9	12.6	11.2	22.9	17.2	13.2	18.3	15.7		12.3	12.1		11.2		
78.7	12.6	11.7	10.6	21.2	16.1	12.8	17.9	15.0	13.2	12.3	11.5		11.2	10.8	
85.3	11.5	10.8		19.6	15.2	12.3	17.2	14.6	13.0	12.3	11.0		11.2	10.4	
91.9	10.6	10.4		18.3	14.3	11.9	16.5	13.9	12.6	11.9	10.8	9.9	11.0	10.1	9.3
98.4				17.0	13.7	11.5	15.9	13.4	12.1	11.5	10.4	9.5	10.6	9.7	9.0
105				15.9	13.0	11.2	15.2	13.0	11.9	11.0	9.9	9.3	10.1	9.3	8.6
112				15.0	12.6	10.8	14.6	12.6	11.5	10.8	9.7	9.0	10.1	9.0	8.4
118				14.1	11.9	10.6	14.1	12.3	11.2	10.4	9.3	8.6	9.7	8.8	8.2
125				13.4	11.5	10.4	13.7	11.9	11.0	10.1	9.0	8.4	9.3	8.4	7.9
131				12.8	11.0	10.1	13.2	11.7	10.8	9.7	8.8	8.2	9.0	8.2	7.7
138				11.7	10.8		12.8	11.2	10.4	9.5	8.4	7.9	8.8	7.9	7.5
144				10.1	10.4		11.5	11.0	10.1	9.0	8.2	7.7	8.4	7.7	7.3
151				8.8	9.9		10.1	10.8	10.1	8.8	7.9	7.7	8.2	7.5	7.1
158				7.7			8.8	10.4	9.9	8.6	7.7	7.5	7.9	7.3	6.8
164							7.7	9.0	9.7	8.4	7.5	7.3	7.7	7.1	6.6
171							6.6	7.9	8.6	7.5	7.5	7.1	7.3	6.8	6.6
184							4.9	5.7		5.7	6.8	6.8	5.5	6.6	6.4
197							3.3	4.0		4.2	5.1	5.7	3.7	4.9	5.5
210										2.9	3.5	4.0		3.3	4.0


103,616 lbs
lbs x 1,000
SAE

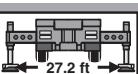
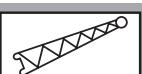
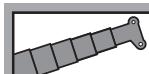
 ft	43.4 ft + 3.7 ft + 75.1 ft			112.0 ft + 3.7 ft + 75.1 ft			166.9 ft + 3.7 ft + 75.1 ft			208.0 ft + 3.7 ft + 75.1 ft			223.1 ft + 3.7 ft + 75.1 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
11.5	24.5														
13.1	24.5														
14.8	24.5														
16.4	24.0														
19.7	23.1														
23.0	22.3														
26.2	21.4			19.6											
29.5	20.5			19.6											
32.8	19.6			19.6											
36.1	19.0			19.6											
39.4	18.1	16.8		19.6											
45.9	16.8	15.0		19.0			13.2								
52.5	15.4	13.4		18.1			13.2								
59.1	14.1	12.1		17.2	14.3		13.2								
65.6	12.6	11.0	9.5	16.3	13.4		13.2			9.5			8.8		
72.2	11.2	10.1	8.8	15.7	13.0		13.2	12.1		9.5			8.8		
78.7	10.4	9.3	8.4	15.0	12.1	9.3	13.2	11.7		9.5			8.8		
85.3	9.5	8.6	7.7	14.3	11.5	9.0	13.2	11.5		9.5	9.3		8.8		
91.9	8.6	7.9	7.5	13.7	10.8	8.6	13.0	11.0	8.8	9.5	8.8		8.8	8.4	
98.4	8.2	7.5	7.1	13.0	10.4	8.4	12.6	10.6	8.6	9.5	8.6		8.8	7.9	
105	7.5	7.1		12.6	9.7	7.9	12.3	10.4	8.4	9.5	8.2	7.5	8.6	7.7	
112	7.1	6.6		11.9	9.3	7.7	11.9	10.1	8.2	9.0	7.9	7.3	8.4	7.5	6.8
118				11.2	8.8	7.5	11.7	9.9	7.9	8.6	7.7	7.1	7.9	7.3	6.6
125				10.6	8.6	7.3	11.2	9.5	7.7	8.4	7.5	6.8	7.7	7.1	6.4
131				9.9	8.2	7.1	10.8	9.3	7.7	8.2	7.1	6.6	7.5	6.8	6.2
138				9.3	7.9	7.1	10.6	9.0	7.5	7.9	6.8	6.4	7.3	6.6	6.2
144				8.8	7.5	6.8	10.1	8.6	7.3	7.5	6.6	6.2	7.1	6.4	6.0
151				8.4	7.3	6.6	9.9	8.4	7.1	7.3	6.6	6.2	6.8	6.2	5.7
158				7.9	7.1		9.5	8.2	7.1	7.1	6.4	6.0	6.6	6.0	5.5
164				7.5	6.8		8.4	7.9	6.8	6.8	6.2	5.7	6.4	5.7	5.5
171				6.8	6.6		7.3	7.7	6.8	6.6	6.0	5.7	6.2	5.5	5.3
184							5.3	6.8	6.6	6.0	5.7	5.3	5.7	5.3	5.1
197							3.7	4.9	5.5	4.4	5.3	5.1	4.0	5.1	4.9
210							2.4	3.3		3.1	4.2	4.9		4.0	4.4
223													3.3		


103,616 lbs
lbs x 1,000
SAE

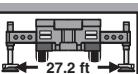
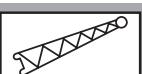
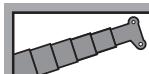
 ft	43.4 ft + 3.7 ft + 94.8 ft			112.0 ft + 3.7 ft + 94.8 ft			166.9 ft + 3.7 ft + 94.8 ft			208.0 ft + 3.7 ft + 94.8 ft			223.1 ft + 3.7 ft + 94.8 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
16.4	14.3														
19.7	14.3														
23.0	14.3														
26.2	14.3														
29.5	14.3			13.7											
32.8	14.3			13.7											
36.1	14.1			13.7											
39.4	13.7			13.7											
45.9	12.8			13.4											
52.5	11.9	10.8		12.8			9.7								
59.1	11.0	9.9		12.3			9.7								
65.6	10.4	9.3		11.9	9.9		9.7			7.3			6.8		
72.2	9.7	8.6		11.5	9.5		9.7			7.3			6.8		
78.7	9.0	7.9	6.8	10.8	9.0		9.7	8.6		7.3			6.8		
85.3	8.4	7.3	6.4	10.4	8.6		9.5	8.2		7.3			6.8		
91.9	7.5	6.6	6.0	9.9	8.4	6.6	9.3	7.9		7.3			6.8		
98.4	6.8	6.2	5.5	9.5	7.9	6.4	9.0	7.7		7.3	6.8		6.8		
105	6.4	5.7	5.3	9.3	7.7	6.2	8.8	7.5		7.3	6.6		6.8	6.4	
112	5.7	5.3	5.1	8.8	7.3	5.7	8.6	7.3	6.0	7.3	6.6		6.8	6.2	
118	5.3	5.1	4.9	8.6	6.8	5.5	8.4	7.1	6.0	7.3	6.4		6.8	6.0	
125	5.1	4.9		8.2	6.6	5.5	8.2	6.8	5.7	7.1	6.2	5.5	6.6	5.7	
131	4.6	4.4		7.9	6.2	5.3	7.9	6.6	5.5	6.8	6.0	5.3	6.4	5.5	5.1
138				7.3	6.0	5.1	7.7	6.4	5.3	6.6	5.7	5.3	6.2	5.3	4.9
144				6.8	5.7	4.9	7.5	6.4	5.3	6.4	5.5	5.1	6.0	5.3	4.9
151				6.6	5.5	4.9	7.3	6.2	5.1	6.2	5.3	4.9	5.5	5.1	4.6
158				6.2	5.3	4.6	7.1	6.0	5.1	6.0	5.1	4.9	5.3	4.9	4.4
164				6.0	5.1	4.6	7.1	6.0	4.9	5.7	5.1	4.6	5.3	4.6	4.4
171				5.5	4.9	4.4	6.8	5.7	4.9	5.5	4.9	4.4	5.1	4.4	4.2
184				5.1	4.6		5.7	5.3	4.6	5.1	4.6	4.2	4.9	4.2	4.0
197				4.2			4.2	5.1	4.4	4.6	4.2	4.0	4.2	4.0	3.7
210							2.9	4.2	4.4		4.0	3.7		3.7	3.5
223								2.6				3.5			

