



Link-Belt® UC-108B lifting crane capacities

PCSA Class 10-256
Refer to Notes below.**Boom** — angle: 34" x 34" (0.86 x 0.86 m)
with open throat top section, retractable high
gantry, 1 1/4" (32 mm) diameter boom
pendants.**Carrier** — FMC 8 x 4 drive, 126" (3.20 m)
wheelbase, 11' 1" (3.38 m) wide.**Counterweights** — Upper counterweight
"A" 13,000 lbs. (5 897 kg) or "AB" 19,200 lbs.
(8 709 kg).

Notes - lifting crane capacities

- 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 not more than 85% of minimum tipping loads unless marked with an asterisk.
a. Asterisk (*) indicates capacities based on factors other than those which would cause a tipping condition.
- 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, inflation of tires, 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.
- Retractable high gantry must be fixed in raised position for all capacities on this chart.
- Least stable rated condition is over the side.
- Main boom length must not exceed 100' (30.48 m). Maximum jib length permitted — 40' (12.19 m); maximum boom/jib combination length permitted — 100' (30.48 m) plus 40' (12.19 m).
- Determining lifting crane capacities with jib mounted on boom:
a. When handling load off main boom peak sheaves, the following reductions in rated lifting-crane capacities must be made to compensate for jib weight —
20' (6.10 m) jib — 1,600# (726 kg)
30' (9.14 m) jib — 1,900# (862 kg)
40' (12.19 m) jib — 2,200# (998 kg)
- For lifting 90,000# (40 824 kg), 6-part load hoist line (3/4" — 19 mm, Type "N" wire rope) is required. Check parts of line required for all capacities.
- To determine capacities for intermediate boom lengths not shown on this chart, use the capacity for the next longer boom length shown — for actual angle or radius at which boom/load are being worked.
- These capacities apply only to the machine as originally manufactured and normally equipped by FMC Corporation Construction Equipment Group.

