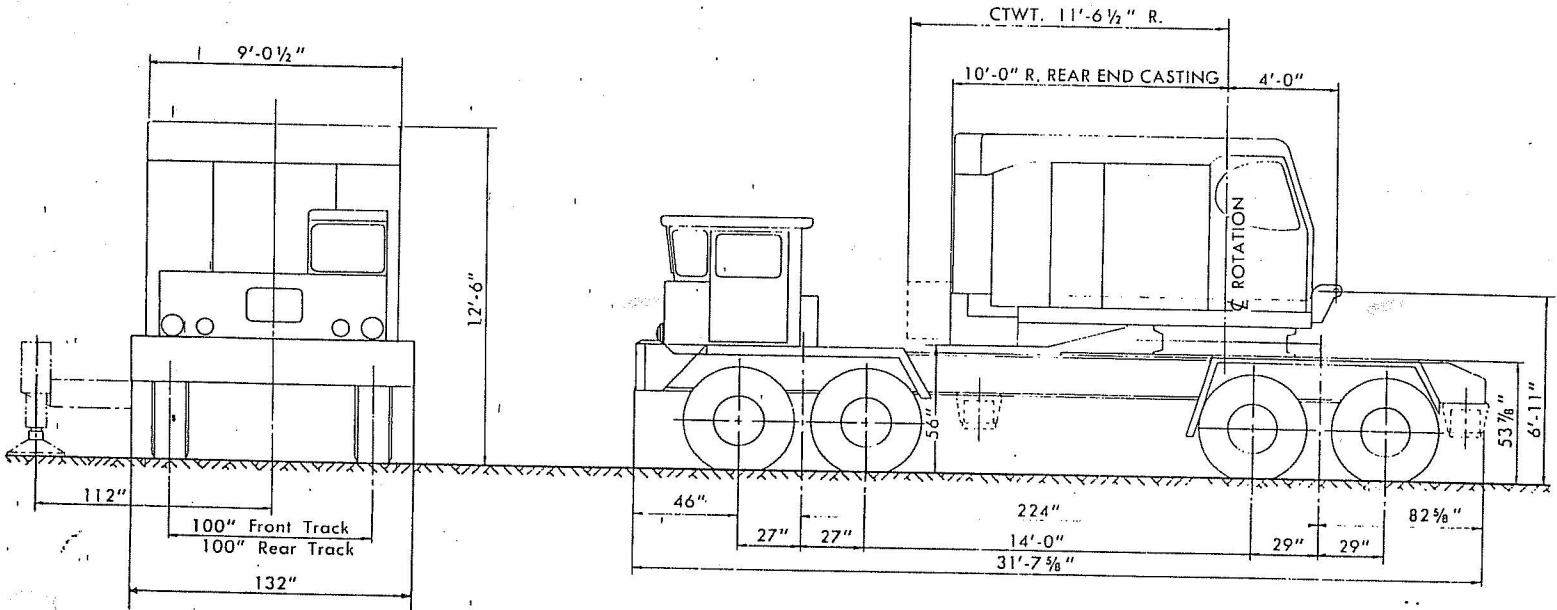


60-T

SERIES FOUR

60 TON TRUCK CRANE SPECIFICATIONS



CRANE	
Hoisting, front drum, plain	17 1/2 in. P. Dia.
Hoist rope	7/8 in. Dia.
Hoisting, rear drum, grooved	18 1/2 in. P. Dia.
Hoist rope	3/4 in. Dia.
Boom point sheaves (3)	18 1/8 in. P. Dia.

CLAMSHELL	
Closing drum, plain	17 1/2 in. P. Dia.
Closing rope, 1-part	3/4 in. Dia.
Holding drum, grooved	18 1/2 in. P. Dia.
Holding rope, 1-part	3/4 in. Dia.
Boom point sheaves (3)	18 in. P. Dia.

DRAGLINE	
Hoist drum, grooved	18 1/2 in. P. Dia.
Hoist rope	3/4 in. Dia.
Drag drum, grooved	17 1/2 in. P. Dia.
Drag rope	1 in. Dia.
Tubular boom point sheaves (3)	18 in. P. Dia.
Angle boom point sheave (1)	30 in. P. Dia.