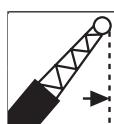

103,616 lbs
lbs x 1,000
SAE

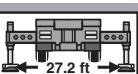
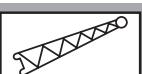
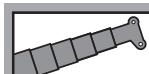
ft	43.4 ft + 3.7 ft + 114.5 ft			112.0 ft + 3.7 ft + 114.5 ft			166.9 ft + 3.7 ft + 114.5 ft			208.0 ft + 3.7 ft + 114.5 ft			223.1 ft + 3.7 ft + 114.5 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
19.7	10.4														
23.0	10.4														
26.2	10.4														
29.5	10.4														
32.8	10.4														
36.1	10.4			9.9											
39.4	9.9			9.9											
45.9	9.5			9.5											
52.5	8.8			9.3											
59.1	8.4			8.8											
65.6	7.9	7.3		8.4			7.3			5.7			5.3		
72.2	7.5	6.8		8.2			7.1			5.7			5.3		
78.7	7.1	6.4		7.7	6.6		6.8			5.5			5.3		
85.3	6.6	6.0		7.5	6.4		6.6			5.5			5.1		
91.9	6.2	5.7		7.3	6.2		6.4	5.5		5.3			5.1		
98.4	6.0	5.3	4.6	6.8	6.0		6.4	5.3		5.3			4.9		
105	5.5	4.9	4.2	6.6	5.7		6.2	5.3		5.1			4.9		
112	4.9	4.4	4.0	6.4	5.5	4.4	6.0	5.1		5.1	4.4		4.9		
118	4.6	4.2	3.7	6.2	5.3	4.2	5.7	4.9		5.1	4.4		4.6		
125	4.2	3.7	3.5	6.0	5.1	4.0	5.7	4.9		4.9	4.2		4.6		
131	3.7	3.5	3.3	5.7	4.9	4.0	5.5	4.6	4.0	4.9	4.2		4.6		
138	3.5	3.3	3.1	5.5	4.6	3.7	5.3	4.6	4.0	4.6	4.0		4.4		
144	3.3	3.1		5.3	4.4	3.5	5.3	4.4	3.7	4.6	4.0		4.4		
151	2.9	2.9		5.3	4.2	3.5	5.1	4.4	3.7	4.4	4.0		4.2		
158				4.9	4.0	3.3	5.1	4.2	3.5	4.4	3.7		4.2		
164				4.6	3.7	3.3	4.9	4.2	3.5	4.4	3.7		4.2		
171				4.4	3.5	3.1	4.6	4.0	3.3	4.2	3.7		4.0		
184				4.0	3.3	3.1	4.4	3.7	3.3	4.0	3.5		3.7		
197				3.5	3.1		4.4	3.5	3.1	3.7	3.3				
210				3.1	2.9		3.1	3.3	2.9		3.1				
223								3.1	2.9						

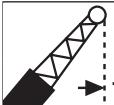

77,161 lbs
lbs x 1,000
SAE

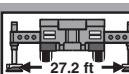
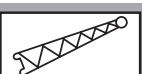
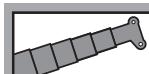
ft	43.4 ft + 3.7 ft + 35.8 ft			112.0 ft + 3.7 ft + 35.8 ft			166.9 ft + 3.7 ft + 35.8 ft			208.0 ft + 3.7 ft + 35.8 ft			223.1 ft + 3.7 ft + 35.8 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8	43.4														
11.5	43.2														
13.1	42.1														
14.8	41.0														
16.4	39.7														
19.7	37.5	31.1		41.9											
23.0	35.3	29.1		40.6											
26.2	33.3	27.3		39.2											
29.5	31.5	25.6	21.4	38.1											
32.8	29.8	24.3	20.5	36.8	29.3		28.9								
36.1	28.4	23.1	19.6	35.7	28.4		28.9								
39.4	27.1	22.0	19.0	34.6	27.3		28.9								
45.9	24.3	20.1	17.9	32.4	25.6	20.3	28.7	23.8		16.5					
52.5	21.6	18.5	17.0	30.6	24.3	19.6	26.9	22.7		16.5			14.6		
59.1	19.4	17.4	16.3	28.9	22.9	19.0	25.6	21.6	19.2	16.5	16.1		14.6		
65.6	17.6	16.5		27.3	21.6	18.3	24.3	20.5	18.5	16.5	15.4		14.6	14.3	
72.2	16.3	15.9		26.0	20.7	17.9	23.1	19.6	17.9	15.9	14.8	13.7	14.6	13.7	12.8
78.7				24.9	19.8	17.4	22.0	18.7	17.2	15.2	14.1	13.2	14.1	13.2	12.3
85.3				23.8	19.0	17.0	21.2	18.1	16.5	14.8	13.4	12.8	13.4	12.6	11.9
91.9				20.5	18.3	16.5	20.1	17.4	16.1	14.3	13.0	12.3	13.2	12.1	11.5
98.4				17.4	17.6	16.3	19.2	16.8	15.7	13.7	12.6	11.9	12.8	11.7	11.0
105				14.8	16.3	16.1	16.8	16.1	15.2	13.2	12.1	11.5	12.1	11.2	10.8
112				12.3	13.9	15.2	14.3	15.7	14.8	12.8	11.7	11.2	11.7	11.0	10.4
118				10.4	11.7		12.3	13.9	14.3	12.3	11.5	10.8	11.5	10.6	10.1
125				8.6	9.7		10.6	12.1	13.4	11.9	11.0	10.6	11.0	10.4	9.7
131				7.1	7.9		9.0	10.4	11.5	10.8	10.8	10.1	10.4	9.9	9.5
138				5.7			7.5	8.8	9.9	9.3	10.6	9.9	9.0	9.7	9.3
144							6.2	7.3	8.4	7.9	9.0	9.7	7.7	8.8	9.0
151							5.1	6.0	7.1	6.8	7.7	8.6	6.6	7.7	8.4
158							4.0	4.9	5.7	5.7	6.6	7.3	5.3	6.4	7.3
164							3.1	3.7		4.6	5.5	6.2	4.4	5.3	6.2
171									2.9		3.7	4.6	5.1		4.4
184												3.3			5.1


77,161 lbs
lbs x 1,000
SAE

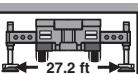
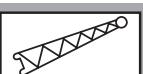
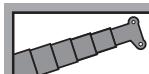
 ft	43.4 ft + 3.7 ft + 55.4 ft			112.0 ft + 3.7 ft + 55.4 ft			166.9 ft + 3.7 ft + 55.4 ft			208.0 ft + 3.7 ft + 55.4 ft			223.1 ft + 3.7 ft + 55.4 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8	38.8														
11.5	38.1														
13.1	37.5														
14.8	36.8														
16.4	35.9														
19.7	34.2														
23.0	32.6			32.2											
26.2	31.1			32.2											
29.5	29.8	24.5		31.7											
32.8	28.2	22.9		30.9											
36.1	27.1	21.4		30.0			18.3								
39.4	25.6	20.1		29.3			18.3								
45.9	22.0	17.9	15.0	27.8	22.0		18.3								
52.5	19.2	16.1	13.7	26.5	20.7		18.3			12.3					
59.1	17.0	14.8	12.8	25.1	19.4	14.6	18.3	17.2		12.3			11.2		
65.6	15.2	13.4	11.9	24.0	18.3	13.9	18.3	16.3		12.3			11.2		
72.2	13.9	12.6	11.2	22.9	17.2	13.2	18.3	15.7		12.3	12.1		11.2		
78.7	12.6	11.7	10.6	21.2	16.1	12.8	17.9	15.0	13.2	12.3	11.5		11.2	10.8	
85.3	11.5	10.8		19.6	15.2	12.3	17.2	14.6	13.0	12.3	11.0		11.2	10.4	
91.9	10.6	10.4		18.3	14.3	11.9	16.5	13.9	12.6	11.9	10.8	9.9	11.0	10.1	9.3
98.4				17.0	13.7	11.5	15.9	13.4	12.1	11.5	10.4	9.5	10.6	9.7	9.0
105				15.9	13.0	11.2	15.2	13.0	11.9	11.0	9.9	9.3	10.1	9.3	8.6
112				14.1	12.6	10.8	14.6	12.6	11.5	10.8	9.7	9.0	10.1	9.0	8.4
118				12.1	11.9	10.6	13.7	12.3	11.2	10.4	9.3	8.6	9.7	8.8	8.2
125				10.4	11.5	10.4	11.7	11.9	11.0	10.1	9.0	8.4	9.3	8.4	7.9
131				8.6	10.6	10.1	10.1	11.7	10.8	9.7	8.8	8.2	9.0	8.2	7.7
138				7.3	8.8		8.6	10.6	10.4	9.5	8.4	7.9	8.8	7.9	7.5
144				6.0	7.3		7.3	9.0	10.1	8.4	8.2	7.7	7.9	7.7	7.3
151				4.9	6.0		6.2	7.7	8.8	7.1	7.9	7.7	6.8	7.5	7.1
158				4.0			5.1	6.6	7.5	6.0	7.5	7.5	5.7	7.3	6.8
164							4.2	5.5	6.2	5.1	6.4	7.3	4.9	6.2	6.6
171							3.3	4.4	5.1	4.2	5.5	6.4		5.3	6.4
184								2.4			3.7	4.4			

