

Link-Belt® LS-318 lifting crane capacities

PCSA Class 12-254
Refer to Notes page 4.

Boom — angle: 48" (1.22 m) wide, 48" (1.22 m) deep with open throat top section; with or without boom live mast.

Jib — angle: 20" x 24" (0.51 m x 0.61 m).

Counterweights — Refer to charts below.

Mounting — crawler; 11' 0" (3.35 m) extended gauge, 17' 0" (5.18 m) overall length.

Counterweights			
"A"		"AB"	
Pounds	kilograms	Pounds	kilograms
25,000	11 340	32,000	14 515

Maximum angle boom or boom + jib machine can lift off ground^① unassisted, without load.

	Counterweight "A"				Counterweight "AB" ^②			
	Boom		Boom + jib		Boom		Boom + jib	
	Feet	meters	Feet	meters	Feet	meters	Feet	meters
Over ends —								
Side frames extended	150	45.72	120 + 40	36.58 + 12.19	150	45.72	130 + 40	39.62 + 12.19
Side frames retracted	150	45.72	120 + 40	36.58 + 12.19	—	—	—	—
Over sides —								
Side frames extended	140	42.67	110 + 40	33.53 + 12.19	150	45.72	120 + 40	36.58 + 12.19
Side frames retracted	130	39.62	100 + 40	30.48 + 12.19	—	—	—	—

①With boom live mast and 1¼" (32 mm) diameter pendants, and hook blocks on ground.

②With counterweight "AB", machine must not be operated with side frames retracted.

Maximum angle boom and boom + jib machine can lift off ground^① unassisted and travel with, without load. Based on boom horizontal^③ and minimum travel speed on firm, level supporting surface.

	Counterweight "A"				Counterweight "AB" ^②			
	Boom		Boom + jib		Boom		Boom + jib	
	Feet	meters	Feet	meters	Feet	meters	Feet	meters
Over ends —								
Side frames extended	120	36.58	90 + 40	37.43 + 12.19	120	36.58	100 + 40	30.48 + 12.19
Side frames retracted	110	33.53	90 + 40	27.43 + 12.19	—	—	—	—
Over sides —								
Side frames extended	100	30.48	80 + 40	24.38 + 12.19	110	33.53	90 + 40	27.43 + 12.19
Side frames retracted	90	27.43	70 + 40	21.34 + 12.19	—	—	—	—

①With boom live mast and 1¼" (32 mm) diameter pendants, and hook blocks on ground.

②With counterweight "AB", machine must not be operated with side frames retracted.

③Hook blocks carried at boom and jib points. Based on 80-ton (72.56 metric ton) 4-sheave, 1,770 lbs. (803 kg) hook block and 15-ton (13.6 metric ton) single sheave, 505 lbs. (229 kg) hook block.

GENERAL INFORMATION ONLY

LS-318 lifting crane capacities

Refer to Notes page 4.

Boom — angle: 48° (1.22 m) wide, 48° (1.22 m) deep with open throat top section; with or without boom live mast.

Mounting — crawler: 11' 0" (3.35 m) extended gauge, 17' 0" (5.18 m) overall length.

Counterweights — Refer to charts page 1.

