



Link-Belt Speeder

DIVISION OF FMC CORPORATION

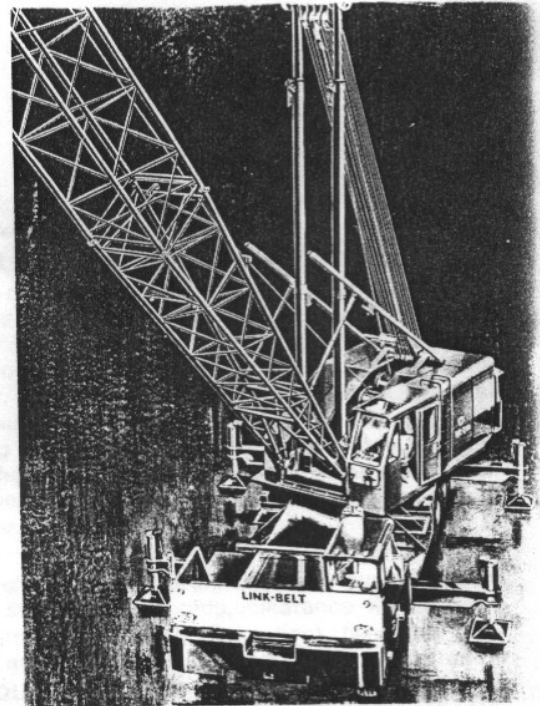


HC-238 FLYSHEET

CARRIER MOUNTED CRANE

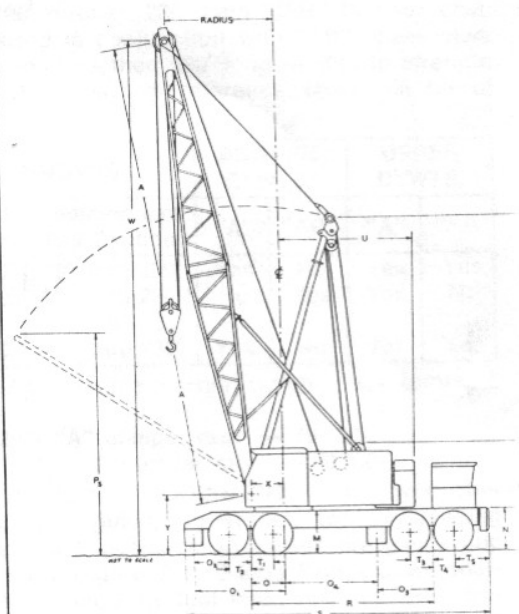
*Dimensions — Working ranges —
Specifications — Lifting capacities*

DIMENSIONS AND WORKING RANGES



Applicable to 8 x 4 Carriers		Standard Carrier 11' 10" Wide	Optional Carrier 11' 0" Wide
Basic boom lengths —			
50' std. boom, open throat top section	A	50' 0"	50' 0"
30' opt. boom, hammerhead top section	A	30' 0"	30' 0"
Overall height, top of turntable bearing plate	M	4' 9"	4' 11"
Ground clearance under counterweight	N	4' 9 5/8"	4' 11 5/8"
Centerline rotation to rear axle bogie pivot	O	3' 8"	3' 8"
Centerline rotation to center rear outrigger	O ₁	10' 0"	9' 11"
Center rear rear axle to center rear outrigger	O ₂	3' 11"	3' 9"
Center front axle bogie pivot to center front outrigger	O ₃	8' 0"	6' 4"
Centerline rotation to center front outrigger	O ₄	10' 0"	9' 11"
Overall height, boomhoist bail sheave	P ₁	12' 2"	12' 4"
Overall height, live boom mast vertical	P ₄	33' 8"	33' 10"
Overall height, live boom mast extended with boom horizontal over rear of carrier —			
50' std. boom, open throat top section	P ₅	13' 2"	12' 4"
30' opt. boom, hammerhead top section	P ₅	14' 6"	14' 8"
Minimum ground clearance	Q	0' 9"	0' 9"
Wheelbase	R	260"	239"
Overall carrier length over rear outrigger box —			
With front bumper cwt. "A"	S	35' 7"	35' 2"
Without front bumper cwt. "A"	S	35' 0"	34' 6"
Centers rear axles to pivot of rear bogie	T ₁ & T ₂	2' 5"	2' 6"
Centers front axle to pivot of front bogie	T ₃ & T ₄	2' 5"	2' 5"
Center front front axle to front bumper cwt. hooks	T ₅	3' 6"	5' 1"
Center front front axle to front of bumper cwt. "A"	T ₅	4' 1"	5' 8"
Tailswing of cwt. "A"	U	14' 4"	14' 4"
Tailswing of cwt. "AB"	U	14' 6"	14' 6"
Radius of boom hinge pin	X	3' 6"	3' 6"
Height of boom hinge pin	Y	6' 7 1/2"	6' 9 1/2"
Overall height*, boom in travel position with live boom mast retracted and linked to boom —			
50' std. boom over front end of carrier — with gooseneck link		14' 9 1/2"	14' 11 1/2"
50' std. boom over rear end of carrier — with gooseneck link		12' 2"	12' 4"
30' opt. boom over front end of carrier — with carrying link		16' 0"	16' 2"
30' opt. boom over rear end of carrier — with carrying link		11' 7"	11' 9"
Overall length*, boom in travel position with live boom mast retracted and linked to boom —			
50' std. boom over front end of carrier		68' 7 5/8"	68' 7 5/8"
50' std. boom over rear end of carrier		79' 2 3/4"	79' 2 3/4"
30' opt. boom over front end of carrier		47' 9 5/8"	47' 9 5/8"
30' opt. boom over rear end of carrier		57' 8 3/4"	57' 8 3/4"
Overall width outriggers retracted (floats removed)		11' 10"	11' 0"
Overall width outriggers extended (c/l of jacks)		22' 0"	22' 0"
Center rear rear axle to center front front axle		26' 6"	24' 11"
Center front rear axle to center rear front axle		16' 10"	14' 11"
Centers rear tandem axles	T ₁ + T ₂	4' 10"	5' 0"
Centers front tandem axles	T ₃ + T ₄	4' 10"	5' 0"

*Std. 50' boom cannot be supported by gooseneck folding link when traveling — boom pendants must be used to support boom. Boom base (25') section, or opt. hammerhead top section booms 30' through 80' long, can be supported by carrying link when traveling.



