



Load Chart Figure Booklet (for Online Practice Questions)

May 2018



35 - 110 ft.
(10.7 - 33.5 m)



13,900 lbs.
(6305 kg)



100%



360°



85% Domestic (Pounds)

Power Pinned Fly Retracted								Power Pin. Fly Ext. & 85 ft.
(Feet)	35	40	45	55	65	75	85	110
10	120,000 (65)	90,000 (68)	82,000 (71)	80,250 (75)				
12	99,000 (61)	90,000 (65)	82,000 (68)	75,000 (73)	67,000 (76)			
15	83,500 (55.5)	83,500 (60)	82,000 (64)	68,000 (69.5)	59,000 (73)			
20	64,350 (44.5)	64,350 (51)	64,300 (56.5)	55,750 (63.5)	49,000 (68.5)	43,000 (72)	39,350 (74.5)	
25	49,450 (31)	49,450 (41)	49,450 (48.5)	47,900 (57.5)	40,400 (63.5)	35,550 (68)	33,000 (71)	27,100 (76)
30		39,600 (28)	39,600 (39)	39,600 (51)	34,350 (58.5)	31,000 (63.5)	27,800 (67.5)	23,450 (74)
35			32,400 (26.5)	32,400 (44)	29,750 (53)	26,550 (59)	23,900 (63.5)	20,600 (71)
40				24,248 (35.5)	24,280 (47)	23,200 (54.5)	20,850 (60)	18,350 (68)
45				19,250 (24.5)	19,250 (40.5)	19,250 (49.5)	18,300 (55.5)	16,450 (65)
50					15,830 (32.5)	15,830 (44)	15,830 (51.5)	14,750 (62)
55					13,330 (22.5)	13,330 (38)	13,330 (46.5)	13,250 (59)
60						11,450 (31)	11,450 (41.5)	11,950 (56)
65						9,760 (21.5)	9,760 (36)	10,800 (52.5)
70							8,150 (29.5)	9,730 (49)
75							6,620 (20.5)	8,450 (45.5)
80								7,460 (41.5)
85								6,530 (37)
90								5,620 (32)
95								4,750 (26.5)
100								3,940 (18.5)
Minimum boom angle (deg.) for indicated length (no load)							0	0
Maximum boom length (ft.) at 0 deg. boom angle (no load)							85	110
Note: () Boom angles are in degrees.								



35 - 110 ft.
(10.7 - 33.5 m)



13,900 lbs.
(6305 kg)



50%



360°

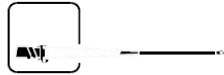


85% Domestic (Pounds)

Power Pinned Fly Retracted								Power Pin. Fly Ext. & 85 ft.
(Feet)	35	40	45	55	65	75	85	110
10	109,500 (65)	90,000 (68)	82,000 (71)	80,250 (75)				
12	97,250 (61)	90,000 (65)	82,000 (68)	75,000 (73)	67,000 (76)			
15	82,600 (55.5)	82,600 (60)	82,000 (64)	68,000 (69.5)	59,000 (73)			
20	53,000 (44.5)	53,000 (51)	53,000 (56.5)	53,000 (63.5)	49,000 (68.5)	43,000 (72)	39,350 (74.5)	
25	36,100 (31)	36,100 (41)	36,100 (48.5)	36,100 (57.5)	36,100 (63.5)	35,350 (68)	33,000 (71)	27,100 (76)
30		26,400 (28)	26,400 (39)	26,400 (51)	26,400 (58.5)	26,400 (63.5)	25,800 (67.5)	23,450 (74)
35			20,400 (26.5)	20,400 (44)	20,400 (53)	20,400 (59)	20,100 (63.5)	20,600 (71)
40				14,800 (35.5)	14,800 (47)	14,800 (54.5)	14,800 (60)	17,050 (68)
45				11,450 (24.5)	11,450 (40.5)	11,450 (49.5)	11,450 (55.5)	14,050 (65)
50					9,240 (32.5)	9,240 (44)	9,240 (51.5)	11,700 (62)
55					7,610 (22.5)	7,610 (38)	7,610 (46.5)	9,800 (59)
60						6,400 (31)	6,400 (41.5)	8,180 (56)
65						5,240 (21.5)	5,240 (36)	6,800 (52.5)
70							4,080 (29.5)	5,580 (49)
75							2,920 (20.5)	4,670 (45.5)
80								3,930 (41.5)
85								3,180 (37)
90								2,510 (32)
95								1,920 (26.5)
100								1,340 (18.5)
Minimum boom angle (deg.) for indicated length (no load)							0	0
Maximum boom length (ft.) at 0 deg. boom angle (no load)							85	110
Note: () Boom angles are in degrees.								



