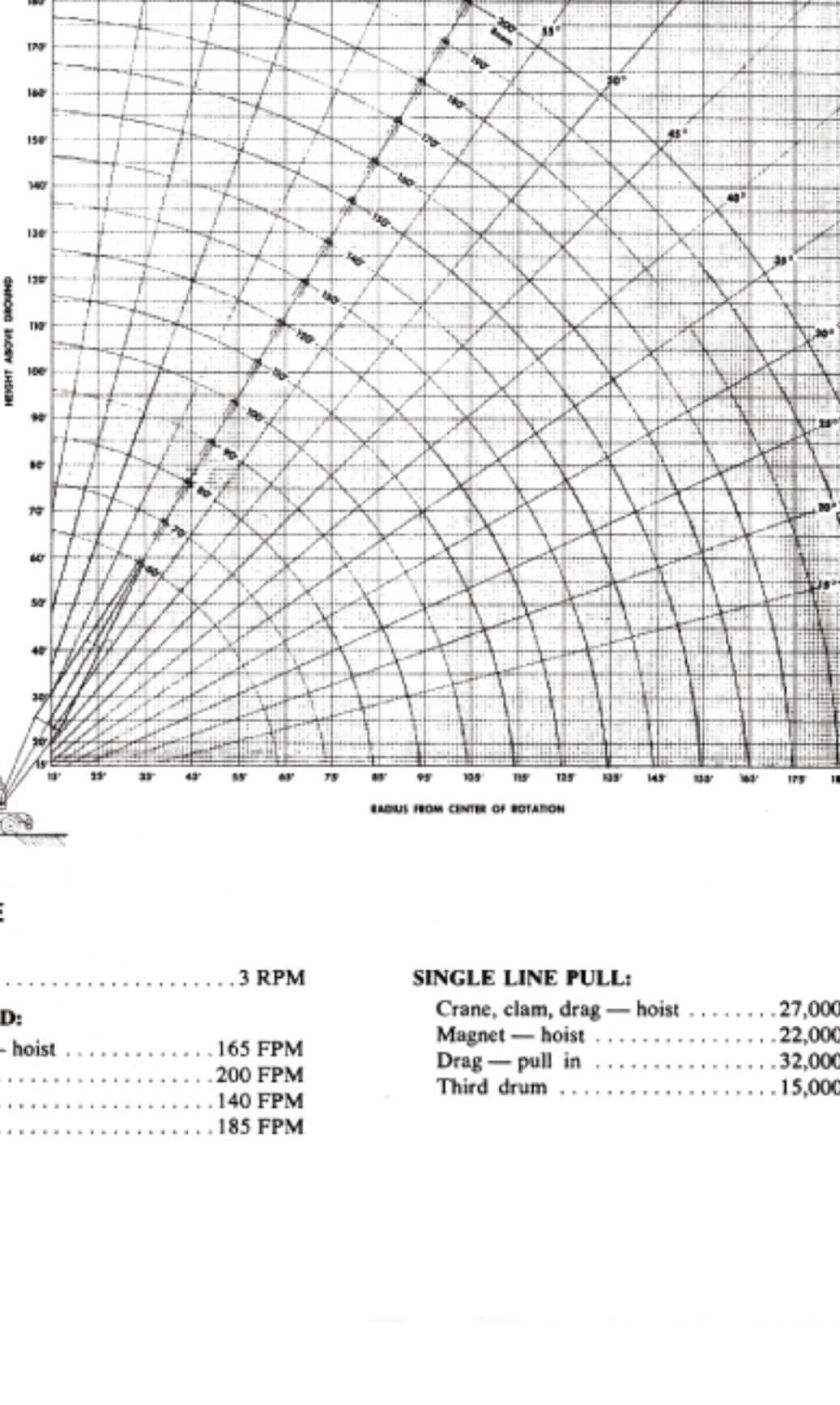


LIFTING CHARTS - Conventional Truck Cranes

AMERICAN MODEL 7450 - 80 TON CAPACITY



PERFORMANCE

SWING SPEED: 3 RPM

SINGLE LINE SPEED:

Crane, clam, drag — hoist 165 FPM
Magnet — hoist 200 FPM
Drag — pull in 140 FPM
Third drum 185 FPM

SINGLE LINE PULL:

