

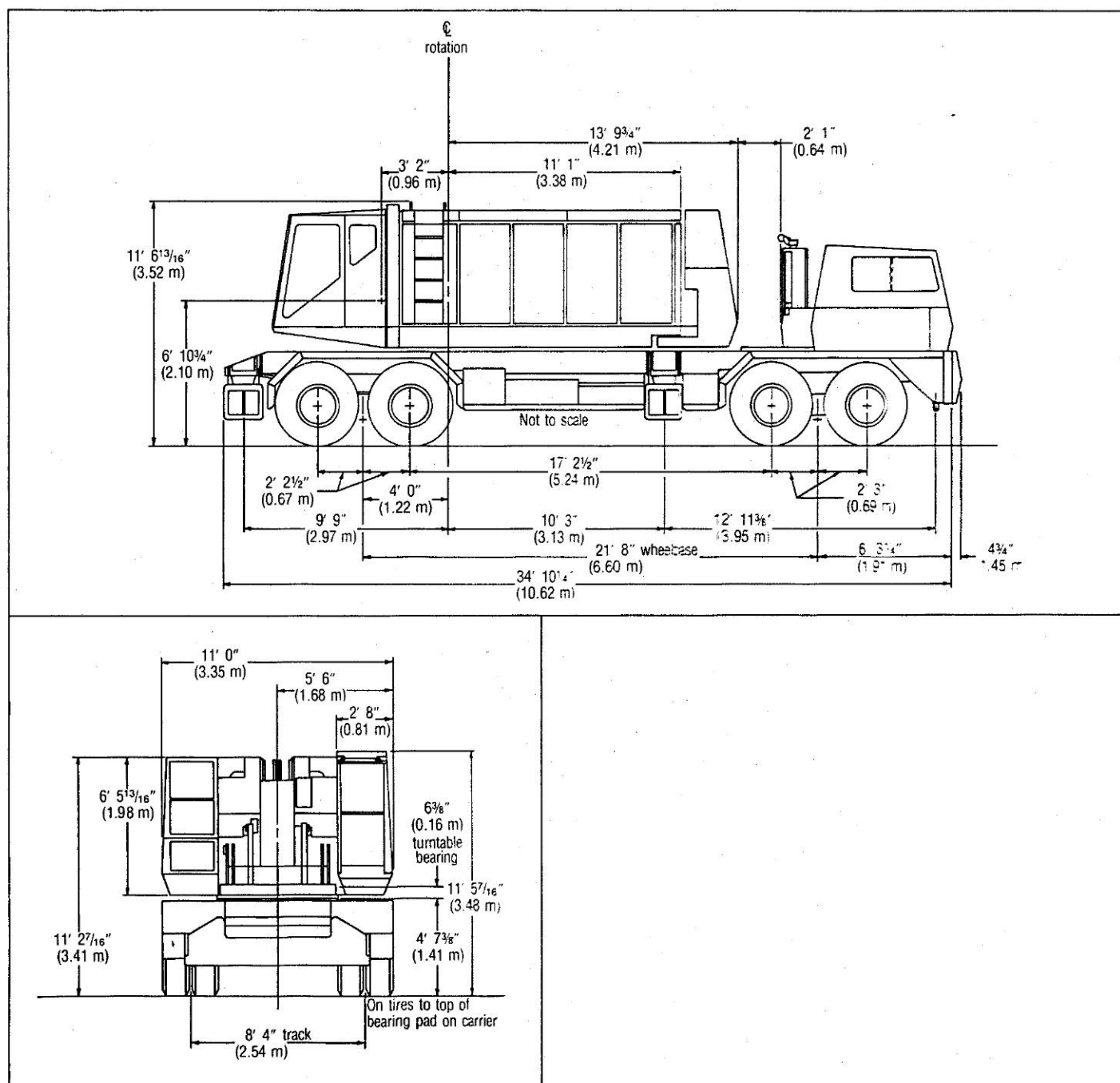
General Specifications

Link-Belt® 75-ton (68.03 metric ton)

Wire rope truck crane

HC-138A

GENERAL INFORMATION ONLY



General dimensions	Feet	meters
Overall width, outriggers extended, (over floats)	22' 0"	6.71
Overall width, outriggers extended, (centerline of jacks)	19' 6"	5.94
Overall width, outriggers retracted, (floats removed)	11' 0"	3.35
Minimum ground clearance	12½"	0.32
Ground clearance under upper counterweight with machine on tires	56¾"	1.44
Counterweight tailswing, across corners of counterweight	14' 10½"	4.54
Upper cab overall width	11' 0"	3.35
Basic boom length — open throat	40' 0"	12.19
— hammerhead	25' 0"	7.62
Radius of boomfoot pin	38"	0.97
Height of boomfoot pin	82¾"	2.10

General dimensions	Feet	meters
Overall length with basic length boom in travel position over rear of carrier with bumper counterweight — open throat boom	69' 2"	21.08
— hammerhead boom	53' 2¼"	16.21
Overall length with basic length boom in travel position over front of carrier — open throat boom	53' 6"	16.31
— hammerhead boom	42' 6"	12.95
Height over boom live mast with basic length boom in travel position over rear of carrier	12' 4"	3.76
— open throat boom	11' 5"	3.48
— hammerhead boom		
Height over boom live mast with basic length boom in travel position over front of carrier	13' 4"	4.06
— open throat boom	13' 4"	4.06
— hammerhead boom		

GENERAL INFORMATION ONLY

Axle loadings — approximate

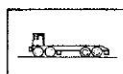
Based on HC-138A crane upper equipped with 18,000 lb. (8 165 kg) counterweight "A", boom lowering planetary, rear drum hoisting and lowering clutches, GM 6-71N with single stage torque converter [®] mounted on FMC 8x4, 11' 0" (3.35 m) wide, 260" (6.60 m) wheelbase carrier with GM 6V-92TA diesel, 14:00x24 J (18-ply rating) Goodyear Hi-Miler tires, hydraulic outriggers front and rear, 4 floats in storage racks, front center hydraulic jack and float, and 1,500 lb. (608 kg) front bumper counterweight.	Basic machine gross weight		Upper facing front				Upper facing rear					
	**	Lbs.	kg	Front		Rear		Front		Rear		
				Lbs.	kg	Lbs.	kg	Lbs.	kg	Lbs.	kg	
A	48,850	22 158	—	6,770	—	3 071	55,620	25 229	24,810	11 254	24,040	10 905
B	46,580	21 129	—	21,420	—	9 716	25,160	11 413	21,420	9 716	25,160	11 413
C	95,430	43 287	—	14,650	—	6 645	80,780	36 642	46,230	20 970	49,200	22 317
Adjust axle loadings accordingly for the following components:	Component weights		Front		Rear		Front		Rear			
	Lbs.	kg	Lbs.	kg	Lbs.	kg	Lbs.	kg	Lbs.	kg		
Upper machinery —	—	—	—	—	—	—	—	—	—	—	—	—
Boom lowering clutch (two-speed)	+ 350	+ 159	—	30	—	14	+ 380	+ 173	+ 150	+ 68	+ 200	+ 91
Boomhoist raising planetary	+ 450	+ 204	—	40	—	18	+ 490	+ 222	+ 200	+ 91	+ 250	+ 113
Boomhoist wire rope — 495' (150.88 m), ¾" (19 mm) diameter, Type "T":	—	—	—	—	—	—	—	—	—	—	—	—
— On drum	+ 520	+ 236	—	40	—	18	+ 560	+ 254	+ 230	+ 104	+ 290	+ 132
— For 23' 0" (7.01 m) mast in horizontal position	+ 520	+ 236	+ 320	+ 145	+ 200	+ 91	—	120	—	54	+ 640	+ 290
Front drum load lowering clutch	+ 350	+ 159	+ 50	+ 23	+ 300	+ 136	+ 80	+ 36	+ 270	+ 123		
Front drum planetary — load hoist	+ 450	+ 204	+ 60	+ 27	+ 390	+ 177	+ 110	+ 55	+ 340	+ 154		
Front drum planetary — load lowering	+ 450	+ 204	+ 60	+ 27	+ 390	+ 177	+ 110	+ 50	+ 340	+ 154		
Front drum wire rope — 1,000' (304.80 m), ¾" (19 mm) diameter, Type "N"	+ 1,040	+ 472	+ 140	+ 63	+ 900	+ 409	+ 250	+ 113	+ 790	+ 359		
Rear drum planetary — load hoist	+ 450	+ 204	0	0	+ 450	+ 204	+ 160	+ 73	+ 290	+ 131		
Rear drum planetary — load lowering	+ 450	+ 204	0	0	+ 450	+ 204	+ 160	+ 73	+ 290	+ 131		
Rear drum wire rope — 1,000' (304.80 m), ¾" (19 mm) diameter, Type "N"	+ 1,040	+ 472	+ 10	+ 5	+ 1,030	+ 467	+ 370	+ 168	+ 670	+ 304		
Third drum with front drum lowering clutch and gear to power third drum	+ 1,750	+ 794	+ 400	+ 181	+ 1,350	+ 613	+ 250	+ 113	+ 1,500	+ 681		
Third drum load lowering clutch	+ 350	+ 159	+ 80	+ 36	+ 270	+ 123	+ 50	+ 23	+ 300	+ 136		
Third drum wire rope — 370' (112.78 m), ¾" (19 mm) diameter, Type "N"	+ 380	+ 172	+ 90	+ 41	+ 290	+ 131	+ 50	+ 22	+ 330	+ 150		
Upper counterweight "A"	— 18,000	— 8 165	+ 7,220	+ 3 275	— 25,220	— 11 440	— 13,870	— 6 291	— 4,130	— 1 874		
Upper counterweight "B"	+ 12,000	+ 5 443	— 4,810	— 2 182	+ 16,810	+ 7 625	+ 9,240	+ 4 191	+ 2,760	+ 1 252		
Optional Cummins N855-C220 diesel with 3-stage torque converter	+ 1,760	+ 798	— 430	— 195	+ 2,190	+ 993	+ 1,080	+ 490	+ 680	+ 308		
Crane booms and auxiliary equipment —	—	—	—	—	—	—	—	—	—	—	—	—
40' (12.19 m) basic open throat boom with accessories	+ 3,980	+ 1 805	+ 6,020	+ 2 730	— 2,040	— 925	— 4,550	— 2 064	+ 8,530	+ 3 869		
20' (6.10 m) open throat boom top section only	— 2,350	— 1 066	— 4,600	— 2 087	+ 2,250	+ 1 021	+ 3,730	+ 1 692	— 6,090	— 2 758		
25' (7.62 m) basic hammerhead boom with accessories	+ 4,160	+ 1 887	+ 4,880	+ 2 214	— 720	— 327	— 3,340	— 1 515	+ 7,500	+ 3 402		
5' (1.52 m) hammerhead boom top section only	— 2,530	— 1 148	— 3,460	— 1 569	+ 930	+ 421	+ 2,530	+ 1 148	— 5,060	— 2 296		
Boom stops	+ 700	+ 318	+ 250	+ 113	+ 450	+ 205	+ 10	+ 5	+ 690	+ 313		
Boom live mast (extended and horizontal), bridle and spreader bar	+ 3,370	+ 1 529	+ 3,440	+ 1 560	— 70	— 31	— 2,190	— 993	+ 5,560	+ 2 522		
Carrier —	—	—	—	—	—	—	—	—	—	—	—	—
Front outrigger box, beams and jacks	— 5,200	— 2 359	— 3,420	— 1 552	— 1,780	— 807	— 3,420	— 1 552	— 1,780	— 807		
Rear outrigger box, beams and jacks	— 5,200	— 2 359	+ 1,380	+ 626	— 6,580	— 2 985	+ 1,380	+ 626	— 6,580	— 2 985		
Front and rear outrigger floats (4)	— 500	— 227	— 140	— 64	— 360	— 163	— 140	— 64	— 360	— 163		
Front center hydraulic jack	— 130	— 59	— 170	— 77	+ 40	+ 18	— 170	— 77	+ 40	+ 18		
Front center hydraulic jack float (1)	— 130	— 59	— 60	— 27	— 70	— 32	— 60	— 27	— 70	— 32		
Bumper counterweight "A"	— 1,500	— 680	— 1,940	— 880	+ 440	+ 200	— 1,940	— 880	+ 440	+ 200		
Optional Cummins NTC-290 diesel	+ 740	+ 336	+ 800	+ 363	— 60	— 27	+ 800	+ 363	— 60	— 27		
Optional 14:00x20J All service Goodyear	0	0	0	0	0	0	0	0	0	0		
Optional 14:00x20J SRL-1 Goodyear	+ 630	+ 286	+ 210	+ 95	+ 420	+ 191	+ 210	+ 95	+ 420	+ 191		
Optional 14:00x20J HCT General	+ 330	+ 150	+ 110	+ 50	+ 220	+ 100	+ 110	+ 50	+ 220	+ 100		
Optional 14:00x20J Goodrich	+ 480	+ 218	+ 160	+ 73	+ 320	+ 145	+ 160	+ 73	+ 320	+ 145		

**A — upper; B — carrier; C — total weight of upper and carrier.

Optional GM 6-71 with three stage torque converter is equivalent in weight to GM 6-71 single stage torque converter.

General specifications

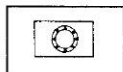
Carrier



Type

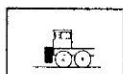
FMC; 8 x 4 drive, 260" (6.60 m) wheelbase, 11' 0" (3.35 m) wide.

Frame — Main members heat treated alloy steel; machined surface for mounting turntable bearing. Formed channel front bumper.



Turntable bearing

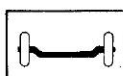
Outer race, with integral swing (ring) gear bolted to carrier.



Bumper counterweight

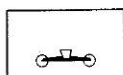
Easily removed, mounts on front bumper hooks. Refer to lifting capacity charts for counterweight requirements.

Bumper counterweight "A" — 1,500 lbs. (680 kg).



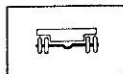
Front axles

Shuler FTKC-34L; bogie beam mounted tandem axles, single wheels. Track — 110¼" (2.80 m).



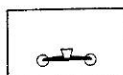
Bogie

Hendrickson; rubber bushed equalizer beams and torque rods.



Rear axles

Clark Planetary BD-57000, bogie mounted tandem axles, dual wheels. Track — 100" (2.54 m).



Bogie

Hendrickson; bronze bushed equalizer beams, rubber bushed torque rods.

Tag axle — Optional; Transport Trailer, equipped with air brakes, 10:00 x 20F (12-ply rating) dual tires.

Wheels and rims — Front; cast spoke type. Rear; integral with planetary hubs.

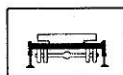


Tires

Single tires front; dual tires rear.

Standard — 14:00 x 20J (18-ply rating) Goodyear Custom Hi-Miler.

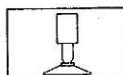
Optional — 14:00 x 20J (18-ply rating) All service Goodyear; 14:00 x 20J (18-ply rating) SRL-1 Goodyear; 14:00 x 20J (18-ply rating) HCT General; 14:00 x 20J (18-ply rating) Goodrich.



Outriggers

Full width, double box, front and rear; pin connected to carrier frame. Hydraulically operated beam and jack cylinders individually controlled from each side of carrier. Hydraulic power supplied by PTO-driven hydraulic pump. Check valve at each jack cylinder.

Optional — Outrigger beam and jack cylinder controls in crane upper cab.



Front center hydraulic jack with float

Required for handling 360° swing rated capacities. Warning horn sounds if ground surface allows front outriggers to settle.