35 - 110 ft.
(10.7 - 33.5 m)



32 - 56 ft.
(9.8 - 17.1 m)



13,900 lbs.
(6305 kg)



100%



360°

BOOM
ANGLE



85% Domestic (Pounds)

POWER PINNED FLY RETRACTED

(Degrees)	32 ft. LENGTH			44 ft. LENGTH			56 ft. LENGTH		
	0° OFFSET	15° OFFSET	30° OFFSET	0° OFFSET	15° OFFSET	30° OFFSET	0° OFFSET	15° OFFSET	30° OFFSET
75	20,000 (26.7)	15,000 (33.2)	10,000 (37.9)	13,000 (31.1)	8,600 (40.5)	6,300 (48.5)	9,000 (35.4)	6,700 (48.3)	4,700 (58.3)
70	16,900 (36.2)	12,500 (42.2)	9,100 (46.7)	11,300 (41.7)	7,800 (50.7)	5,800 (58.0)	7,600 (46.7)	5,900 (59.2)	4,200 (68.3)
65	14,500 (45.3)	10,900 (50.9)	8,300 (55.1)	10,000 (51.9)	7,000 (60.4)	5,300 (67.0)	6,500 (57.7)	5,300 (69.7)	3,900 (77.8)
60	12,500 (54.1)	9,500 (59.1)	7,500 (63.1)	8,800 (61.8)	6,300 (69.7)	5,100 (75.5)	5,600 (68.3)	4,700 (79.6)	3,700 (86.7)
55	10,800 (62.5)	8,300 (66.9)	6,700 (70.5)	7,600 (71.2)	5,700 (78.5)	4,900 (83.4)	4,700 (78.3)	4,200 (88.9)	3,500 (94.8)
50	8,480 (70.4)	7,200 (74.1)	5,900 (77.3)	6,800 (80.0)	5,300 (86.6)	4,700 (90.6)	4,200 (87.7)	3,800 (97.6)	3,400 (102.2)
45	6,550 (77.7)	5,870 (80.7)	5,100 (83.5)	5,760 (88.2)	4,740 (94.0)	4,260 (97.1)	3,900 (96.5)	3,700 (105.4)	3,300 (108.9)

POWER PINNED FLY EXTENDED

75	11,900 (36.6)	9,100 (41.7)	7,500 (46.9)	*9,000 (41.9)	7,400 (53.0)	5,600 (60.0)	**7,000 (47.6)	6,100 (60.9)	4,400 (69.2)
70	10,400 (48.1)	8,300 (52.9)	7,000 (57.7)	8,800 (54.4)	6,600 (64.9)	5,200 (71.0)	6,900 (60.8)	5,400 (73.2)	4,000 (81.0)
65	8,700 (59.2)	7,400 (63.7)	6,500 (68.1)	7,600 (66.4)	5,900 (76.3)	4,700 (81.5)	5,700 (73.7)	4,800 (84.9)	3,800 (92.2)
60	7,600 (69.9)	6,500 (74.0)	5,900 (77.9)	6,400 (78.0)	5,400 (87.1)	4,600 (91.4)	5,000 (86.0)	4,300 (96.0)	3,600 (102.7)
55	6,900 (80.1)	5,900 (83.8)	5,500 (87.1)	5,600 (90.0)	4,770 (97.3)	4,200 (100.6)	4,200 (97.6)	3,700 (106.4)	3,300 (112.4)
50	5,150 (89.6)	4,590 (92.8)	4,140 (95.6)	4,470 (99.3)	3,460 (106.8)	3,190 (109.0)	3,700 (108.6)	3,130 (116.0)	2,590 (121.3)
45	3,710 (98.4)	3,320 (101.2)	3,030 (103.3)	3,200 (108.9)	2,480 (115.4)	2,370 (116.5)	2,840 (118.8)	2,260 (124.8)	1,880 (129.2)

NOTE: () Reference radii in feet.

*If two parts of line are used, the capacity increases to 10,200 lbs.

**If two parts of line are used, the capacity increases to 8,400 lbs.



35 - 110 ft.
(10.7 - 33.5 m)



13,900 lbs.
(6305 kg)



Stationary
29.5 X 25 - 28PR Tires



360°



75% Domestic (Pounds)

(Feet)	35	40	45	55	65
10	52,820 (65)	34,950 (68)			
12	44,820 (61)	29,200 (65)	29,200 (68)		
15	31,320 (55.5)	23,000 (60)	23,000 (64)	23,000 (69.5)	
20	18,890 (44.5)	16,050 (51)	16,050 (56.5)	16,050 (63.5)	
25	12,880 (31)	11,450 (41)	11,450 (48.5)	11,450 (57.5)	
30		8,520 (28)	8,290 (39)	8,290 (51)	
35			5,790 (26.5)	5,790 (44)	5,790 (53)
40				3,840 (35.5)	3,840 (47)
45				2,530 (24.5)	2,530 (40.5)
50					1,280 (32.5)

Note: () Boom angles are in degrees.