Boom						Side frames extended							
Length	Radius		Angle	Boom point height ①		With boom live mast and 1¼" (32 mm) diameter boom pendants.				Without boom live mast and with 1½" (38 mm) diameter boom pendants.			
						Counterweight "A"		Counterweight "AB"		Counterweight "A"		Counterweight "AB"	
	Feet	meters	Degree	Feet	meters	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms
50' (15.24 m)	12	3.66	81.5	55' 3"	16.84	142,100	64 457	156,100*	70 807*	138,300	62 733	140,100*	63 549*
	13	3.96	80.3	55' 2"	16.82	121,700	55 203	135,600	61 508	118,500	53 752	132,300	60 011
	14	4.27	79.1	55' 0"	16.76	106,400	48 263	118,500	53 752	103,600	46 993	115,700	52 482
	15	4.57	78.0	54' 9"	16.69	94,300	42 774	105,200	47 719	91,900	41 686	102,700	46 585
	16	4.88	76.8	54' 6"	16.61	84,700	38 420	94,400	42 820	82,600	37 467	92,200	41 822
	17	5.18	75.6	54' 3"	16.54	76,800	34 836	85,700	38 874	74,800	33 929	83,700	37 966
	18	5.49	74.4	54' 0"	16.46	70,200	31 843	78,300	35 517	68,400	31 026	76,600	34 746
	19	5.79	73.2	53' 8"	16.36	64,500	29 257	72,100	32 705	62,900	28 531	70,500	31 979
	20	6.10	72.0	53' 4"	16.25	59,700	27 080	66,700	30 255	58,300	26 445	65,200	29 575
	25	7.62	65.9	51' 6"	15.70	43,100	19 550	48,300	21 909	42,200	19 142	47,400	21 501
	30	9.14	59.4	48' 10"	14.88	33,400	15 150	37,500	17 010	32,700	14 833	36,800	16 692
	35	10.67	52.5	45' 6"	13.87	27,000	12 247	30,400	13 789	26,600	12 066	29,900	13 563
40	12.19	44.9	41' 2"	12.55	22,500	10 206	25,400	11 521	22,200	10 070	25,100	11 385	
50	15.24	24.7	26' 9"	8.15	16,400	7 439	18,600	8 437	16,400	7 439	18,600	8 437	
60' (18.29 m)	14	4.27	81.0	65' 1"	19.84	106,500	48 308	118,600	53 797	103,400	46 902	115,600	52 436
	15	4.57	80.0	65' 0"	19.81	94,400	42 820	105,200	47 719	91,700	41 595	102,500	46 494
	16	4.88	79.0	64' 9"	19.74	84,800	38 465	94,500	42 865	82,300	37 331	92,000	41 731
	17	5.18	78.1	64' 7"	19.68	76,800	34 836	85,700	38 874	74,600	33 839	83,500	37 876
	18	5.49	77.1	64' 3"	19.58	70,200	31 843	78,300	35 517	68,100	30 890	76,300	34 610
	19	5.79	76.1	64' 1"	19.53	64,500	29 257	72,100	32 705	62,700	28 441	70,200	31 843
	20	6.10	75.1	63' 9"	19.43	59,700	27 080	66,700	30 255	58,100	26 354	65,000	29 484
	25	7.62	70.1	62' 3"	18.97	43,100	19 550	48,300	21 909	41,900	19 006	47,100	21 365
	30	9.14	64.9	60' 2"	18.34	33,300	15 105	37,400	16 965	32,400	14 697	36,500	16 556
	35	10.67	59.5	57' 7"	17.55	27,000	12 247	30,300	13 744	26,300	11 930	29,600	13 427
	40	12.19	53.8	54' 3"	16.54	22,400	10 161	25,300	11 476	21,900	9 934	24,800	11 249
	50	15.24	40.8	45' 1"	13.74	16,400	7 439	18,600	8 437	16,100	7 303	18,300	8 301
60	18.29	22.5	28' 10"	8.78	12,500	5 670	14,300	6 486	12,400	5 625	14,200	6 441	
70' (21.34 m)	16	4.88	80.6	74' 10"	22.81	84,700	38 420	94,400	42 820	82,100	37 241	91,800	41 640
	17	5.18	79.8	74' 9"	22.78	76,800	34 836	85,600	38 828	74,400	33 748	83,300	37 785
	18	5.49	78.9	74' 7"	22.73	70,100	31 797	78,200	35 472	67,900	30 799	76,100	34 519
	19	5.79	78.1	74' 4"	22.66	64,400	29 212	72,000	32 659	62,400	28 305	70,000	31 752
	20	6.10	77.3	74' 1"	22.58	59,600	27 035	66,600	30 210	57,800	26 218	64,700	29 348
	25	7.62	73.0	72' 9"	22.17	43,000	19 505	48,100	21 818	41,600	18 870	46,800	21 228
	30	9.14	68.7	71' 1"	21.67	33,200	15 060	37,300	16 919	32,100	14 561	36,200	16 420
	35	10.67	64.2	68' 11"	21.01	26,800	12 156	30,100	13 653	26,000	11 794	29,400	13 336
	40	12.19	59.6	66' 2"	20.17	22,300	10 115	25,200	11 431	21,600	9 798	24,500	11 113
	50	15.24	49.5	59' 1"	18.01	16,200	7 348	18,500	8 392	15,700	7 122	18,000	8 165
	60	18.29	37.7	48' 7"	14.81	12,400	5 625	14,200	6 441	12,100	5 489	13,900	6 305
	70	21.34	20.8	30' 9"	9.37	9,700	4 400	11,300	5 126	9,500	4 309	11,100	5 035
80' (24.38 m)	17	5.18	81.1	84' 10"	25.86	76,600	34 746	85,500	38 783	74,100	33 612	83,000	37 649
	18	5.49	80.3	84' 8"	25.81	69,900	31 707	78,100	35 426	67,600	30 663	75,800	34 383
	19	5.79	79.6	84' 7"	25.78	64,300	29 166	71,800	32 568	62,100	28 169	69,700	31 616
	20	6.10	78.9	84' 4"	25.70	59,400	26 944	66,400	30 119	57,500	26 082	64,400	29 212
	25	7.62	75.2	83' 1"	25.32	42,800	19 414	48,000	21 773	41,300	18 734	46,500	21 092
	30	9.14	71.5	81' 8"	24.89	33,000	14 969	37,100	16 829	31,800	14 424	35,900	16 284
	35	10.67	67.7	79' 8"	24.28	26,600	12 066	29,900	13 563	25,700	11 658	29,100	13 200
	40	12.19	63.7	77' 7"	23.65	22,100	10 025	25,000	11 340	21,200	9 616	24,200	10 977
	50	15.24	55.4	71' 8"	21.85	16,000	7 258	18,300	8 301	15,400	6 985	17,700	8 029
	60	18.29	46.2	63' 7"	19.38	12,200	5 534	14,000	6 350	11,700	5 307	13,600	6 169
	70	21.34	35.1	51' 10"	15.80	9,600	4 355	11,100	5 035	9,200	4 173	10,700	4 854
	80	24.38	19.5	32' 7"	9.93	7,600	3 447	9,000	4 082	7,400	3 357	8,700	3 946
90' (27.43 m)	19	5.79	80.8	94' 8"	28.86	64,100	29 076	71,600	32 478	61,900	28 078	69,400	31 480
	20	6.10	80.1	94' 6"	28.80	59,200	26 853	66,200	30 028	57,300	25 991	64,200	29 121
	25	7.69	76.9	93' 5"	28.47	42,600	19 323	47,800	21 682	41,000	18 598	46,200	20 956
	30	9.14	73.6	92' 2"	28.09	32,800	14 878	36,900	16 738	31,500	14 288	35,600	16 148
	35	10.67	70.2	88' 7"	27.00	26,400	11 975	29,700	13 472	25,400	11 521	28,800	13 064
	40	12.19	66.8	86' 2"	26.26	21,900	9 934	24,800	11 249	20,900	9 480	23,800	10 796
	50	15.24	59.7	83' 7"	25.48	15,800	7 167	18,100	8 210	15,100	6 849	17,300	7 847
	60	18.29	52.0	76' 9"	23.39	12,000	5 443	13,800	6 260	11,400	5 171	13,200	5 988
	70	21.34	43.4	67' 8"	20.63	9,400	4 264	10,900	4 944	8,900	4 037	10,400	4 717
	80	24.38	33.1	54' 0"	16.46	7,400	3 357	8,800	3 992	7,000	3 175	8,300	3 765
	90	27.43	18.4	34' 2"	10.42	5,900	2 676	7,100	3 221	5,600	2 540	6,800	3 084

① Measured vertically from center of boom head sheave to ground.