Floats — Low profile, alloy steel lightweight; 30" (0.76 m) square base.

Trailer hitch — *Optional*; includes air and electric connections at rear of carrier for trailer lights and air brakes.

Brakes — 8-wheel air brakes.

Service — Single diaphragm air chambers on four front wheels; Maxi brakes on four rear wheels.

Size and area — Rear wheels; 16½" x 7" (0.42 x 0.18 m); total effective lining area, 455 square inches (2 936 cm²) per axle. Front wheels; 17-¼" x 4" (0.44 x 0.10 m); total effective lining area, 248 square inches (1 600 cm²) per axle.

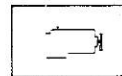
Parking — Brakes on four rear wheels spring applied; air control valve on dash.

Emergency — Air brakes on four rear wheels spring apply automatically if air pressure drops to 45 p.s.i. (310.28 kPa) in system. Emergency brake may be manually applied any time by hand control of dash-mounted air control valve.



Steering

Power hydraulic assist. Ross HPS 70 steering gear; 18" (0.46 m) diameter steering wheel.



Engines

Diesel; 12-volt starter, pressure lubrication, hydraulic pump, dry type air cleaner, and 14.5 c.f.m. (0.41 m³/min) air compressor.

Standard — GM 6V-92TA diesel. 6 cylinder. 2 cycle, 4.84" (0.12 m) bore, 5" (0.13 m) stroke, 552 cu. in. (9 047 cm³) displacement, 318 brake horsepower (237 133 W) at 2,100 r.p.m. governed load speed. Peak torque 914 ft. lbs. (1 239 J) at 1,400 r.p.m. Pushbutton electric shutdown. 12-volt, 65 amp alternator.

Optional — Cummins NTC-290 diesel. 6 cylinder, 4 cycle, 5-½" (0.14 m) bore, 6" (0.15 m) stroke, 855 cu. in. 14 013 cm³ displacement, 290 brake horsepower (216 253 W) at 2,100 r.p.m. governed load speed. Peak torque 930 ft. lbs. (1 261 J) at 1,300 r.p.m. Electric shutdown. 12-volt, 75 amp alternator.

Clutch — Lipe-Rollway, 14" (0.36 m), 2-plate, dry disc.

Transmissions

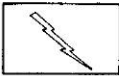
Main — Fuller RTO-915; 15 speeds forward, 3 reverse.

Auxiliary — Fuller AT-1202; 2-speed, midship mounting (for creeping only).

Universals — Rockwell Standard or Mechanics type drive tubes; needle bearings.

Cab — One-man, offset, fully enclosed. Rubber suspension mounted bucket seat with seat belt. Noise absorbing insulation with vinyl covering, sound reduction headliner, carpet floor mat; isolated from engine compartment. rubber mounted for sound level reduction. Instrument panel and dash includes speedometer, odometer, voltmeter, and gauges for fuel, engine temperature, air and oil pressures. Low air pressure warning buzzer, key locking switch, pushbutton starter, throttle control, tachometer, heater and defroster, 2-speed electric windshield wiper, windshield washer, and dry type fire extinguisher.

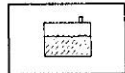
GENERAL INFORMATION ONLY



Electrical system

12-volt; including dual sealed beam headlights, directional signals with 4-way flashing system, stop and tail lights, clearance lights, horn, lighting of instrument panel, dome light, headlight dimmer switch, and two 12-volt, 225 ampere hour batteries. Individual switches provide circuit control for hydraulic outrigger solenoid valves; one control station on each side of carrier.

Standard auxiliary equipment — West Coast rear view mirrors, boom guide, lug wrench, 2-way reading bubble levels at four positions on carrier frame, tire gauge and tire inflation hose. High pressure lube fittings at all bearing points, hand grab rails, carrier deck access ladder, back-up alarm, skid-resistant finish on carrier deck, fenders, and mud flaps.



Fuel tanks

Two 45-gallon (170.31 liter) capacity fuel tanks mounted under carrier with filler spout on each side of carrier.

Carrier speeds

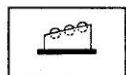
Based on GM 6V-92TA or Cummins NTC-290 engines running at 2,100 r.p.m. governed full load speed.						
Gear		Main-Fuller RTO-915	Auxiliary — Fuller AT-1202			
			1.00:1.00		2.036:1.00	
			M.p.h.	km/h	M.p.h.	km/h
High	10th	0.81	40.2	64.68	19.8	31.82
	9th	1.00	32.6	52.45	16.0	25.74
	8th	1.26	25.9	41.67	12.7	20.43
	7th	1.59	20.5	32.98	10.1	16.25
	6th	2.04	13.6	21.88	6.7	10.78
	Reverse	2.21	14.7	23.66	7.2	11.58
Low	5th	2.59	12.6	20.27	6.2	9.98
	4th	3.20	10.2	16.41	5.0	8.05
	3rd	4.04	8.1	13.03	4.0	6.44
	2nd	5.10	6.4	10.30	3.1	4.99
	1st	6.51	5.0	8.05	2.5	4.02
	Reverse	7.06	4.6	7.40	2.3	3.70
Deep reduction	5th	3.87	8.4	13.52	4.1	6.60
	4th	4.78	6.8	10.94	3.3	5.31
	3rd	6.03	5.4	8.69	2.7	4.34
	2nd	7.62	4.3	6.92	2.1	3.38
	1st	9.73	3.4	5.47	1.6	2.57
	Reverse	10.55	3.1	4.99	1.5	2.41

Creep speed in deep reduction low (1st), based on GM 6V-92TA peak torque r.p.m. — (1,400) 1.1 m.p.h. (1.77 km/h); based on Cummins NTC-290 peak torque r.p.m. (1,300) — 1.0 m.p.h. (1.61 km/h). Note: Rear axle ratio — 8.67 to 1.0.

Turning ability

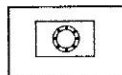
Turning circle diameter	Curb clearance circle diameter	Vehicle clearance circle diameter	
Centerline of outer front tire	Outside of outer front tire	Over outside of front bumper	Over outside of front bumper counterweight "A"
120' 3" (36.66 m)	122' 0" (37.19 m)	126' 0" (38.40 m)	126' 5" (38.53 m)

Revolving upperstructure



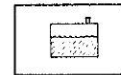
Frame

All welded, stress relieved, precision machined; machinery side housings welded integral with frame.



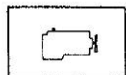
Turntable bearing

Inner race of bearing bolted to machined surface on under side of frame.



Fuel tank

75-gallon (284 liter) capacity fuel tank equipped with fuel gauge and fill pipe with flame arrester unit.



Engines

Diesel; full pressure lubrication, oil filter, air cleaner, hour meter, foot and optional hand throttles. Manual control shutdown for GM engine, electrical shutdown for Cummins engine.

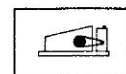
GENERAL INFORMATION ONLY

Engine specifications	GM 6-71N with single stage torque converter ^①	GM 6-71N with three stage torque converter ^①	Cummins N855-C220 with three stage torque converter ^②
Number cylinders	6	6	6
Bore and stroke	4 1/4" x 5" (0.11 x 0.13 m)	4 1/4" x 5" (0.11 x 0.13 m)	5 1/2" x 6" (0.14 x 0.15 m)
Piston displacement (cu. in.)	425.6 (6 976 cm ³)	425.6 (6 976 cm ³)	855 (14 013 cm ³)
High idle speed r.p.m.	1,950	1,940	1,980
Engine r.p.m. at full load speed	1,800	1,800	1,800
Net engine horsepower at full load speed	165 (123 041 W)	165 (123 041 W)	137 (102 161 W)
Peak torque (foot pounds)	1,400 (1 898 J)	2,360 (3 200 J)	1,898 (2 574 J)
Peak torque r.p.m.	Output shaft stall	Output shaft stall	Output shaft stall
Electrical system	12-volt	12-volt	12-volt
Batteries	One/12-volt	One/12-volt	Two/12-volt
Clutch or power take-off	Disconnect between engine and converter	Disconnect between engine and converter	Disconnect between engine and converter
Transmission —	—	—	—
Number chain wheel teeth	161	161	161
Number engine pinion teeth	21	28	28

^①Allison #TCDO 475 torque converter.

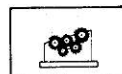
^②Twin Disc #CO-10066 T.C. torque converter.

Power train



Transmission

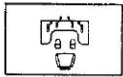
Triple roller chain enclosed in oil tight chain case with integral lubrication system.



Machinery gear train

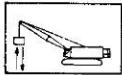
"Full Function" design, two-directional power available to all operating shafts; shafts mounted on anti-friction bearings in precision bored machinery side housings. All load hoist, swing, and boomhoist functions independent of one another. Components such as gears, pinions, chain wheels, brake drums and clutch spiders involute splined to shafts. Drum gear/clutch drum assemblies bolted together and mounted on shafts on anti-friction bearings. Machine-cut teeth on drum gears, pinions, spur gears, and chain wheel. Chain wheel and pinion fully enclosed and running in oil.

Principal operating functions



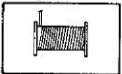
Control system

Speed-o-Matic® power hydraulic control system; a variable pressure system requiring no bleeding. Operating pressure transmitted to all 2-shoe clutch cylinders, and other hydraulic cylinders as required. System includes constant displacement, engine driven, vane type hydraulic pump to provide flow of oil; accumulator to maintain system operating pressure, unloader valve to control pressure in accumulator, relief valve to limit maximum pressure buildup in system, full-flow filter with 40 micron disposable filter element, and variable pressure control valves to control drum clutches and other operating cylinders.



Load hoisting and lowering

Wire rope drum gear train (front and rear main, and optional third, operating drums) powered by chain transmission from engine.



Load hoist drums

Front and rear main operating drums – One-piece, 14" (0.36 m) root diameter smooth drums; involute splined to shafts. Extended length shafts permit installation of power load lowering clutches; special length shaft required for, and furnished with, optional planetary drive units for either or both drums.

Third operating drums – Optional; mounts forward of front main operating drum. One-piece, 10½" (0.27 m) root diameter smooth drum; involute splined to shaft. **Note:** Installation of optional third operating drum includes required installation of power load lowering clutch/gear unit on front main operating drum shaft.



Drum clutches

Speed-o-Matic® power hydraulic 2-shoe clutches. Internal expanding, lined aluminum alloy shoes; clutch spiders splined to shafts, clutch drums bolted to drum spur gears and mounted on shafts on anti-friction bearings. Front, rear, and optional third, main operating drum clutches, swing clutches, and boom hoist clutch are fully interchangeable.

Load hoist clutches – Front and rear main, and optional third, operating drums — 18" (0.46 m) diameter, 4½" (0.11 m) face width.

Load lowering clutches – Standard on rear main drum; optional on front main, and optional third, operating drums. Clutches 18" (0.46 m) diameter, 4½" (0.11 m) face width.

Drum planetary drive units — *Optional*; available for load hoist or lowering on either or both front and rear main operating drums. Planetary units mount on extended drum shafts between drum spur gears and 2-shoe clutch drums. Available for **either** increase **or** decrease of standard load hoist or lowering line speeds — choice of increased or decreased line speeds predetermined by customer at time of order. Two-shoe clutches control standard line speeds. Planetary drive units controlled by external contracting band brakes through push button located on appropriate control lever.

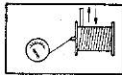


Drum brakes

Two-piece, external contracting band; mechanically foot pedal operated. Foot pedals equipped with latch to permit locking brakes in applied position.

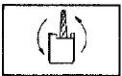
Front and rear main drums – Brakes 32" (0.81 m) diameter, 4" (101.60 mm) face width.

Optional third drum – Brake 26" (0.66 m) diameter, 4" (101.60 mm) face width.



Drum rotation indicators

Standard for front and rear main operating drums. Two electrically operated indicator buttons, recessed in drum clutch control lever handles; one button pulsates when rope drums rotate in one direction, the other button pulsates when drums rotate in opposite direction. Operator can adjust pulsations to determine either rope speed off drum or hook block speed based on specific number of parts of load hoist rope.



Swing system

Spur gear driven; single bevel gears (enclosed and running in oil) on horizontal and vertical swing shafts. Swing pinion, involute splined to vertical swing shaft, meshes with external teeth of swing gear integral with outer race of turntable bearing.



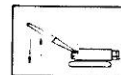
Swing clutches

18" (0.46 m) diameter, 4½" (0.11 m) face width; lined, aluminum alloy shoes.

Swing brake – External contracting band; spring applied, hydraulically released by operator controlled lever. Brake drum involute splined to vertical swing shaft; brake 18" (0.46 m) diameter, 3" (76.20 mm) face width.

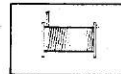
Swing lock – Mechanically controlled pawl engages external teeth of turntable bearing swing (ring) gear.

Maximum swing speed – 3.4 r.p.m.



Boom hoist/lowering system

Independent, spur gear driven. Precision control — hoisting through power hydraulic 2-shoe clutch; lowering through low speed planetary drive unit.



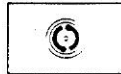
Boomhoist drum

10½" (0.27 m) root diameter, smooth; involute splined to shaft.



Boomhoist drum locking pawl

Operator controlled; spring applied, mechanically released.



Boom hoist clutch –

18" (0.46 m) diameter, 4½" (0.11 m) face width.



Boom lowering clutch

Optional; in addition to planetary boom lowering. Two-shoe clutch permits higher speed boom lowering mounted on shaft outside planetary unit, clutch drum bolted to outer face of planetary housing. Clutch power hydraulically controlled by depressing solenoid push button located on boom hoist/lowering control lever.



Boom hoist/lowering brake

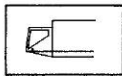
External contracting band; spring applied, hydraulically released as hoist clutch or lowering planetary are engaged. Brake drum involute splined to shaft; brake 26" (0.66 m) diameter, 4" (101.60 mm) face width.

Boom hoist limiting device – Provided to restrict hoisting boom beyond recommended minimum radius; located on exterior right-hand side of operator's cab.



Electrical system —

Battery, 12-volt, 225 ampere hour, either one or two batteries depending on engine. *Optional* – battery lighting system, including two sealed beam automotive type adjustable headlights located on cab front roof, one interior cab light and automotive type wiring. *Optional* – additional 50 watt sealed beam automotive type headlight mounted on boom. (Three maximum quantity recommended.) *Optional* – Onan independent light plant with single cylinder four cycle, air cooled diesel engine with remote electric starting, 3,000 watt, 120-volt, single-phase, 60 cycles A.C. including wiring in conduit, three interior cablights, trouble lamp with cord and two 300 watt adjustable flood lights on cab front roof. *Optional* – additional 300 watt floodlights available for mounting on cab and boom.



Operator's cab

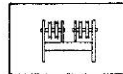
Environmental cab, modular type isolated from upper machinery cab. Tinted tempered glass panels in all windows, hand grab rail, adjustable, cushioned seat with head rest, arm rests on control consoles, dry chemical fire extinguisher. Cab heater/defroster and windshield wiper *optional*.



Machinery cab

Equipped with warning horn, hinged doors on two sides, rear, and top. Removable panels for machinery access, roof-top access ladder, and skid resistant finish on roof.

Gantry — Low type, mounted at top rear of machinery side housings; supports boom suspension system.



Gantry bail

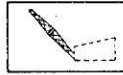
Contains six 12" (0.30 m) root diameter sheaves, mounted on anti-friction bearings, for 14-part boomhoist wire rope reeving.