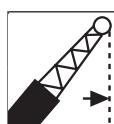

77,161 lbs
lbs x 1,000
SAE

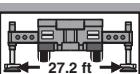
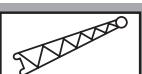
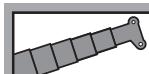
 ft	43.4 ft + 3.7 ft + 75.1 ft			112.0 ft + 3.7 ft + 75.1 ft			166.9 ft + 3.7 ft + 75.1 ft			208.0 ft + 3.7 ft + 75.1 ft			223.1 ft + 3.7 ft + 75.1 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
11.5	24.5														
13.1	24.5														
14.8	24.5														
16.4	24.0														
19.7	23.1														
23.0	22.3														
26.2	21.4			19.6											
29.5	20.5			19.6											
32.8	19.6			19.6											
36.1	19.0			19.6											
39.4	18.1	16.8		19.6											
45.9	16.8	15.0		19.0			13.2								
52.5	15.4	13.4		18.1			13.2								
59.1	14.1	12.1		17.2	14.3		13.2								
65.6	12.6	11.0	9.5	16.3	13.4		13.2			9.5			8.8		
72.2	11.2	10.1	8.8	15.7	13.0		13.2	12.1		9.5			8.8		
78.7	10.4	9.3	8.4	15.0	12.1	9.3	13.2	11.7		9.5			8.8		
85.3	9.5	8.6	7.7	14.3	11.5	9.0	13.2	11.5		9.5	9.3		8.8		
91.9	8.6	7.9	7.5	13.7	10.8	8.6	13.0	11.0	8.8	9.5	8.8		8.8	8.4	
98.4	8.2	7.5	7.1	13.0	10.4	8.4	12.6	10.6	8.6	9.5	8.6		8.8	7.9	
105	7.5	7.1		12.6	9.7	7.9	12.3	10.4	8.4	9.5	8.2	7.5	8.6	7.7	
112	7.1	6.6		11.9	9.3	7.7	11.9	10.1	8.2	9.0	7.9	7.3	8.4	7.5	6.8
118				11.2	8.8	7.5	11.7	9.9	7.9	8.6	7.7	7.1	7.9	7.3	6.6
125				10.6	8.6	7.3	11.2	9.5	7.7	8.4	7.5	6.8	7.7	7.1	6.4
131				9.9	8.2	7.1	10.8	9.3	7.7	8.2	7.1	6.6	7.5	6.8	6.2
138				8.8	7.9	7.1	9.3	9.0	7.5	7.9	6.8	6.4	7.3	6.6	6.2
144				7.5	7.5	6.8	7.9	8.6	7.3	7.5	6.6	6.2	7.1	6.4	6.0
151				6.2	7.3	6.6	6.8	8.4	7.1	7.3	6.6	6.2	6.8	6.2	5.7
158				5.1	6.6		5.7	7.7	7.1	6.4	6.4	6.0	6.0	6.0	5.5
164				4.2	5.3		4.6	6.6	6.8	5.3	6.2	5.7		5.7	5.5
171				3.3	4.2		3.7	5.5	6.6	4.4	6.0	5.7		5.5	5.3
184								3.5	4.6	4.4	5.3				5.1


77,161 lbs
lbs x 1,000
SAE

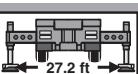
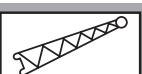
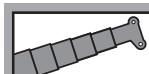
 ft	43.4 ft + 3.7 ft + 94.8 ft			112.0 ft + 3.7 ft + 94.8 ft			166.9 ft + 3.7 ft + 94.8 ft			208.0 ft + 3.7 ft + 94.8 ft			223.1 ft + 3.7 ft + 94.8 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
16.4	14.3														
19.7	14.3														
23.0	14.3														
26.2	14.3														
29.5	14.3			13.7											
32.8	14.3			13.7											
36.1	14.1			13.7											
39.4	13.7			13.7											
45.9	12.8			13.4											
52.5	11.9	10.8		12.8			9.7								
59.1	11.0	9.9		12.3			9.7								
65.6	10.4	9.3		11.9	9.9		9.7			7.3			6.8		
72.2	9.7	8.6		11.5	9.5		9.7			7.3			6.8		
78.7	9.0	7.9	6.8	10.8	9.0		9.7	8.6		7.3			6.8		
85.3	8.4	7.3	6.4	10.4	8.6		9.5	8.2		7.3			6.8		
91.9	7.5	6.6	6.0	9.9	8.4	6.6	9.3	7.9		7.3			6.8		
98.4	6.8	6.2	5.5	9.5	7.9	6.4	9.0	7.7		7.3	6.8		6.8		
105	6.4	5.7	5.3	9.3	7.7	6.2	8.8	7.5		7.3	6.6		6.8	6.4	
112	5.7	5.3	5.1	8.8	7.3	5.7	8.6	7.3	6.0	7.3	6.6		6.8	6.2	
118	5.3	5.1	4.9	8.6	6.8	5.5	8.4	7.1	6.0	7.3	6.4		6.8	6.0	
125	5.1	4.9		8.2	6.6	5.5	8.2	6.8	5.7	7.1	6.2	5.5	6.6	5.7	
131	4.6	4.4		7.9	6.2	5.3	7.9	6.6	5.5	6.8	6.0	5.3	6.4	5.5	5.1
138				7.3	6.0	5.1	7.7	6.4	5.3	6.6	5.7	5.3	6.2	5.3	4.9
144				6.8	5.7	4.9	7.5	6.4	5.3	6.4	5.5	5.1	6.0	5.3	4.9
151				6.6	5.5	4.9	7.3	6.2	5.1	6.2	5.3	4.9	5.5	5.1	4.6
158				6.0	5.3	4.6	6.2	6.0	5.1	6.0	5.1	4.9	5.3	4.9	4.4
164				5.1	5.1	4.6	5.1	6.0	4.9	5.5	5.1	4.6	4.6	4.4	4.4
171				4.2	4.9	4.4	4.2	5.7	4.9	4.9	4.4	4.4		4.4	4.2
184				2.4	3.7			4.4	4.6		4.6	4.2			4.0
197									4.0						

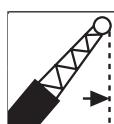

77,161 lbs
lbs x 1,000
SAE

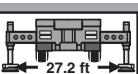
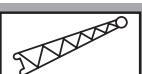
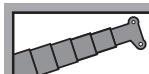
 ft	43.4 ft + 3.7 ft + 114.5 ft			112.0 ft + 3.7 ft + 114.5 ft			167.0 ft + 3.7 ft + 114.5 ft			208.0 ft + 3.7 ft + 114.5 ft			223.1 ft + 3.7 ft + 114.5 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
19.7	10.4														
23.0	10.4														
26.2	10.4														
29.5	10.4														
32.8	10.4														
36.1	10.4			9.9											
39.4	9.9			9.9											
45.9	9.5			9.5											
52.5	8.8			9.3											
59.1	8.4			8.8											
65.6	7.9	7.3		8.4			7.3			5.7			5.3		
72.2	7.5	6.8		8.2			7.1			5.7			5.3		
78.7	7.1	6.4		7.7	6.6		6.8			5.5			5.3		
85.3	6.6	6.0		7.5	6.4		6.6			5.5			5.1		
91.9	6.2	5.7		7.3	6.2		6.4	5.5		5.3			5.1		
98.4	6.0	5.3	4.6	6.8	6.0		6.4	5.3		5.3			4.9		
105	5.5	4.9	4.2	6.6	5.7		6.2	5.3		5.1			4.9		
112	4.9	4.4	4.0	6.4	5.5	4.4	6.0	5.1		5.1	4.4		4.9		
118	4.6	4.2	3.7	6.2	5.3	4.2	5.7	4.9		5.1	4.4		4.6		
125	4.2	3.7	3.5	6.0	5.1	4.0	5.7	4.9		4.9	4.2		4.6		
131	3.7	3.5	3.3	5.7	4.9	4.0	5.5	4.6	4.0	4.9	4.2		4.6		
138	3.5	3.3	3.1	5.5	4.6	3.7	5.3	4.6	4.0	4.6	4.0		4.4		
144	3.3	3.1		5.3	4.4	3.5	5.3	4.4	3.7	4.6	4.0		4.4		
151	2.9	2.9		5.3	4.2	3.5	5.1	4.4	3.7	4.4	4.0		4.2		
158				4.9	4.0	3.3	5.1	4.2	3.5	4.4	3.7				
164				4.6	3.7	3.3	4.9	4.2	3.5	4.4	3.7				
171				4.4	3.5	3.1	4.4	4.0	3.3		3.7				
184				3.1	3.3	3.1		3.7	3.3		3.5				
197					3.1	3.1			3.1						

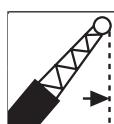

51,808 lbs
lbs x 1,000
SAE

ft	43.4 ft + 3.7 ft + 35.8 ft			112.0 ft + 3.7 ft + 35.8 ft			167.0 ft + 3.7 ft + 35.8 ft			208.0 ft + 3.7 ft + 35.8 ft			223.1 ft + 3.7 ft + 35.8 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8	43.4														
11.5	43.2														
13.1	42.1														
14.8	41.0														
16.4	39.7														
19.7	37.5	31.1		41.9											
23.0	35.3	29.1		40.6											
26.2	33.3	27.3		39.2											
29.5	31.5	25.6	21.4	38.1											
32.8	29.8	24.3	20.5	36.8	29.3		28.9								
36.1	28.4	23.1	19.6	35.7	28.4		28.9								
39.4	27.1	22.0	19.0	34.6	27.3		28.9								
45.9	24.3	20.1	17.9	32.4	25.6	20.3	28.7	23.8		16.5					
52.5	21.6	18.5	17.0	30.6	24.3	19.6	26.9	22.7		16.5			14.6		
59.1	19.4	17.4	16.3	28.9	22.9	19.0	25.6	21.6	19.2	16.5	16.1		14.6		
65.6	17.6	16.5		27.3	21.6	18.3	24.3	20.5	18.5	16.5	15.4		14.6	14.3	
72.2	16.3	15.9		24.9	20.7	17.9	23.1	19.6	17.9	15.9	14.8	13.7	14.6	13.7	12.8
78.7				20.3	19.8	17.4	22.0	18.7	17.2	15.2	14.1	13.2	14.1	13.2	12.3
85.3				16.5	19.0	17.0	18.7	18.1	16.5	14.8	13.4	12.8	13.4	12.6	11.9
91.9				13.4	15.7	16.5	15.7	17.4	16.1	14.3	13.0	12.3	13.2	12.1	11.5
98.4				10.8	12.8	14.6	13.0	15.0	15.7	13.7	12.6	11.9	12.8	11.7	11.0
105				8.6	10.4	11.9	10.6	12.6	14.6	12.6	12.1	11.5	12.1	11.2	10.8
112				6.6	8.2	9.3	8.6	10.4	12.1	10.6	11.7	11.2	10.4	11.0	10.4
118				4.9	6.2		7.1	8.6	10.1	8.8	10.4	10.8	8.6	10.1	10.1
125				3.5	4.4		5.5	6.8	8.4	7.3	8.8	9.9	7.1	8.6	9.7
131					2.9		4.2	5.3	6.6	6.0	7.3	8.2		7.1	8.2
138								4.2	5.3		6.0	6.8			6.6
144									4.0			5.5			