(continued)

GENERAL INFORMATION ONLY

LS-318 lifting crane capacities

Refer to Notes page 4.

Boom						Side frames extended							
Length	Radius		Angle Degree	Boom point height ①		With boom live mast and 1¼" (32 mm) diameter boom pendants.				Without boom live mast and with 1½" (38 mm) diameter boom pendants.			
	Feet	meters		Feet	meters	Counterweight "A"		Counterweight "AB"		Counterweight "A"		Counterweight "AB"	
						Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms
100' (30.48 m)	20	6.10	81.1	104' 8"	31.90	59,000	26 762	66,000	29 938	57,000	25 855	63,900	28 985
	25	7.62	78.2	103' 9"	31.62	42,400	19 233	47,600	21 591	40,700	18 462	45,900	20 820
	30	9.14	75.3	102' 7"	31.27	32,500	14 742	36,600	16 602	31,200	14 152	35,300	16 012
	35	10.67	72.3	101' 1"	30.81	26,200	11 884	29,500	13 381	25,000	11 340	28,500	12 928
	40	12.19	69.3	99' 4"	30.28	21,600	9 798	24,500	11 113	20,600	9 344	23,500	10 660
	50	15.24	63.0	95' 0"	28.96	15,600	7 076	17,800	8 074	14,700	6 668	17,000	7 711
	60	18.29	56.3	89' 1"	27.15	11,800	5 352	13,600	6 169	11,100	5 035	12,900	5 851
	70	21.34	49.1	81' 6"	24.84	9,100	4 128	10,700	4 854	8,500	3 856	10,100	4 581
	80	24.38	41.0	71' 6"	21.79	7,200	3 266	8,500	3 856	6,700	3 039	8,000	3 629
	90	27.43	31.3	57' 10"	17.63	5,700	2 586	6,900	3 130	5,200	2 359	6,400	2 903
100	30.48	17.4	35' 9"	10.90	4,500	2 041	5,600	2 540	4,200	1 905	5,200	2 359	
110' (33.53 m)	25	7.62	79.3	114' 0"	34.75	42,100	19 097	47,300	21 455	Not applicable			
	30	9.14	76.6	112' 10"	34.39	32,300	14 651	36,400	16 511				
	35	10.67	73.9	111' 6"	33.99	26,000	11 794	29,400	13 336				
	40	12.19	71.2	111' 0"	33.83	21,400	9 707	24,300	11 022				
	50	15.24	65.6	106' 1"	32.33	15,300	6 940	17,600	7 983				
	60	18.29	59.7	100' 10"	30.73	11,500	5 216	13,300	6 033				
	70	21.34	53.5	94' 3"	28.73	8,900	4 037	10,400	4 717				
	80	24.38	46.7	85' 10"	26.16	6,900	3 130	8,300	3 765				
	90	27.43	39.1	75' 2"	22.91	5,500	2 495	6,600	2 994				
	100	30.48	29.8	60' 6"	18.44	4,300	1 950	5,300	2 404				
110	33.53	16.6	37' 3"	11.35	3,300	1 497	4,300	1 950					
120' (36.58 m)	25	7.62	80.2	124' 1"	37.82	41,900	19 006	47,100	21 365	Not applicable			
	30	9.14	77.8	123' 1"	37.51	32,000	14 515	36,100	16 375				
	35	10.67	75.3	121' 10"	37.13	25,700	11 658	29,100	13 200				
	40	12.19	72.8	120' 6"	36.73	21,100	9 571	24,000	10 886				
	50	15.24	67.8	116' 10"	35.61	15,100	6 849	17,300	7 847				
	60	18.29	62.5	112' 3"	34.21	11,200	5 080	13,100	5 942				
	70	21.34	57.0	106' 6"	32.46	8,600	3 901	10,100	4 581				
	80	24.38	51.1	99' 2"	30.23	6,700	3 039	8,000	3 629				
	90	27.43	44.6	90' 1"	27.46	5,200	2 359	6,400	2 903				
	100	30.48	37.3	78' 7"	32.95	4,000	1 814	5,100	2 313				
	110	33.53	28.5	63' 2"	19.25	3,100	1 406	4,000	1 814				
	120	36.58	15.9	38' 8"	11.79	2,300	1 043	3,200	1 452				
130' (39.62 m)	25	7.62	81.0	134' 3"	40.92	41,700	18 915	46,800	21 228	Not applicable			
	30	9.14	78.7	133' 4"	40.64	31,800	14 424	35,900	16 284				
	35	10.67	76.5	132' 3"	40.31	25,500	11 567	28,900	13 109				
	40	12.19	74.2	130' 10"	39.88	20,900	9 480	23,800	10 796				
	50	15.24	69.6	127' 8"	38.91	14,800	6 713	17,000	7 711				
	60	18.29	64.8	123' 5"	37.62	11,000	4 990	12,800	5 806				
	70	21.34	59.8	118' 2"	36.02	8,300	3 765	9,900	4 491				
	80	24.38	54.5	111' 9"	34.06	6,400	2 903	7,700	3 493				
	90	27.43	48.9	103' 10"	31.65	4,900	2 223	6,100	2 767				
	100	30.48	42.8	94' 2"	28.70	3,700	1 678	4,800	2 177				
	110	33.53	35.8	81' 10"	24.94	2,800	1 270	3,800	1 724				
	120	36.58	27.4	65' 8"	20.02	2,000	907	2,900	1 315				
130	39.62	15.3	40' 1"	12.22	1,400	635	2,200	998					
140' (42.67 m)	30	9.14	79.5	143' 6"	43.74	31,500	14 288	35,600	16 148	Not applicable			
	35	10.67	77.5	142' 6"	43.43	25,200	11 431	28,600	12 973				
	40	12.19	75.3	141' 3"	43.05	20,600	9 344	23,500	10 660				
	50	15.24	71.1	138' 3"	42.14	14,500	6 577	16,800	7 620				
	60	18.29	66.7	134' 4"	40.94	10,700	4 854	12,500	5 670				
	70	21.34	62.1	129' 7"	39.50	8,000	3 629	9,600	4 355				
	80	24.38	57.4	123' 9"	37.72	6,100	2 767	7,400	3 357				
	90	27.43	52.4	116' 9"	35.59	4,600	2 087	5,800	2 631				
	100	30.48	47.0	108' 3"	32.99	3,500	1 588	4,500	2 041				
	110	33.53	41.2	98' 0"	29.87	2,500	1 134	3,500	1 588				
	120	36.58	34.2	85' 1"	25.29	1,800	816	2,600	1 179				
	130	39.62	26.4	68' 1"	20.75	1,100	499	1,900	862				
140	42.67	14.7	41' 4"	12.60			1,300	590					
150' (45.72 m)	30	9.14	80.2	153' 8"	46.84	31,200	14 152	35,300	16 012	Not applicable			
	35	10.67	78.3	152' 8"	46.53	24,900	11 295	28,300	12 837				
	40	12.19	76.3	151' 7"	46.20	20,300	9 208	23,200	10 524				
	50	15.24	72.4	148' 9"	45.34	14,200	6 441	16,500	7 484				
	60	18.29	68.3	145' 3"	44.27	10,400	4 717	12,200	5 534				
	70	21.34	64.1	140' 9"	42.90	7,700	3 493	9,300	4 218				
	80	24.38	59.8	135' 6"	41.30	5,800	2 631	7,100	3 221				
	90	27.43	55.3	129' 2"	39.37	4,300	1 950	5,500	2 495				
	100	30.48	50.5	121' 7"	37.06	3,200	1 452	4,200	1 905				
	110	33.53	45.3	112' 7"	34.31	2,200	998	3,200	1 452				
	120	36.58	39.7	101' 8"	30.99	1,500	680	2,300	1 043				
	130	39.62	33.3	88' 1"	26.85			1,600	726				
	140	42.67	25.7	70' 4"	21.44			1,000	454				
	150	45.72	14.2	42' 8"	13.01								