Boom					Capacities ①												
Length	Radius		Angle	Boom point height ①		On outriggers 360° swing				On tires side or front				On tires over rear			
	Feet	mtrs.		Feet	mtrs.	Cwt. "A"		Cwt. "AB"		Cwt. "A"		Cwt. "AB"		Cwt. "A"		Cwt. "AB"	
40' (12.19 m)	10	3.05	80.2°	46' 3"	14.10	90.0	40.8	90.0	40.8	61.2	27.7	64.2	29.1	72.9	33.0	84.5	38.3
	12	3.66	77.2°	45' 10"	13.97	86.0	39.0	86.8	39.3	52.9	23.9	55.5	25.1	54.2	24.5	63.2	28.6
	15	4.57	72.8°	45' 0"	13.72	70.6	32.0	73.3	33.2	38.7	17.5	45.5	20.6	39.0	17.6	45.5	20.6
	20	6.10	65.1°	43' 2"	13.16	54.2	24.5	56.3	25.5	25.9	11.7	30.5	13.8	26.2	11.8	30.7	13.9
	25	7.62	56.9°	40' 5"	12.32	42.5	19.2	45.6	20.6	19.3	8.7	22.8	10.3	19.6	8.8	23.0	10.4
	30	9.14	47.9°	36' 6"	11.13	34.3	15.5	37.1	16.8	15.2	6.8	18.0	8.1	15.5	7.0	18.2	8.2
	35	10.67	37.3°	31' 2"	9.50	27.4	12.4	31.1	14.1	12.5	5.6	14.8	6.7	12.7	5.7	15.0	6.8
	40	12.19	22.9°	22' 6"	6.86	22.7	10.2	25.8	11.7	10.5	4.7	12.5	5.6	10.7	4.8	12.7	5.7
50' (15.24 m)	12	3.66	79.8°	56' 1"	17.09	85.5	38.7	86.2	39.1	52.4	23.7	55.0	24.9	54.0	24.4	62.9	28.5
	15	4.57	76.3°	55' 5"	16.89	70.1	31.7	72.8	33.0	38.5	17.4	45.2	20.5	38.7	17.5	45.2	20.5
	20	6.10	70.3°	53' 11"	16.43	53.7	24.3	55.9	25.3	25.7	11.6	30.3	13.7	26.0	11.7	30.4	13.7
	25	7.62	64.1°	51' 10"	15.80	42.1	19.0	45.1	20.4	19.0	8.6	22.5	10.2	19.3	8.7	22.7	10.2
	30	9.14	57.5°	49' 1"	14.96	34.0	15.4	36.7	16.6	14.9	6.7	17.7	8.0	15.2	6.8	17.9	8.1
	35	10.67	50.4°	45' 5"	13.84	27.1	12.2	30.8	13.9	12.2	5.5	14.5	6.5	12.4	5.6	14.7	6.6
	40	12.19	42.5°	40' 8"	12.40	22.4	10.1	25.6	11.6	10.2	4.6	12.2	5.5	10.4	4.7	12.4	5.6
	50	15.24	20.5°	24' 5"	7.44	16.5	7.4	18.8	8.5	7.5	3.4	8.1	4.1	7.7	3.4	9.2	4.1
60' (18.29 m)	15	4.57	78.6°	65' 8"	20.02	69.6	31.5	72.3	32.7	38.2	17.3	45.0	20.4	38.4	17.4	45.0	20.4
	20	6.10	73.7°	64' 5"	19.63	53.3	24.1	55.4	25.1	25.4	11.5	30.0	13.6	25.7	11.6	30.2	13.6
	25	7.62	68.7°	62' 9"	19.13	41.7	18.9	44.7	20.2	18.7	8.4	22.2	10.0	19.0	8.6	22.4	10.1
	30	9.14	63.4°	60' 6"	18.44	33.7	15.2	36.3	16.4	14.7	6.6	17.4	7.8	14.9	6.7	17.6	7.9
	35	10.67	57.9°	57' 8"	17.58	26.9	12.2	30.4	13.7	11.9	5.3	14.2	6.4	12.1	5.4	14.4	6.5
	40	12.19	52.1°	54' 3"	16.54	22.2	10.0	25.3	11.4	9.9	4.4	11.9	5.3	10.1	4.5	12.1	5.4
	50	15.24	38.7°	44' 6"	13.56	16.2	7.3	18.5	8.3	7.2	3.2	8.8	3.9	7.4	3.3	8.9	4.0
	60	18.29	18.7°	26' 1"	7.95	12.6	5.7	14.5	6.5	5.5	2.4	6.8	3.0	5.6	2.5	6.9	3.1
70' (21.34 m)	15	4.57	80.3°	75' 10"	23.11	66.3	30.0	66.3	30.0	38.0	17.2	44.6	20.2	38.2	17.3	44.7	20.2
	20	6.10	76.1°	74' 10"	22.81	52.8	23.9	54.9	24.9	25.1	11.3	29.7	13.4	25.4	11.5	29.9	13.5