POWER SPECIFICATIONS			
Make Model Type	GM* 6-71N Diesel	Caterpillar* 3306 T Diesel	Cummins N-855 P Diesel
Type of Drive	Tor. Conv.	Tor. Conv.	Tor. Conv.
Cylinders	6	6	6
Bore x stroke, inches	4 1/4 x 5	4 3/4 x 6	5 1/2 x 6
Displacement, cu. in.	426	638	855
Net engine H.P. at governed speed	144	145	149
Governed speed	2000	2100	2000
Fuel tank capacity, gals.	70	70	70
Crankcase capacity, qts.	28	24	32
Cooling system capacity, gals.	11	12	21
Starting	12V-Elec.	12V-Elec.	12V-Elec.
Altitude Range, Feet	0-12,000	0-12,500	0-9,000

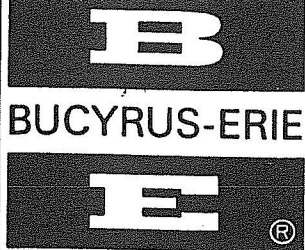
*TWO SPEED TRANSMISSIONS: (Optional — Instead of Tor. Conv.)
 1) Overdrive Gear Box Ratios: 1:1 and 1:1.48
 2) Underdrive Gear Box Ratios: 1:1 and 1:0.67

WEIGHTS IN POUNDS			
	40 Ft. Angle or Tubular Boom		
	Crane	Dragline	Clamshell
Net domestic, approx.	100,900	101,200	100,950
Working, approx.	101,950	103,450	103,750
Export shipping, approx.	103,050	104,450	104,750
Ships option tons	133	135	136

LINE PULLS AND SPEEDS						
Drum Pitch Diameter (Inches)	Direct Drive 1.0 to 1.0		Overdrive 1.0 to 1.48		Underdrive 1.0 to 0.67	
	Pull In Lbs.	Speed F.P.M.	Pull In Lbs.	Speed F.P.M.	Pull In Lbs.	Speed F.P.M.
17 1/2	23,300	154	15,700	228	34,600	104
18 1/2	22,000	162	14,800	240	32,800	110

Swing Speed 3.9 R.P.M.
 Direct Drive:
 Speeds and pulls based on engine operating at full load speed; direct drive.
 Torque Converter Drive:
 When torque converter is operating at full stall, line pulls are approximately 240 percent of those shown for direct drive.

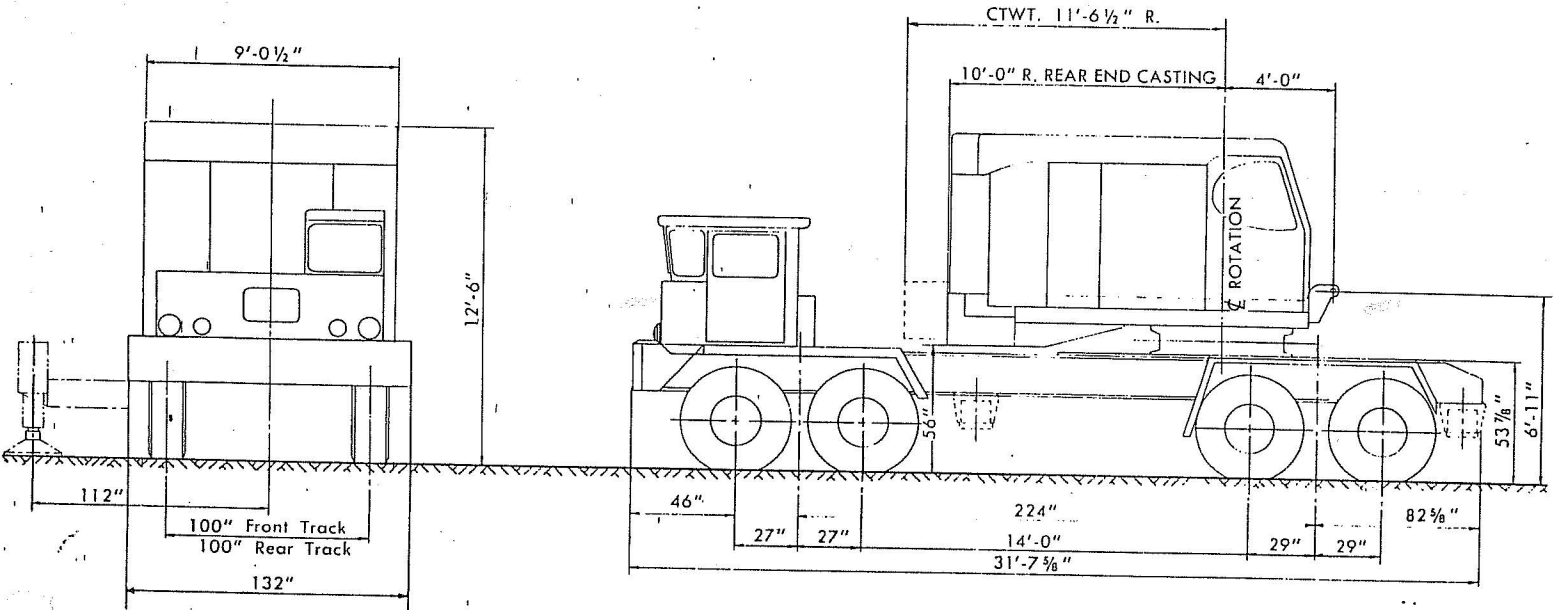
Hook block and buckets included in working weight and export shipping weight, but not in domestic net weight.