Not applicable

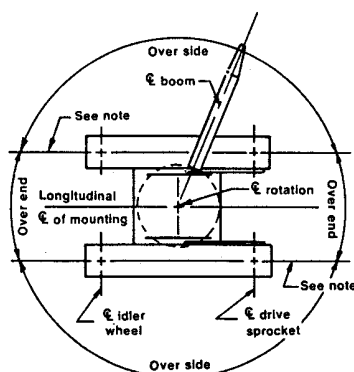
① Measured vertically from center of boom head sheave to ground.

LS-318 lifting crane capacities

Notes — lifting crane capacities

1. The capacities included in this chart are the maximum allowable, and are based on machine standing level on firm supporting surface under ideal job conditions.
 2. Capacities are based on 75% of minimum tipping loads unless marked with an asterisk (*).
 - a. Asterisk indicates capacities are based on factors other than those which would cause a tipping condition.
 3. Capacities are based on freely suspended loads and make no allowance for such factors as the effect of wind, sudden stopping of loads, supporting surface conditions, and operating speeds. Operator must reduce load ratings to take such conditions into account. Deduction from rated capacities must be made for weight of jib, hook block, weighted ball/hook, sling, spreader bar, or other suspended gear.
 4. Lifting capacities shown are based on machine equipped as follows:
 - a. Boom live mast and 1¼" (32 mm) diameter pendants for all boom lengths.
 - b. Without boom live mast but with 1½" (38 mm) diameter pendants — for booms up to 100' (30.48 m) long.
 - c. 1¼" (32 mm) diameter pendants must not be used unless machine is equipped with a boom live mast.
 5. When LS-318 is equipped with boom live mast and 1½" (38 mm) diameter pendants instead of 1¼" (32 mm) diameter pendants, reduce all lifting capacities shown 400 lbs. (181 kg).
 6. For lifting 156,100 lbs. (70 807 kg) with ⅞" (22 mm) diameter rope, eight parts of ⅞" (22 mm) Type "N" hoist rope are required. Check parts of line required for all capacities.
 7. Boom live mast is required for all main boom lengths exceeding 100' (30.48 m), and for boom exceeding 50' (15.24 m) when equipped with jib.
 8. When using boom live mast as a short boom, maximum lifting capacity of the boom live mast is 47,000 lbs. (21 319 kg) at 11' 6" (3.51 m) minimum radius, 28,000 lbs. (12 700 kg) at 23' 0" (7.01 m) maximum radius. Side frames must be in extended position.
 - a. For lifting 47,000 lbs. (21 319 kg) on boom live mast with ⅞" (22 mm) diameter wire rope, 3 parts of ⅞" (22 mm) diameter Type "N" wire rope are required.
- Note: Use of live mast as a short boom is intended for machine assembly or disassembly only. It should not be used for general crane service.
9. Main boom length, without jib, must not exceed 150' (45.72 m).
 10. Jib must not be mounted on boom longer than 140' (42.67 m).
 11. When handling loads on main load hoist line with jib mounted on boom, reduce rated boom lifting capacities as follows:
 - 20' (6.10 m) jib — 2,000 lbs. (907 kg)
 - 30' (9.14 m) jib — 2,400 lbs. (1 089 kg)
 - 40' (12.19 m) jib — 2,800 lbs. (1 270 kg)
 12. Least stable position is over side.
 13. These capacities apply only to the machine as originally manufactured and normally equipped by FMC Corporation, Cable Crane & Excavator Division.