Counterweight

"A" counterweight — 18,000 lbs. (8 165 kg); "B" counterweight — 12,000 lbs. (5 443 kg). (Refer to counterweight requirement instructions with lifting capacity chart.)

Booms and jibs



Boom

Tubular; two-piece basic boom 40' (12.19 m) long with open throat top section, 25' (7.62 m) long with hammerhead top section. Boom 54" (1.37 m) wide, 44" (1.12 m) deep at centerline of connections. Alloy steel, round tubular chords 3" (76.20 mm) outside diameter.

Base section – 20' (6.10 m) long. Boom feet 2 3/8" (60.33 mm) thick on 54" (1.37 m) centers. Lifting lugs on top side of base section to facilitate attaching carrying links for carrying base section or for boom assembly.

Boom extensions – Available in 5' (1.52 m), 10' (3.05 m), 15' (4.57 m) 20' (6.10 m) and 30' (9.14 m) lengths. Extended hub on female connections serves as anchor for link used to attach jib staylines, boom suspension pendants for boom assembly, and boom midpoint suspension pendants.

Boom folding section – 10' (3.05 m) long; equipped with lifting hubs to accommodate boom folding shaft and two deflector rollers.

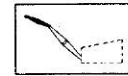
Boom connections – In-line, tapered pins.

Boom top section – Open throat; 20' (6.10 m) long.

–Boompoint machinery. Five 18" (0.46 m) root diameter head sheaves mounted on anti-friction bearings.

Boom top section – Hammerhead; 5' (1.52 m) long.

–Boompoint machinery. Five 18 1/2" (0.47 m) root diameter head sheaves, plus one or two (optional) idler sheaves to guide load hoist wire rope onto head sheaves.



Jib

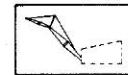
Tubular; basic two-piece 20' (6.10 m) long; 30" (0.76 m) wide, 24" (0.61 m) deep at connections. Alloy steel tubular chords 1 1/2" (38.10 mm) outside diameter.

Base section – 10' 0" (3.05 m) long.

Jib extensions – Available in 10' (3.05 m) lengths with appropriate length pendants. Maximum boom/jib lengths permitted: open throat boom — 190' (57.91 m) boom plus 50' (15.24 m) jib; hammerhead boom — 180' (54.86 m) boom plus 50' (15.24 m) jib.

Jib connections – In-line, tapered pins.

Tip section – 10' 0" (3.05 m) long; single peak sheave 15 1/4" (0.39 m) root diameter, mounted on anti-friction bearings.



Jib mast

10' 0" (3.05 m) high, mounted on jib base section. Two deflector sheaves mounted within mast to guide whipline; mounted on anti-friction bearings. Two equalizer sheaves mounted on top of mast — one for jib frontstay line, one for jib backstay line.

—Jib staylines – Front and rear staylines vary in length depending on degree of jib offset from boom centerline; backstay lines attached at bottom end of boom top section on open throat boom, and at a point 20' (6.10 m) below peak of hammerhead top section.

—Jib stops – Telescoping type; pinned from jib mast to boom top section and from jib mast to jib base section.

Link-Belt® HC-138A lifting crane capacities — open throat boom

PCSA Class 13-40
Refer to notes page 6.

Boom — tubular; 54" (1.37 m) wide, 44" (1.12 m) deep with open throat top section, 1 1/4" (32 mm) diameter boom pendants, boom live mast, and boom midpoint suspension pendants as required.

Jib — tubular; 30" (0.76 m) wide, 24" (0.61 m) deep.

Counterweights — Refer to charts below

Mounting — rubber tire mobile base:
FMC 8 x 4 drive, 260" (6.60 m) wheelbase,
11' 0" (3.35 m) wide.

Counterweights					
"A" upper		"AB" upper		"A" bumper	
Pounds	kilograms	Pounds	kilograms	Pounds	kilograms
18,000	8 165	30,000	13 608	1,500	680

Open throat boom or boom + jib machine can lift off ground unassisted, without load. ①

Standard HC-138A must be equipped with the counterweight combinations below when the indicated boom or boom + jib lengths are used.	Minimum/maximum boom or boom + jib lengths allowed	On outriggers							
		Over rear				Over side			
		Boom		Boom + jib		Boom		Boom + jib	
		Feet	meters	Feet	meters	Feet	meters	Feet	meters
"A" upper and "A" bumper	Minimum	40	12.19	Not applicable		40	12.19	Not applicable	
	Maximum	200	60.96			180	54.86		
"AB" upper and "A" bumper	Minimum	40	12.19	40 + 20	12.19 + 6.10	40	12.19	40 + 20	12.19 + 6.10
	Maximum	200	60.96	190 + 50	57.91 + 15.24	200	60.96	170 + 50	51.82 + 15.24
On tires②									
"A" upper and "A" bumper	Minimum	40	12.19	Not applicable		40	12.19	Not applicable	
	Maximum	140	42.67			120	36.58		

① Limited to 95% of available stability with machine standing level on firm supporting surface.

② Air pressure in tires to be 100 p.s.i. (690 kPa).

Machine travel with open throat boom or boom + jib, with no load. ①

Standard HC-138A must be equipped with the counterweight combinations below when the indicated boom or boom + jib lengths are used.	Minimum/maximum boom or boom + jib lengths allowed	On tires②							
		Jobsite moves at 1 m.p.h. (1.61 km/h), boom at 80° boom angle, upper facing rear only.				Over the road travel at 5 m.p.h. (8.05 km/h), with boom horizontal over rear and supported with standard suspension, and boom live mast retracted to 19' 0" (5.79 m) position or pinned in 23' 0" (7.01 m) extended position.			
		Boom		Boom + jib		Boom		Boom + jib	
		Feet	meters	Feet	meters	Feet	meters	Feet	meters
"A" upper and "A" bumper	Minimum	40	12.19	Not applicable		40	12.19	Not applicable	
	Maximum	200	60.96			120	36.58		
"AB" upper and "A" bumper	Minimum	40	12.19	40 + 20	12.19 + 6.10	40	12.19	40 + 20	12.19 + 6.10
	Maximum	200	60.96	190 + 50	57.91 + 15.24	140	42.67	110 + 50	33.53 + 15.24

① Limited to 85% of available stability with machine standing level on firm supporting surface.

② Air pressure in front and rear tires to be 100 p.s.i. (690 kPa) at 1 m.p.h., and 95 p.s.i. (655 kPa) at 5 m.p.h.

Note: Hook block may be carried only when attached to carrier.

Boom — tubular 1" (1.37 m) wide, 44" (1.12 m) deep with open throat top section, 1 1/4" (32 mm) diameter boom pendants, boom live mast, and boom midpoint suspension pendants as required.

Mounting — rubber tire mobile 3: FMC 8 x 4 drive, 260" (6.60 m) wheelbase, 11' 0" (3.35 m) wide.

Counterweights — Refer to charts page 1.

Refer to notes page 6.

Boom				"A" upper & "A" bumper counterweights										"AB" upper & "A" bumper counterweights									
Length	Radius		Boom point height ③		On outriggers				On tires (static)				On outriggers only										
	Feet	meters	Degrees	Feet	meters	Pounds	kilograms	Over rear	Pounds	kilograms	Over side	Pounds	kilograms	Over rear	Pounds	kilograms	Over side and 360° swing ①	Pounds	kilograms	Over rear	Pounds	kilograms	Over side and 360° swing ①
40' (12.19 m)	12	3.66	77.2	45' 11"	13.99	150,000*	68 038*	150,000*	68 038*	78,600*	35 652*	59,600*	27 034*	150,000*	68 038*	150,000*	68 038*	150,000*	68 038*	150,000*	68 038*	150,000*	68 038*
	13	3.96	75.8	45' 8"	13.92	150,000*	68 038*	150,000*	68 038*	76,000*	34 473*	55,800*	25 310*	150,000*	68 038*	150,000*	68 038*	150,000*	68 038*	150,000*	68 038*	150,000*	68 038*
	14	4.27	74.3	45' 5"	13.84	143,400*	65 045*	143,400*	65 045*	73,600*	33 384*	52,400*	23 768*	149,400*	67 766*	149,400*	67 766*	149,400*	67 766*	149,400*	67 766*	149,400*	67 766*
	15	4.57	72.8	45' 1"	13.75	135,600*	61 507*	135,600*	61 507*	71,400*	32 386*	49,500*	22 452*	141,200*	64 047*	141,200*	64 047*	141,200*	64 047*	141,200*	64 047*	141,200*	64 047*
	16	4.88	71.3	44' 9"	13.65	128,600*	58 331*	128,600*	58 331*	68,100*	30 889*	46,800*	21 228*	133,900*	60 736*	133,900*	60 736*	133,900*	60 736*	133,900*	60 736*	133,900*	60 736*
	17	5.18	69.8	44' 5"	13.54	122,200*	55 428*	122,200*	55 428*	62,600*	28 394*	44,300*	20 094*	127,300*	57 742*	127,300*	57 742*	127,300*	57 742*	127,300*	57 742*	127,300*	57 742*
	18	5.49	68.2	44' 1"	13.43	116,500*	52 843*	116,500*	52 843*	57,900*	26 263*	41,100*	18 642*	121,200*	54 975*	121,200*	54 975*	121,200*	54 975*	121,200*	54 975*	121,200*	54 975*
	19	5.79	66.7	43' 8"	13.30	109,300*	49 577*	109,300*	49 577*	53,800*	24 403*	38,100*	17 281*	115,800*	52 526*	115,800*	52 526*	115,800*	52 526*	115,800*	52 526*	115,800*	52 526*
	20	6.10	65.1	43' 2"	13.16	103,000*	46 720*	103,000*	46 720*	50,200*	22 770*	35,500*	16 102*	110,700*	50 212*	110,700*	50 212*	110,700*	50 212*	110,700*	50 212*	110,700*	50 212*
	25	7.62	56.9	40' 5"	12.32	79,700*	36 151*	79,700*	36 151*	37,300*	16 918*	26,100*	11 838*	87,300*	39 598*	87,300*	39 598*	87,300*	39 598*	87,300*	39 598*	87,300*	39 598*
	30	9.14	47.9	36' 7"	11.14	62,800*	28 485*	62,800*	28 485*	29,400*	13 335*	20,300*	9 207*	70,900*	32 159*	70,900*	32 159*	70,900*	32 159*	70,900*	32 159*	70,900*	32 159*
35	10.67	37.3	31' 1"	9.49	49,600*	22 498*	49,600*	22 498*	24,000*	10 866*	16,400*	7 438*	58,600*	26 580*	58,600*	26 580*	58,600*	26 580*	58,600*	26 580*	58,600*	26 580*	
40	12.19	23.0	22' 6"	6.86	40,600*	18 415*	40,600*	18 415*	20,100*	9 117*	13,500*	6 123*	48,200*	21 863*	48,200*	21 863*	48,200*	21 863*	48,200*	21 863*	48,200*	21 863*	
50' (15.24 m)	12	3.66	79.8	55' 1"	17.10	150,000*	68 038*	150,000*	68 038*	78,300*	35 516*	59,400*	26 943*	150,000*	68 038*	150,000*	68 038*	150,000*	68 038*	150,000*	68 038*	150,000*	68 038*
	13	3.96	78.7	55' 11"	17.05	150,000*	68 038*	150,000*	68 038*	75,700*	34 336*	55,600*	25 219*	150,000*	68 038*	150,000*	68 038*	150,000*	68 038*	150,000*	68 038*	150,000*	68 038*
	14	4.27	77.5	55' 9"	16.98	143,200*	64 954*	143,200*	64 954*	73,400*	33 293*	52,300*	23 722*	149,100*	67 630*	149,100*	67 630*	149,100*	67 630*	149,100*	67 630*	149,100*	67 630*
	15	4.57	76.3	55' 6"	16.91	135,300*	61 371*	135,300*	61 371*	71,200*	32 295*	49,400*	22 407*	140,900*	63 911*	140,900*	63 911*	140,900*	63 911*	140,900*	63 911*	140,900*	63 911*
	16	4.88	75.1	55' 3"	16.83	128,400*	58 241*	128,400*	58 241*	68,300*	30 980*	46,700*	21 182*	133,700*	60 645*	133,700*	60 645*	133,700*	60 645*	133,700*	60 645*	133,700*	60 645*
	17	5.18	73.9	54' 11"	16.75	122,000*	55 338*	122,000*	55 338*	62,800*	28 485*	44,200*	20 048*	127,100*	57 651*	127,100*	57 651*	127,100*	57 651*	127,100*	57 651*	127,100*	57 651*
	18	5.49	72.7	54' 8"	16.66	116,300*	52 752*	116,300*	52 752*	58,100*	26 353*	41,300*	18 733*	121,000*	54 884*	121,000*	54 884*	121,000*	54 884*	121,000*	54 884*	121,000*	54 884*
	19	5.79	71.5	54' 4"	16.56	109,300*	49 577*	109,300*	49 577*	53,900*	24 448*	38,300*	17 372*	115,600*	52 435*	115,600*	52 435*	115,600*	52 435*	115,600*	52 435*	115,600*	52 435*
	20	6.10	70.3	54' 0"	16.45	103,000*	46 720*	103,000*	46 720*	50,300*	22 815*	35,600*	16 147*	110,600*	50 167*	110,600*	50 167*	110,600*	50 167*	110,600*	50 167*	110,600*	50 167*
	25	7.62	64.1	51' 11"	15.81	79,700*	36 151*	79,700*	36 151*	37,500*	17 009*	26,300*	11 929*	87,300*	39 598*	87,300*	39 598*	87,300*	39 598*	87,300*	39 598*	87,300*	39 598*
	30	9.14	57.5	49' 1"	14.96	63,100*	28 621*	63,100*	28 621*	29,600*	13 426*	20,500*	9 298*	70,900*	32 159*	70,900*	32 159*	70,900*	32 159*	70,900*	32 159*	70,900*	32 159*
35	10.67	50.5	45' 5"	13.86	49,800*	22 588*	49,800*	22 588*	24,200*	10 976*	16,600*	7 529*	58,900*	26 716*	58,900*	26 716*	58,900*	26 716*	58,900*	26 716*	58,900*	26 716*	
40	12.19	42.6	40' 9"	12.41	40,900*	18 551*	40,900*	18 551*	20,200*	9 162*	13,700*	6 214*	48,500*	21 999*	48,500*	21 999*	48,500*	21 999*	48,500*	21 999*	48,500*	21 999*	
50	15.24	20.5	24' 5"	7.44	29,700*	13 471*	29,700*	13 471*	14,900*	6 758*	9,800*	4 445*	35,400*	16 057*	35,400*	16 057*	35,400*	16 057*	35,400*	16 057*	35,400*	16 057*	
60' (18.29 m)	13	3.96	80.6	66' 1"	20.14	147,700*	66 995*	147,700*	66 995*	75,700*	34 336*	55,700*	25 265*	147,700*	66 995*	147,700*	66 995*	147,700*	66 995*	147,700*	66 995*	147,700*	66 995*
	14	4.27	79.6	65' 11"	20.09	143,100*	64 909*	143,100*	64 909*	73,300*	33 248*	52,300*	23 722*	144,800*	65 680*	144,800*	65 680*	144,800*	65 680*	144,800*	65 680*	144,800*	65 680*
	15	4.57	78.6	65' 9"	20.03	135,300*	61 371*	135,300*	61 371*	71,100*	32 250*	49,400*	22 407*	140,900*	63 911*	140,900*	63 911*	140,900*	63 911*	140,900*	63 911*	140,900*	63 911*
	16	4.88	77.7	65' 6"	19.97	128,300*	58 195*	128,300*	58 195*	68,400*	31 025*	46,700*	21 182*	133,700*	60 645*	133,700*	60 645*	133,700*	60 645*	133,700*	60 645*	133,700*	60 645*
	17	5.18	76.7	65' 3"	19.90	121,900*	55 292*	121,900*	55 292*	63,200*	28 667*	44,300*	20 094*	127,000*	57 606*	127,000*	57 606*	127,000*	57 606*	127,000*	57 606*	127,000*	57 606*
	18	5.49	75.7	65' 0"	19.82	116,200*	52 707*	116,200*	52 707*	58,400*	26 489*	41,700*	18 914*	121,000*	54 884*	121,000*	54 884*	121,000*	54 884*	121,000*	54 884*	121,000*	54 884*
	19	5.79	74.7	64' 9"	19.74	109,500*	49 668*	109,500*	49 668*	54,300*	24 630*	38,600*	17 508*	115,600*	52 435*	115,600*	52 435*	115,600*	52 435*	115,600*	52 435*	115,600*	52 435*
	20	6.10	73.7	64' 5"	19.66	103,200*	46 810*	103,200*	46 810*	50,600*	22 951*	36,000*	16 329*	110,500*	50 121*	110,500*	50 121*	110,500*	50 121*	110,500*	50 121*	110,500*	50 121*
	25	7.62	68.7	62' 9"	19.14	79,900*	36 242*	79,900*	36 242*	37,700*	17 100*	26,500*	12 020*	87,400*	39 643*	87,400*	39 643*	87,400*	39 643*	87,400*	39 643*	87,400*	39 643*
	30	9.14	63.4	60' 7"	18.46																		