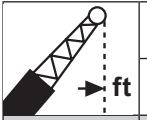

51,808 lbs
lbs x 1,000
SAE

 ft	43.4 ft + 3.7 ft + 55.4 ft			112.0 ft + 3.7 ft + 55.4 ft			166.9 ft + 3.7 ft + 55.4 ft			208.0 ft + 3.7 ft + 55.4 ft			223.1 ft + 3.7 ft + 55.4 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
9.8	38.8														
11.5	38.1														
13.1	37.5														
14.8	36.8														
16.4	35.9														
19.7	34.2														
23.0	32.6			32.2											
26.2	31.1			32.2											
29.5	29.8	24.5		31.7											
32.8	28.2	22.9		30.9											
36.1	27.1	21.4		30.0			18.3								
39.4	25.6	20.1		29.3			18.3								
45.9	22.0	17.9	15.0	27.8	22.0		18.3								
52.5	19.2	16.1	13.7	26.5	20.7		18.3			12.3					
59.1	17.0	14.8	12.8	25.1	19.4	14.6	18.3	17.2		12.3			11.2		
65.6	15.2	13.4	11.9	24.0	18.3	13.9	18.3	16.3		12.3			11.2		
72.2	13.9	12.6	11.2	22.9	17.2	13.2	18.3	15.7		12.3	12.1		11.2		
78.7	12.6	11.7	10.6	21.2	16.1	12.8	17.9	15.0	13.2	12.3	11.5		11.2	10.8	
85.3	11.5	10.8		18.3	15.2	12.3	17.2	14.6	13.0	12.3	11.0		11.2	10.4	
91.9	10.6	10.4		15.2	14.3	11.9	16.5	13.9	12.6	11.9	10.8	9.9	11.0	10.1	9.3
98.4				12.6	13.7	11.5	14.3	13.4	12.1	11.5	10.4	9.5	10.6	9.7	9.0
105				10.4	13.0	11.2	11.9	13.0	11.9	11.0	9.9	9.3	10.1	9.3	8.6
112				8.4	11.0	10.8	9.9	12.6	11.5	10.8	9.7	9.0	10.1	9.0	8.4
118				6.6	9.0	10.6	8.2	10.6	11.2	9.3	9.3	8.6	8.8	8.8	8.2
125				5.1	7.3	8.6	6.6	8.8	10.6	7.7	9.0	8.4	7.3	8.4	7.9
131				3.7	5.7	6.8	5.3	7.3	8.8	6.2	8.4	8.2		8.2	7.7
138				2.6	4.2			6.0	7.3		7.1	7.9		6.8	7.5
144					2.9			4.6	6.0		5.7	7.1			7.1
151								4.6			6.0				

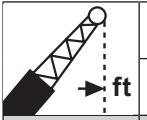

51,808 lbs
lbs x 1,000
SAE

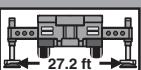
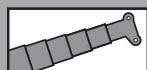
 ft	43.4 ft + 3.7 ft + 75.1 ft			112.0 ft + 3.7 ft + 75.1 ft			166.9 ft + 3.7 ft + 75.1 ft			208.0 ft + 3.7 ft + 75.1 ft			223.1 ft + 3.7 ft + 75.1 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
11.5	24.5														
13.1	24.5														
14.8	24.5														
16.4	24.0														
19.7	23.1														
23.0	22.3														
26.2	21.4			19.6											
29.5	20.5			19.6											
32.8	19.6			19.6											
36.1	19.0			19.6											
39.4	18.1	16.8		19.6											
45.9	16.8	15.0		19.0			13.2								
52.5	15.4	13.4		18.1			13.2								
59.1	14.1	12.1		17.2	14.3		13.2								
65.6	12.6	11.0	9.5	16.3	13.4		13.2			9.5			8.8		
72.2	11.2	10.1	8.8	15.7	13.0		13.2	12.1		9.5			8.8		
78.7	10.4	9.3	8.4	15.0	12.1	9.3	13.2	11.7		9.5			8.8		
85.3	9.5	8.6	7.7	14.3	11.5	9.0	13.2	11.5		9.5	9.3		8.8		
91.9	8.6	7.9	7.5	13.7	10.8	8.6	13.0	11.0	8.8	9.5	8.8		8.8	8.4	
98.4	8.2	7.5	7.1	13.0	10.4	8.4	12.6	10.6	8.6	9.5	8.6		8.8	7.9	
105	7.5	7.1		12.1	9.7	7.9	12.3	10.4	8.4	9.5	8.2	7.5	8.6	7.7	
112	7.1	6.6		9.9	9.3	7.7	10.6	10.1	8.2	9.0	7.9	7.3	8.4	7.5	6.8
118				8.2	8.8	7.5	8.8	9.9	7.9	8.6	7.7	7.1	7.9	7.3	6.6
125				6.6	8.6	7.3	7.3	9.5	7.7	7.9	7.5	6.8	7.5	7.1	6.4
131				5.3	7.7	7.1	6.0	8.6	7.7	6.6	7.1	6.6		6.8	6.2
138				4.2	6.2	7.1		7.3	7.5		6.8	6.4		6.6	6.2
144				3.1	4.9	6.4		6.0	7.3		6.6	6.2			6.0
151					3.7	4.9		4.9	6.4		6.2				5.7
158					2.6				5.3		6.0				


51,808 lbs
lbs x 1,000
SAE

 ft	43.4 ft + 3.7 ft + 94.8 ft			112.0 ft + 3.7 ft + 94.8 ft			166.9 ft + 3.7 ft + 94.8 ft			208.0 ft + 3.7 ft + 94.8 ft			223.1 ft + 3.7 ft + 94.8 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
16.4	14.3														
19.7	14.3														
23.0	14.3														
26.2	14.3														
29.5	14.3			13.7											
32.8	14.3			13.7											
36.1	14.1			13.7											
39.4	13.7			13.7											
45.9	12.8			13.4											
52.5	11.9	10.8		12.8			9.7								
59.1	11.0	9.9		12.3			9.7								
65.6	10.4	9.3		11.9	9.9		9.7			7.3			6.8		
72.2	9.7	8.6		11.5	9.5		9.7			7.3			6.8		
78.7	9.0	7.9	6.8	10.8	9.0		9.7	8.6		7.3			6.8		
85.3	8.4	7.3	6.4	10.4	8.6		9.5	8.2		7.3			6.8		
91.9	7.5	6.6	6.0	9.9	8.4	6.6	9.3	7.9		7.3			6.8		
98.4	6.8	6.2	5.5	9.5	7.9	6.4	9.0	7.7		7.3	6.8		6.8		
105	6.4	5.7	5.3	9.3	7.7	6.2	8.8	7.5		7.3	6.6		6.8	6.4	
112	5.7	5.3	5.1	8.8	7.3	5.7	8.6	7.3	6.0	7.3	6.6		6.8	6.2	
118	5.3	5.1	4.9	8.6	6.8	5.5	8.4	7.1	6.0	7.3	6.4		6.8	6.0	
125	5.1	4.9		7.7	6.6	5.5	7.7	6.8	5.7	7.1	6.2	5.5		5.7	
131	4.6	4.4		6.2	6.2	5.3	6.4	6.6	5.5		6.0	5.3		5.5	5.1
138				5.1	6.0	5.1		6.4	5.3		5.7	5.3		5.3	4.9
144				4.0	5.7	4.9		6.4	5.3		5.5	5.1		4.9	
151					5.3	4.9		5.7	5.1			4.9			4.6
158					4.2	4.6			5.1			4.9			
164					3.1	4.4			4.9						
171						3.3									