This machine as manufactured conforms with the requirements of: ANSI B30.5-1968 and, when equipped with suitable load and angle indicating devices, conforms with THE DEPARTMENT OF LABOR SAFETY AND HEALTH REGULATIONS as listed in the: FEDERAL REGISTER Vol. 36 Nos. 75 and 105 (OSHA)

HC-238 lifting crane capacities

PCSA Class 12-705

Refer to Notes page 14.

Counterweights — based on carrier. Refer to cwt. requirements chart Page 1.

Carriers — FMC 8 x 4, 260" (6.60 m) wheelbase, 11' 10" (3.61 m) wide or 10 x 4, 267" (6.78 m) wheelbase, 11' 10" (3.61 m) wide.

Boom — with tapered tip top section.

Boom				Boom Point Height "H"				On Outriggers						On Tires (static)						"AB" Upper & "A" Bumper Cwtls.					
Length	Radius		Angle Degree	Feet	Meters	Feet	Meters	Rear		Side		Rear		Side		Rear		Side		Rear		Side		Rear	
	Feet	Meters						Pounds	Kilograms	Pounds	Kilograms	Pounds	Kilograms	Pounds	Kilograms	Pounds	Kilograms	Pounds	Kilograms	Pounds	Kilograms	Pounds	Kilograms	Pounds	Kilograms
110' (33.53 m)	25	7.62	78.7	114	6	34.90	38.03	113,100	51,302	113,100	51,302	58,800	26,672	40,100	18,069	113,100	51,302	113,100	51,302	113,100	51,302	113,100	51,302	113,100	51,302
	30	9.14	76.1	113	4	34.54	37.67	95,800	43,455	92,600	42,003	46,600	21,138	33,200	15,060	89,500	40,597	89,500	40,597	89,500	40,597	89,500	40,597	89,500	40,597
	35	10.67	73.4	112	0	34.14	36.42	80,300	36,424	72,100	32,705	38,100	17,282	28,300	12,837	76,800	34,836	76,800	34,836	76,800	34,836	76,800	34,836	76,800	34,836
	40	12.19	70.6	110	4	33.63	32.39	66,700	30,255	58,500	26,536	32,000	14,515	24,100	10,932	58,600	26,581	58,600	26,581	58,600	26,581	58,600	26,581	58,600	26,581
	50	15.24	65.0	106	3	32.39	30.78	48,500	22,000	42,000	19,051	18,500	8,392	13,100	5,942	45,500	20,639	45,500	20,639	45,500	20,639	45,500	20,639	45,500	20,639
	60	18.29	59.1	101	0	30.78	28.70	37,500	17,010	32,100	14,561	14,500	6,668	10,100	4,581	36,800	16,692	36,800	16,692	36,800	16,692	36,800	16,692	36,800	16,692
	70	21.34	52.8	94	2	28.70	26.09	30,100	13,653	25,700	11,658	11,900	5,398	7,900	3,583	30,600	13,880	30,600	13,880	30,600	13,880	30,600	13,880	30,600	13,880
	80	24.38	45.9	85	7	26.09	22.71	25,000	11,340	21,500	9,526	9,700	4,400	6,200	2,812	26,100	11,839	26,100	11,839	26,100	11,839	26,100	11,839	26,100	11,839
	90	27.43	38.2	74	6	22.71	18.87	21,000	9,526	17,500	7,938	8,000	3,629	4,800	2,177	22,400	10,161	22,400	10,161	22,400	10,161	22,400	10,161	22,400	10,161
	100	30.48	28.7	59	5	18.11	10.39	17,900	8,119	14,700	6,668	6,500	2,948	3,600	1,633	19,400	8,800	19,400	8,800	19,400	8,800	19,400	8,800	19,400	8,800
120' (36.58 m)	110	33.53	14.5	34	1	10.39	38.03	15,400	6,985	12,500	5,670	5,500	2,404	2,600	1,179	16,900	7,666	16,900	7,666	16,900	7,666	16,900	7,666	16,900	7,666
	120	36.58	13.9	35	4	10.77	37.67	13,200	5,988	10,600	4,808	5,300	2,404	2,600	1,179	14,400	6,532	14,400	6,532	14,400	6,532	14,400	6,532	14,400	6,532