HC-138A open throat boom					"A" upper & "A" bumper counterweights										"AB" upper & "A" bumper counterweights									
Length	Radius		Angle Degrees	Boom point height②		On outriggers				On tires (static)				On outriggers only										
	Feet	meters		Feet	meters	Over rear		Over side and 360° swing ③		Over rear		Over side		Over rear		Over side and 360° swing ③								
					Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms						
70' (21.34 m)	15	4.57	80.3	75' 11"	128,800	58,422	128,800	58,422	70,700	32,068	49,200	22,316	128,800	58,422	49,200	22,316	128,800	58,422						
	16	4.88	79.4	75' 9"	126,300	57,288	126,300	57,288	68,100	30,889	46,500	21,092	126,300	57,288	46,500	21,092	126,300	57,288						
	17	5.18	78.6	75' 6"	121,500	55,111	121,500	55,111	63,200	28,667	44,000	19,958	121,500	55,111	44,000	19,958	121,500	55,111						
	18	5.49	77.8	75' 4"	115,900	52,571	115,900	52,571	58,400	26,489	41,600	18,869	115,900	52,571	41,600	18,869	115,900	52,571						
	19	5.79	76.9	75' 1"	109,300	49,577	109,300	49,577	54,200	24,584	38,600	17,508	109,300	49,577	38,600	17,508	109,300	49,577						
	20	6.10	76.1	74' 10"	102,900	46,674	102,900	46,674	50,600	22,951	35,900	16,283	102,900	46,674	35,900	16,283	102,900	46,674						
	25	7.62	71.8	73' 5"	79,700	36,151	79,700	36,151	37,600	17,055	26,500	12,020	79,700	36,151	26,500	12,020	79,700	36,151						
	30	9.14	67.5	71' 7"	63,500	28,803	63,500	28,803	29,700	13,471	20,600	9,344	63,500	28,803	20,600	9,344	63,500	28,803						
	35	10.67	63.0	69' 3"	50,100	22,724	50,100	22,724	24,300	11,022	16,600	7,529	50,100	22,724	16,600	7,529	50,100	22,724						
	40	12.19	58.3	66' 5"	41,200	18,688	41,200	18,688	20,300	9,207	13,800	6,259	41,200	18,688	13,800	6,259	41,200	18,688						
80' (24.38 m)	50	15.24	48.0	58' 11"	30,000	13,607	30,000	13,607	15,100	6,849	9,900	4,490	30,000	13,607	9,900	4,490	30,000	13,607						
	60	18.29	35.7	47' 9"	23,200	10,523	23,200	10,523	11,600	5,261	7,400	3,356	23,200	10,523	7,400	3,356	23,200	10,523						
	70	21.34	17.3	27' 9"	18,600	8,436	18,600	8,436	9,200	4,173	5,600	2,540	18,600	8,436	5,600	2,540	18,600	8,436						
	16	4.88	80.8	85' 10"	114,600	51,981	114,600	51,981	67,800	30,753	46,200	20,955	114,600	51,981	46,200	20,955	114,600	51,981						
	17	5.18	80.0	85' 8"	112,600	51,074	112,600	51,074	63,100	28,621	43,700	19,821	112,600	51,074	43,700	19,821	112,600	51,074						
	18	5.49	79.3	85' 6"	110,400	50,076	110,400	50,076	58,300	26,444	41,500	18,824	110,400	50,076	41,500	18,824	110,400	50,076						
	19	5.79	78.6	85' 4"	108,400	49,169	108,400	49,169	54,100	24,539	38,500	17,463	108,400	49,169	38,500	17,463	108,400	49,169						
	20	6.10	77.9	85' 1"	102,700	46,583	102,700	46,583	50,500	22,906	35,800	16,238	102,700	46,583	35,800	16,238	102,700	46,583						
	25	7.62	74.2	83' 10"	79,400	36,015	79,400	36,015	37,500	17,009	26,400	11,974	79,400	36,015	26,400	11,974	79,400	36,015						
	30	9.14	70.4	82' 3"	63,500	28,803	63,500	28,803	29,600	13,426	20,500	9,298	63,500	28,803	20,500	9,298	63,500	28,803						
90' (27.43 m)	35	10.67	66.6	80' 4"	50,000	22,679	50,000	22,679	24,100	10,931	16,600	7,529	50,000	22,679	16,600	7,529	50,000	22,679						
	40	12.19	62.6	77' 11"	41,100	18,642	41,100	18,642	20,200	9,162	13,700	6,214	41,100	18,642	13,700	6,214	41,100	18,642						
	50	15.24	54.2	71' 9"	29,900	13,562	29,900	13,562	15,000	6,803	9,800	4,445	29,900	13,562	9,800	4,445	29,900	13,562						
	60	18.29	44.7	63' 2"	23,100	10,477	23,100	10,477	11,500	5,216	7,300	3,311	23,100	10,477	7,300	3,311	23,100	10,477						
	70	21.34	33.3	50' 10"	18,500	8,391	18,500	8,391	9,100	4,127	5,500	2,494	18,500	8,391	5,500	2,494	18,500	8,391						
	80	24.38	16.2	29' 2"	15,300	6,939	15,300	6,939	7,300	3,311	4,200	1,905	15,300	6,939	4,200	1,905	15,300	6,939						
	18	5.49	80.5	95' 8"	101,200	45,903	101,200	45,903	58,200	26,399	41,200	18,688	101,200	45,903	41,200	18,688	101,200	45,903						
	19	5.79	79.9	95' 6"	98,600	44,724	98,600	44,724	54,000	24,493	38,400	17,417	98,600	44,724	38,400	17,417	98,600	44,724						
	20	6.10	79.2	95' 4"	96,900	43,953	96,900	43,953	50,400	22,861	35,700	16,193	96,900	43,953	35,700	16,193	96,900	43,953						
	25	7.62	76.0	94' 3"	79,200	35,924	79,200	35,924	37,400	16,964	26,300	11,929	79,200	35,924	26,300	11,929	79,200	35,924						
100' (30.48 m)	30	9.14	72.7	92' 10"	63,400	28,757	63,400	28,757	29,500	13,380	20,400	9,253	63,400	28,757	20,400	9,253	63,400	28,757						
	35	10.67	69.3	91' 1"	50,100	22,724	50,100	22,724	24,000	10,886	16,500	7,484	50,100	22,724	16,500	7,484	50,100	22,724						
	40	12.19	65.8	89' 0"	41,000	18,597	41,000	18,597	20,100	9,117	13,600	6,168	41,000	18,597	13,600	6,168	41,000	18,597						
	50	15.24	58.6	83' 9"	29,800	13,517	29,800	13,517	14,800	6,717	9,700	4,399	29,800	13,517	9,700	4,399	29,800	13,517						
	60	18.29	50.8	76' 8"	23,000	10,432	23,000	10,432	11,400	5,170	7,200	3,265	23,000	10,432	7,200	3,265	23,000	10,432						
	70	21.34	42.0	67' 2"	18,400	8,346	18,400	8,346	9,000	4,082	5,400	2,449	18,400	8,346	5,400	2,449	18,400	8,346						
	80	24.38	31.4	53' 9"	15,200	6,894	15,200	6,894	7,200	3,265	4,100	1,859	15,200	6,894	4,100	1,859	15,200	6,894						
	90	27.43	15.2	30' 7"	12,700	5,760	12,700	5,760	5,800	2,630	3,100	1,406	12,700	5,760	3,100	1,406	12,700	5,760						
	19	5.79	80.9	105' 8"	90,400	41,004	90,400	41,004	53,900	24,448	38,300	17,372	90,400	41,004	38,300	17,372	90,400	41,004						
	20	6.10	80.3	105' 6"	89,000	40,369	89,000	40,369	50,200	22,770	35,600	16,147	89,000	40,369	35,600	16,147	89,000	40,369						
25	7.62	77.4	104' 6"	78,900	35,788	78,900	35,788	37,200	16,873	26,100	11,838	78,900	35,788	26,100	11,838	78,900	35,788							
30	9.14	74.4	103' 3"	63,300	28,712	63,300	28,712	29,300	13,290	20,200	9,162	63,300	28,712	20,200	9,162	63,300	28,712							
35	10.67	71.4	101' 8"	50,900	22,679	50,900	22,679	24,000	10,886	16,500	7,484	50,900	22,679	16,500	7,484	50,900	22,679							
40	12.19	68.4	99' 10"	40,900	18,551	40,900	18,551	19,900	9,026	13,400	6,078	40,900	18,551	13,400	6,078	40,900	18,551							
50	15.24	62.1	95' 3"	29,700	13,471	29,700	13,471	14,700	6,667	9,600	4,309	29,700	13,471	9,600	4,309	29,700	13,471							
60	18.29	55.4	89' 2"	22,900	10,387	22,900	10,387	11,200	5,080	7,000	3,175	22,900	10,387	7,000	3,175	22,900	10,387							
70	21.34	48.1	81' 3"	18,300	8,300	18,300	8,300	8,800	3,991	4,000	2,404	18,300	8,300	4,000	2,404	18,300	8,300							
80	24.38	39.8	70' 11"	15,100	6,849	15,100	6,849	7,100	3,220	3,000	1,814	15,100	6,849	3,000	1,814	15,100	6,849							
90	27.43	29.7	56' 6"	12,600	5,715	12,600	5,715	5,700	2,585	3,000	1,360	12,600	5,715	3,000	1,360	12,600	5,715							
100	30.48	14.5	31' 10"	10,700	4,853	10,700	4,853	4,600	2,086	2,100	952	10,700	4,853	2,100	952	10,700	4,853							