LS-318 working areas



Note: These lines determine the limiting position of any load for operation within working areas indicated.

GENERAL INFORMATION ONLY

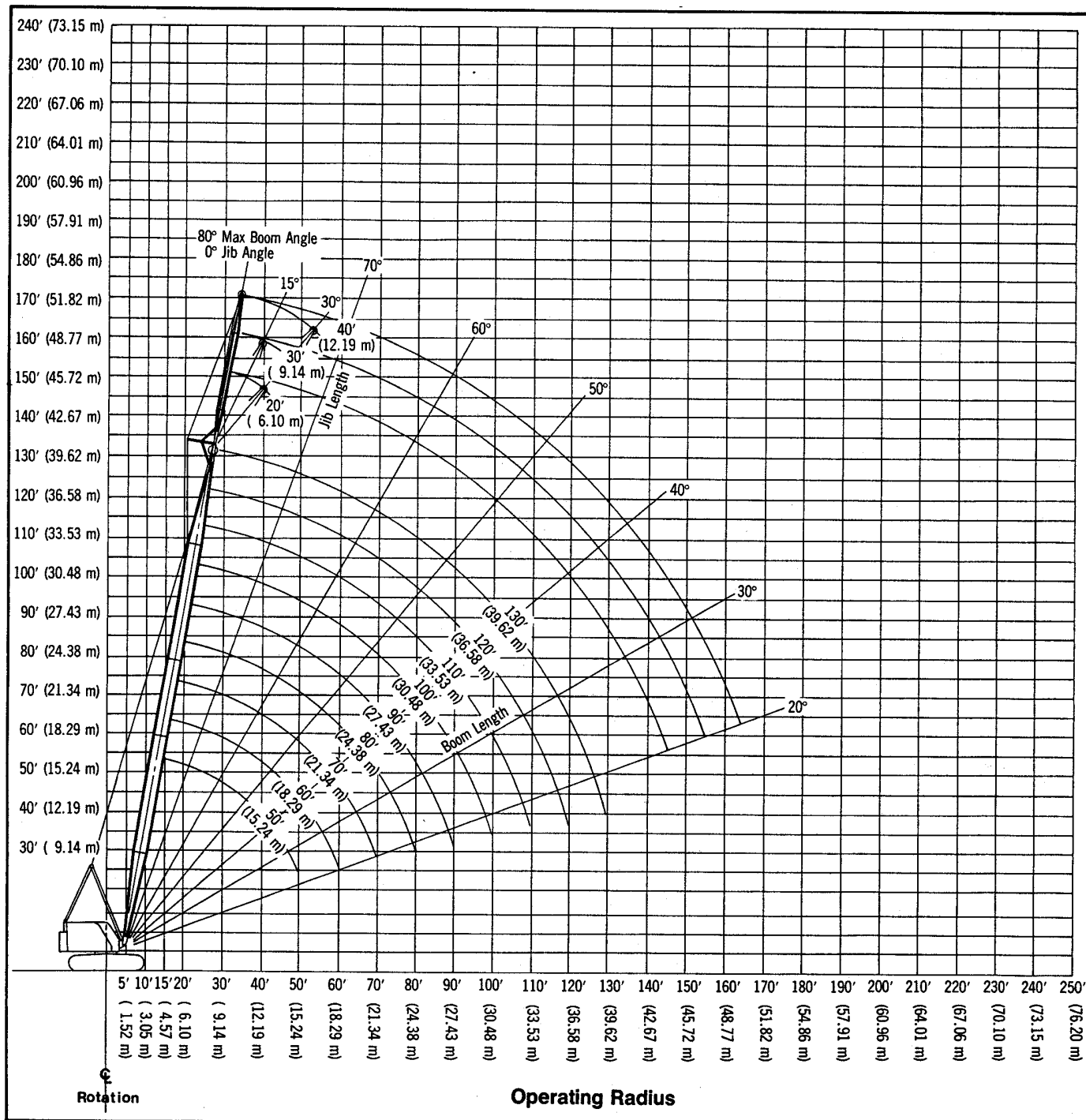
LS-318 boom/jib working ranges

Boom — angle: 48" (1.22 m) wide, 48" (1.22 m) deep with open throat top section; with or without boom live mast.

Jib — angle: 20" x 24" (0.51 m x 0.61 m).

Counterweight — 32,000 lbs. (14 515 kg) "AB" only.

Mounting — crawler: 11' 0" (3.35 m) extended gauge, 17' 0" (5.18 m) overall length.