	130	39.62	13.3	36	7	11.15	36.06	11,400	5,171	9,000	4,082	4,100	1,860	2,300	1,043	12,900	5,851	12,900	5,851	12,900	5,851	12,900	5,851	12,900	5,851
	140	42.67	12.8	37	8	11.48	34.92	9,800	4,445	7,600	3,447	3,100	1,406	1,500	—	10,800	4,899	10,800	4,899	10,800	4,899	10,800	4,899	10,800	4,899
	150	45.72	12.3	38	9	11.87	33.81	8,200	3,719	6,400	2,925	2,600	1,179	1,300	—	9,200	4,176	9,200	4,176	9,200	4,176	9,200	4,176	9,200	4,176
	160	48.77	11.8	39	10	12.26	32.70	6,600	3,000	5,200	2,359	2,100	950	1,100	—	7,600	3,437	7,600	3,437	7,600	3,437	7,600	3,437	7,600	3,437
	170	51.82	11.3	40	11	12.65	31.59	5,000	2,268	4,000	1,814	1,600	700	800	—	6,600	2,999	6,600	2,999	6,600	2,999	6,600	2,999	6,600	2,999
	180	54.87	10.8	41	12	13.04	30.48	3,400	1,542	2,800	1,263	1,100	500	600	—	5,600	2,530	5,600	2,530	5,600	2,530	5,600	2,530	5,600	2,530
	190	57.92	10.3	42	13	13.43	29.37	1,800	819	1,400	635	1,200	300	400	—	4,600	2,071	4,600	2,071	4,600	2,071	4,600	2,071	4,600	2,071
	200	60.97	9.8	43	14	13.82	28.26	1,200	544	900	408	800	200	300	—	4,000	1,814	4,000	1,814	4,000	1,814	4,000	1,814	4,000	1,814
130' (39.62 m)	210	64.02	9.3	44	15	14.21	27.15	600	272	500	227	400	100	200	—	3,400	1,542	3,400	1,542	3,400	1,542	3,400	1,542	3,400	1,542
	220	67.07	8.8	45	16	14.60	26.04	400	181	300	136	300	50	100	—	2,800	1,263	2,800	1,263	2,800	1,263	2,800	1,263	2,800	1,263
	230	70.12	8.3	46	17	14.99	24.93	200	91	100	45	100	20	50	—	2,200	1,000	2,200	1,000	2,200	1,000	2,200	1,000	2,200	1,000
	240	73.17	7.8	47	18	15.38	23.82	100	45	50	23	50	10	20	—	1,600	727	1,600	727	1,600	727	1,600	727	1,600	727
	250	76.22	7.3	48	19	15.77	22.71	50	23	20	12	20	5	10	—	1,000	454	1,000	454	1,000	454	1,000	454	1,000	454
	260	79.27	6.8	49	20	16.16	21.60	20	9	10	5	10	2	5	—	500	227	500	227	500	227	500	227	500	227
	270	82.32	6.3	50	21	16.55	20.49	10	5	5	2	5	1	2	—	200	91	200	91	200	91	200	91	200	91
	280	85.37	5.8	51	22	16.94	19.38	5	2	2	1	2	0	1	—	100	45	100	45	100	45	100	45	100	45
	290	88.42	5.3	52	23	17.33	18.27	2	1	1	0	1	0	0	—	50	23	50	23	50	23	50	23	50	23
	300	91.47	4.8	53	24	17.72	17.16	1	0	0	0	0	0	0	—	20	9	20	9	20	9	20	9	20	9
	310	94.52	4.3	54	25	18.11	16.05	0	0	0	0	0	0	0	—	0	0	0	0	0	0	0	0	0	0
140' (42.67 m)	320	97.57	3.8	55	26	18.50	14.94	0	0	0	0	0	0	0	—	0	0	0	0	0	0	0	0	0	0
	330	100.62	3.3	56	27	18.89	13.83	0	0	0	0	0	0	0	—	0	0	0	0	0	0	0	0	0	0
	340	103.67	2.8	57	28	19.28	12.72	0	0	0	0	0	0	0	—	0	0	0	0	0	0	0	0	0	0
	350	106.72	2.3	58	29	19.67	11.61	0	0	0	0	0	0	0	—	0	0	0	0	0	0	0	0	0	0
	360	109.77	1.8	59	30	20.06	10.50	0	0	0	0	0	0	0	—	0	0	0	0	0	0	0	0	0	0
	370	112.82	1.3	60	31	20.45	9.39	0	0	0	0	0	0	0	—	0	0	0	0	0	0	0	0	0	0
	380	115.87	0.8	61	32	20.84	8.28	0	0	0	0	0	0	0	—	0	0	0	0	0	0	0	0	0	0
	390	118.92	0.3	62	33	21.23	7.17	0	0	0	0	0	0	0	—	0	0	0	0	0	0	0	0	0	0
	400	121.97	0	63	34	21.62	6.06	0	0	0	0	0	0	0	—	0	0	0	0	0	0	0	0	0	0
	410	125.02	0	64	35	22.01	4.95	0	0	0	0	0	0	0	—	0	0	0	0	0	0	0	0	0	0
	420	128.07	0	65	36	22.40	3.84	0	0	0	0	0	0	0	—	0	0	0	0	0	0	0	0	0	0