60-T

SERIES FOUR

60 TON TRUCK CRANE SPECIFICATIONS



CRANE	
Hoisting, front drum, plain	17 1/2 in. P. Dia.
Hoist rope	7/8 in. Dia.
Hoisting, rear drum, grooved	18 1/2 in. P. Dia.
Hoist rope	3/4 in. Dia.
Boom point sheaves (3)	18 1/8 in. P. Dia.

CLAMSHELL	
Closing drum, plain	17 1/2 in. P. Dia.
Closing rope, 1-part	3/4 in. Dia.
Holding drum, grooved	18 1/2 in. P. Dia.
Holding rope, 1-part	3/4 in. Dia.
Boom point sheaves (3)	18 in. P. Dia.

DRAGLINE	
Hoist drum, grooved	18 1/2 in. P. Dia.
Hoist rope	3/4 in. Dia.
Drag drum, grooved	17 1/2 in. P. Dia.
Drag rope	1 in. Dia.
Tubular boom point sheaves (3)	18 in. P. Dia.
Angle boom point sheave (1)	30 in. P. Dia.

POWER SPECIFICATIONS			
Make Model Type	GM* 6-71N Diesel	Caterpillar* 3306 T Diesel	Cummins N-855 P Diesel
Type of Drive	Tor. Conv.	Tor. Conv.	Tor. Conv.
Cylinders	6	6	6
Bore x stroke, inches	4 1/4 x 5	4 3/4 x 6	5 1/2 x 6
Displacement, cu. in.	426	638	855
Net engine H.P. at governed speed	144	145	149
Governed speed	2000	2100	2000
Fuel tank capacity, gals.	70	70	70
Crankcase capacity, qts.	28	24	32
Cooling system capacity, gals.	11	12	21
Starting	12V-Elec.	12V-Elec.	12V-Elec.
Altitude Range, Feet	0-12,000	0-12,500	0-9,000

*TWO SPEED TRANSMISSIONS: (Optional — Instead of Tor. Conv.)
 1) Overdrive Gear Box Ratios: 1:1 and 1:1.48
 2) Underdrive Gear Box Ratios: 1:1 and 1:0.67

WEIGHTS IN POUNDS			
	40 Ft. Angle or Tubular Boom		
	Crane	Dragline	Clamshell
Net domestic, approx.	100,900	101,200	100,950
Working, approx.	101,950	103,450	103,750
Export shipping, approx.	103,050	104,450	104,750
Ships option tons	133	135	136

LINE PULLS AND SPEEDS						
Drum Pitch Diameter (Inches)	Direct Drive 1.0 to 1.0		Overdrive 1.0 to 1.48		Underdrive 1.0 to 0.67	
	Pull In Lbs.	Speed F.P.M.	Pull In Lbs.	Speed F.P.M.	Pull In Lbs.	Speed F.P.M.
17 1/2	23,300	154	15,700	228	34,600	104
18 1/2	22,000	162	14,800	240	32,800	110

Swing Speed 3.9 R.P.M.
 Direct Drive:
 Speeds and pulls based on engine operating at full load speed; direct drive.
 Torque Converter Drive:
 When torque converter is operating at full stall, line pulls are approximately 240 percent of those shown for direct drive.