GENERAL INFORMATION ONLY

LS-318 dragline/clamshell/magnet capacities

Refer to Notes page 7.

Boom — angle: 48" (1.22 m) wide, 48" (1.22 m) deep with open throat top section. with or without boom live mast.

Mounting — crawler: 11' 0" (3.35 m) extended gauge, 17' 0" (5.18 m) overall length.

Counterweight — 25,000 lbs. (11 340 kg) "A" only.

Boom						Side frames extended							
Length	Radius		Angle Degree	Boom point height ①		With boom live mast and 1½" (32 mm) diameter boom pendants.				Without boom live mast and with 1½" (38 mm) diameter boom pendants.			
	Feet	meters		Feet	meters	Dragline		Clamshell & magnet		Dragline		Clamshell & magnet	
						Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms
50' (15.24 m)	12	3.66	81.5	55' 3"	16.84			19,200	8 709			19,200	8 709
	13	3.96	80.3	55' 2"	16.82			↑	↑			↑	↑
	14	4.27	79.1	55' 0"	16.76			↑	↑			↑	↑
	15	4.57	78.0	54' 9"	16.69			↑	↑			↑	↑
	16	4.88	76.8	54' 6"	16.61			↑	↑			↑	↑
	17	5.18	75.6	54' 3"	16.54			↑	↑			↑	↑
	18	5.49	74.4	54' 0"	16.46			↑	↑			↑	↑
	19	5.79	73.2	53' 8"	16.36			↑	↑			↑	↑
	20	6.10	72.0	53' 4"	16.25			↑	↑			↑	↑
	25	7.62	65.9	51' 6"	15.70			↑	↑			↑	↑
	30	9.14	59.4	48' 10"	14.88	16,400	7 439	↑	↑	16,400	7 439	↑	↑
	35	10.67	52.5	45' 6"	13.87	↑	↑	19,200	8 709	↑	↑	19,200	8 709
	40	12.19	44.9	41' 2"	12.55	↑	↑	17,500	7 938	↑	↑	17,400	7 893
	45	13.72	36.1	35' 3"	10.74	↑	↑	15,900	7 212	↑	↑	15,800	7 167
	48	14.63	30.0	30' 10"	9.40	↑	↑	14,800	6 713	↑	↑	14,700	6 668
	50	15.24	24.7	26' 9"	8.15	16,400	7 439	14,800	6 713	16,400	7 439	14,700	6 668
60' (18.29 m)	14	4.27	81.0	65' 1"	19.84			19,200	8 709			19,200	8 709
	15	4.57	80.0	65' 0"	19.81			↑	↑			↑	↑
	16	4.88	79.0	64' 9"	19.74			↑	↑			↑	↑
	17	5.18	78.1	64' 7"	19.68			↑	↑			↑	↑
	18	5.49	77.1	64' 3"	19.58			↑	↑			↑	↑
	19	5.79	76.1	64' 1"	19.53			↑	↑			↑	↑
	20	6.10	75.1	63' 9"	19.43			↑	↑			↑	↑
	25	7.62	70.1	62' 3"	18.97			↑	↑			↑	↑
	30	9.14	64.9	60' 2"	18.34			↑	↑			↑	↑
	35	10.67	59.5	57' 7"	17.55	16,400	7 439	↑	↑	16,400	7 439	↑	↑
	40	12.19	53.8	54' 3"	16.54	↑	↑	19,200	8 709	↑	↑	19,200	8 709
	45	13.72	47.7	50' 2"	15.29	↑	↑	17,400	7 893	↑	↑	17,100	7 757
	50	15.24	40.8	45' 1"	13.74	16,400	7 439	14,700	6 668	16,100	7 303	14,500	6 577
	55	16.76	32.8	38' 5"	11.71	14,400	6 532	13,000	5 897	14,200	6 441	12,800	5 806
	57	17.37	30.0	35' 10"	10.92	13,700	6 214	12,300	5 579	13,500	6 124	12,100	5 489
	60	18.29	22.5	28' 10"	8.78	12,500	5 670	11,300	5 126	12,400	5 625	11,200	5 080
70' (21.34 m)	16	4.88	80.6	74' 10"	22.81			19,200	8 709			19,200	8 709
	17	5.18	79.8	74' 9"	22.78			↑	↑			↑	↑
	18	5.49	78.9	74' 7"	22.73			↑	↑			↑	↑
	19	5.79	78.1	74' 4"	22.66			↑	↑			↑	↑
	20	6.10	77.3	74' 1"	22.58			↑	↑			↑	↑
	25	7.62	73.0	72' 9"	22.17			↑	↑			↑	↑
	30	9.14	68.7	71' 1"	21.67			↑	↑			↑	↑
	35	10.67	64.2	68' 11"	21.01			↑	↑			↑	↑
	40	12.19	59.6	66' 2"	20.17	16,400	7 439	19,200	8 709			19,200	8 709
	45	13.72	54.7	63' 0"	19.20	16,400	7 439	17,300	7 847	16,400	7 439	16,800	7 620
	50	15.24	49.5	59' 1"	18.01	16,200	7 348	14,600	6 623	15,700	7 122	14,200	6 441
	55	16.76	43.5	54' 5"	16.59	14,300	6 486	12,900	5 851	13,900	6 305	12,500	5 670
	60	18.29	37.7	48' 7"	14.81	12,400	6 078	11,200	5 080	12,100	5 489	10,600	4 808
	65	19.81	30.3	41' 2"	12.55	11,100	5 035	10,000	4 536	10,800	4 899	9,700	4 400
	70	21.34	20.8	30' 9"	9.37	9,700	4 400	8,800	3 992	9,500	4 309	8,600	3 901
	80' (24.38 m)	17	5.18	81.1	84' 10"	25.86			19,200	8 709			19,200
18		5.49	80.3	84' 8"	25.81			↑	↑			↑	↑
19		5.79	79.6	84' 7"	25.78			↑	↑			↑	↑
20		6.10	78.9	84' 4"	25.70			↑	↑			↑	↑
25		7.62	75.2	83' 1"	25.32			↑	↑			↑	↑
30		9.14	71.5	81' 8"	24.89			↑	↑			↑	↑
35		10.67	67.6	79' 8"	24.28			↑	↑			↑	↑
40		12.19	63.7	77' 7"	23.65			19,200	8 709			19,200	8 709
45		13.72	59.6	74' 9"	22.78	16,400	7 439	17,100	7 757	16,400	7 439	16,500	7 484
50		15.24	55.4	71' 8"	21.85	16,000	7 258	14,400	6 532	15,400	6 985	13,900	6 305
55		16.76	50.8	68' 11"	21.01	14,100	6 396	12,700	5 761	13,600	6 169	12,200	5 534
60		18.29	46.2	63' 7"	19.38	12,200	5 534	11,000	4 990	11,700	5 307	10,600	4 808
65		19.81	40.9	58' 2"	17.73	10,900	4 944	9,800	4 445	10,500	4 763	9,400	4 264
70		21.34	35.1	51' 10"	15.80	9,600	4 355	8,600	3 901	9,200	4 173	8,300	3 765
74		22.66	30.0	45' 10"	13.97	8,800	3 992	7,900	3 583	8,500	3 856	7,600	3 447
75		22.86	28.3	43' 8"	13.31	8,600	3 901	7,700	3 493	8,300	3 765	7,400	3 357
80	24.38	19.5	32' 7"	9.93	7,600	3 447	6,900	3 130	7,400	3 357	6,600	2 994	