(continued)

Ø Applicable only to machines with booms 110' (33.53 m) through 180' (54.86 m) long. On machines equipped with booms 190' (57.91 m) through 230' (70.10 m) long, bumper cwt. "AB" is required.

Length	Radius		Angle Degree	Boom Point Height "W"		Side			Rear			Side			Rear			Side		
	Feet	Meters		Feet	Meters	Pounds	Kilograms	Kilograms	Pounds	Kilograms	Pounds	Kilograms	Pounds	Kilograms	Pounds	Kilograms	Pounds	Kilograms	Pounds	Kilograms
150' (45.72 m)	30	9.14	79.8	154	47.07	72,100	32,705	20,820	45,900	20,820	32,705	14,515	72,100	32,705	72,100	32,705	72,100	32,705	31,888	32,705
	35	10.67	77.9	153	46.71	70,300	31,888	16,965	37,400	16,965	27,100	12,293	70,300	31,888	66,800	30,300	70,300	31,888	30,300	31,888
	40	12.19	75.9	152	46.36	66,200	30,028	14,152	31,200	14,152	23,100	10,478	66,200	30,028	62,800	28,486	66,200	30,028	28,486	30,028
	45	13.72	73.9	151	46.01	62,100	28,152	12,800	27,100	12,800	21,000	9,523	62,100	28,152	58,800	26,640	62,100	28,152	26,640	28,152
	50	15.24	71.9	149	45.47	48,000	21,773	10,478	23,100	10,478	16,700	7,575	48,000	21,773	45,000	20,412	48,000	21,773	20,412	21,773
	55	16.77	69.9	147	44.88	36,900	16,738	8,029	17,700	8,029	12,400	5,625	36,900	16,738	34,000	15,468	36,900	16,738	15,468	16,738
	60	18.29	67.9	145	44.35	29,500	13,381	6,350	14,000	6,350	9,200	4,173	29,500	13,381	28,000	12,700	29,500	13,381	12,700	13,381
	65	19.81	65.9	143	43.76	24,400	11,068	5,080	11,200	5,080	7,200	3,266	24,400	11,068	23,000	10,445	24,400	11,068	10,445	11,068
	70	21.34	63.9	141	43.13	20,300	9,208	4,240	9,200	4,240	6,000	2,709	20,300	9,208	19,000	8,664	20,300	9,208	8,664	9,208
	75	22.86	61.9	139	42.50	17,400	7,893	3,611	7,800	3,611	5,100	2,307	17,400	7,893	16,200	7,348	17,400	7,893	7,348	7,893
160' (48.77 m)	80	24.38	59.9	137	41.80	14,900	6,759	3,000	6,441	3,000	4,400	1,980	14,900	6,759	13,700	6,200	14,900	6,759	6,200	6,759
	85	26.00	57.9	135	41.17	12,900	5,851	2,500	5,443	2,500	3,900	1,769	12,900	5,851	11,700	5,305	12,900	5,851	5,305	5,851
	90	27.43	55.9	133	40.54	11,200	5,080	2,177	4,800	2,177	3,300	1,500	11,200	5,080	10,000	4,544	11,200	5,080	4,544	5,080
	95	28.96	53.9	131	40.00	9,700	4,400	1,900	4,200	1,900	2,900	1,311	9,700	4,400	8,500	3,856	9,700	4,400	3,856	4,400
	100	30.48	51.9	129	39.37	8,400	3,810	1,660	3,700	1,660	2,500	1,134	8,400	3,810	7,300	3,311	8,400	3,810	3,311	3,810
	105	32.00	49.9	127	38.74	7,200	3,266	1,400	3,200	1,400	2,200	998	7,200	3,266	6,200	2,800	7,200	3,266	2,800	3,266
	110	33.53	47.9	125	38.11	6,200	2,812	1,200	2,800	1,200	1,900	862	6,200	2,812	5,300	2,404	6,200	2,812	2,404	2,812
	115	35.05	45.9	123	37.48	5,300	2,399	1,000	2,300	1,000	1,600	730	5,300	2,399	4,500	2,045	5,300	2,399	2,045	2,399
	120	36.58	43.9	121	36.85	4,500	2,045	862	1,900	862	1,300	594	4,500	2,045	3,700	1,678	4,500	2,045	1,678	2,045
	125	38.10	41.9	119	36.22	3,800	1,719	730	1,600	730	1,100	499	3,800	1,719	3,000	1,361	3,800	1,719	1,361	1,719
170' (51.82 m)	130	39.62	39.9	117	35.59	3,200	1,452	635	1,400	635	1,000	454	3,200	1,452	2,500	1,134	3,200	1,452	1,134	1,452
	135	41.14	37.9	115	34.96	2,800	1,270	544	1,200	544	900	408	2,800	1,270	2,200	998	2,800	1,270	998	1,270
	140	42.67	35.9	113	34.33	2,400	1,086	461	1,000	461	800	361	2,400	1,086	1,800	816	2,400	1,086	816	1,086
	145	44.19	33.9	111	33.70	2,100	952	408	900	408	700	311	2,100	952	1,600	730	2,100	952	730	952
	150	45.72	31.9	109	33.07	1,800	816	361	800	361	600	270	1,800	816	1,400	635	1,800	816	635	816
	155	47.24	29.9	107	32.44	1,600	730	311	700	311	500	225	1,600	730	1,200	544	1,600	730	544	730
	160	48.77	27.9	105	31.81	1,400	635	270	600	270	400	182	1,400	635	1,000	454	1,400	635	454	635
	165	50.29	25.9	103	31.18	1,200	544	225	500	225	300	136	1,200	544	900	408	1,200	544	408	544
	170	51.82	23.9	101	30.55	1,000	454	182	400	182	200	91	1,000	454	800	361	1,000	454	361	454
	175	53.34	21.9	99	29.92	900	408	166	350	166	150	68	900	408	700	311	900	408	311	408
180' (54.86 m)	180	54.86	19.9	97	29.29	800	361	140	300	140	100	45	800	361	600	270	800	361	270	361
	185	56.38	17.9	95	28.66	700	311	122	260	122	80	36	700	311	500	225	700	311	225	311
	190	57.90	15.9	93	28.03	600	270	104	220	104	70	31	600	270	400	182	600	270	182	270
	195	59.42	13.9	91	27.40	500	225	86	180	86	60	27	500	225	300	136	500	225	136	225
	200	60.94	11.9	89	26.77	400	182	70	140	70	50	22	400	182	200	91	400	182	91	182
	205	62.46	9.9	87	26.14	300	136	54	100	54	40	18	300	136	150	68	300	136	68	136
	210	63.98	7.9	85	25.51	200	91	40	70	40	30	13	200	91	100	45	200	91	45	91
	215	65.50	5.9	83	24.88	150	68	30	50	30	20	9	150	68	70	31	150	68	31	68
	220	67.02	3.9	81	24.25	100	45	20	30	20	10	4	100	45	50	22	100	45	22	45
	225	68.54	1.9	79	23.62	50	22	10	15	10	5	2	50	22	20	9	50	22	9	22
	230	70.06	0.9	77	22.99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Not Applicable

(continued)

Applicable only to machines with booms 110' (33.53 m) through 180' (54.86 m) long. On machines equipped with booms 190' (57.91 m) through 230' (70.10 m) long, bumper cwt. "AB" is required.