Hook block and buckets included in working weight and export shipping weight, but not in domestic net weight.

60-T — TUBULAR BOOM 60 TON TRUCK CRANE

60 TON TRANSIT CRANE (P. C. & S. A. CLASS 12-297)

MAXIMUM ALLOWABLE LOADS — CRANE SERVICE													
Boom Lgh. In Feet	Load Rad. In Feet	Boom Angle In Deg.	Boom Point Pin Hght. (Ft. In.)	Outriggers Set † Load In Pounds		On Tires Load In Pounds		Boom Lgh. In Feet	Load Rad. In Feet	Boom Angle In Deg.	Boom Point Pin Hght. (Ft. In.)	Outriggers Set † Load In Pounds	
				Over Side	Over Rear	Over Side	Rear Over					Over Side	Over Rear
40	10	81	46-6	*120,000	*120,000	*88,000	*94,700	130	30	78	134-3	*35,600	*35,600
	12	78	46-0	*120,000	*120,000	*65,300	*72,000		40	74	131-9	*28,200	*28,200
	15	74	45-3	*105,000	*105,000	48,200	54,400		50	69	128-6	20,300	23,300
	20	66	43-6	*81,000	*81,000	32,500	37,400		60	64	124-3	15,500	18,000
	25	58	41-0	60,300	*65,500	24,300	28,300		70	59	118-9	12,300	14,400
	30	49	37-3	45,300	51,000	19,300	22,700		80	54	112-3	10,000	11,800
50	35	39	32-0	36,200	40,800	15,900	18,800	90	49	104-6	8,300	9,900	
	40	25	24-3	30,000	34,000	13,400	16,000	100	42	94-6	7,000	8,400	
	12	80	56-3	*120,000	*120,000	*65,000	*71,700	110	35	82-0	5,900	7,200	
	15	77	55-6	*105,000	*105,000	47,900	54,000	120	27	65-6	5,000	6,200	
	20	71	54-3	*81,000	*81,000	32,100	37,000	140	30	79	144-6	*32,000	*32,000
	25	66	52-3	*60,000	*60,000	23,900	28,000		40	75	142-0	*27,000	*27,000
30	58	49-6	45,000	50,800	18,900	22,300	50		70	139-0	20,000	23,100	
40	43	41-6	29,700	33,700	13,100	15,600	60		66	135-0	15,200	17,700	
50	23	26-6	21,900	24,000	9,800	11,800	70		61	130-9	12,100	14,100	
15	79	65-9	*105,000	*105,000	47,700	53,800	80		57	124-6	9,500	11,500	
60	20	74	64-9	*80,000	*80,000	32,000	36,900	90	52	117-3	8,050	9,600	
	25	69	63-0	59,900	*65,000	23,800	27,800	100	46	108-9	6,700	8,100	
	30	64	61-0	44,900	*50,000	18,700	22,100	110	40	98-3	5,650	6,900	
	35	58	58-3	35,700	40,400	15,300	18,300	120	34	85-3	4,750	5,800	
	40	53	54-9	29,500	33,500	12,900	15,500	150	30	80	154-6	*27,000	*27,000
	50	39	45-3	21,800	24,800	9,600	11,700		40	76	152-6	*23,000	*23,000
60	21	28-3	17,000	19,500	7,500	9,200	50		72	149-6	*19,900	*20,500	
15	81	76-0	*102,500	*102,500	47,500	53,600	60		68	146-0	15,100	17,600	
20	76	75-0	*79,800	*79,800	31,700	36,600	70		64	141-6	11,900	14,000	
25	72	73-6	*59,700	*64,500	23,500	27,500	80		60	136-3	9,600	11,400	
70	30	68	71-9	44,700	50,400	18,500	21,800	90	55	129-9	7,900	9,500	
	40	59	68-9	29,300	33,300	12,700	15,200	100	50	122-3	6,550	7,950	
	50	48	59-6	21,500	24,600	9,400	11,400	110	45	113-0	5,450	6,750	
	60	36	48-9	16,800	19,300	7,200	9,000	120	39	102-0	4,600	5,750	
	20	78	85-3	*79,500	*79,500	31,400	36,300	160	30	80	164-9	*25,200	*25,200
	25	74	84-0	*59,500	*63,500	23,200	27,200		40	76	162-9	*21,900	*21,900