51,808 lbs
lbs x 1,000
SAE

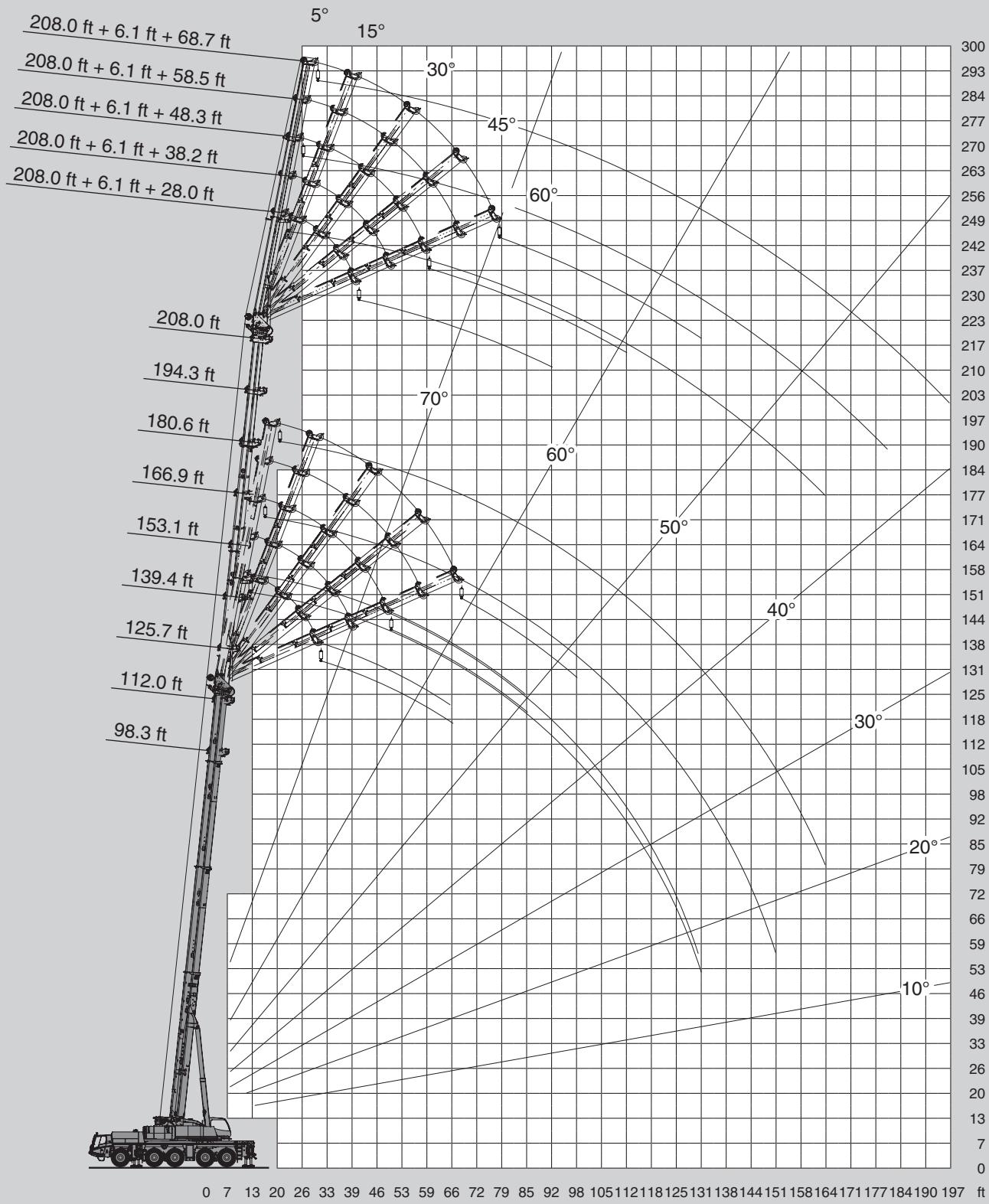
 ft	43.4 ft + 3.7 ft + 114.5 ft			112.0 ft + 3.7 ft + 114.5 ft			166.9 ft + 3.7 ft + 114.5 ft			208.0 ft + 3.7 ft + 114.5 ft			223.1 ft + 3.7 ft + 114.5 ft		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
19.7	10.4														
23.0	10.4														
26.2	10.4														
29.5	10.4														
32.8	10.4														
36.1	10.4			9.9											
39.4	9.9			9.9											
45.9	9.5			9.5											
52.5	8.8			9.3											
59.1	8.4			8.8											
65.6	7.9	7.3		8.4			7.3			5.7			5.3		
72.2	7.5	6.8		8.2			7.1			5.7			5.3		
78.7	7.1	6.4		7.7	6.6		6.8			5.5			5.3		
85.3	6.6	6.0		7.5	6.4		6.6			5.5			5.1		
91.9	6.2	5.7		7.3	6.2		6.4	5.5		5.3			5.1		
98.4	6.0	5.3	4.6	6.8	6.0		6.4	5.3		5.3			4.9		
105	5.5	4.9	4.2	6.6	5.7		6.2	5.3		5.1			4.9		
112	4.9	4.4	4.0	6.4	5.5	4.4	6.0	5.1		5.1	4.4		4.9		
118	4.6	4.2	3.7	6.2	5.3	4.2	5.7	4.9		5.1	4.4		4.6		
125	4.2	3.7	3.5	6.0	5.1	4.0	5.7	4.9		4.9	4.2				
131	3.7	3.5	3.3	5.7	4.9	4.0	5.5	4.6	4.0		4.2				
138	3.5	3.3	3.1	5.5	4.6	3.7		4.6	4.0		4.0				
144	3.3	3.1		4.6	4.4	3.5		4.4	3.7		4.0				
151	2.9	2.9		3.5	4.2	3.5		4.4	3.7						
158					4.0	3.3			3.5						
164					3.7	3.3			3.5						
171						3.1			3.3						