HC-238 Tapered Tip Boom										"A" Upper & "A"ⓈBumper Cwtws.										"AB" Upper & "A" Bumper Cwtws.									
Length	Radius		Angle Degree	Boom Point Height "W"		On Outriggers				On Tires (static)				On Outriggers Only						Rear		Side		Rear		Side			
	Feet	Meters		Feet	Meters	Pounds	Kilograms	Pounds	Kilograms	Pounds	Kilograms	Pounds	Kilograms	Pounds	Kilograms	Pounds	Kilograms			Pounds	Kilograms	Pounds	Kilograms	Pounds	Kilograms	Pounds	Kilograms		
190' (57.91 m)	40	12.19	78.9	193	58.86	40,300*	18,280*	40,300*	18,280*	40,300*	18,280*	40,300*	18,280*	40,300*	18,280*	40,300*	18,280*	40,300*	18,280*	40,300*	18,280*	40,300*	18,280*	40,300*	18,280*				
	50	15.24	75.8	190	58.14	35,300*	16,012*	35,300*	16,012*	35,300*	16,012*	35,300*	16,012*	35,300*	16,012*	35,300*	16,012*	35,300*	16,012*	35,300*	16,012*	35,300*	16,012*	35,300*	16,012*				
	60	18.29	72.7	188	57.30	30,800*	13,971*	30,800*	13,971*	30,800*	13,971*	30,800*	13,971*	30,800*	13,971*	30,800*	13,971*	30,800*	13,971*	30,800*	13,971*	30,800*	13,971*	30,800*	13,971*				
	70	21.34	69.5	184	56.26	24,600*	11,159*	24,600*	11,159*	24,600*	11,159*	24,600*	11,159*	24,600*	11,159*	24,600*	11,159*	24,600*	11,159*	24,600*	11,159*	24,600*	11,159*	24,600*	11,159*				
	80	24.38	66.3	180	55.01	21,700*	9,843*	21,700*	9,843*	21,700*	9,843*	21,700*	9,843*	21,700*	9,843*	21,700*	9,843*	21,700*	9,843*	21,700*	9,843*	21,700*	9,843*	21,700*	9,843*				
	90	27.43	62.9	175	53.57	19,000*	8,618*	19,000*	8,618*	19,000*	8,618*	19,000*	8,618*	19,000*	8,618*	19,000*	8,618*	19,000*	8,618*	19,000*	8,618*	19,000*	8,618*	19,000*	8,618*				
	100	30.48	59.5	170	51.90	16,500*	7,484*	16,500*	7,484*	16,500*	7,484*	16,500*	7,484*	16,500*	7,484*	16,500*	7,484*	16,500*	7,484*	16,500*	7,484*	16,500*	7,484*	16,500*	7,484*				
	110	33.53	55.9	164	49.99	14,000*	6,350*	14,000*	6,350*	14,000*	6,350*	14,000*	6,350*	14,000*	6,350*	14,000*	6,350*	14,000*	6,350*	14,000*	6,350*	14,000*	6,350*	14,000*	6,350*				
	120	36.58	52.2	156	47.75	12,000*	5,443*	12,000*	5,443*	12,000*	5,443*	12,000*	5,443*	12,000*	5,443*	12,000*	5,443*	12,000*	5,443*	12,000*	5,443*	12,000*	5,443*	12,000*	5,443*				
	130	39.62	48.3	148	45.21	10,300*	4,672*	10,300*	4,672*	10,300*	4,672*	10,300*	4,672*	10,300*	4,672*	10,300*	4,672*	10,300*	4,672*	10,300*	4,672*	10,300*	4,672*	10,300*	4,672*				
200' (60.96 m)	140	42.67	44.1	138	42.29	8,900*	4,037*	8,900*	4,037*	8,900*	4,037*	8,900*	4,037*	8,900*	4,037*	8,900*	4,037*	8,900*	4,037*	8,900*	4,037*	8,900*	4,037*	8,900*	4,037*				
	150	45.72	39.6	127	38.89	7,600*	3,447*	7,600*	3,447*	7,600*	3,447*	7,600*	3,447*	7,600*	3,447*	7,600*	3,447*	7,600*	3,447*	7,600*	3,447*	7,600*	3,447*	7,600*	3,447*				
	160	48.77	35.5	114	34.85	6,500*	2,948*	6,500*	2,948*	6,500*	2,948*	6,500*	2,948*	6,500*	2,948*	6,500*	2,948*	6,500*	2,948*	6,500*	2,948*	6,500*	2,948*	6,500*	2,948*				
	170	51.82	28.8	98	29.92	5,600*	2,540*	5,600*	2,540*	5,600*	2,540*	5,600*	2,540*	5,600*	2,540*	5,600*	2,540*	5,600*	2,540*	5,600*	2,540*	5,600*	2,540*	5,600*	2,540*				
	180	54.86	21.7	77	23.47	4,800*	2,177*	4,800*	2,177*	4,800*	2,177*	4,800*	2,177*	4,800*	2,177*	4,800*	2,177*	4,800*	2,177*	4,800*	2,177*	4,800*	2,177*	4,800*	2,177*				
	190	57.91	11.0	42	13.05	4,000*	1,814*	4,000*	1,814*	4,000*	1,814*	4,000*	1,814*	4,000*	1,814*	4,000*	1,814*	4,000*	1,814*	4,000*	1,814*	4,000*	1,814*	4,000*	1,814*				