30	71	82-6	44,500	49,500	18,200	21,600	50		73	160-0	*19,000	*19,000	
40	63	78-3	29,100	33,000	12,400	14,900	60		69	156-9	14,900	*16,600	
50	54	72-3	21,300	24,300	9,100	11,100	70		65	152-6	11,700	13,700	
60	45	64-0	16,500	19,000	7,000	8,700	80		61	147-6	9,400	11,200	
80	70	34	52-0	13,400	15,400	5,500	7,000	90	57	141-9	7,650	9,200	
	80	18	31-9	11,100	12,900	4,500	5,700	100	53	134-9	6,300	7,700	
	20	80	95-6	*79,000	*79,000	31,200	36,100	110	48	126-9	5,200	6,500	
	25	77	94-6	*59,000	*60,500	23,000	27,000	120	43	117-0	4,350	5,500	
	30	73	93-0	44,400	49,500	18,000	21,400	170	30	80	176-9	*23,000	*23,000
	40	66	89-3	28,900	32,900	12,200	14,700		40	76	174-9	*20,000	*20,000
50	59	84-3	21,100	24,100	8,900	10,900	50		73	172-0	*17,000	*17,000	
60	52	77-3	16,300	18,800	6,750	8,450	60		69	168-9	13,000	15,500	
70	43	68-0	13,200	15,300	5,300	6,750	70		65	164-6	10,000	12,000	
80	32	55-0	10,900	12,700	4,200	5,500	80		61	159-9	8,000	9,800	
90	25	77	104-6	*57,500	*57,500	22,800	26,800	90	57	154-9	7,000	8,500	
	30	75	103-6	44,200	*49,000	17,800	21,100	100	53	149-9	6,000	7,300	
	40	69	100-0	28,700	32,700	11,900	14,500	110	48	144-9	5,000	6,100	
	50	62	95-6	20,900	23,800	8,700	10,700	120	43	139-9	4,200	5,100	
	60	56	89-9	16,100	18,500	6,600	8,200	180	30	80	188-9	*21,000	*21,000
	70	48	82-0	13,000	15,000	5,200	6,500		40	76	186-9	*18,000	*18,000
80	40	71-9	10,700	12,500	4,100	5,300	50		73	184-0	*15,000	*15,000	
90	30	57-9	9,000	10,500	3,300	4,300	60		69	180-9	11,000	13,500	
25	79	114-9	*52,000	*52,000	22,600	26,500	70		65	176-6	9,400	11,200	
30	76	113-9	43,900	*45,000	17,500	20,900	80		61	171-9	7,650	9,200	
100	40	71	110-9	28,500	32,500	11,700	14,200	90	57	166-9	6,550	7,950	
	50	65	106-9	20,600	23,700	8,400	10,400	100	53	162-9	5,650	6,950	
	60	59	101-6	15,900	18,400	6,300	8,000	110	48	158-9	4,800	5,900	
	70	53	95-0	12,700	14,800	4,800	6,250	120	43	154-6	4,000	5,000	
	80	46	86-6	10,500	12,300	3,700	5,000	190	30	80	198-9	*19,000	*19,000
	90	39	75-6	8,700	10,300	2,900	4,000		40	76	196-9	*16,000	*16,000
100	30	60-6	7,400	8,800	2,250	3,250	50		73	194-0	*13,000	*13,000	
25	80	125-0	*45,200	*45,200	21,800	26,300	60		69	190-9	9,500	11,500	
30	77	124-0	42,000	*42,000	16,900	20,600	70		65	186-6	8,000	9,800	
40	72	121-3	28,300	32,300	12,200	14,000	80		61	181-9	6,700	8,100	
120	50	67	117-9	20,500	23,500	8,000	10,200	90	57	177-9	5,800	7,100	
	60	62	113-0	15,700	18,200	5,900	7,800	100	53	173-9	5,000	6,100	
	70	56	107-0	12,600	14,600	4,500	6,050	110	48	169-9	4,200	5,100	
	80	50	99-9	10,300	12,000	3,400	4,800	120	43	165-6	3,500	4,400	
	90	44	90-6	8,550	10,100	2,600	3,850	190	30	80	202-9	*16,000	*16,000
	100	36	78-9	7,200	8,600	1,950	3,050		40	76	200-9	*13,000	*13,000
110	28	63-0	6,100	7,400	1,400	2,450	50	73	198-0	*10,000	*10,000		