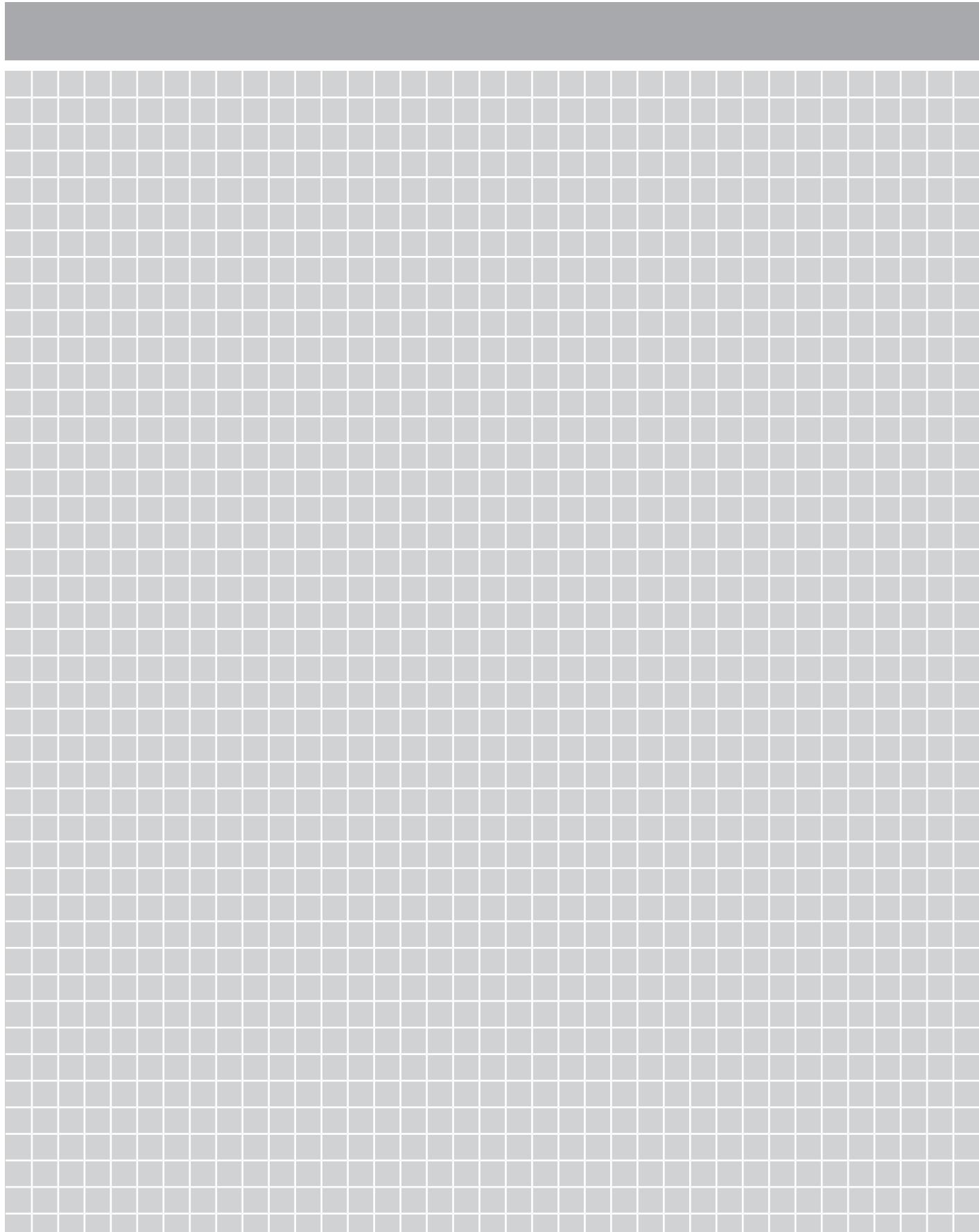


156,527 lbs

lbs x 1,000

SAE





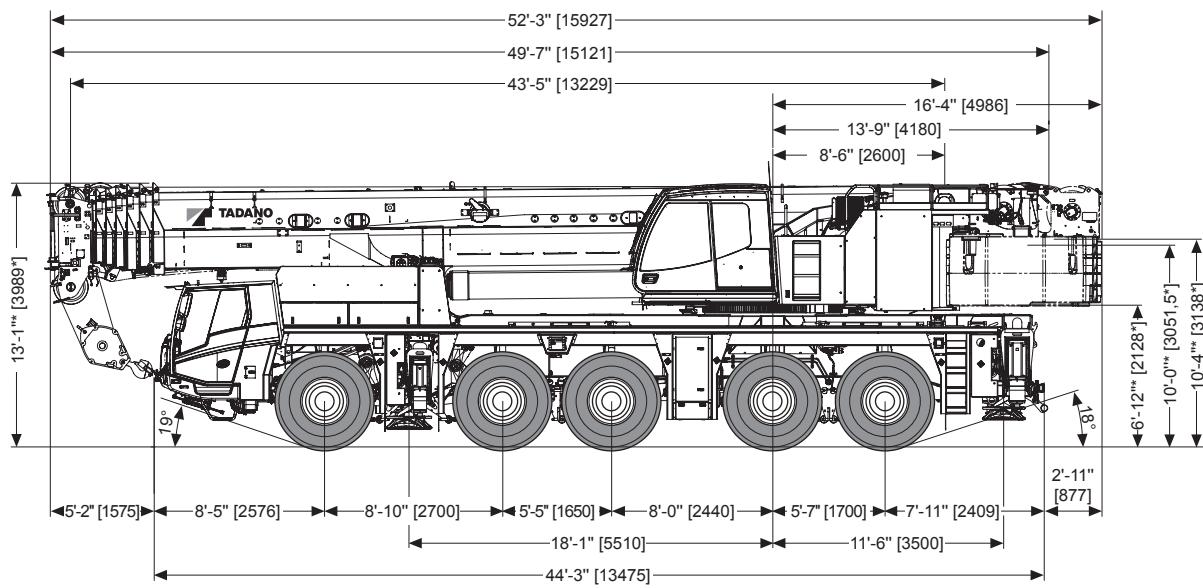
Axle Eje	1	2	3	4	5	Total weight Peso total
Tires 525/80 R 25 (20.50 R 25) [lbs]	23,914	23,906	29,483	29,375	29,390	136,068*

Boom to front	Total [lbs]	Axle 1 [lbs]	Axle 2 [lbs]	Axle 3 [lbs]	Axle 4 [lbs]	Axle 5 [lbs]
Base machine with equipment for USA, 16.00 R 25 tires, no counterweight, no fuel, no driver	128,466	24,796	24,783	26,303	26,294	26,289
* Fuel in carrier	1,138	-259	-257	561	544	548
* Fuel in superstructure	468	-73	-73	209	202	204
* Driver in carrier	198	168	167	-46	-45	-45
* 11.0 ton [10.0 t]** headache ball (in transport position)	744	683	678	-210	-203	-204
35.3 ton [32.0 t]** (1 sheave) hook block (in transport position)	1,065	1,010	1,004	-322	-312	-314
17.7 ft / 43.3 ft Mechanical offset boom extension	3,101	1,811	1,799	-173	-167	-168
* 17.7 ft / 43.3 ft Hydraulic offset boom extension	3,420	2,069	2,055	-239	-232	-233
* Auxiliary winch with cable	3,722	-1,704	-1,693	2,418	2,343	2,358
* Auxiliary boom point sheave (single top)	139	139	138	-47	-45	-46
* 2 nd oil cooler	104	-10	-10	42	41	41
* Boom dismounting device	471	-10	-10	167	162	163
Drive 10 x 6	-831	-732	-160	0	0	0
* 20.50 R 25 tires in lieu of 16.00 R 25 tires	1,442	288	288	289	289	289
Eddy-current brake	985	144	143	237	230	231
* Towing attachment	30	-12	-12	18	18	18
* Tool box at rear	197	-86	-85	125	121	122

* Basic configuration, marked items are included

Counterweight on the carrier:						
Counterweight 7: 4,409 lbs [2.0 t]**	4,407	1,494	1,485	485	470	473
Counterweight 6: 22,046 lbs [10.0 t]**	21,739	7,428	7,380	2,354	2,281	2,296
Counterweight 5: 25,353 lbs [11.5 t]**	25,582	8,638	8,583	2,840	2,752	2,770
Counterweight 4: 25,353 lbs [11.5 t]**	25,467	8,685	8,629	2,769	2,684	2,701

** Metric



Axle Eje	1	2	3	4	5	Dolly	Total weight Peso total
Tires 525/80 R 25 (20.50 R 25) [lbs]	20,171	20,188	22,182	22,300	22,269	28,215	135,325*

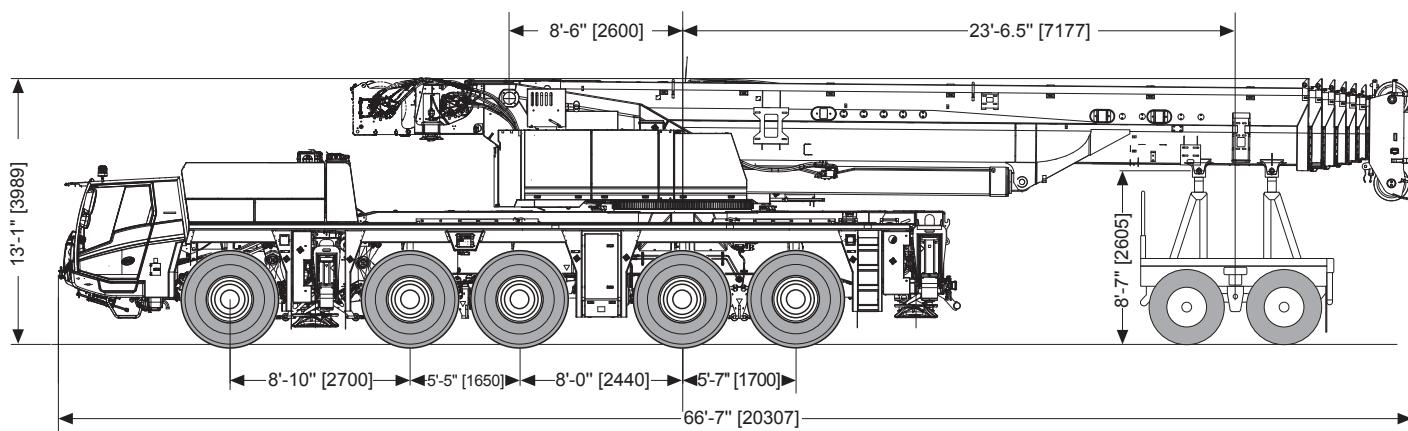
Boom to front	Total [lbs]	Axle 1 [lbs]	Axle 2 [lbs]	Axle 3 [lbs]	Axle 4 [lbs]	Axle 5 [lbs]	Dolly [lbs]
Base machine with equipment for USA, 16.00 R 25 tires, no counterweight, no fuel, no driver	128,466	18,722	18,748	21,049	21,202	21,164	27,581
* Fuel in carrier	1,138	-259	-257	561	544	548	0
* Fuel in superstructure	468	49	49	126	122	123	0
* Driver in carrier	198	168	167	-46	-45	-45	0
* 11.0 ton [10.0 t]** headache ball (hanging at boom head)	744	-35	-35	-29	-28	-28	899
35.3 ton [32.0 t]** (1 sheave) hook block (boom head)	1,065	-47	-47	-39	-38	-38	1,274
88.1 ton [80.0 t]** (3 sheaves) hook block (boom head)	1,871	-91	-90	-75	-72	-73	2,271
17.7 ft / 43.3 ft Mechanical offset boom extension	3,101	129	128	107	103	104	2,530
* 17.7 ft / 43.3 ft Hydraulic offset boom extension	3,420	127	126	105	102	102	2,859
* Auxiliary winch with cable	3,722	1,520	1,510	235	228	229	0
* Auxiliary boom point sheave (single top)	139	-7	-6	-5	-5	-5	168
* 2 nd oil cooler	104	5	5	32	31	32	0
* Boom dismounting device	471	81	80	67	64	65	114
Drive 10 x 6	-891	-732	-160	0	0	0	0
* 20.50 R 25 tires in lieu of 16.00 R 25 tires	1,442	288	288	289	289	289	0
Eddy-current brake	985	144	143	237	230	231	0
* Towing attachment	30	-12	-12	18	18	18	0
* Tool box at rear	197	-86	-85	125	121	122	0

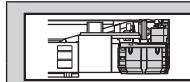
* Basic configuration, marked items are included

Counterweight on the carrier:

Counterweight 7: 4,409 lbs [2.0 t]**	4,407	1,494	1,485	485	470	473	0
Counterweight 6: 22,046 lbs [10.0 t]**	21,739	7,428	7,380	2,354	2,281	2,296	0
Counterweight 5: 25,353 lbs [11.5 t]**	25,582	8,638	8,583	2,840	2,752	2,770	0
Counterweight 4: 25,353 lbs [11.5 t]**	25,467	8,685	8,629	2,769	2,684	2,701	0