Crane, clam, drag — hoist 22,000 lbs. SLP
Magnet — hoist 27,000 lbs. SLP
Drag — pull in 32,000 lbs. SLP
Third drum 15,000 lbs. SLP

MODEL 7450 LIFTING CRANE RATINGS

Tubular Chord Boom with Hammerhead

Boom Length	Radius in Feet	Boom Angle Degrees	Free Over Side	Free Over Rear	Outriggers Extended And Set
40'	12	81	71,750	69,500	130,000
	15	76	52,650	49,550	133,000
	20	69	35,950	47,100	108,000
	25	61	27,000	35,300	81,900
	30	52	21,350	27,950	60,900
	35	41	17,500	23,000	*48,250
50'	40	28	14,700	19,400	*39,800
	12	83	71,750	69,500	130,000
	15	79	52,450	49,350	132,800
	20	73	35,750	46,900	105,800
	25	66	26,800	35,100	81,700
	30	61	21,150	27,750	60,700
60'	35	54	17,300	22,800	48,050
	40	46	14,500	19,200	*38,650
	50	25	10,700	14,400	*29,950
	14	83	58,650	78,000	138,250
	15	82	52,250	69,150	132,600
	20	77	35,550	46,700	105,600
70'	25	72	26,600	34,900	81,500
	30	66	20,950	27,550	60,500
	35	59	16,300	22,000	47,550
	40	50	12,650	17,000	38,200
	50	42	10,500	14,200	39,400
	60	23	8,050	11,100	22,350
80'	15	83	52,250	69,150	132,600
	20	78	35,350	46,500	105,400
	25	74	26,400	34,700	81,300
	30	68	20,750	27,050	60,300
	35	64	16,900	22,400	47,650
	40	60	14,100	18,800	38,200
90'	50	50	10,300	14,000	28,550
	60	42	8,150	10,900	22,150
	70	21	6,150	8,650	17,900
	16	83	48,500	64,250	125,800
	20	78	35,250	46,500	105,100
	25	74	26,200	34,500	81,100

Boom Length	Radius in Feet	Boom Angle Degrees	Free Over Side	Free Over Rear	Outriggers Extended And Set
80'	35	58	16,700	22,200	47,450
	40	49	13,900	18,600	39,000
	50	39	10,100	13,800	28,350
	60	29	7,650	10,700	21,950
	70	20	5,950	8,450	17,700
	80	10	4,050	5,650	*14,650
90'	17	83	44,950	59,500	121,200
	20	83	34,950	45,100	105,000
	25	78	26,000	34,300	80,800
	30	74	20,350	26,550	69,800
	35	71	16,500	22,000	47,250
	40	67	13,700	18,400	38,800
100'	50	60	9,900	13,000	28,150
	60	53	7,450	10,500	21,750
	70	44	5,750	8,250	17,500
	80	34	4,450	6,650	14,450
	90	18	3,550	5,450	*12,150
	18	83	41,400	54,850	115,800
110'	20	83	34,750	45,900	104,800
	25	79	25,800	34,100	80,700
	30	76	20,150	26,750	59,700
	35	73	16,300	21,800	47,050
	40	70	13,500	18,200	38,600
	50	62	8,500	11,250	27,650
120'	60	57	7,250	10,300	21,550
	70	50	5,550	8,050	17,300
	80	42	4,300	6,800	14,200
	90	32	3,300	5,000	11,950
	100	18	2,500	4,250	*10,150
	20	83	34,550	45,700	103,000
130'	25	80	25,600	33,800	78,600
	30	77	19,950	26,550	59,500
	35	75	16,100	21,600	46,850
	40	72	13,300	18,000	38,150
	50	66	9,500	13,000	27,750
	60	60	7,050	10,100	21,350
140'	70	54	5,250	7,850	14,000
	80	47	4,050	6,250	11,000