	200	60.96	10.7	43	13.36	3,100*	1,406*	3,100*	1,406*	3,100*	1,406*	3,100*	1,406*	3,100*	1,406*	3,100*	1,406*	3,100*	1,406*	3,100*	1,406*	3,100*	1,406*	3,100*	1,406*				
	50	15.24	77.2	211	64.41	25,900*	11,748*	25,900*	11,748*	25,900*	11,748*	25,900*	11,748*	25,900*	11,748*	25,900*	11,748*	25,900*	11,748*	25,900*	11,748*	25,900*	11,748*	25,900*	11,748*				
	60	18.29	74.4	208	63.65	22,600*	10,251*	22,600*	10,251*	22,600*	10,251*	22,600*	10,251*	22,600*	10,251*	22,600*	10,251*	22,600*	10,251*	22,600*	10,251*	22,600*	10,251*	22,600*	10,251*				
	70	21.34	71.5	205	62.71	19,800*	8,981*	19,800*	8,981*	19,800*	8,981*	19,800*	8,981*	19,800*	8,981*	19,800*	8,981*	19,800*	8,981*	19,800*	8,981*	19,800*	8,981*	19,800*	8,981*				
210' (64.01 m)	80	24.38	68.6	202	61.62	17,300*	7,847*	17,300*	7,847*	17,300*	7,847*	17,300*	7,847*	17,300*	7,847*	17,300*	7,847*	17,300*	7,847*	17,300*	7,847*	17,300*	7,847*	17,300*	7,847*				
	90	27.43	65.7	198	60.35	15,100*	6,849*	15,100*	6,849*	15,100*	6,849*	15,100*	6,849*	15,100*	6,849*	15,100*	6,849*	15,100*	6,849*	15,100*	6,849*	15,100*	6,849*	15,100*	6,849*				
	100	30.48	62.6	193	58.86	13,500*	6,124*	13,500*	6,124*	13,500*	6,124*	13,500*	6,124*	13,500*	6,124*	13,500*	6,124*	13,500*	6,124*	13,500*	6,124*	13,500*	6,124*	13,500*	6,124*				
	110	33.53	59.5	187	57.18	11,800*	5,352*	11,800*	5,352*	11,800*	5,352*	11,800*	5,352*	11,800*	5,352*	11,800*	5,352*	11,800*	5,352*	11,800*	5,352*	11,800*	5,352*	11,800*	5,352*				
	120	36.58	56.3	181	55.25	10,500*	4,763*	10,500*	4,763*	10,500*	4,763*	10,500*	4,763*	10,500*	4,763*	10,500*	4,763*	10,500*	4,763*	10,500*	4,763*	10,500*	4,763*	10,500*	4,763*				
	130	39.62	53.0	174	53.09	9,300*	4,218*	9,300*	4,218*	9,300*	4,218*	9,300*	4,218*	9,300*	4,218*	9,300*	4,218*	9,300*	4,218*	9,300*	4,218*	9,300*	4,218*	9,300*	4,218*				
	140	42.67	49.5	166	50.65	8,300*	3,765*	8,300*	3,765*	8,300*	3,765*	8,300*	3,765*	8,300*	3,765*	8,300*	3,765*	8,300*	3,765*	8,300*	3,765*	8,300*	3,765*	8,300*	3,765*				
	150	45.72	45.8	157	47.88	7,200*	3,266*	7,200*	3,266*	7,200*	3,266*	7,200*	3,266*	7,200*	3,266*	7,200*	3,266*	7,200*	3,266*	7,200*	3,266*	7,200*	3,266*	7,200*	3,266*				
	160	48.77	41.8	151	46.07	6,100*	2,767*	6,100*	2,767*	6,100*	2,767*	6,100*	2,767*	6,100*	2,767*	6,100*	2,767*	6,100*	2,767*	6,100*	2,767*	6,100*	2,767*	6,100*	2,767*				
	170	51.82	37.5	134	41.02	5,100*	2,313*	5,100*	2,313*	5,100*	2,313*	5,100*	2,313*	5,100*	2,313*	5,100*	2,313*	5,100*	2,313*	5,100*	2,313*	5,100*	2,313*	5,100*	2,313*				
	180	54.86	32.8	120	36.68	4,300*	1,950*	4,300*	1,950*	4,300*	1,950*	4,300*	1,950*	4,300*	1,950*	4,300*	1,950*	4,300*	1,950*	4,300*	1,950*	4,300*	1,950*	4,300*	1,950*				
190	57.91	27.4	103	31.44	3,600*	1,633*	3,600*	1,633*	3,600*	1,633*	3,600*	1,633*	3,600*	1,633*	3,600*	1,633*	3,600*	1,633*	3,600*	1,633*	3,600*	1,633*	3,600*	1,633*					
200	60.96	20.7	80	24.58	2,900*	1,315*	2,900*	1,315*	2,900*	1,315*	2,900*	1,315*	2,900*	1,315*	2,900*	1,315*	2,900*	1,315*	2,900*	1,315*	2,900*	1,315*	2,900*	1,315*					
210	64.01	10.5	44	13.64	2,300*	1,043*	2,300*	1,043*	2,300*	1,043*	2,300*	1,043*	2,300*	1,043*	2,300*	1,043*	2,300*	1,043*	2,300*	1,043*	2,300*	1,043*	2,300*	1,043*					