** Metric

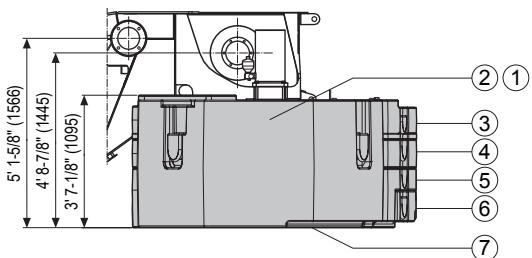




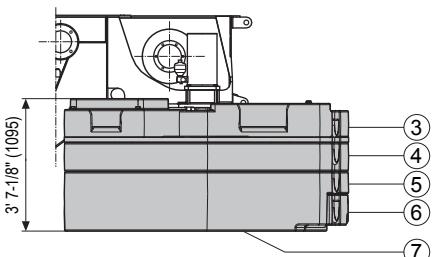
Counterweight / Contrapeso

[lbs]	①	②	③	④	⑤	⑥	⑦
26,455	26,455	26,455	25,353	25,353	22,046	4,409	

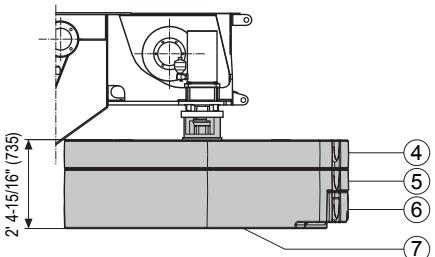
156,527 lbs



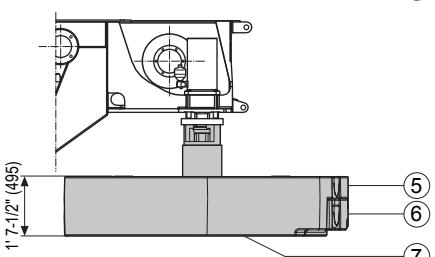
103,616 lbs



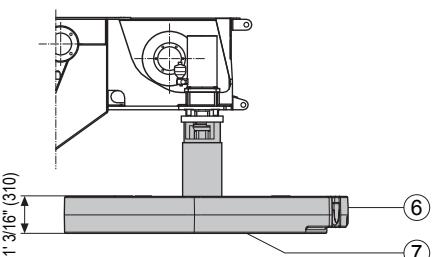
77,161 lbs



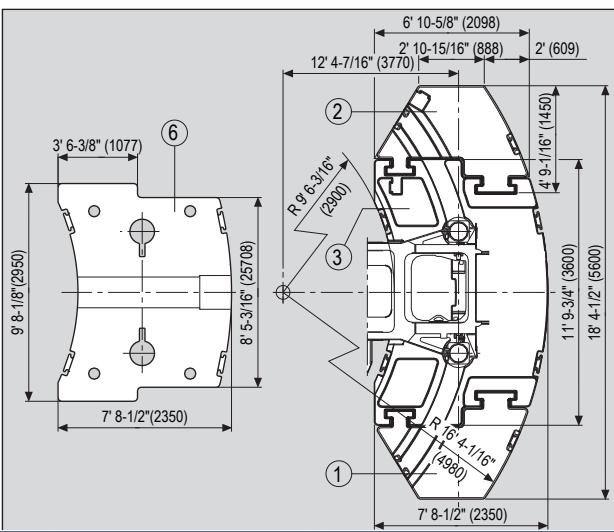
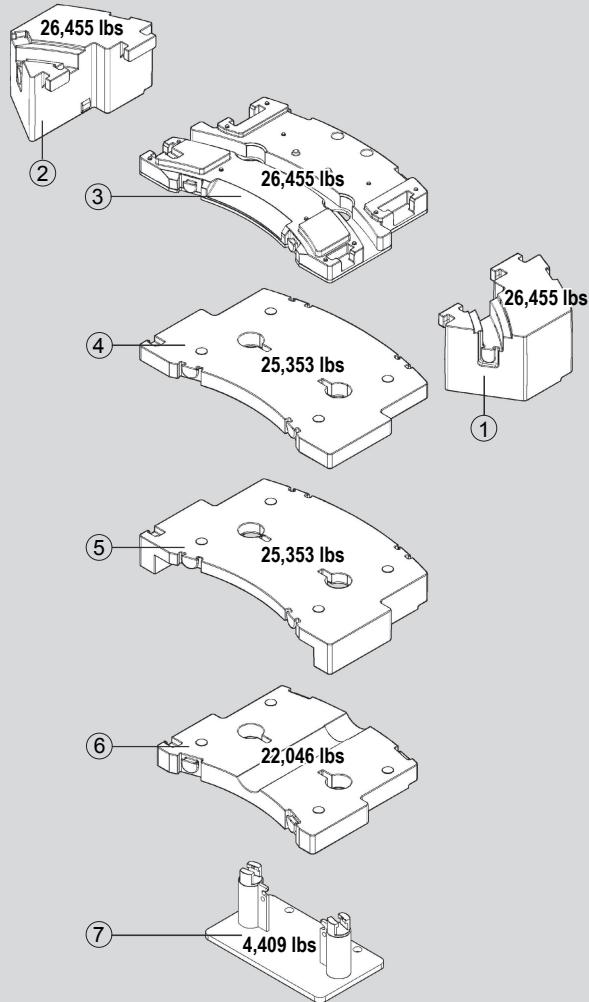
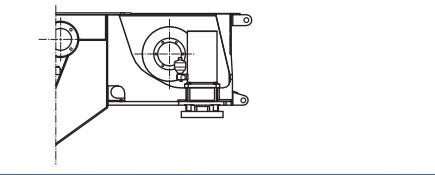
51,808 lbs



26,455 lbs



0 lbs





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

Outriggers 4 point, telescopic hydraulic outriggers, incl. automatic length detection and 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 6 cylinder model OM 471 LA (EPA Tier 4f), water-cooled diesel engine. Rated at 530 HP (390 kW) at 1,700 rpm. Torque 1,814 ft-lbs (2,460 Nm / 251 kpm) at 1,300 rpm. Engine rating according to ECE R 120. Fuel tank 159 gal (600 l). DEF Tank 11 gal (40 l).

Transmission ZF-AS-Tronic 12 AS 2531 mechanical transmission with electro-pneumatically operated dry-type clutch and automatic gear shifting with 12 forward gears and 2 reverse gears.

Transfer Case Two stage.

Drive 10 x 8 (10 x 6 optional*)

Axles

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

Suspension Hydro-pneumatic with levelling adjustment.

Brake system Service disc brakes: dual circuit compressed air system with electronic wear indicator. Parking brake: spring loaded type acting on 2nd, 4th and 5th axle. Auxiliary brakes: Intarder and engine brake.

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).

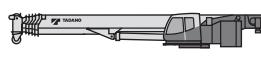
Carrier cab Two-man full width cab of composite (steel sheet metal and fibre-glass) structure, with safety glass, central locking system, air-cushioned seats, driver's seat offering various adjustment options, with memory function and heater, engine dependent water heater, air conditioning, Bluetooth hands-free equipment, multifunction display, rear view camera, radio/CD-player with USB port, control and operating elements for driving operation, Cruise Control and hill braking feature functions.

Electrical system 24 V DC, 2 batteries, outrigger area lighting, acoustic back-up alarm, lighting system with Bi halogen headlights; LED, daytime running light; LED, foglights, CAN bus system.

Optional Equipment (at extra charge)

Towing attachment, engine independent additional heater with engine pre-heat, ABS system, 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 934 LA (EPA Tier 4f), water-cooled diesel engine. Rated at 197 HP (145 kW) at 1,800 rpm.

Torque 590 ft-lbs (800 Nm / 82 kpm) at 1,200 - 1,600 rpm. Engine rating according to ECE R 120. Fuel tank 66 gal (250 l). DEF Tank 2 gal (8 l).

Hydraulic system Three circuit diesel hydraulic system, 1 power-controlled axial piston twin pump (hydraulically adjustable) with accumulative power control and 1 axial piston 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. 43.4 ft (13.2 m) to 223.1 ft (68.0 m) long. Boom head with 7 sheaves

Derrick 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 constant motor with three-stage planetary gear with service and parking brake. Open hydraulic circuit with wearless, dynamic free slewing function. Speed infinitely variable from 0 to 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, tiltble cockpit with hydraulically cushioned adjustable seat with heater, engine dependent water heater, engine independent heater (with engine pre-heat), air conditioning, radio/CD-player with MP3/USB/SD card port and Bluetooth hands-free equipment. Complete controls and instrumentation plus LCD graphic display for crane operation.

Electrical system 24 V DC system, 2 batteries. 1 working floodlight on base boom, 2 integrated in crane cab.

Safety devices 'Lift Adjuster', load moment limiter (LMD) with pilot lamp in several colors incl. asymmetric outrigger base, anemometer, slewing area and working limitation with 'Slow-Stop' feature, hoist limit switch, lower limit switch, drum turn indicator, safety valves protect against pipe and hose ruptures.

Optional Equipment (at extra charge)

Boom extensions 35.8 ft to 114.5 ft, offsets 0°, 20° and 40° or hydraulically 0°- 40°, heavy duty jib 15.3 ft, boom extensions HTLJ 28.0 ft to 68.7 ft (hydraulically offsets and telescopic 0° - 60°), selection of hook blocks 11 tons - 220 tons, auxiliary winch (same as main winch), special painting and lettering, outrigger load display.

Further optional equipment available upon request.



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 incl. detección de longitud automática y 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 471 LA (EPA Tier 4f), 6 cilindros, diesel, refrigerado por agua. Nominal 390 kW (530 CV) a 1700 min⁻¹. Par 2460 Nm (251 kpm) a 1300 min⁻¹. Potencia del motor según ECE R 120. Depósito de combustible de 600 l. Depósito AdBlue 40 l.

Transmisión Transmisión mecánica tipo ZF-AS Tronic modelo 12 AS 2531 con accionamiento electro - neumático embrague en seco y cambio automático, 12 marchas delanteras y 2 marchas traseras.

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.