① Measured vertically from center of boom head sheave to ground.

GENERAL INFORMATION ONLY

Notes — dragline/clamshell/magnet capacities

- Capacities shown are maximum recommended by PCSA Standard #1, and should be considered as applicable for ideal job conditions. Allowances must be made for soft or uneven supporting surface, rapid cycle operation, bucket suction, or other unfavorable conditions which may require smaller buckets or magnets for most efficient operation. Weights of buckets, magnet, etc., plus load, should not exceed these capacities.
- Dragline capacities do not exceed 75% of minimum tipping loads; clamshell and magnet capacities do not exceed 67½% of minimum tipping loads.
- Dragline operation with boom angle less than 35° is not recommended.
- For booms with live mast with 1½" (38 mm) diameter pendants, deduct 400 lbs. (181 kg) from capacities shown.
- Boom length should not exceed 80' (24.38 m).
- These capacities apply only to the machine as originally manufactured and normally equipped by FMC Corporation, Cable Crane & Excavator Division.

LS-318 wood grapple capacities

Refer to Notes page 8.

Boom — angle: 48" (1.22 m) wide, 48" (1.22 m) deep with open throat top section; with or without boom live mast.

Mounting — crawler: 11' 0" (3.35 m) extended gauge, 17' 0" (5.18 m) overall length.

Counterweight — 25,000 lbs. (11 340 kg) "A" only.