(continued)

Ⓢ Applicable only to machines with booms 110' (33.53 m) through 180' (54.86 m) long. On machines equipped with booms 190' (57.91 m) through 230' (70.10 m) long, bumper cwt. "AB" is required.

HC-238 Tapered Tip Boom										"A" Upper & "A" Bumper Cwts.								"AB" Upper & "A" Bumper Cwts.							
				Boom Point		On Outriggers				On Tires (static)				On Outriggers Only											
Length	Radius		Angle Degree	Height Feet	Height "W" Meters	Rear		Side		Rear		Side		Rear		Side									
	Feet	Meters				Pounds	Kilograms	Pounds	Kilograms	Pounds	Kilograms	Pounds	Kilograms	Pounds	Kilograms	Pounds	Kilograms								
220 (67.06 m)	50	15.24	77.8	221	8'	67.56	23,400*	10,614*	23,400*	10,614*	23,400*	10,614*	23,400*	10,614*	23,400*	10,614*									
	60	18.29	75.1	219	2"	66.80	20,500*	9,299*	20,500*	9,299*	20,500*	9,299*	20,500*	9,299*	20,500*	9,299*									
	70	21.34	72.4	216	3"	65.92	17,900*	8,119*	17,900*	8,119*	17,900*	8,119*	17,900*	8,119*	17,900*	8,119*									
	80	24.38	69.7	212	10"	64.87	15,700*	7,122*	15,700*	7,122*	15,700*	7,122*	15,700*	7,122*	15,700*	7,122*									
	90	27.43	66.8	208	10"	63.65	13,700*	6,214*	13,700*	6,214*	13,700*	6,214*	13,700*	6,214*	13,700*	6,214*									
	100	30.48	64.0	204	3"	62.26	12,000*	5,443*	12,000*	5,443*	12,000*	5,443*	12,000*	5,443*	12,000*	5,443*									
	110	33.53	61.0	199	1"	60.69	10,500*	4,763	10,500*	4,763	10,500*	4,763	10,500*	4,763	10,500*	4,763									
	120	36.58	58.0	193	2"	58.88	9,300*	4,218*	9,300*	4,218*	9,300*	4,218*	9,300*	4,218*	9,300*	4,218*									
	130	39.62	54.9	186	7"	56.87	8,300*	3,765*	8,300*	3,765*	8,300*	3,765*	8,300*	3,765*	8,300*	3,765*									
	140	42.67	51.7	179	2"	54.61	7,500*	3,402*	7,500*	3,402*	7,500*	3,402*	7,500*	3,402*	7,500*	3,402*									
	150	45.72	48.2	170	2"	51.87	6,700*	3,039*	6,700*	3,039*	6,700*	3,039*	6,700*	3,039*	6,700*	3,039*									
	160	48.77	44.7	161	2"	49.12	5,800	2,631	5,800	2,631	5,800	2,631	5,800	2,631	5,800	2,631									
230 (70.10 m)	50	15.24	78.3	231	10'	70.66	21,200*	9,616*	21,200*	9,616*	21,200*	9,616*	21,200*	9,616*	21,200*	9,616*									
	60	18.29	75.8	229	7"	69.98	18,500*	8,392*	18,500*	8,392*	18,500*	8,392*	18,500*	8,392*	18,500*	8,392*									
	70	21.34	73.2	226	9"	69.11	16,200*	7,348*	16,200*	7,348*	16,200*	7,348*	16,200*	7,348*	16,200*	7,348*									
	80	24.38	70.6	223	6"	68.12	14,200*	6,441*	14,200*	6,441*	14,200*	6,441*	14,200*	6,441*	14,200*	6,441*									
	90	27.43	67.9	219	8"	66.95	12,400*	5,625*	12,400*	5,625*	12,400*	5,625*	12,400*	5,625*	12,400*	5,625*									
	100	30.48	65.2	215	4"	65.63	10,800*	4,899*	10,800*	4,899*	10,800*	4,899*	10,800*	4,899*	10,800*	4,899*									
	110	33.53	62.4	210	6"	64.16	9,500*	4,309*	9,500*	4,309*	9,500*	4,309*	9,500*	4,309*	9,500*	4,309*									
	120	36.58	59.6	204	10"	62.43	8,400*	3,810*	8,400*	3,810*	8,400*	3,810*	8,400*	3,810*	8,400*	3,810*									
	130	39.62	56.6	198	8"	60.55	7,500*	3,402*	7,500*	3,402*	7,500*	3,402*	7,500*	3,402*	7,500*	3,402*									
	140	42.67	53.6	191	8"	58.42	6,700*	3,039*	6,700*	3,039*	6,700*	3,039*	6,700*	3,039*	6,700*	3,039*									
	150	45.72	50.4	185	2"	55.98	6,100*	2,767*	6,100*	2,767*	6,100*	2,767*	6,100*	2,767*	6,100*	2,767*									
	160	48.77	47.1	175	2"	53.39	5,400*	2,449*	5,400*	2,449*	5,400*	2,449*	5,400*	2,449*	5,400*	2,449*									
240 (73.15 m)	170	51.82	43.6	165	3"	50.37	4,600	2,087	4,600	2,087	4,600	2,087	4,600	2,087	4,600	2,087									
	180	54.86	39.9	154	1"	48.97	3,800	1,724	3,800	1,724	3,800	1,724	3,800	1,724	3,800	1,724									
	190	57.91	35.8	141	2"	43.03	3,100	1,406	3,100	1,406	3,100	1,406	3,100	1,406	3,100	1,406									
	200	60.96	31.3	126	2"	38.45	2,400	1,089	2,400	1,089	2,400	1,089	2,400	1,089	2,400	1,089									
	210	64.01	26.1	107	10"	32.86	1,800	816	1,800	816	1,800	816	1,800	816	1,800	816									
	220	67.06	19.7	84	1"	25.63	—	—	—	—	—	—	—	—	—	—	—								

① Applicable only to machines with booms 110' (33.53 m) through 180' (54.86 m) long. On machines longer than 180' (54.86 m), a boom extension is required.

... with tapered tip top section.

- NOTES — lifting cranes**
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. Capacities are based on 85% of minimum tipping loads unless marked with an asterisk (*). Asterisk indicates capacities are based on factors other than those which would cause a tipping condition.
 2. Capacities are based on freely suspended loads and make no allowance for such factors as the effect of wind, supporting surface conditions, inflation of tires, and operating speeds. Operator must reduce load ratings accordingly to take such conditions into account. Deduction from rated capacities must be made for weight of hook block, ball/hook, sling, spreader bar, or other suspended gear.

3. Boom lengths exceeding 160' (48.77 m) — boom midpoint suspension pendants required.
4. Main boom lengths must not exceed 230' (70.10 m).
5. For lifting 113,100# (51,438 kg), 4-part load hqst line (7/8" dia. — 22.23 mm, Type "N" wire rope) is required. Check parts of line required for all capacities.
6. Jib cannot be used on boom lengths less than 110' (33.53 m) or longer than 230' (70.10 m).
7. Machine equipped with upper cwt. "A" and bumper cwt. "A" — maximum boom/jib combination allowed is 180' (54.86 m) boom plus 70' (21.34 m) jib.
8. "AB" bumper cwt. **must not** be used in conjunction with "AB" upper cwt., except with boom lengths exceeding 200' (60.96 m) plus jib. "AB" bumper cwt. **must not** be used with booms less than 190' (57.91 m) long, due to strength of materials.

9. Machine equipped with "AB" upper cwt. — do not swing over side until outriggers have been set.
10. Telescopic boom live mast, pinned in the extended (30' — 9.14 m) position, required for all tapered tip boom capacities.
 - a. Use of live mast as short boom — mast must be pinned in the retracted (25' 6" — 7.77 m) position. Lifting capacity of the mast is 47,300# (21,455 kg) from 10' 0" (3.05 m) minimum radius to 23' 0" (7.01 m) maximum radius with 3-parts of $\frac{5}{8}$ " (22.23 mm) dia. wire rope, and carrier on outriggers.