HC-138A open throat boom

HC-138A open throat boom						"A" upper & "A" bumper counterweights										"AB" upper & "A" bumper counterweights									
Length	Radius		Angle Degrees	Boom point height ③		On outriggers				On tires (static)				On outriggers only				On outriggers only							
	Feet	meters		Feet	meters	Pounds	kilograms	Over rear	Over side and 360° swing ②	Pounds	kilograms	Over rear	Over side	Pounds	kilograms	Over rear	Over side	Pounds	kilograms	Over rear	Over side and 360° swing ①				
110' (33.53 m)	25	7.62	78.6	114' 9"	34.96	75,300*	34,155*	70,000	31,751	37,100	16,828	26,000	11,793	75,300*	34,155*	75,300*	34,155*	75,300*	34,155*	75,300*	34,155*				
	30	9.14	75.9	113' 7"	34.62	63,200	28,667	51,600	23,405	29,100	13,199	20,100	9,117	69,400*	31,479*	69,400*	31,479*	69,400*	31,479*	69,400*	31,479*				
	35	10.67	73.2	112' 2"	34.20	49,800	22,588	40,500	18,370	23,700	10,750	16,200	7,348	58,000*	26,308*	58,000*	26,308*	58,000*	26,308*	58,000*	26,308*				
	40	12.19	70.4	110' 7"	33.70	40,800	18,506	33,100	15,013	19,700	8,935	13,300	6,032	48,400	21,953	48,400	21,953	48,400	21,953	48,400	21,953				
	50	15.24	64.8	108' 5"	32.44	29,600	13,426	23,700	10,750	14,500	6,577	9,400	4,263	35,100	15,921	35,100	15,921	35,100	15,921	35,100	15,921				
	60	18.29	58.9	101' 1"	30.81	22,700	10,296	18,000	8,164	11,100	5,034	6,900	3,129	27,300	12,383	27,300	12,383	27,300	12,383	27,300	12,383				
	70	21.34	52.6	94' 3"	28.73	18,200	8,255	14,300	6,486	8,700	3,946	5,100	2,313	22,000	9,979	22,000	9,979	22,000	9,979	22,000	9,979				
	80	24.38	45.7	85' 7"	26.70	15,000	6,803	11,800	5,261	6,900	3,129	3,800	1,723	18,100	8,210	18,100	8,210	18,100	8,210	18,100	8,210				
	90	27.43	37.9	74' 5"	22.69	12,500	5,669	9,600	4,354	5,500	2,494	2,800	1,270	15,400	6,985	15,400	6,985	15,400	6,985	15,400	6,985				
	100	30.48	28.3	59' 1"	18.01	10,600	4,808	8,000	3,628	4,500	2,041	2,000	907	13,100	5,942	13,100	5,942	13,100	5,942	13,100	5,942				
120' (36.58 m)	25	7.62	79.5	124' 11"	38.07	69,200*	31,388*	69,200*	31,388*	36,900	16,737	25,800	11,702	69,200*	31,388*	69,200*	31,388*	69,200*	31,388*	69,200*	31,388*				
	30	9.14	77.1	123' 10"	37.75	63,100	28,621	51,500	23,360	29,000	13,154	19,900	9,026	63,600*	28,485*	63,600*	28,485*	63,600*	28,485*	63,600*	28,485*				
	35	10.67	74.6	122' 7"	37.37	49,700	22,543	40,400	18,325	23,500	10,659	16,000	7,257	57,000*	25,854*	57,000*	25,854*	57,000*	25,854*	57,000*	25,854*				
	40	12.19	72.1	121' 1"	36.91	40,700	18,461	33,000	14,968	19,500	8,845	13,100	5,942	48,200	21,863	48,200	21,863	48,200	21,863	48,200	21,863				
	50	15.24	67.0	117' 5"	35.78	29,400	13,335	23,500	10,659	14,300	6,486	9,200	4,173	35,000	15,875	35,000	15,875	35,000	15,875	35,000	15,875				
	60	18.29	61.7	112' 7"	34.32	22,600	10,251	17,900	8,119	10,900	4,944	6,700	3,039	27,100	12,292	27,100	12,292	27,100	12,292	27,100	12,292				
	70	21.34	56.2	106' 7"	32.48	18,000	8,164	14,200	6,441	8,500	3,855	4,900	2,222	21,800	9,888	21,800	9,888	21,800	9,888	21,800	9,888				
	80	24.38	50.2	99' 1"	30.20	14,800	6,713	11,500	5,216	6,700	3,035	2,600	1,179	18,000	8,164	18,000	8,164	18,000	8,164	18,000	8,164				
	90	27.43	43.6	89' 9"	27.35	12,300	5,579	9,400	4,263	5,400	2,449	2,600	1,179	15,200	6,894	15,200	6,894	15,200	6,894	15,200	6,894				
	100	30.48	36.2	77' 9"	23.71	10,400	4,717	7,800	3,538	4,300	1,950	—	—	13,000	5,896	13,000	5,896	13,000	5,896	13,000	5,896				
130' (39.62 m)	25	7.62	80.3	135' 1"	41.16	62,700*	28,440*	62,700*	28,440*	36,700	16,646	25,600	11,611	62,700*	28,440*	62,700*	28,440*	62,700*	28,440*	62,700*	28,440*				
	30	9.14	78.1	134' 1"	40.87	58,500*	26,535*	51,400	23,314	28,800	13,063	19,700	8,935	58,500*	26,535*	58,500*	26,535*	58,500*	26,535*	58,500*	26,535*				
	35	10.67	75.8	132' 11"	40.52	49,600	22,498	40,200	18,234	23,300	10,568	15,800	7,166	52,600*	23,858*	52,600*	23,858*	52,600*	23,858*	52,600*	23,858*				
	40	12.19	73.5	131' 7"	40.10	40,500	18,370	32,800	14,877	19,300	8,754	12,900	5,851	46,500*	21,092*	46,500*	21,092*	46,500*	21,092*	46,500*	21,092*				
	50	15.24	68.9	128' 2"	39.07	29,300	13,290	23,400	10,614	14,100	6,395	9,000	4,082	34,800	15,785	34,800	15,785	34,800	15,785	34,800	15,785				
	60	18.29	64.1	123' 10"	37.74	22,400	10,160	17,700	8,028	10,700	4,853	6,500	2,948	27,000	12,246	27,000	12,246	27,000	12,246	27,000	12,246				
	70	21.34	59.1	118' 5"	36.09	17,800	8,073	14,000	6,350	8,300	3,764	4,700	2,131	21,600	9,797	21,600	9,797	21,600	9,797	21,600	9,797				
	80	24.38	53.8	111' 9"	34.07	14,600	6,622	11,300	5,125	6,500	2,948	2,400	1,088	15,000	6,803	15,000	6,803	15,000	6,803	15,000	6,803				
	90	27.43	48.1	103' 8"	31.59	12,200	5,533	9,200	4,173	4,100	1,859	—	—	12,800	5,805	12,800	5,805	12,800	5,805	12,800	5,805				
	100	30.48	41.9	93' 8"	28.54	10,300	4,672	7,600	3,447	3,200	1,451	—	—	11,000	4,989	11,000	4,989	11,000	4,989	11,000	4,989				
140' (42.67 m)	25	7.62	80.3	135' 1"	41.16	62,700*	28,440*	62,700*	28,440*	36,700	16,646	25,600	11,611	62,700*	28,440*	62,700*	28,440*	62,700*	28,440*	62,700*	28,440*				
	30	9.14	78.1	134' 1"	40.87	58,500*	26,535*	51,400	23,314	28,800	13,063	19,700	8,935	58,500*	26,535*	58,500*	26,535*	58,500*	26,535*	58,500*	26,535*				
	35	10.67	75.8	132' 11"	40.52	49,600	22,498	40,200	18,234	23,300	10,568	15,800	7,166	52,600*	23,858*	52,600*	23,858*	52,600*	23,858*	52,600*	23,858*				
	40	12.19	73.5	131' 7"	40.10	40,500	18,370	32,800	14,877	19,300	8,754	12,900	5,851	46,500*	21,092*	46,500*	21,092*	46,500*	21,092*	46,500*	21,092*				
	50	15.24	68.9	128' 2"	39.07	29,300	13,290	23,400	10,614	14,100	6,395	9,000	4,082	34,800	15,785	34,800	15,785	34,800	15,785	34,800	15,785				
	60	18.29	64.1	123' 10"	37.74	22,400	10,160	17,700	8,028	10,700	4,853	6,500	2,948	27,000	12,246	27,000	12,246	27,000	12,246	27,000	12,246				
	70	21.34	59.1	118' 5"	36.09	17,800	8,073	14,000	6,350	8,300	3,764	4,700	2,131	21,600	9,797	21,600	9,797	21,600	9,797	21,600	9,797				
	80	24.38	53.8	111' 9"	34.07	14,600	6,622	11,300	5,125	6,500	2,948	2,400	1,088	15,000	6,803	15,000	6,803	15,000	6,803	15,000	6,803				
	90	27.43	48.1	103' 8"	31.59	12,200	5,533	9,200	4,173	4,100	1,859	—	—	12,800	5,805	12,800	5,805	12,800	5,805	12,800	5,805				
	100	30.48	41.9	93' 8"	28.54	10,300	4,672	7,600	3,447	3,200	1,451	—	—	11,000	4,989	11,000	4,989	11,000	4,989	11,000	4,989				
150' (45.72 m)	25	7.62	80.3	135' 1"	41.16	62,700*	28,440*	62,700*	28,440*	36,700	16,646	25,600	11,611	62,700*	28,440*	62,700*	28,440*	62,700*	28,440*	62,700*	28,440*				
	30	9.14	78.1	134' 1"	40.87	58,500*	26,535*	51,400	23,314	28,800	13,063	19,700	8,935	58,500*	26,535*	58,500*	26,535*	58,500*	26,535*	58,500*	26,535*				
	35	10.67	75.8	132' 11"	40.52	49,600	22,498	40,200	18,234	23,300	10,568	15,800	7,166	52,600*	23,858*	52,600*	23,858*	52,600*	23,858*	52,600*	23,858*				
	40	12.19	73.5	131' 7"	40.10	40,500	18,370	32,800	14,877	19,300	8,754	12,900	5,851	46,500*	21,092*	46,500*	21,092*	46,500*	21,092*	46,500*	21,092*				
	50	15.24	68.9	128' 2"	39.07	29,300	13,290	23,400	10,614	14,100	6,395	9,000	4,082	34,800	15,785	34,800	15,785	34,800	15,785	34,800	15,785				
	60	18.29	64.1	123' 10"	37.74	22,400	10,160																		

HC-138A open throat boom					"A" upper & "A" bumper ① counterweights						"AB" upper & "A" bumper counterweights							
Length	Radius		Angle Degrees	Boom point height ①		On outriggers			On tires (static)			On outriggers only						
	Feet	meters		Feet	meters	Over rear		Over side and 360° swing ②		Over rear		Over side		Over rear		Over side and 360° swing ③		
					Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms
150' (45.72 m)	90	27.43	54.6	129' 3"	39.38	11,800	5,352	8,800	3,991									
	100	30.48	49.8	121' 5"	37.02	9,900	4,490	7,200	3,265									
	110	33.53	44.6	112' 2"	34.20	8,300	3,764	6,000	2,721									
	120	36.58	38.8	101' 0"	30.78	7,000	3,175	4,900	2,222									
	130	39.62	32.3	87' 0"	26.51	6,000	2,721	4,000	1,814									
	140	42.67	24.2	68' 4"	20.83	5,100	2,313	3,300	1,496									
	150	45.72	11.8	37' 7"	11.45	4,300	1,950	2,600	1,179									
160' (48.77 m)	30	9.14	80.3	164' 8"	50.18	43,800	19,867	43,800	19,867									
	35	10.67	78.5	163' 8"	49.90	40,700	18,461	39,800	18,052									
	40	12.19	76.7	162' 7"	49.56	36,900	16,737	32,400	14,696									
	50	15.24	73.0	159' 11"	48.74	28,700	13,018	22,900	10,387									
	60	18.29	69.2	156' 6"	47.69	21,800	9,888	17,100	7,756									
	70	21.34	65.3	152' 3"	46.41	17,200	7,801	13,500	6,123									
	80	24.38	61.3	147' 3"	44.88	14,100	6,395	10,700	4,853									
170' (51.82 m)	90	27.43	57.1	141' 3"	43.06	11,600	5,251	8,700	3,946									
	100	30.48	52.8	134' 3"	40.93	9,700	4,399	7,100	3,220									
	110	33.53	48.1	126' 0"	38.41	8,100	3,674	5,800	2,630									
	120	36.58	43.1	116' 3"	35.42	6,900	3,129	4,700	2,131									
	130	39.62	37.6	104' 5"	31.83	5,800	2,630	3,800	1,723									
	140	42.67	31.2	89' 10"	27.38	4,900	2,222	3,100	1,406									
	150	45.72	23.4	70' 6"	21.48	4,100	1,859	2,400	1,088									
180' (54.86 m)	30	9.14	80.9	174' 9"	53.27	39,400	17,871	39,400	17,871									
	35	10.67	79.2	173' 11"	53.00	36,300	16,465	36,300	16,465									
	40	12.19	77.5	172' 10"	52.69	32,100	14,560	32,100	14,560									
	50	15.24	74.0	170' 4"	51.91	27,100	12,292	27,000	10,296									
	60	18.29	70.5	167' 1"	50.94	21,700	9,842	17,000	7,711									
	70	21.34	66.9	163' 3"	49.75	17,000	7,711	13,300	6,032									
	80	24.38	63.1	158' 7"	48.32	13,900	6,304	10,500	4,762									
190' (54.86 m)	90	27.43	59.3	153' 1"	46.65	11,400	5,170	8,500	3,855									
	100	30.48	55.3	146' 8"	44.69	9,500	4,309	6,900	3,129									
	110	33.53	51.1	139' 2"	42.41	7,900	3,583	5,600	2,540									
	120	36.58	46.6	130' 5"	39.74	6,700	3,039	4,500	2,041									
	130	39.62	41.7	120' 1"	36.61	5,600	2,540	3,600	1,632									
	140	42.67	36.4	107' 9"	32.85	4,700	2,131	2,900	1,315									
	150	45.72	30.3	92' 7"	28.22	3,900	1,769	2,300	1,043									
200' (60.96 m)	160	48.77	22.7	72' 6"	22.10	3,300	1,496	2,300	1,043									
	170	51.82	11.1	39' 7"	12.06	2,700	1,224	2,300	1,043									
	35	10.67	79.8	184' 1"	56.10	31,000	14,061	31,000	14,061									
	40	12.19	78.2	183' 1"	55.81	28,600	12,972	28,600	12,972									
	50	15.24	74.9	180' 8"	55.08	23,700	10,750	22,500	10,205									
	60	18.29	71.6	177' 8"	54.16	20,000	9,071	16,800	7,620									
	70	21.34	68.2	174' 0"	53.05	15,900	7,212	13,100	5,942									
210' (64.01 m)	80	24.38	64.7	169' 8"	51.72	13,700	6,214	10,300	4,672									
	90	27.43	61.2	164' 7"	50.16	11,200	5,080	8,300	3,764									
	100	30.48	57.5	158' 8"	48.35	9,300	4,218	6,700	3,039									
	110	33.53	53.6	151' 9"	46.26	7,700	3,492	5,400	2,449									
	120	36.58	49.5	143' 10"	43.84	6,500	2,948	4,300	1,950									
	130	39.62	45.2	134' 7"	41.03	5,400	2,449	3,400	1,542									
	140	42.67	40.5	123' 10"	37.75	4,500	2,041	2,700	1,224									
220' (67.06 m)	150	45.72	35.3	111' 0"	33.84	3,700	1,678	2,000	907									
	160	48.77	29.4	95' 3"	29.03	3,100	1,406	2,500	1,133									
	170	51.82	22.1	74' 6"	22.70	2,500	1,133	2,500	1,133									
	180	54.86	10.8	40' 6"	12.35	2,000	907	2,000	907									

Not applicable

(continued)

HC-138A open throat boom					"A" upper & "A" bumper counterweights						"AB" upper & "A" bumper counterweights								
Length	Radius		Angle	Boom point height ③		On outriggers				On tires (static)				On outriggers only					
	Feet	meters		Degrees	Feet	meters	Over rear		Over side and 360° swing ①		Over rear		Over side		Over rear		Over side and 360° swing ①		
						Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms
190' (57.91 m)	35	10.67	194' 3"	80.4	59.20	27,700*	12,564*	27,700*	12,564*							27,700*	12,564*	27,700*	12,564*
	40	12.19	193' 4"	78.8	58.92	25,300*	11,475*	25,300*	11,475*							25,300*	11,475*	25,300*	11,475*
	50	15.24	191' 0"	75.7	58.23	21,200*	9,616*	21,200*	9,616*							21,200*	9,616*	21,200*	9,616*
	60	18.29	188' 2"	72.6	57.36	17,800*	8,073*	16,600	7,529							17,800*	8,073*	17,800*	8,073*
	70	21.34	184' 9"	69.4	56.31	14,100*	6,395*	12,900	5,851							14,100*	6,395*	14,100*	6,395*
	80	24.38	180' 8"	66.1	55.07	12,100*	5,488*	10,100	4,581							12,100*	5,488*	12,100*	5,488*
	90	27.43	175' 11"	62.8	53.61	10,400*	4,717*	8,100	3,674							10,400*	4,717*	10,400*	4,717*
	100	30.48	170' 4"	59.4	51.93	8,900*	4,036*	6,500	2,948							8,900*	4,036*	8,900*	4,036*
	110	33.53	164' 0"	55.8	49.99	7,500	3,401	5,200	2,358							7,500	3,401	7,500	3,401
	120	36.58	156' 9"	52.1	47.77	6,300	2,857	4,100	1,859							6,300	2,857	6,300	2,857
200' (60.96 m)	35	10.67	204' 4"	80.8	62.29	24,800*	11,249*	24,800*	11,249*							24,800*	11,249*	24,800*	11,249*
	40	12.19	203' 6"	79.4	62.02	22,700*	10,296*	22,700*	10,296*							22,700*	10,296*	22,700*	10,296*
	50	15.24	201' 4"	76.5	61.37	18,900*	8,572*	18,900*	8,572*							18,900*	8,572*	18,900*	8,572*
	60	18.29	198' 8"	73.5	60.55	14,800*	6,713*	14,800*	6,713*							14,800*	6,713*	14,800*	6,713*
	70	21.34	195' 5"	70.5	59.56	12,500*	5,669*	12,500*	5,669*							12,500*	5,669*	12,500*	5,669*
	80	24.38	191' 7"	67.4	58.39	10,700*	4,853*	10,000	4,535							10,700*	4,853*	10,700*	4,853*
	90	27.43	187' 1"	64.3	57.02	9,200*	4,173*	7,900	3,583							9,200*	4,173*	9,200*	4,173*
	100	30.48	181' 11"	61.0	55.44	7,900*	3,583*	6,300	2,857							7,900*	3,583*	7,900*	3,583*
	110	33.53	176' 0"	57.7	53.64	6,900*	3,129*	5,000	2,267							6,900*	3,129*	6,900*	3,129*
	120	36.58	169' 3"	54.3	51.58	6,000*	2,721*	3,900	1,769							6,000*	2,721*	6,000*	2,721*
200' (60.96 m)	130	39.62	161' 6"	50.6	49.24	5,000	2,267	3,000	1,360							5,300*	2,404*	4,900	2,222
	140	42.67	152' 9"	46.8	46.56	4,100	1,859	2,600	1,199							4,700*	2,131*	4,000	1,814
	150	45.72	142' 8"	42.8	43.49	3,300	1,496	2,300	1,043							4,200*	1,905*	3,300	1,496
	160	48.77	131' 0"	38.4	39.93	2,600	1,179	2,000	907							3,700*	1,678*	2,600	1,179
	170	51.82	117' 2"	33.5	35.72	2,100	952	—	—							3,400*	1,542*	2,000	907
	180	54.86	100' 4"	27.9	30.58	—	—	—	—							2,900	1,315	—	—
	190	57.91	78' 3"	20.9	23.86	—	—	—	—							2,400	1,088	—	—
	200	60.96	—	—	—	—	—	—	—							—	—	—	—
	210	63.99	—	—	—	—	—	—	—							—	—	—	—
	220	67.02	—	—	—	—	—	—	—							—	—	—	—

① Applicable only to machines with booms 40' (12.19 m) through 200' (60.96 m) long — without jib. "AB" upper and "A" bumper counterweights are required for booms 40' (12.19 m) long through 190' (57.91 m) long — with jib. Jib operation is not permitted on boom when machine is equipped with "A" upper and "A" bumper counterweights.