Frenos Sistema de frenos de disco neumático de doble circuito con indicador electrónico de desgaste. Freno de estacionamiento como freno de acumuladores a resorte accionando en los ejes 2, 4 y 5. Intarder y freno de motor como freno continuo.

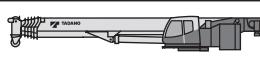
Neumáticos (10) 445 / 95 R 25 (16.00 R 25), (ancho 3.00 m). (10) 525 / 80 R 25 (20.50 R 25), (ancho 3.20 m).

Dirección Hidráulica ZF Servocom de doble circuito. Bomba hidráulica de emergencia accionada por la transmisión. Dirección mecánica al 10 y 20 eje y direccional al 30 y 40 eje hasta una velocidad de 25 km/h y al 50 eje hasta una velocidad de conducción de 50 km/h.

Cabina Cabina de conductor frontal para dos personas construida en material compuesto de chapa de acero y plástico, acristalamiento de seguridad, bloqueo central, asientos neumáticos, asiento del conductor regulable en múltiples posiciones con función memoria y calefactable, calefacción por agua dependiente del motor, climatizador, dispositivo manos libres con Bluetooth, display multifunción, cámara de marcha atrás, Radio/Reproductor CD con toma USB, elementos de control y mando para el modo de conducción, Regulador de velocidad, sistema automático de frenado.

Sistema eléctrico 24 voltios de corriente continua, 2 baterías, iluminación de la zona de apoyo, alarma acústica para indicar la marcha atrás, sistema de luces con faros bivalvulares, luz LED de marcha diurna, faro LED antiniebla, sistema de bus CAN.

Equipo adicional (con suplemento de precio) Embrague de remolque, calefacción adicional con precalefacción del motor, Sistema anti bloqueo ABS, neumáticos 525/80 R 25 (20.5 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 934 LA (EPA Tier 4f), 4 cilindros, diesel, refrigerado por agua. Las revoluciones aumentan de forma gradual accionando el acelerador. Nominal 145 kW (197 CV) a 1800 min⁻¹. Par 800Nm (82 kpm) a 1200 - 1600 min⁻¹. Potencia del motor según ECE R 120. Depósito de combustible de 250 l. Depósito AdBlue 10 l.

Sistema hidráulico Dieselhidráulico con sistema hidráulico de 3 circuitos, 1 bomba doble de pistones axiales de caudal variable (hidráulicamente regulable) con regulación a caudal total y 1 bomba de pistones axiales, 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 telescopiar 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 de cilindrada constante de émbolos axiales, engranaje planetario de tres etapas con freno de servicio y estacionamiento. Circuito hidráulico abierto con desbloqueo del mecanismo giratorio dinámico sin desgaste, Velocidad de giro gradual de 0 a 1,2 min⁻¹.

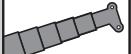
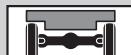
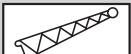
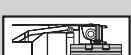
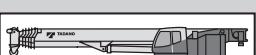
Contrapeso Peso total 71 t divisible, se acciona desde la cabina de la grúa.

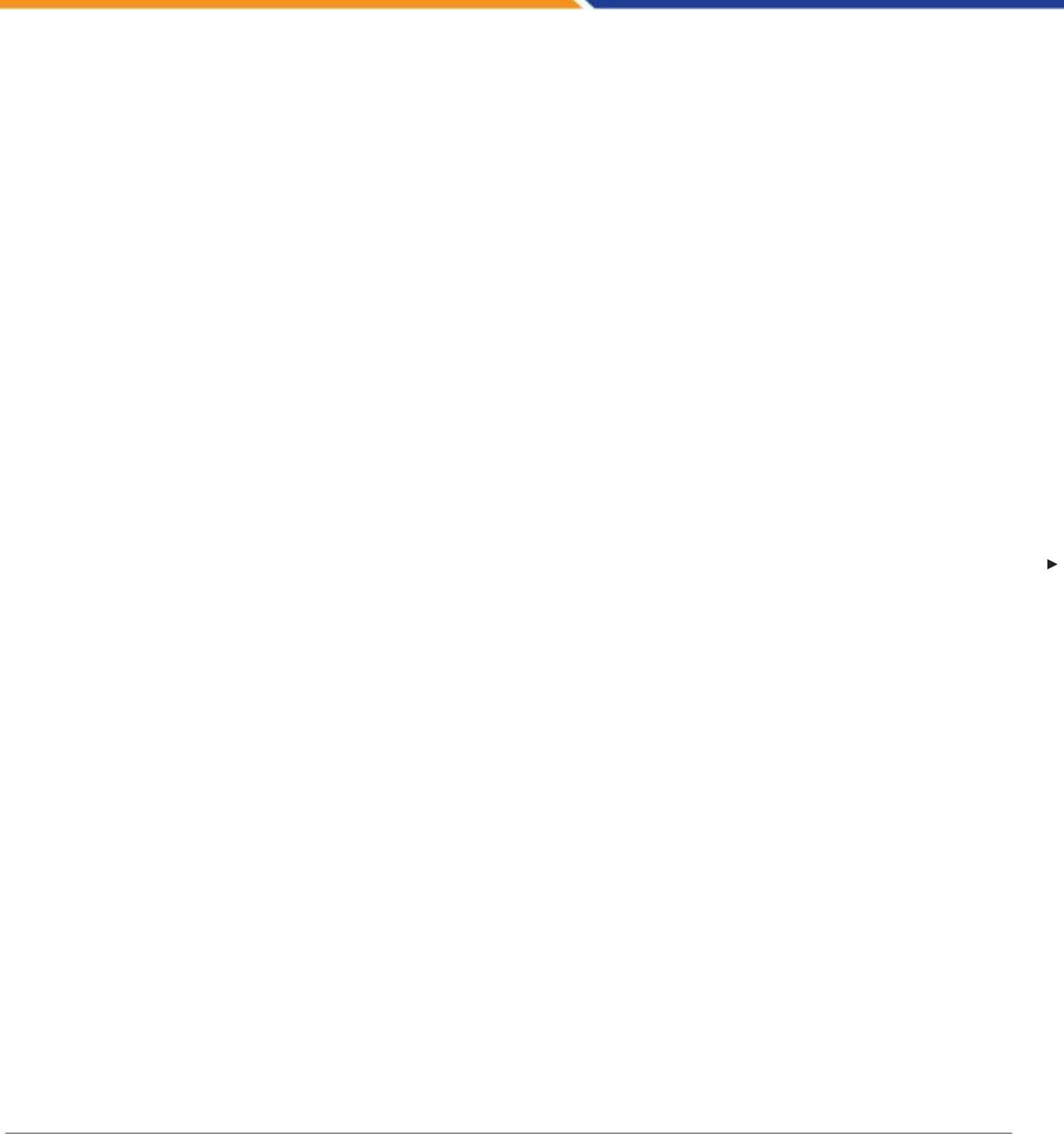
Cabina de la grúa Cabina espaciosa y confortable, en construcción de acero y fibra de vidrio, con cristales tintados de seguridad. Asiento de operador regulable amortiguado hidráulicamente, inclinable junto con los instrumentos y mandos, asiento calefactado. Calefacción por agua caliente dependiente y independiente del motor (con precalefacción del motor), climatización, Radio/Reproductor CD con toma para MP3/USB/tarjeta SD y dispositivo manos libres con Bluetooth. Controles, instrumentos y mandos de conducción como display digital LCD para la operación de la grúa.

Sistema eléctrico 24 voltios de corriente continua, 2 baterías. 1 faro de trabajo en pluma base, 2 integrados en la cabina de grúa.

Dispositivos de seguridad "Lift Adjuster", limitador del momento de carga (LMC) con luz de señalización tipo semáforo, incl. distancia entre apoyos asimétrica, anemómetro, limitación de la zona de giro y del área de trabajo con función "Slow Stop", interruptor de fin de carrera, interruptor de fin de carrera del tornillo, indicador de giros del tornillo de cable. Válvulas de retención en los cilindros hidráulicos.

Equipo adicional (con suplemento de precio) Plumin de 11.8 m a 35.8 m regulable de 0°, 20° y 40° (o hidráulicamente 0° a 40°), plumin de carga pesada de 4,7 m, plumin HTLJ de 8.5 m a 21 m (hidráulicamente regulable y telescópico 0° - 60°), gancho de 10 a 200 to, 20 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		Outriggers Estabilizadores
	Hook block / Swivel hook Gancho / Gancho de bola	156,527 lbs	Counterweight Contrapeso
	Carrier speeds Velocidades del chasis		Radius Radio
	Transmission / Gear Transmisión / Marchas		Boom extension Plumin
	Gradeability Superación de pendientes		Boom extension hydraulically Plumin hidráulicamente
	Off road Todo terreno		Boom extension HTLJ Plumin HTLJ
	On road En carretera		Radius Radio
	Superstructure speeds Velocidades de la superestructura		Counterweight versions Variaciones de contrapeso
	Main winch Cabrestante principal		Carrier chassis
	Auxiliary winch 2º cabrestante		Superstructure superestructura
	Slewing system Sistema de giro	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.
	Slewing system hydraulically locked Sistema de giro embolamiento hidráulico		
	Derrick system Elevación 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.
	Boom telescoping Telescopaje de pluma		



Lifting your dreams

TADANO AMERICA Corporation

4242 West Greens Road, Houston, TX 77066

Phone: 281-869-0030 Fax: 281-869-0040

www.tadanoamerica.com E-mail: tac.sales@tadano.com

Parts Hotline: 281-860-0022 Service Hotline: 281-860-5025