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CRANE SERVICE

Load Ratings are based on freely suspended loads with machine leveled and standing on a firm, uniform supporting surface. Practical working loads depend on supporting ground, the effect of shock or side loading, wind and other factors affecting stability, hazardous surroundings, experience of personnel and proper handling, all of which must be taken into account by the operator.

Operating Radius is the horizontal distance from the axis of rotation before loading, to the center of the vertical hoist line or tackle with load applied.

Load Ratings "Outriggers Set" are based on outriggers fully extended and set to a distance of 18 feet 8 inches between the centerline of the float connections. All wheels shall be relieved of all weight.

Load Ratings "On Tires" depend on tire capacity, condition of tires, and tire air pressure. Load Ratings are based on crane components and conditions shown under MACHINE EQUIPMENT. Weights of hooks, hook blocks, slings, jibs, and all other load handling devices, except the hoist rope, shall be considered part of the load.

RECOMMENDED HOIST TACKLE

Loads over	20,000 lbs.	40,000 lbs.	60,000 lbs.
Parts of line	2	3	4
		5	6
		80,000 lbs.	100,000 lbs.

The maximum allowable load for a single part line on the auxiliary hoist is 13,000 lbs.

LOAD RATING DEDUCT DATA

Deduct weight of optional equipment from crane load rating.

Jibs (when lifting over main boom with jib attached):

Tubular Jib

20 ft. —	900 lbs.	40 ft. —	1200 lbs.
30 ft. —	1000 lbs.	50 ft. —	1500 lbs.

LIMITATIONS

Mast and pendant suspension required on all booms. Intermediate suspension required on booms 140 ft. and longer.

Booms can be raised to a maximum angle of 82 degrees.

Maximum booms that can be lifted off the ground unassisted are:

Boom	With Outriggers	Without Outriggers
Over Side	160 ft.	120 ft.
Over Rear	160 ft.	120 ft.

Maximum boom-jib combination that can be lifted off the ground unassisted are:

Boom plus Jib	With Outriggers	Without Outriggers
Over Side	140 ft. + 50 ft.	100 ft. + 50 ft.
Over Rear	160 ft. + 50 ft.	120 ft. + 50 ft.

Maximum boom that can be carried, below the cab height, to the rear when traveling is 80 ft.

Maximum boom-jib combination that can be carried in a lowered position (15 ft. 6 in. to top of jib mast) is 80 ft. of boom plus 50 ft. jib.

Tire pressure shall not be less than 85 psi when lifting loads "On Tires".