② Measured vertically from center of boom head sheave to ground with machine standing on tires.

③ Capacities for 360° swing applicable only when front center jack and front and rear outriggers are set in proper working position.

Notes — lifting crane capacities; tubular boom with open throat top section.

- 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.
- 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 jib, hook block, ball/hook, sling, spreader bar, or other suspended gear.
- Boom lengths exceeding 140' (42.67 m) — boom midpoint suspension pendants required.
- Main boom lengths must not exceed 200' (60.96 m).
- For lifting 150,000 lbs. (68,038 kg), minimum 9-part load hoist line (3/4" — 19 mm — diameter, Type "N" wire rope) is required. Check parts of line required for all capacities.
- Jib cannot be used on boom lengths less than 40' (12.19 m) or longer than 190' (57.91 m).
- Refer to charts page 1 when rigging machine with boom and boom plus jib.
- Machine equipped with "AB" upper counterweight — do not swing over side until outriggers have been set.
- Telescopic boom live mast, pinned in extended 23' (7.01 m) position, required for all open throat boom capacities.
- Least stable position is over side.
- When handling loads on main load hoist line with jib mounted on boom, reduce rated boom capacities as follows to compensate for jib weights —
 - 20' (6.10 m) jib — 1,600 lbs. (725 kg)
 - 30' (9.14 m) jib — 1,900 lbs. (862 kg)
 - 40' (12.19 m) jib — 2,200 lbs. (998 kg)
 - 50' (15.24 m) jib — 2,500 lbs. (1,134 kg)
- When making lifts on outriggers, machine must be level and supported on fully extended and set outriggers with tires free of supporting surface.
- Capacities apply only to the machine as originally manufactured and normally equipped by FMC Corporation, Cable Crane and Excavator Division.

Link-Belt® HC-138A jib capacities — open throat boom (U.S. units)

Refer to Notes page 11.

Boom — tubular: 54" wide, 44" deep with open throat top section, 1 1/4" diameter boom pendants, boom live mast, and boom midpoint suspension pendants as required.

Jib — tubular: 30" wide, 24" deep.

Counterweights — Upper counterweight "AB" — 30,000 lbs. plus bumper counterweight "A" — 1,500 lbs.

Mounting — rubber tire mobile base: FMC, 8 x 4 drive, 260" wheelbase, 11" 0" wide.

Boom length Feet	Load radius Feet	Capacities on outriggers — over side and 360° swing											
		20' jib				30' jib				40' jib			
		Jib angles to boom (jib offset degrees)				Jib angles to boom (jib offset degrees)				Jib angles to boom (jib offset degrees)			
		0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
		Pounds				Pounds				Pounds			
40	14	19,900*											
	15	19,700*											
	16	19,400*											
	17	19,100*											
	18	18,900*											
	19	18,600*											
	20	18,400*											
	25	17,100*	15,900*	12,600*	11,800*	12,600*	9,900*	11,900*	9,200*	7,500*	7,900*	5,800*	
	30	15,800*	14,700*	11,800*	10,800*	11,800*	9,300*	11,700*	9,200*	7,500*	7,400*	5,600*	
	35	14,700*	12,700*	10,800*	10,200*	10,900*	8,700*	10,200*	8,600*	6,400*	6,100*	5,100*	4,600*
50	40	13,600*	11,700*	10,200*		9,900*	7,600*	9,700*	7,500*	5,500*	5,300*	4,300*	3,400*
	50	11,300*	10,100*			8,600*		8,600*	7,400*		4,500*		
	60	9,600*				7,000*		5,900*			3,800*		
	70												
	80												
	16	19,900*											
	17	19,600*											
	18	19,400*											
	19	19,200*											
	20	19,000*											
60	25	17,900*	15,200*	12,900*		12,900*	9,600*	11,900*	9,400*	7,700*	7,600*	5,900*	4,700*
	30	16,700*	14,300*	12,200*		12,200*	9,000*	11,000*	9,000*	7,000*	6,800*	5,300*	4,200*
	35	15,700*	13,500*	11,500*		11,400*	8,300*	10,600*	8,000*	6,000*	5,800*	4,300*	3,700*
	40	14,700*	12,600*	10,700*		10,600*	7,900*	10,100*	7,000*	5,200*	5,000*	3,800*	3,200*
	50	12,800*	10,900*	9,800*		9,300*	7,300*	9,200*	7,000*				
	60	10,800*	9,400*			8,200*		8,200*	5,900*				
	70	9,500*	7,900*			5,800*							
	80												
	90												
	18	19,800*	15,800*	12,500*		12,500*	9,800*	11,600*	9,600*	7,900*	7,800*	5,900*	4,800*
70	19	19,600*	14,800*	11,900*		11,800*	9,300*	11,200*	9,200*	7,100*	7,100*	5,800*	4,400*
	20	19,400*	14,500*	11,500*		11,100*	8,300*	10,800*	8,400*	6,100*	6,000*	5,400*	4,000*
	25	18,500*	13,300*	10,200*		9,800*	7,600*	10,400*	7,500*	5,000*	4,700*	3,600*	3,500*
	30	16,500*	11,800*	9,600*		8,800*	7,000*	9,700*	6,500*	4,100*	3,600*	3,000*	
	35	16,500*	11,800*	9,600*		8,800*	7,000*	9,700*	6,500*	4,100*	3,600*	3,000*	
	40	15,600*	10,400*			7,100*		6,700*	5,000*				
	50	13,900*											
	60	12,200*											
	70	10,400*											
	80												
80	90												
	100												
	20	19,800*	15,800*	12,800*		12,800*	9,900*	11,800*	9,800*	7,900*	7,900*	5,400*	4,900*
	25	18,900*	15,200*	12,200*		12,200*	9,500*	11,400*	9,400*	7,300*	7,300*	5,200*	4,500*
	30	18,100*	14,500*	11,600*		11,500*	8,700*	11,100*	8,700*	6,900*	6,800*	4,800*	4,100*
	35	17,200*	13,700*	10,400*		10,300*	7,900*	10,700*	8,700*	6,500*	6,300*	4,500*	
	40	16,300*	12,500*	9,900*		9,300*	7,400*	10,000*	7,900*	5,800*	5,600*	4,000*	
	50	14,300*	11,200*			8,400*		9,200*	7,000*	5,000*	4,800*	3,400*	
	60	13,300*	10,200*			7,400*		8,400*	6,200*	4,200*	4,000*	3,000*	
	70	11,800*	10,200*			8,300*		8,400*	7,000*	5,800*	5,400*	4,800*	

(continued)

IC-138A jib capacities — open throat boom (U.S. Units)

Refer to Notes page 11.

boom length Feet	Load radius Feet	Jib angles — boom (jib offset degrees)												40' jib			50' jib								
		0°						15°						30°			0°			15°			30°		
		Pounds						Pounds						Pounds			Pounds			Pounds			Pounds		
70	80	10,300*	9,500*	12,500*	8,700*	7,600*	7,500*	6,500*	5,600*	5,300*	5,000*	4,400*	3,700*	5,000*	4,400*	3,700*	5,000*	4,400*	3,700*						
	90	18,500*	15,500*	12,500*	15,200*	12,400*	11,800*	11,600*	11,300*	9,900*	9,600*	8,900*	7,700*	7,400*	5,900*	5,600*	4,900*	4,600*	3,900*						
	100	17,700*	14,900*	12,000*	14,600*	11,900*	10,900*	10,300*	9,600*	8,800*	8,100*	7,600*	7,100*	6,200*	5,500*	5,200*	4,900*	4,600*	3,900*						
	110	16,900*	14,300*	10,900*	14,100*	10,700*	10,300*	9,900*	9,700*	8,900*	8,100*	7,600*	7,100*	6,200*	5,500*	5,200*	4,900*	4,600*	3,900*						
80	25	19,300*	15,500*	12,500*	15,700*	12,900*	11,900*	11,800*	11,300*	9,900*	9,700*	9,900*	9,600*	8,900*	7,700*	7,400*	5,900*	5,600*	4,900*						
	30	18,500*	14,900*	12,000*	15,200*	12,400*	11,900*	11,600*	11,300*	9,900*	9,700*	9,900*	9,600*	8,900*	7,700*	7,400*	5,900*	5,600*	4,900*						
	35	17,700*	14,300*	10,900*	14,600*	11,900*	10,900*	10,300*	9,600*	8,800*	8,100*	7,600*	7,100*	6,200*	5,500*	5,200*	4,900*	4,600*	3,900*						
	40	16,900*	13,700*	10,000*	14,100*	10,700*	10,300*	9,900*	9,700*	8,900*	8,100*	7,600*	7,100*	6,200*	5,500*	5,200*	4,900*	4,600*	3,900*						
90	25	19,600*	15,700*	12,700*	15,900*	12,600*	11,700*	11,700*	11,400*	9,800*	9,700*	9,900*	9,600*	8,900*	7,700*	7,400*	5,900*	5,600*	4,900*						
	30	18,900*	15,100*	12,200*	15,400*	12,100*	11,400*	11,400*	11,100*	9,100*	9,100*	9,900*	9,600*	8,900*	7,700*	7,400*	5,900*	5,600*	4,900*						
	35	18,200*	14,600*	11,300*	14,900*	11,100*	10,500*	10,500*	10,200*	8,400*	8,400*	9,900*	9,600*	8,900*	7,700*	7,400*	5,900*	5,600*	4,900*						
	40	17,500*	14,000*	10,400*	14,400*	10,100*	9,300*	9,300*	9,000*	7,800*	7,800*	9,900*	9,600*	8,900*	7,700*	7,400*	5,900*	5,600*	4,900*						
100	25	19,900*	15,900*	12,800*	16,100*	12,800*	11,800*	11,800*	11,500*	9,800*	9,700*	9,900*	9,600*	8,900*	7,700*	7,400*	5,900*	5,600*	4,900*						
	30	19,200*	15,400*	12,400*	15,600*	12,400*	11,600*	11,600*	11,300*	9,300*	9,300*	9,900*	9,600*	8,900*	7,700*	7,400*	5,900*	5,600*	4,900*						
	35	18,600*	14,900*	12,000*	15,100*	12,000*	11,300*	11,300*	11,000*	9,000*	9,000*	9,900*	9,600*	8,900*	7,700*	7,400*	5,900*	5,600*	4,900*						
	40	17,900*	14,400*	11,600*	14,700*	11,400*	10,700*	10,700*	10,400*	8,700*	8,700*	9,900*	9,600*	8,900*	7,700*	7,400*	5,900*	5,600*	4,900*						
110	25	19,900*	15,900*	12,800*	16,100*	12,800*	11,800*	11,800*	11,500*	9,800*	9,700*	9,900*	9,600*	8,900*	7,700*	7,400*	5,900*	5,600*	4,900*						
	30	19,200*	15,400*	12,400*	15,600*	12,400*	11,600*	11,600*	11,300*	9,300*	9,300*	9,900*	9,600*	8,900*	7,700*	7,400*	5,900*	5,600*	4,900*						
	35	18,600*	14,900*	12,000*	15,100*	12,000*	11,300*	11,300*	11,000*	9,000*	9,000*	9,900*	9,600*	8,900*	7,700*	7,400*	5,900*	5,600*	4,900*						
	40	17,900*	14,400*	11,600*	14,700*	11,400*	10,700*	10,700*	10,400*	8,700*	8,700*	9,900*	9,600*	8,900*	7,700*	7,400*	5,900*	5,600*	4,900*						
120	25	19,900*	15,900*	12,800*	16,100*	12,800*	11,800*	11,800*	11,500*	9,800*	9,700*	9,900*	9,600*	8,900*	7,700*	7,400*	5,900*	5,600*	4,900*						
	30	19,200*	15,400*	12,400*	15,600*	12,400*	11,600*	11,600*	11,300*	9,300*	9,300*	9,900*	9,600*	8,900*	7,700*	7,400*	5,900*	5,600*	4,900*						
	35	18,600*	14,900*	12,000*	15,100*	12,000*	11,300*	11,300*	11,000*	9,000*	9,000*	9,900*	9,600*	8,900*	7,700*	7,400*	5,900*	5,600*	4,900*						
	40	17,900*	14,400*	11,600*	14,700*	11,400*	10,700*	10,700*	10,400*	8,700*	8,700*	9,900*	9,600*	8,900*	7,700*	7,400*	5,900*	5,600*	4,900*						
130	25	19,900*	15,900*	12,800*	16,100*	12,800*	11,800*	11,800*	11,500*	9,800*	9,700*	9,900*	9,600*	8,900*	7,700*	7,400*	5,900*	5,600*	4,900*						
	30	19,200*	15,400*	12,400*	15,600*	12,400*	11,600*	11,600*	11,300*	9,300*	9,300*	9,900*	9,600*	8,900*	7,700*	7,400*	5,900*	5,600*	4,900*						
	35	18,600*	14,900*	12,000*	15,100*	12,000*	11,300*	11,300*	11,000*	9,000*	9,000*	9,900*	9,600*	8,900*	7,700*	7,400*	5,900*	5,600*	4,900*						
	40	17,900*	14,400*	11,600*	14,700*	11,400*	10,700*	10,700*	10,400*	8,700*	8,700*	9,900*	9,600*	8,900*	7,700*	7,400*	5,900*	5,600*	4,900*						
140	25	19,900*	15,900*	12,800*	16,100*	12,800*	11,800*	11,800*	11,500*	9,800*	9,700*	9,900*	9,600*	8,900*	7,700*	7,400*	5,900*	5,600*	4,900*						
	30	19,200*	15,400*	12,400*	15,600*	12,400*	11,600*	11,600*	11,300*	9,300*	9,300*	9,900*	9,600*	8,900*	7,700*	7,400*	5,900*	5,600*	4,900*						
	35	18,600*	14,900*	12,000*	15,100*	12,000*	11,300*	11,300*	11,000*	9,000*	9,000*	9,900*	9,600*	8,900*	7,700*	7,400*	5,900*	5,600*	4,900*						
	40	17,900*	14,400*	11,600*	14,700*	11,400*	10,700*	10,700*	10,400*	8,700*	8,700*	9,900*	9,600*	8,900*	7,700*	7,400*	5,900*	5,600*	4,900*						
150	25	19,900*	15,900*	12,800*	16,100*	12,800*	11,800*	11,800*	11,500*	9,800*	9,700*	9,900*	9,600*	8,900*	7,700*	7,400*	5,900*	5,600*	4,900*						
	30	19,200*	15,400*	12,400*	15,600*	12,400*	11,600*	11,600*	11,300*	9,300*	9,300*	9,900*	9,600*	8,900*	7,700*	7,400*	5,900*	5,600*	4,900*						
	35	18,600*	14,900*	12,000*	15,100*	12,000*	11,300*	11,300*	11,000*	9,000*	9,000*	9,900*	9,600*	8,900*	7,700*	7,400*	5,900*	5,600*	4,900*						
	40	17,900*	14,400*	11,600*	14,700*	11,400*	10,700*	10,700*	10,400*	8,700*	8,700*	9,900*	9,600*	8,900*	7,700*	7,400*	5,900*	5,600*	4,900*						