Boom						Side frames extended			
Length	Radius		Angle	Boom point height ^①		With boom live mast and 1½" (32 mm) diameter boom pendants.		Without boom live mast and with 1½" (38 mm) diameter boom pendants.	
	Feet	meters		Feet	meters	Pounds	kilograms	Pounds	kilograms
50' (15.24 m)	12	3.66	81.5	55' 3"	16.84	19,200	8 709	19,200	8 709
	15	4.57	78.0	54' 9"	16.69	↑	↑	↑	↑
	20	6.10	72.0	53' 4"	16.25	↑	↑	↑	↑
	25	7.62	65.9	51' 6"	15.70	↑	↑	↑	↑
	30	9.14	59.4	48' 10"	14.88	↑	↑	↑	↑
	35	10.67	52.4	45' 6"	13.87	↑	↑	↑	↑
	40	12.19	44.9	41' 2"	12.55	↑	↑	↑	↑
	45	13.72	36.1	35' 3"	10.74	19,200	8 709	19,200	8 709
	48	14.63	30.0	30' 10"	9.40	17,600	7 983	17,500	7 938
60' (18.29 m)	50	15.24	24.7	26' 9"	8.15	16,400	7 439	16,400	7 439
	14	4.27	81.0	65' 1"	19.84	19,200	8 709	19,200	8 709
	15	4.57	80.0	65' 0"	19.81	↑	↑	↑	↑
	20	6.10	75.1	63' 9"	19.43	↑	↑	↑	↑
	25	7.62	70.1	62' 3"	18.97	↑	↑	↑	↑
	30	9.14	64.9	60' 2"	18.34	↑	↑	↑	↑
	35	10.67	59.5	57' 7"	17.55	↑	↑	↑	↑
	40	12.19	53.8	54' 3"	16.54	↑	↑	↑	↑
	45	13.72	47.7	50' 2"	15.29	19,200	8 709	19,200	8 709
70' (21.34 m)	50	15.24	40.8	45' 1"	13.74	16,400	7 439	16,100	7 303
	55	16.76	32.8	38' 5"	11.71	14,400	6 532	14,200	6 441
	57	17.37	30.0	35' 10"	10.92	13,700	6 214	13,500	6 124
	60	18.29	22.5	28' 10"	8.78	12,500	5 670	12,400	5 625
	16	4.88	80.6	74' 10"	22.81	19,200	8 709	19,200	8 709
	20	6.10	77.3	74' 1"	22.58	↑	↑	↑	↑
	25	7.62	73.0	72' 9"	22.17	↑	↑	↑	↑
	30	9.14	68.7	71' 1"	21.67	↑	↑	↑	↑
	35	10.67	64.2	68' 11"	21.01	↑	↑	↑	↑
80' (24.38 m)	40	12.19	59.6	66' 2"	20.17	↑	↑	↑	↑
	45	13.72	54.7	63' 0"	19.20	19,200	8 709	19,200	8 709
	50	15.24	49.5	59' 1"	18.01	16,200	7 348	18,600	8 437
	55	16.76	43.5	54' 5"	16.59	16,200	7 348	15,700	7 122
	60	18.29	37.7	48' 7"	14.81	14,300	6 486	13,900	6 305
	65	19.81	30.3	41' 2"	12.55	12,400	5 625	12,100	5 489
	70	21.34	20.8	30' 9"	9.37	11,100	5 035	10,800	4 899
	75	22.86	19.5	32' 7"	9.93	9,700	4 400	9,500	4 309
	17	5.18	81.1	84' 10"	25.86	19,200	8 709	19,200	8 709
80' (24.38 m)	20	6.10	78.9	84' 4"	25.70	↑	↑	↑	↑
	25	7.62	75.2	83' 1"	25.32	↑	↑	↑	↑
	30	9.14	71.5	81' 8"	24.89	↑	↑	↑	↑
	35	10.67	67.7	79' 8"	24.28	↑	↑	↑	↑
	40	12.19	63.7	77' 7"	23.65	19,200	8 709	19,200	8 709
	45	13.72	59.6	74' 9"	22.78	19,100	8 664	18,300	8 301
	50	15.24	55.4	71' 8"	21.85	16,000	7 258	15,400	6 965
	55	16.76	50.8	67' 11"	20.70	14,100	6 396	13,600	6 169
	60	18.29	46.2	63' 7"	19.38	12,200	5 534	11,700	5 307
80' (24.38 m)	65	19.81	40.9	58' 2"	17.73	10,900	4 944	10,500	4 763
	70	21.34	35.1	51' 10"	15.80	9,600	4 355	9,200	4 173
	74	22.56	30.0	45' 10"	13.97	8,800	3 992	8,500	3 856
	75	22.86	28.3	43' 8"	13.31	8,600	3 901	8,300	3 765
	80	24.38	19.5	32' 7"	9.93	7,600	3 447	7,400	3 357

① Measured vertically from center of boom head sheave to ground.

(continued)



LS-318 wood grapple capacities

Refer to Notes below.

Boom						Side frames extended			
Length	Radius		Angle	Boom point height ^①		With boom live mast and 1½" (32 mm) diameter boom pendants.		Without boom live mast and with 1½" (38 mm) diameter boom pendants.	
	Feet	meters		Feet	meters	Pounds	kilograms	Pounds	kilograms
90' (27.43 m)	19	5.79	80.8	94' 8"	28.86	19,200	8 709	19,200	8 709
	20	6.10	80.1	94' 6"	28.80	↑	↑	↑	↑
	25	7.62	76.9	93' 5"	28.47				
	30	9.14	73.6	91' 2"	28.09				
	35	10.67	70.2	90' 5"	27.56				
	40	12.19	66.8	88' 7"	27.00				
	45	13.72	63.3	86' 2"	22.26	19,200	8 709	19,200	8 709
	50	15.24	59.7	83' 7"	25.48	18,800	8 528	18,000	8 165
	55	16.76	55.9	80' 4"	24.48	15,800	7 167	15,100	6 849
	60	18.29	52.0	76' 9"	23.39	13,900	6 305	13,200	5 988
	65	19.81	47.8	72' 6"	22.10	12,000	5 443	11,400	5 171
	70	21.34	43.4	67' 8"	20.63	10,700	4 854	10,100	4 581
	75	22.86	38.5	61' 10"	18.85	9,400	4 264	8,900	4 037
	80	24.38	33.1	54' 0"	16.46	8,400	3 810	7,900	3 583
	82	24.99	30.0	50' 10"	15.49	7,400	3 357	7,000	3 175
	85	25.91	26.7	46' 1"	14.05	7,100	3 221	6,700	3 039
	90	27.43	18.4	34' 2"	10.42	6,700	3 039	6,300	2 858
						5,900	2 676	5,600	2 540

① Measured vertically from center of boom head sheave to ground.

Notes — wood grapple capacities

- The capacities included in this chart are the maximum allowable, and are based on machine standing level on firm supporting surface under ideal job conditions.
- Capacities are based on 75% of minimum tipping loads.
- Capacities are based on freely suspended loads and make no allowances for such factors as sudden stopping of loads, supporting conditions, and operating speeds. Operator must reduce load ratings to take such conditions into account. Combined weight of grapple and load should not exceed these capacities.
- For booms with live mast with 1½" (38 mm) diameter pendants, deduct 400 lbs. (181 kg) from capacities shown.
- Boom length should not exceed 90' (27.43 m).
- These capacities apply only to the machine as originally manufactured and normally equipped by FMC Corporation, Cable Crane & Excavator Division.

GENERAL INFORMATION ONLY

We are constantly improving our products and therefore reserve the right to change designs and specifications.



FMC Corporation Cable Crane and Excavator Division Cedar Rapids Iowa 52406

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