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.
11. Capacities apply only to the machine as originally manufactured and normally equipped by FMC Corporation, Crane and Excavator Division.

HC-238 jib capacities

Boom — tubular; 54" x 60" (1.37 x 1.52 m) **Jib** — tubular; 30" x 36" (.76 x .91 m), with tapered tip top section.

Carriers — FMC 8 x 4, 260" (6.60 m) wheelbase, 11' 10" (3.61 m) wide, or FMC 10 x 4, 267" (6.78 m) wheelbase, 11' 10" (3.61 m) wide.

Note: The following are representative jib capacities with tapered tip boom only. Maximum jib length permitted — 70' (21.34 m); jib cannot be used on tapered tip boom shorter than 110' (33.53 m) or longer than 230' (70.10 m). Comprehensive, complete jib capacities for all boom/jib lengths — plus necessary operational notes — are published in book form. Contact your local authorized FMC Crane & Excavator Division distributor for necessary additional data.

Boom Length	Jib Length Feet	Jib Length Meters	0° Offset						15° Offset						30° Offset						
			Load Radius		Jib Point Height		Jib Capacity		Boom Angle		Jib Point Height		Jib Capacity		Boom Angle		Jib Point Height		Jib Capacity		
			Feet	Meters	Feet	Meters	Pounds	Kilograms	Feet	Meters	Pounds	Kilograms	Feet	Meters	Pounds	Kilograms	Feet	Meters	Pounds	Kilograms	
230' (70.10 m)	50	15.24	50	15.24	262	5	79.98	17,900	8,119	79.0	259	5	79.07	15,500	7,031	75.8	250	7	76.38	10,800	4,899
			60	18.29	260	5	79.37	15,800	7,167	74.4	254	2	77.45	11,900	5,398	75.8	247	3	75.35	9,400	4,264
			80	24.38	255	2	77.75	12,300	5,579	72.1	250	10	76.44	10,500	4,763	73.5	243	5	74.19	8,100	3,674
			90	27.43	251	6	76.66	10,800	4,899	69.8	247	0	75.29	9,200	4,173	71.1	239	0	72.85	7,100	3,221
			100	30.48	248	0	75.59	9,400	4,264	67.4	242	8	73.97	8,100	3,674	68.6	239	0	72.85	7,100	3,221
			110	33.53	243	8	74.28	8,400	3,810	67.4	242	8	73.97	8,100	3,674	68.6	239	0	72.85	7,100	3,221
			130	39.62	233	8	71.23	6,600	2,994	62.4	232	7	70.90	6,300	2,858	63.6	228	8	69.71	5,500	2,495
			140	42.67	227	10	69.43	5,900	2,678	59.3	226	8	69.10	5,600	2,540	61.0	222	8	67.88	4,800	2,177
			150	45.72	221	4	67.45	5,300	2,404	57.2	220	3	67.12	5,000	2,288	58.3	216	2	65.87	4,300	1,950
			160	48.77	214	3	65.29	4,700	2,132	54.5	213	0	64.92	4,500	2,041	55.6	208	10	63.64	3,800	1,724
			170	51.81	206	3	62.85	4,300	1,950	51.6	205	0	62.48	4,000	1,814	52.8	200	10	61.30	3,300	1,497
			180	54.86	197	5	60.17	3,900	1,769	48.7	196	2	59.77	3,700	1,678	50.0	194	10	59.12	3,000	1,275
70'	21.34	190	57.91	187	8	57.21	3,500	1,588	45.6	186	4	56.78	3,300	1,497	46.9	184	10	54.60	2,800	1,175	
		200	60.96	176	10	53.89	3,200	1,452	42.3	175	4	53.43	3,000	1,361	43.6	173	10	51.12	2,300	907	
		210	64.01	164	6	50.14	2,600	1,179	38.8	162	11	49.65	2,700	1,225	40.1	160	10	47.13	2,000	807	
		220	67.06	150	6	45.87	2,000	907	35.7	150	6	45.87	2,000	907	37.0	148	10	43.62	1,700	771	
		230	70.10	140	7	41.88	1,600	726	32.6	140	7	41.88	1,600	726	33.9	138	10	41.11	1,400	635	
		60	18.29	280	7	85.53	14,100	6,396	78.8	276	7	84.31	11,700	5,307	76.7	264	11	80.74	7,000	3,175	
		70	21.34	278	4	84.83	12,300	5,579	74.5	270	10	82.54	8,800	3,982	74.5	261	4	79.64	6,000	2,722	
		80	24.38	272	6	83.06	9,500	4,309	72.3	267	3	81.44	7,700	3,493	72.2	257	4	78.03	5,200	2,359	
		90	27.43	269	0	81.99	8,300	3,765	70.1	263	4	80.25	6,700	3,039	69.9	252	8	77.02	4,400	1,996	
		100	30.48	265	2	80.80	7,300	3,311	67.9	258	11	78.91	5,800	2,631	65.2	242	3	73.82	3,300	1,497	
		110	33.53	260	8	79.46	6,400	2,903	63.2	248	7	75.77	4,500	2,041	62.8	236	2	71.96	2,900	1,315	
		120	36.58	250	6	76.35	5,000	2,268	60.8	242	7	73.94	3,900	1,769	60.3	229	5	69.92	2,500	1,134	

C-238 boom/jib working ranges

Boom — tubular; 54" x 60" (1.37 x 1.52 m) with tapered tip top section. **Jib** — tubular; 30" x 36" (.76 x .91 m).

Carriers — FMC 8 x 4, 260" (6.60 m) wheelbase, 11' 10" (3.61 m) wide, or FMC 10 x 4, 267" (6.78 m) wheelbase, 11' 10" (3.61 m) wide.