60-T SERIES FOUR 60 TON TRUCK CRANE

MAXIMUM ALLOWABLE LOADS (LBS.) — TUBULAR BOOM — TUBULAR JIB													
Boom Length In Feet	Boom Angle In Degrees	Jib Length (in Feet) and Offset (in Degrees)†											
		20 Ft. Jib			30 Ft. Jib			40 Ft. Jib			50 Ft. Jib		
		0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
40 to 100	82	20,000	20,000	12,000	16,000	14,000	7,000	16,000	10,000	5,000	14,000	8,000	3,000
	78	20,000	20,000	12,000	16,000	12,000	7,000	16,000	10,000	5,000	14,000	8,000	3,000
	74	20,000	18,000	12,000	16,000	12,000	6,000	16,000	9,000	5,000	13,000	6,000	3,000
	72	20,000	17,000	11,000	16,000	10,000	6,000	14,000	8,000	4,000	12,000	5,000	3,000
	70	18,000	16,000	10,000	14,000	10,000	6,000	12,000	7,000	4,000	10,000	5,000	3,000
	68	17,000	15,000	10,000	12,000	10,000	6,000	12,000	7,000	4,000	10,000	5,000	3,000
	66	16,000	14,000	10,000	10,000	9,000	6,000	10,000	6,000	4,000	8,000	4,000	3,000
	64	15,000	14,000	10,000	10,000	9,000	6,000	10,000	6,000	4,000	8,000	4,000	3,000
	62	13,000	12,000	10,000	9,000	8,000	6,000	8,000	5,000	4,000	6,000	4,000	3,000
	60	12,000	12,000	10,000	9,000	8,000	6,000	8,000	5,000	4,000	6,000	4,000	3,000
	50	10,000	10,000	8,000	8,000	6,000	5,000	7,000	4,000	3,500	5,000	3,500	—
	40	8,000	8,000	7,000	6,000	5,000	5,000	5,000	—	—	4,000	—	—
30	6,000	6,000	6,000	—	—	—	—	—	—	—	—	—	
110 to 160	82	16,000	16,000	12,000	14,000	12,000	6,000	10,000	8,000	4,500	5,000	4,000	3,000
	78	14,000	14,000	12,000	14,000	12,000	6,000	10,000	8,000	4,500	5,000	4,000	3,000
	74	13,000	13,000	12,000	12,000	12,000	6,000	10,000	8,000	4,500	5,000	4,000	3,000
	72	12,000	12,000	11,000	10,000	10,000	6,000	9,000	7,000	4,500	5,000	4,000	3,000
	70	11,000	11,000	10,000	8,000	8,000	6,000	8,000	6,000	4,500	5,000	4,000	3,000
	68	10,000	10,000	10,000	8,000	8,000	6,000	7,000	6,000	4,500	5,000	4,000	3,000
	66	8,000	8,000	8,000	7,000	7,000	6,000	6,000	5,000	4,000	5,000	3,000	—
	64	8,000	8,000	8,000	7,000	7,000	6,000	6,000	5,000	4,000	4,000	3,000	—
	62	6,000	6,000	6,000	6,000	6,000	6,000	5,000	4,500	4,000	4,000	3,000	—
	60	6,000	6,000	6,000	6,000	6,000	6,000	5,000	4,500	4,000	4,000	3,000	—
	50	5,000	4,000	—	5,000	4,000	—	5,000	4,500	4,000	4,000	3,000	—

The above jib ratings are based on factors other than tipping, and do not exceed 75% tipping. Maximum offset (angular) from centerline of boom to centerline of jib.

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JIB SERVICE

Allowable loads shown in table are for general jib service with machine level and standing on hard level supporting surface on fully extended outriggers. Allowable loads are the same "over the side" and "over the rear" at any specified boom angle. Loads must be freely suspended. Weights of hooks, hook blocks, slings, cables, and all other load handling devices, except the hoist rope, shall be considered part of the load. Proper care must be exercised by the operator at all times to avoid shock and side loadings on the boom and jib. Loads apply only to machines having booms and jibs in first class condition built and recommended by Bucyrus-Erie Company. Mast and multiple pendant

suspension required on all booms. Intermediate suspension required on booms of 140 feet and longer. Booms can be raised to a maximum boom angle of 82 degrees.

Load ratings shown on this chart makes no allowances for such factors as the effect of freely falling and side loads, wind, ground conditions, and operating speeds. Loads shall be reduced to take these conditions into account.

RECOMMENDED JIB HOIST TACKLE

Loads over 13,000 pounds require two parts of line. Deduct weight of hook blocks, hooks and slings from allowable load.

WARNING: The information contained in this specification is to be used only as a guide in evaluating the performance of a machine. For operation of a machine always refer to the capacity plate on the machine (since this specification may apply to a different model or series).