	25	7.62	71.8°	73' 4"	22.35	41.3	18.7	44.2	20.0	18.4	8.3	21.9	9.8	18.7	8.4	22.1	10.0
	30	9.14	67.5°	71' 5"	21.77	33.4	15.1	35.9	16.2	14.4	6.5	17.1	7.7	14.6	6.6	17.3	7.8
	35	10.67	62.9°	69' 2"	21.08	26.6	12.0	30.0	13.6	11.6	5.2	13.9	6.3	11.8	5.3	14.1	6.3
	40	12.19	58.2°	66' 4"	20.22	21.9	9.9	25.1	11.3	9.6	4.3	11.6	5.2	9.8	4.4	11.8	5.3
	50	15.24	48.0°	58' 10"	17.93	15.9	7.2	18.3	8.3	6.9	3.1	8.5	3.8	7.1	3.2	8.6	3.9
	60	18.29	35.7°	47' 7"	14.50	12.3	5.5	14.2	6.4	5.2	2.3	6.5	2.9	5.3	2.4	6.6	2.9
80' (24.38 m)	20	6.10	77.8°	85' 1"	25.93	51.9	23.5	51.9	23.5	24.9	11.2	29.5	13.3	25.2	11.4	29.6	13.4
	25	7.62	74.2°	83' 10"	25.55	41.0	18.5	43.2	19.5	18.1	8.2	21.6	9.7	18.4	8.3	21.8	9.8
	30	9.14	70.4°	82' 2"	25.04	33.0	14.9	35.6	16.1	14.1	6.3	16.8	7.6	14.3	6.4	17.0	7.7
	35	10.67	66.5°	80' 4"	24.49	26.4	11.9	29.6	13.4	11.3	5.1	13.7	6.2	11.5	5.2	13.8	6.2
	40	12.19	62.6°	77' 10"	23.72	21.6	9.7	24.8	11.2	9.3	4.2	11.3	5.1	9.5	4.3	11.5	5.2
	50	15.24	54.2°	71' 9"	21.87	15.7	7.1	18.0	8.1	6.6	2.9	8.2	3.7	6.8	3.0	8.3	3.7
	60	18.29	44.7°	63' 2"	19.25	12.0	5.4	13.9	6.3	4.9	2.2	6.2	2.8	5.0	2.2	6.3	2.8
	70	21.34	33.3°	50' 10"	15.49	9.5	4.3	11.1	5.0	3.7	1.6	4.8	2.1	3.8	1.7	4.9	2.2
90' (27.43 m)	80	24.38	16.2°	29' 3"	8.92	7.8	3.5	8.0	3.6	2.8	1.2	3.7	1.6	2.9	1.3	3.8	1.7
	20	6.10	79.2°	95' 3"	29.03	45.5	20.6	45.5	20.6	24.6	11.1	29.2	13.2	24.9	11.2	29.4	13.3
	25	7.62	76.0°	94' 2"	28.70	38.4	17.4	38.4	17.4	17.9	8.1	21.3	9.6	18.1	8.2	21.5	9.7
	30	9.14	72.6°	92' 9"	28.27	31.9	14.4	31.9	14.4	13.8	6.2	16.6	7.5	14.1	6.3	16.7	7.5
	35	10.67	69.3°	91' 0"	27.74	26.2	11.8	27.3	12.3	11.0	4.9	13.4	6.0	11.2	5.0	13.6	6.1
	40	12.19	65.8°	88' 11"	27.10	21.4	9.7	23.6	10.7	9.0	4.0	11.0	4.9	9.2	4.1	11.2	5.0
	50	15.24	58.6°	83' 8"	25.50	15.4	6.9	17.7	8.0	6.3	2.8	7.9	3.5	6.5	2.9	8.0	3.6
	60	18.29	50.8°	76' 7"	23.34	11.7	5.3	13.1	5.9	4.6	2.0	5.9	2.6	4.7	2.1	6.0	2.7
100' (30.48 m)	70	21.34	42.0°	67' 1"	20.45	9.2	4.1	10.1	4.5	3.4	1.5	4.5	2.0	3.5	1.5	4.6	2.0
	80	24.38	31.4°	53' 8"	16.36	7.5	3.4	7.7	3.4	2.5	1.1	3.4	1.5	2.6	1.1	3.5	1.5
	90	27.43	15.2°	30' 6"	9.30	5.5	2.4	5.5	2.4	1.8	0.8	2.6	1.1	1.9	0.8	2.7	1.2
	25	7.62	77.4°	104' 5"	31.83	34.3	15.5	34.3	15.5	17.6	7.9	21.1	9.5	17.8	8.0	21.3	9.6
	30	9.14	74.4°	103' 2"	31.45	28.5	12.9	28.5	12.9	13.5	6.1	16.3	7.3	13.8	6.2	16.5	7.4
	35	10.67	71.4°	101' 8"	30.99	24.4	11.0	24.4	11.0	10.7	4.8	13.1	5.9	11.0	4.9	13.3	6.0
	40	12.19	68.4°	99' 10"	30.43	21.0	9.5	21.0	9.5	8.7	3.9	10.7	4.8	8.9	4.0	10.9	4.9
	50	15.24	62.1°	95' 2"	29.01	15.1	6.8	15.1	6.8	6.0	2.7	7.6	3.4	6.2	2.8	7.7	3.4