(continued)

(continued)

HC-138A jib capacities — open throat boom (U.S. Units)

Refer to Notes page 1

Boom length Feet	Load radius Feet	Capacities on outriggers — over side and 360° swing														
		20° jib					30° jib					40° jib				
		Jib angles to boom (jib offset degrees)					Jib angles to boom (jib offset degrees)					Jib angles to boom (jib offset degrees)				
		0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
120	30	19,700*	15,800*	12,700*	15,900*	12,700*	9,600*	11,800*	9,500*	7,900*	7,900*	5,800*	4,900*	7,900*	5,800*	4,900*
	35	19,100*	15,300*	12,000*	15,500*	11,900*	9,100*	11,500*	9,000*	7,600*	7,600*	5,600*	4,600*	7,600*	5,600*	4,600*
	40	18,600*	14,500*	11,300*	14,300*	11,100*	8,500*	10,500*	8,000*	6,400*	6,400*	5,100*	4,400*	6,400*	5,100*	4,400*
	50	17,500*	13,600*	10,500*	13,500*	10,300*	7,900*	10,000*	7,400*	5,900*	5,900*	4,900*	4,100*	5,900*	4,900*	4,100*
	60	16,300*	12,700*	10,200*	12,700*	9,600*	7,600*	9,900*	7,400*	5,600*	5,600*	4,300*	3,800*	5,600*	4,300*	3,800*
	70	15,300*	12,000*	9,800*	11,900*	8,300*	7,300*	8,900*	6,800*	5,000*	5,000*	4,000*	3,500*	4,000*	3,500*	3,200*
	80	14,400*	11,100*	9,500*	11,000*	7,800*	6,500*	8,400*	6,200*	4,800*	4,800*	3,700*	3,200*	4,800*	3,700*	3,200*
	90	10,200	10,300		10,000	7,500		7,100	5,700					7,100	5,700	
	100	8,600	8,700		8,800	6,400		5,600	5,000*					5,600	5,000*	
	110	7,400	7,400		7,500	6,500		4,900						4,100*	3,300*	
130	30	19,900*	15,900*	12,900*	15,700*	12,900*	9,700*	11,900*	9,600*	7,900*	7,900*	5,900*	4,900*	7,900*	5,900*	4,900*
	35	19,400*	15,500*	12,200*	15,300*	12,100*	9,200*	11,600*	9,200*	7,700*	7,700*	5,700*	4,700*	7,700*	5,700*	4,700*
	40	18,900*	14,700*	11,500*	14,800*	11,400*	8,700*	11,200*	8,700*	7,100*	7,100*	5,200*	4,400*	7,100*	5,200*	4,400*
	50	16,700*	13,900*	10,800*	13,800*	10,600*	8,100*	10,700*	8,200*	6,600*	6,600*	5,000*	4,200*	6,600*	5,000*	4,200*
	60	15,700*	13,100*	10,300*	13,100*	9,800*	7,800*	9,700*	7,700*	6,000*	6,000*	4,500*	3,900*	6,000*	4,500*	3,900*
	70	14,400	12,300*	10,000*	12,300*	9,300*	7,500*	9,200*	7,100*	5,300*	5,300*	4,200*	3,700*	5,300*	4,200*	3,700*
	80	11,900	11,600*	9,700*	11,400*	8,700*	7,100*	8,700*	6,600*	4,600*	4,600*	3,600*	3,200*	6,600*	3,600*	3,200*
	90	10,000	10,100		10,100	7,300		6,300	5,600*					6,300	5,600*	
	100	8,400	8,600		8,500	6,200		5,400	5,300*					5,400	5,300*	
	110	7,200	7,300		7,300	6,400		4,600						4,000*	3,300*	
140	35	19,600*	15,700*	12,400*	15,800*	12,300*	9,800*	11,900*	9,700*	7,800*	7,800*	5,900*	4,900*	7,800*	5,900*	4,900*
	40	19,100*	14,900*	11,700*	15,500*	11,600*	9,300*	11,700*	9,300*	7,400*	7,400*	5,700*	4,700*	7,400*	5,700*	4,700*
	50	18,100*	14,200*	11,100*	14,100*	10,900*	8,800*	10,800*	8,800*	6,600*	6,600*	5,500*	4,500*	6,600*	5,500*	4,500*
	60	17,100*	13,400*	10,400*	13,400*	10,100*	8,300*	10,400*	8,300*	6,100*	6,100*	5,100*	4,300*	6,100*	5,100*	4,300*
	70	16,100*	12,700*	10,200*	12,600*	9,900*	7,900*	9,900*	7,900*	5,800*	5,800*	4,800*	4,000*	5,800*	4,800*	4,000*
	80	14,200	11,900	9,900*	11,900	9,800	7,600*	9,000*	7,400*	5,000*	5,000*	4,000*	3,300*	5,000*	4,000*	3,300*
	90	11,700	10,000	8,500	11,800	8,300	6,000*	8,400	6,300*	4,200*	4,200*	3,500*	2,900*	4,200*	3,500*	2,900*
	100	9,800	8,400		9,900	7,100		6,100	5,900*					6,100	5,900*	
	110	8,200	7,100		8,300	6,000		5,200	5,400					5,200	5,400	
	120	5,900	6,000		6,000	5,200		4,400	4,600					4,400	4,600	
150	35	19,800*	15,800*	12,500*	15,900*	12,400*	9,900*	11,800*	9,800*	7,900*	7,900*	5,800*	4,800*	7,900*	5,800*	4,800*
	40	19,300*	15,100*	11,900*	15,600*	11,800*	9,400*	11,400*	9,400*	7,500*	7,500*	5,600*	4,600*	7,500*	5,600*	4,600*
	50	18,400*	14,400*	11,300*	15,000*	11,100*	9,000*	11,000*	9,000*	6,700*	6,700*	5,400*	4,400*	6,700*	5,400*	4,400*
	60	17,500*	13,700*	10,700*	14,300*	10,600*	8,500*	10,600*	8,500*	6,300*	6,300*	5,200*	4,200*	6,300*	5,200*	4,200*
	70	16,500*	13,000*	10,300*	13,600*	10,400*	8,000*	10,300*	8,000*	5,900*	5,900*	4,900*	4,000*	5,900*	4,900*	4,000*
	80	13,900	13,000*	9,900*	12,900*	9,800	7,700*	10,100*	7,600*	5,500*	5,500*	4,500*	3,700*	5,500*	4,500*	3,700*
	90	11,500	11,700	8,300	11,600	9,300	7,100*	9,200*	7,100*	5,300*	5,300*	4,300*	3,500*	5,300*	4,300*	3,500*
	100	9,500	9,800		9,600	8,100		6,900	6,500*					6,900	6,500*	
	110	8,000	8,200		8,100	6,800		5,800	5,700*					5,800	5,700*	
	120	6,700	6,900		6,800	5,800		5,000	5,200*					5,000	5,200*	

C-138A jib capacities — open throat boom (U.S. Units)

Refer to Notes page 11.

Boom length Feet	Load radius Feet	Jib angles to boom (jib offset degrees)												50' jib			
		40' jib						30' jib									
		0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°				
		Pounds						Pounds						Pounds			
150	140	4,800	4,900		4,900	5,000		4,900	5,000		4,900	5,000		4,800	4,000	2,100	
	150	4,000			4,100	4,200		4,200	4,400		4,200	4,400		4,200	3,600		
	160	3,300			3,400	3,500		3,500	3,700		3,500	3,700		3,500	3,200		
	170				2,800			2,900				2,900		2,400	2,900		
	180							2,400				2,400		2,400			
160	35	19,900	15,900	12,600	15,700	12,600		11,900	9,900		11,900	9,900		7,900	5,800		
	40	19,500	15,500	12,100	15,100	11,900	9,500	11,500	9,500	7,800	7,800	7,800	7,800	7,600	5,600	4,800	
	50	18,600	14,600	11,500	14,500	10,700	8,700	10,300	8,700	7,000	7,000	7,000	7,000	6,800	5,600	4,800	
	60	17,700	13,900	10,900	13,900	10,000	8,100	9,900	8,300	6,000	6,000	6,000	6,000	6,400	5,400	4,600	
	70	16,900	13,300	9,300	13,300	9,500	6,900	9,500	7,800	5,100	5,100	5,100	5,100	6,100	5,200	4,400	
	80	13,700	11,300	8,000	11,300	8,200	5,900	7,900	6,800	4,300	4,300	4,300	4,300	5,800	5,000	3,900	
	90	11,300	9,600		9,400	6,900	5,000	6,700	5,900	3,700	3,700	3,700	3,700	5,600	4,800	3,200	
	100	9,300	8,000	6,800	7,900	6,900	4,400	5,600	5,200	3,200	3,200	3,200	3,200	5,400	4,600	2,700	
	110	7,800	6,700		6,600	5,800	4,700	5,600	4,500	2,800	2,800	2,800	2,800	5,200	4,400	2,300	
	120	6,500	5,600		5,500	4,800	3,900	4,800	4,000	2,600	2,600	2,600	2,600	4,800	4,000	2,000	
	130	5,400	4,700		4,600	3,800	3,300	3,900	3,300	2,700	2,700	2,700	2,700	4,000	3,200	1,800	
	140	4,500	3,900		3,800	3,100	2,600	3,200	2,600	2,100	2,100	2,100	2,100	3,300	2,900		
	150	3,800	3,300		3,200	2,500		2,600	2,500					3,300	2,900		
	160	3,100			2,600			2,200	2,900					2,700	2,600		
170	2,500			2,100			1,700	2,900					2,200	2,300			
170	40	19,700	15,400	12,700	15,800	12,700		11,900	9,900		11,900	9,900		7,700	5,800		
	50	18,800	14,700	12,200	15,300	12,100	9,600	11,600	9,600	7,900	7,900	7,900	7,900	7,300	5,700	4,900	
	60	18,000	14,200	11,700	14,100	10,900	8,800	10,800	8,800	7,500	7,500	7,500	7,500	6,900	5,500	4,700	
	70	16,700	13,500	11,100	12,600	9,800	7,400	9,800	8,200	6,800	6,800	6,800	6,800	6,600	5,300	4,300	
	80	13,500	11,100	9,600	12,600	8,400	6,300	9,800	7,100	5,700	5,700	5,700	5,700	6,200	5,100	3,600	
	90	11,100	9,400	8,200	10,800	7,200	5,400	7,300	6,100	4,000	4,000	4,000	4,000	5,900	4,400	2,600	
	100	9,100	7,800	7,200	9,200	6,400	4,600	7,300	6,400	3,400	3,400	3,400	3,400	5,700	4,900	3,000	
	110	7,600	6,500	5,500	7,700	5,600	4,000	6,400	5,300	2,900	2,900	2,900	2,900	5,500	4,400	2,200	
	120	6,300	5,400		6,400	4,600	3,500	5,400	4,600	2,600	2,600	2,600	2,600	5,000	4,400	2,200	
	130	5,200	4,500		5,300	3,800		5,400	4,500	2,300	2,300	2,300	2,300	4,400	3,900	2,200	
	140	4,300	3,700		4,400	3,100		4,400	3,700	2,000	2,000	2,000	2,000	4,400	3,900	2,200	
	150	3,600	3,000		3,700	2,500		3,700	3,000	1,900	1,900	1,900	1,900	3,800	3,300	1,900	
	160	2,900			2,400			2,500	3,200					3,100	2,600		
	170	2,300			1,900			2,500	3,200					2,500	2,300		
180	1,800							2,100					2,000	2,100			
180	40	19,800	15,500	12,800	15,900	12,800		11,700	9,600		11,700	9,600		7,700	5,900		
	50	19,000	15,400	12,300	15,400	12,200	9,700	11,300	9,300	7,600	7,600	7,600	7,600	7,400	5,700	4,900	
	60	17,400	13,500	11,800	14,800	10,100	8,100	10,900	8,800	6,300	6,300	6,300	6,300	7,000	5,500	4,700	
	70	14,000	11,100	9,500	13,500	8,700	6,700	10,100	8,800	5,200	5,200	5,200	5,200	6,300	5,400	4,000	
	80	12,100	9,900	8,600	11,500	7,500	5,700	8,700	7,500	4,400	4,400	4,400	4,400	6,000	5,400	4,000	
180	90	10,500	8,600	7,500	9,900	6,400	4,800	7,500	6,400	3,700	3,700	3,700	3,700	5,800	5,200	3,300	
	100	8,900	8,600	6,400	8,600	5,700	4,800	7,500	6,400	3,400	3,400	3,400	3,400	5,200	4,600	2,800	
	110	7,400	7,500	4,900	7,500	4,900	3,600	6,400	5,500	2,700	2,700	2,700	2,700	5,000	4,000	2,400	
	120	6,100	6,300		6,200	4,300	3,200	5,600	4,700	2,300	2,300	2,300	2,300	4,400	3,500	2,000	
	130	5,000	5,200		5,200	3,500	3,200	4,900	4,100	2,000	2,000	2,000	2,000	4,000	3,000	1,800	
	140	4,100	4,300		4,200	3,300	2,800	4,900	3,600	1,900	1,900	1,900	1,900	3,900	3,000	1,500	
	150	3,300	3,500		3,400	2,900	2,300	3,600	3,200	2,000	2,000	2,000	2,000	3,400	2,600		
	160	2,700	2,800		2,800	2,300	1,800	3,600	2,900	1,700	1,700	1,700	1,700	3,400	2,900		
	170	2,100	2,200		2,200	1,800		3,600	2,900	1,700	1,700	1,700	1,700	2,300	2,000		
	180	1,600			1,700			3,600	2,900	1,700	1,700	1,700	1,700	2,300	2,000		
	190	40	19,900	15,700	12,900	15,500	12,900		11,700	9,700		11,700	9,700		7,800	5,900	
		50	18,100	14,000	12,400	13,500	12,400	9,800	11,400	9,700		11,400	9,700		7,500		
		60															

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HC-138A jib capacities — open throat boom (U.S. Units)

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Capacities on outriggers — over side and 360° swing													
Boom length Feet	Load radius Feet	20' jib			30' jib			40' jib			50' jib		
		Jib angles to boom (jib offset degrees)											
		Pounds											
		0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
190	70	12,500*	12,000*	10,600*	11,400*	10,700*	8,700*	10,400*	9,400*	7,000*	7,100*	5,700*	4,900*
	80	10,700*	10,300*	9,000*	9,800*	9,000*	7,300*	8,900*	7,900*	5,800*	6,800*	5,600*	4,600*
	90	9,300*	8,800*	7,700*	8,500*	7,600*	6,100*	7,700*	6,700*	4,800*	6,500*	5,400*	3,800*
	100	8,000*	7,500*	6,600*	7,200*	6,600*	5,100*	6,600*	5,700*	4,000*	5,900*	4,900*	3,100*
	110	7,000*	6,600*	5,600*	6,300*	5,600*	4,400*	5,700*	4,900*	3,400*	5,200*	4,200*	2,600*
	120	5,900	5,800*	4,900*	5,600*	5,000*	3,800*	4,900*	4,300*	2,900*	4,500*	3,600*	2,200*
	130	4,800	5,000	4,300*	4,900	4,300*	3,300*	4,300*	3,700*	2,500*	3,900*	3,100*	1,900*
	140	3,900	4,100	3,800*	4,000	3,800*	2,800*	3,800*	3,200*	2,100*	3,400*	2,700*	1,600*
	150	3,100	3,300		3,200	3,300	2,500*	3,300	2,800*	1,900*	3,000*	2,300*	
	160	2,500	2,600		2,500	2,700		2,600	2,500*	1,600*	2,600	2,100*	
170	1,900	2,000		2,000	2,100		2,000	2,200*		2,000	1,800*		
	180							1,500	1,700		1,500	1,600*	

Link-Belt® HC-138A jib capacities — open throat boom (U.S. units)

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Boom — width — 44" deep with open throat top section, 1 1/4" netter boom pendants, boom live mast, and boom midpoint suspension pendants as required.