Boom Angle	35	40	45	55
0°	8,780 (29.6)	6,120 (34.3)	4,160 (39.3)	1,470 (49.3)

Note: () Reference radii in feet.



35 - 110 ft.
(10.7 - 33.5 m)



13,900 lbs.
(6305 kg)



Pick & Carry
up to 2.5 MPH
29.5 X 25 - 28PR Tires



Boom Centered
Over Front



75% Domestic (Pounds)

(Feet)	35	40	45	55	65	75	85
10	47,000 (65)	45,100 (68)	45,100 (71)				
12	42,020 (61)	38,950 (65)	38,950 (68)				
15	34,160 (55.5)	31,950 (60)	31,950 (64)	31,950 (69.5)			
20	30,480 (44.5)	23,850 (51)	23,850 (56.5)	23,850 (63.5)	23,850 (68.5)	23,850 (72)	
25	23,080 (31)	19,210 (41)	18,400 (48.5)	18,400 (57.5)	18,400 (63.5)	18,400 (68)	
30		16,950 (28)	14,450 (39)	14,450 (51)	14,450 (58.5)	14,450 (63.5)	
35			12,530 (26.5)	11,450 (44)	11,450 (53)	11,450 (59)	11,450 (63.5)
40				9,520 (35.5)	9,150 (47)	9,150 (54.5)	9,150 (60)
45				7,230 (24.5)	7,230 (40.5)	7,230 (49.5)	7,230 (55.5)
50					5,430 (32.5)	5,430 (44)	5,430 (51.5)
55					3,990 (22.5)	3,990 (38)	3,990 (46.5)
60						2,850 (31)	2,850 (41.5)
65						2,010 (21.5)	1,500 (36)
70							1,320 (29.5)

Note: () Boom angles are in degrees.

Boom Angle	35	40	45	55	65	75
0°	17,350 (29.6)	13,100 (34.3)	9,900 (39.3)	5,680 (49.3)	3,010 (59.3)	1,400 (69.3)

Note: () Reference radii in feet.

Weight Reductions for Load Handling Devices

32 FT. BOOM EXTENSION

*Stowed -	930 lbs.
*Erected -	5,519 lbs.

32 FT. - 56 FT. BOOM EXTENSION

*Stowed -	1,163 lbs.
*Erected (Retracted) -	6,996 lbs.
*Erected (Extended) -	8,945 lbs.

*Reduction of main boom capacities

AUXILIARY BOOM HEAD	220 lbs.
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HOOKBLOCKS and OVERHAUL BALLS:

60 Ton, 5 Sheave	1,370 lbs.+
15 Ton, 1 Sheave	380 lbs.+
7 1/2 Ton Overhaul Ball	338 lbs.+
10 Ton Overhaul Ball	560 lbs.+

Rated lifting capacities





































IMPORTANT NOTES:

WARNING: THIS CHART IS ONLY A GUIDE.

The notes below are for illustration only and should not be relied upon to operate the crane. The individual crane's load chart, operating instructions and other instruction plates must be read and understood prior to operating the crane.

1. All rated loads have been tested to and meet minimum requirements of SAE J1063 NOV93 - Cantilevered Boom Crane Structures - Method of Test, and do not exceed 85% of the tipping load on outriggers fully extended and 50% extended, and 75% of the tipping load on outriggers 0% extended (fully retracted) and rubber, as determined by SAE J765 OCT90 Crane Stability Test Code.
2. Capacities given do not include the weight of hookblocks, slings, auxiliary lifting equipment and load handling devices. Their weights must be added to the load to be lifted. When more than minimum required reeving is used, the additional rope weight shall be considered part of the load.
3. Defined Arc $\pm 6^\circ$ on either side of longitudinal centerline of machine.
4. Capacities appearing above the bold line are based on structural strength. Tipping should never be relied upon as a capacity limit indicator.
5. All capacities are for crane on firm, level surface. It may be necessary to have structural supports under the outrigger floats or tires to spread the load to a larger bearing surface.
6. When either boom length or radius or both are between values listed, the smallest load shown at either the next larger radius or boom length shall be used.
7. Tires shall be inflated to the recommended pressure before lifting on rubber.
8. For outrigger operation, ALL outriggers shall be properly extended with tires raised free of ground before raising the boom or lifting loads.

Symbols Glossary

	Frame		Steering
	Outriggers		Transmission
	Outrigger Controls		Axles
	Engine		Brakes
	Fuel Tank Capacity		Tires
	Electrical System		Suspension
	Drive		Rotation
	Lights		Boom Elevation
	Cab		Swing
	Boom		Counterweight
	Fixed Swingaway		Oil
	Tele-Swingaway		Hydraulic System
	Jib		Hoist
	Boom Nose		Radius
	Boom Extension		Boom Length
	Speed		Hookblock
	Grade		Gear
	Lattice Extension		Luffing Jib