Tubular Chord Boom with Hammerhead

Boom Length	Radius in Feet	Boom Angle Degrees	Free Over Side	Free Over Rear	Outriggers Extended And Set
110'	50	40	3,100	5,000	11,750
	100	31	2,300	4,050	9,850
	110	16	1,700	3,200	*8,500
	21	83	32,550	43,150	105,000
	25	83	25,400	33,700	75,000
	30	78	19,750	26,250	59,200
120'	35	77	15,900	21,400	46,650
	40	74	13,100	17,800	38,200
	50	69	9,300	13,000	27,550
	60	63	6,850	9,800	21,150
	70	58	5,150	7,650	16,900
	80	52	3,850	6,050	13,850
130'	90	46	3,650	5,850	13,550
	100	38	2,100	3,850	9,750
	110	29	1,500	3,000	8,300
	120	16	1,150	1,520	*29,850
	25	83	30,550	40,550	85,000
	30	83	25,200	33,500	74,800
140'	35	79	19,550	26,150	59,100
	40	77	16,500	22,000	46,800
	50	70	12,500	17,600	38,200
	60	63	9,100	12,800	27,350
	70	58	7,050	10,900	22,150
	80	52	5,650	8,750	18,500
150'	90	46	4,550	7,450	16,700
	100	38	3,650	5,850	13,650
	110	30	2,700	4,600	11,350
	120	17	2,100	3,800	9,150
	130	10	1,300	2,800	8,100
	140	5	1,150	2,150	6,950
150'	15	-	-	1,550	5,950

Boom Length	Radius in Feet	Boom Angle Degrees	Free Over Side	Free Over Rear	Outriggers Extended And Set
140'	25	83	28,550	38,000	82,000
	30	80	25,000	33,300	74,600
	35	78	21,500	29,000	58,900
	40	76	17,700	24,400	46,250
	50	68	12,700	17,400	37,800
	60	62	9,200	12,800	27,150
150'	70	63	6,450	9,500	20,750
	80	53	4,750	7,250	16,500
	90	46	3,450	5,350	12,850
	100	38	2,500	4,400	11,150
	110	28	1,700	3,600	9,300
	120	17	1,100	2,800	7,900
160'	130	10	-	1,350	5,750
	140	5	-	-	4,950
	25	83	28,550	38,000	82,000
	30	80	24,800	33,100	74,400
	35	78	21,150	28,800	58,700
	40	76	17,250	24,500	46,850
170'	50	73	8,700	12,400	26,950
	60	66	6,250	9,300	20,550
	70	60	4,850	7,050	16,300
	80	51	3,250	5,450	13,250
	90	56	2,300	4,200	10,950
	100	51	1,500	3,250	9,150
180'	110	46	1,100	2,550	7,950
	120	34	-	1,750	6,550
	130	21	-	-	5,550
	140	10	-	-	4,550
	150	14	-	-	4,050

Load ratings do not exceed 85% of tipping with crane standing level on firm, uniformly supporting surface. Outrigger ratings at radii of 25 feet or less are based on strength, not stability. Safe loads depend on ground conditions, boom length, radius of operation, condition and inflation (100 psi) of tires, and proper handling, all of which must be taken into consideration by user.

Radius in feet is the horizontal distance at ground level from center pin to a vertical line through the center of gravity of the suspended load. Blocks, slings, buckets and other load-carrying devices are considered part of the load. Ratings marked () require retractable "A" frame fully raised. For duty cycle ratings (dragline, clamshell, grapple, magnet, etc.)

For loads up to 46,500 lbs. Use 2-part maximum reeving without hanger block. Reduce ratings 500 lbs. When using optional two-sheave hanger block (for up to 6-part line).

Crane, with "D" counterweight and outriggers extended and set, will self-erect 150 ft. main boom with hammerhead less jib or:

200 ft. boom plus 20 ft. No. 9 jib. 190 ft. boom plus 40 ft. No. 9 jib. 200 ft. boom plus 40 ft. No. 9H jib.
200 ft. boom plus 30 ft. No. 9 jib. 180 ft. boom plus 50 ft. No. 9 jib. 190 ft. boom plus 50 ft. No. 9H jib.
180 ft. boom plus 60 ft. No. 9H jib.

MODEL 7450 LIFTING CRANE RATINGS

Tubular Chord Boom with Tapered Tip

90'					
30	73	21,250	28,000	60,950	
35	70	17,650	23,000	48,300	
40	66	14,800	19,450	39,800	
50	59	11,000	14,800	29,200	
60	52	8,650	11,450	22,800	
70	43	6,800	9,250	18,500	
80	33	5,550	7,650	15,450	
90	17	4,550	6,450	*13,150	

Tubular Chord I