① Measured from center of boom head sheave to ground—machine standing on tires.

② Capacities shown in thousand pounds and thousand kilograms.

Caution: This material is supplied for reference only. Operator must refer to in-cab capacity plate to determine allowable machine lifting capacities and operation procedures.

GENERAL INFORMATION CN



UC-108B dragline/clamshell/magnet & jib capacities

Boom — angle: 34" x 34" (0.86 x 0.86 m) with open throat top section, retractable high gantry 1 1/4" (32 mm) diameter boom pin.

Carrier — FMC 8 x 4 drive, 126" (3.20 m) wheelbase, 11' 1" (3.38 m) wide.

Jib — angle: 23" x 18" (0.58 x 0.46 m).

Counterweight — Upper counterweight "A" 13,000# (5 897 kg).

Counterweight — Upper counterweight "AB" 19,200 lbs. (8 709 kg).

Boom						Dragline		Clamshell/Magnet			
Length	Radius		Angle	Boom Point Height ①							
	Feet	meters	Degree	Feet	meters	Lbs.	kg	Lbs.	kg		
40' (12.19 m)	10	3.05	80.2	46' 3"	14.10	11,800	5 352	13,600	6 168		
	12	3.66	77.2	45' 10"	13.97						
	15	4.57	72.8	45' 0"	13.72						
	20	6.10	65.1	43' 2"	13.16						
	25	7.62	56.9	40' 5"	12.32			11,800	5 352	13,600	6 168
	30	9.14	47.9	36' 6"	11.13			11,800	5 352	12,100	5 488
	35	10.67	37.3	31' 2"	9.50			11,200	5 080	10,000	4 536
40	12.19	22.9	22' 6"	6.86			8,400	3 810			
50' (15.24 m)	12	3.66	79.8	56' 1"	17.09	11,800	5 352	13,600	6 168		
	15	4.57	76.3	55' 5"	16.89						
	20	6.10	70.3	53' 11"	16.43						
	25	7.62	64.1	51' 10"	15.80					13,600	6 168
	30	9.14	57.5	49' 1"	14.96			11,800	5 352	11,900	5 397
	35	10.67	50.4	45' 5"	13.84			10,900	4 944	9,700	4 399
	40	12.19	42.5	40' 8"	12.40			9,100	4 127	8,100	3 674
50	15.24	20.5	24' 5"	7.44			6,000	2 721			
60' (18.29 m)	15	4.57	78.6	65' 8"	20.02	10,700	4 853	13,600	6 168		
	20	6.10	73.7	64' 5"	19.63					13,600	6 168
	25	7.62	68.7	62' 9"	19.13					13,600	6 168
	30	9.14	63.4	60' 6"	18.44					11,700	5 307
	35	10.67	57.9	57' 8"	17.58			10,700	4 853	9,500	4 309
	40	12.19	52.1	54' 3"	16.54			8,900	4 037	7,900	3 583
	50	15.24	38.7	44' 6"	13.56			6,400	2 903	5,700	2 585
60	18.29	18.7	26' 1"	7.95			4,400	1 995			

⊙ Measured from center of boom head sheave to ground.

Notes — dragline/clamshell/magnet capacities

- Capacities shown are maximum allowable, based on 360° swing, with machine standing level on firm surface under ideal job conditions.
- Capacities are based on not more than 75% of minimum tipping loads for dragline; 68% for clamshell/magnet.
- Capacities are maximum recommended by Commercial Standard CS90-58 and PCSA Standard #1. User must make allowances for soft or uneven supporting surfaces, rapid cycle operations, bucket suction or other unfavorable conditions which may require smaller buckets or magnets for more efficient operation.
- Weight of bucket or magnet, plus load, should not exceed these capacities.
- Dragline operation with boom angle less than 35° is not recommended.
- Boom length for dragline/clamshell/magnet operation should not exceed 60' (18.29 m).
- Use of cwt. "AB" is not recommended for dragline, clamshell, or magnet service.
- Refer also to Notes — lifting crane capacities.
- These capacities apply only to the machine as originally manufactured and normally equipped by FMC Corporation Construction Equipment Group.

Jib Angle To Ground	Jib Lengths					
	20' (6.10 m)		30' (9.14 m)		40' (12.19 m)	
	Lbs.	kg	Lbs.	kg	Lbs.	kg
80°	12,000	5 443	10,000	4 536	8,000	3 629
65°	10,000	4 536	8,000	3 629	6,000	2 722
50°	8,000	3 629	6,000	2 722	4,000	1 814
35°	7,500	3 402	5,500	2 495	3,500	1 588
20°	7,500	3 402	5,000	2 268	3,500	1 588

Notes — angle jib capacities

- Capacities shown are maximum allowable.
- Use jib with 10' 0" (3.05 m) high jib mast in proper working position.
- To determine jib angle to ground, deduct jib angle to boom from the boom angle to ground.
- Jib backstay line is anchored at base of boom top section.
- Jib angle to boom must not exceed 30°.
- Determining machine jib capacities:
 - Add length of boom plus length of jib being used.
 - Determine jib load radius.
 - Refer to lifting crane capacity chart and select boom length that corresponds to combined boom/jib length (6-a) and radius (6-b).
 - Jib capacity is equal to the lifting crane capacity for the boom length (6-c) and radius (6-c) — unless restricted by the maximum jib capacities shown in above chart.
 - If total boom/jib length (6-c) exceeds the longest boom length listed in lifting crane capacity chart, deduct 300# (136 kg) from the longest boom length shown for the required radius (6-b).
 - Jib capacity is the resulting figure unless restricted by the maximum jib capacities shown in above chart.
- Refer also to Notes — lifting crane capacities.

Note: Use upper counterweight "A" only for dragline/clamshell/magnet capacities use upper counterweight "AB" only for jib capacities.

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

FMC Corporation Construction Equipment Group Cedar Rapids Iowa 52406

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