Jib — width — 30" wide, 24" deep.

Counterweights — Upper counterweight "AB" 30,000 lbs. plus bumper counterweight "A" — 1,500 lbs.

Mounting — rubber tire mobile base: FMC, 8 x 4 drive, 260" wheelbase, 11' 0" wide.

Capacities on outriggers — over rear only														
Boom length Feet	Load radius Feet	20' jib			30' jib			40' jib			50' jib			
		Jib angles to boom (jib offset degrees)												
		0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	
40	14	19,800*												
	15	19,600*												
	16	19,300*												
	17	19,100*												
	18	18,800*												
	19	18,600*												
	20	18,300*												
	25	17,000*												
	30	15,700*												
	35	14,700*												
50	40	13,500*												
	50	11,300*												
	60	9,600*												
	70													
	80													
	90													
	16	19,800*												
	17	19,600*												
	18	19,300*												
	19	19,100*												
60	20	18,900*												
	25	17,800*												
	30	16,700*												
	35	15,600*												
	40	14,700*												
	50	12,700*												
	60	10,800*												
	70	9,500*												
	80													
	90													
70	18	19,700*												
	19	19,600*												
	20	19,400*												
	25	18,400*												
	30	17,400*												
	35	16,400*												
	40	15,500*												
	50	13,900*												
	60	12,200*												
	70	10,400*												
80	18	19,700*												
	19	19,600*												
	20	19,400*												
	25	18,400*												
	30	17,400*												
	35	16,400*												
	40	15,500*												
	50	13,900*												
	60	12,200*												
	70	10,400*												
90	18	19,700*												
	19	19,600*												
	20	19,400*												
	25	18,400*												
	30	17,400*												
	35	16,400*												
	40	15,500*												
	50	13,900*												
	60	12,200*												
	70	10,400*												
100	18	19,700*												
	19	19,600*												
	20	19,400*												
	25	18,400*												
	30	17,400*												
	35	16,400*												
	40	15,500*												
	50	13,900*												
	60	12,200*												
	70	10,400*												

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HC-138A jib capacities — open throat boom (U.S. units)

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Boom length Feet	Load radius Feet	Capacities on outriggers — over rear only															
		20' jib				30' jib				40' jib				50' jib			
		Jib angles to boom (jib offset degrees)															
		0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°				
		Pounds				Pounds				Pounds				Pounds			
70	80	10,300*	9,500*		8,400*	7,500*		7,200*	6,000*	5,200*	4,900*	4,400*	3,700*				
	90							6,200*	5,500*		4,500*	3,900*	3,200*				
	100							5,400*			4,000*	3,500*					
	110										3,400*						
	120																
80	25	19,200*	15,600*		15,200*	12,700*		11,600*	9,800*		7,600*	5,900*	4,900*				
	30	18,500*	15,000*	12,500*	14,700*	12,200*		11,300*	9,400*	7,200*	7,000*	5,600*	4,600*				
	35	17,700*	14,400*	12,000*	14,200*	11,600*	9,500*	10,600*	8,700*	6,500*	6,300*	5,300*	4,200*				
	40	16,900*	13,200*	10,900*	13,600*	10,500*	8,700*	10,000*	8,000*	5,900*	5,800*	4,900*	3,900*				
	50	15,400*	12,000*	10,200*	12,500*	9,500*	7,500*	9,300*	7,300*	5,500*	5,500*	4,600*	3,500*				
90	60	14,100*	10,800*	9,700*	11,300*	8,700*	7,000*	8,500*	6,500*	5,400*	5,200*	4,200*	3,000*				
	70	12,700*	10,800*		10,100*	7,900*		7,800*	5,800*	5,000*	4,800*	3,800*					
	80	11,400*	10,100*		9,200*	7,400*		6,900*	5,300*		4,400*	3,300*					
	90	10,200*			8,100*			5,900*			3,900*						
	100				7,400*			5,400*			3,400*						
100	25	19,500*	15,900*		15,400*	12,400*		11,400*	9,600*		7,700*	5,700*	4,600*				
	30	18,800*	14,800*	12,700*	14,900*	11,900*	9,600*	11,100*	8,900*	7,400*	7,400*	5,400*	4,300*				
	35	17,400*	13,700*	12,200*	13,900*	10,900*	8,900*	10,200*	8,300*	6,000*	6,500*	5,100*	4,000*				
	40	15,900*	12,600*	10,400*	12,900*	9,900*	7,700*	9,600*	7,600*	5,700*	5,700*	4,800*	3,700*				
	50	14,800*	11,500*	10,000*	11,900*	9,100*	7,300*	8,900*	6,900*	5,600*	5,300*	4,400*	3,300*				
110	60	13,500*	10,400*	9,500*	10,800*	8,300*		7,500*	5,700*	5,200*	4,700*	3,700*					
	70	12,300*	9,900*		9,700*	7,700*		6,700*	5,000*		4,300*	3,200*					
	80	11,000*			8,900*	7,200*		6,200*	4,500*		3,800*						
	90	10,100*			7,900*			5,800*			3,600*						
	100				7,400*			5,300*			3,300*						
120	25	19,800*	16,100*		15,100*	12,600*		11,500*	9,700*		7,800*	5,700*	4,700*				
	30	19,100*	15,600*	12,900*	14,700*	12,100*	9,100*	11,300*	9,100*	7,500*	7,500*	5,500*	4,400*				
	35	18,500*	15,100*	12,500*	14,200*	11,200*	8,400*	11,000*	8,500*	6,900*	6,200*	5,200*	4,100*				
	40	17,800*	14,100*	11,600*	13,300*	10,200*	7,500*	10,400*	7,300*	5,800*	5,500*	4,900*	3,800*				
	50	16,500*	13,000*	10,200*	12,400*	9,500*	7,100*	9,800*	6,800*	5,100*	4,300*	3,500*	3,100*				
130	60	15,300*	12,100*	9,800*	11,400*	8,800*		7,200*	5,900*	5,100*	4,500*	3,900*					
	70	14,200*	11,100*		10,300*	8,000*		6,400*	5,500*		4,200*	3,500*					
	80	13,000*	10,300*		9,500*	7,100*		5,200*			3,700*	3,100*					
	90	12,000*			7,300*			5,200*			3,200*						
	100				7,300*			5,200*			3,200*						
140	25	19,800*	16,100*		15,100*	12,600*		11,500*	9,700*		7,800*	5,700*	4,700*				
	30	19,100*	15,600*	12,900*	14,700*	12,100*	9,100*	11,300*	9,100*	7,500*	7,500*	5,500*	4,400*				
	35	18,500*	15,100*	12,500*	14,200*	11,200*	8,400*	11,000*	8,500*	6,900*	6,200*	5,200*	4,100*				
	40	17,800*	14,100*	11,600*	13,300*	10,200*	7,500*	10,400*	7,300*	5,800*	5,500*	4,900*	3,800*				
	50	16,500*	13,000*	10,200*	12,400*	9,500*	7,100*	9,800*	6,800*	5,100*	4,300*	3,500*	3,100*				
150	60	15,300*	12,100*	9,800*	11,400*	8,800*		7,200*	5,900*	5,100*	4,500*	3,900*					
	70	14,200*	11,100*		10,300*	8,000*		6,400*	5,500*		4,200*	3,500*					
	80	13,000*	10,300*		9,500*	7,100*		5,200*			3,700*	3,100*					
	90	12,000*			7,300*			5,200*			3,200*						
	100				7,300*			5,200*			3,200*						
160	25	19,800*	16,100*		15,100*	12,600*		11,500*	9,700*		7,800*	5,700*	4,700*				
	30	19,100*	15,600*	12,900*	14,700*	12,100*	9,100*	11,300*	9,100*	7,500*	7,500*	5,500*	4,400*				
	35	18,500*	15,100*	12,500*	14,200*	11,200*	8,400*	11,000*	8,500*	6,900*	6,200*	5,200*	4,100*				
	40	17,800*	14,100*	11,600*	13,300*	10,200*	7,500*	10,400*	7,300*	5,800*	5,500*	4,900*	3,800*				
	50	16,500*	13,000*	10,200*	12,400*	9,500*	7,100*	9,800*	6,800*	5,100*	4,300*	3,500*	3,100*				
170	60	15,300*	12,100*	9,800*	11,400*	8,800*		7,200*	5,900*	5,100*	4,500*	3,900*					
	70	14,200*	11,100*		10,300*	8,000*		6,400*	5,500*		4,200*	3,500*					
	80	13,000*	10,300*		9,500*	7,100*		5,200*			3,700*	3,100*					
	90	12,000*			7,300*			5,200*			3,200*						
	100				7,300*			5,200*			3,200*						
180	25	19,800*	16,100*		15,100*	12,600*		11,500*	9,700*		7,800*	5,700*	4,700*				
	30	19,100*	15,600*	12,900*	14,700*	12,100*	9,100*	11,300*	9,100*	7,500*	7,500*	5,500*	4,400*				
	35	18,500*	15,100*	12,500*	14,200*	11,200*	8,400*	11,000*	8,500*	6,900*	6,200*	5,200*	4,100*				
	40	17,800*	14,100*	11,600*	13,300*	10,200*	7,500*	10,400*	7,300*	5,800*	5,500*	4,900*	3,800*				
	50	16,500*	13,000*	10,200*	12,400*	9,500*	7,100*	9,800*	6,800*	5,100*	4,300*	3,500*	3,100*				
190	60	15,300*	12,100*	9,800*	11,400*	8,800*		7,200*	5,900*	5,100*	4,500*	3,900*					
	70	14,200*	11,100*		10,300*	8,000*		6,400*	5,500*		4,200*	3,500*					
	80	13,000*	10,300*		9,500*	7,100*		5,200*			3,700*	3,100*					
	90	12,000*			7,300*			5,200*			3,200*						
	100				7,300*			5,200*			3,200*						
200	25	19,800*	16,100*		15,100*	12,600*		11,500*	9,700*		7,800*	5,700*	4,700*				
	30	19,100*	15,600*	12,900*	14,700*	12,100*	9,100*	11,300*	9,100*	7,500*	7,500*	5,500*	4,400*				
	35	18,500*	15,100*	12,500*	14,200*	11,200*	8,400*	11,000*	8,500*	6,900*	6,200*	5,200*	4,100*				
	40	17,800*	14,100*	11,600*	13,300*	10,200*	7,500*	10,400*	7,300*	5,800*	5,500*	4,900*	3,800*				
	50	16,500*	13,000*	10,200*	12,400*	9,500*	7,100*	9,800*	6,800*	5,100*	4,300*	3,500*	3,100*				
210	60	15,300*	12,100*	9,800*	11,400*	8,800*		7,200*	5,900*	5,100*	4,500*	3,900*					
	70	14,200*	11,100*		10,300*	8,000*		6,400*	5,500*		4,200*	3,500*					
	80	13,000*	10,300*		9,500*	7,100*		5,200*			3,700*	3,100*					
	90	12,000*			7,300*			5,200*			3,200*						
	100				7,300*			5,200*			3,200*						
220	25	19,800*	16,100*		15,100*	12,600*		11,500*	9,700*		7,800*	5,700*	4,700*				
	30	19,100*	15,600*	12,900*	14,700*	12,100*	9,100*	11,300*	9,100*	7,500*	7,500*	5,500*	4,400*				
	35	18,500*	15,100*	12,500*	14,200*	11,200*	8,400*	11,000*	8,500*	6,900*	6,200*	5,200*	4,100*				
	40	17,800*	14,100*	11,600*	13,300*	10,200*	7,500*	10,400*	7,300*	5,800*	5,500*	4,900*	3,800*				
	50	16,500*	13,000*	10,200*	12,400*	9,500*	7,100*	9,800*	6,800*	5,100*	4,300*	3,500*	3,100*				
230	60	15,300*	12,100*	9,800*	11,400*	8,800*		7,200*	5,900*	5,100*	4,500*	3,900*					
	70	14,200*	11,100*		10,300*	8,000*		6,400*	5,500*		4,200*	3,500*					
	80	13,000*	10,300*		9,500*	7,100*		5,200*			3,700*	3,100*					
	90	12,000*			7,300*			5,200*			3,200*						
	100				7,300*			5,200*			3,200*						
240	25	19,800*	16,100*		15,100*	12,600*		11,500*	9,700*		7,800*	5,700*	4,700*				
	30	19,100*	15,600*	12,900*	14,700*	12,100*	9,100*	11,300*	9,100*	7,500*	7,500*	5,500*	4,400*				
	35	18,500*	15,100*	12,500*	14,200*	11,200*	8,400*	11,000*	8,500*	6,900*	6,200*	5,200*	4,100*				
	40	17,800*	14,100*	11,600*	13,300*	10,200*	7,500*	10,400*	7,300*	5,800*	5,500*	4,900*	3,800*				
	50	16,500*	13,000*	10,200*	12,400*	9,500*	7,100*	9,800*	6,800*	5,100*	4,300*	3,500*	3,100*				
250	60	15,300*	12,100*	9,800*	11,400*	8,800*		7,200*	5,900*	5,100*	4,500*	3,900*					
	70	14,200*	11,100*		10,300*	8,000*		6,400*	5,500*		4,200*	3,500*					
	80	13,000*	10,300*		9,500*	7,100*		5,200*			3,700*	3,100*					
	90	12,000*			7,300*			5,200*			3,200*						
	100				7,300*			5,200*			3,200*						
260	25	19,800*	16,100*		15,100*	12,600*		11,500*	9,700*		7,800*	5,700*	4,700*				
	30	19,100*	15,600*	12,900*	14,700*	12,100*	9,100*	11,300*	9,100*	7,500*	7,500*	5,500*	4,400*				
	35	18,500*	15,100*	12,500*	14,200*	11,200*	8,400*	11,000*	8,500*	6,900*	6,200*	5,200*	4,100*				
	40	17,800*	14,100*	11,600*	13,300*	10,200*	7,500*	10,400*	7,300*	5,800*	5,500*	4,900*	3,800*				
	50	16,500*	13,000*	10,200*	12,400*	9,500*	7,100*	9,800*	6,800*	5,100*	4,300*	3,500*	3,100*				
270	60	15,300*	12,100*	9,800*	11,400*	8,800*		7,200*	5,900*	5,100*	4,500*	3,900*					
	70	14,200*	11,100*		10,300*	8,000*		6,400*	5,500*		4,200*	3,500*					
	80	13,000*	10,300*		9,500*	7,100*		5,200*			3,700*	3,100*					
	90																

138A jib capacities — open throat boom (U.S. units)

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Boom length Feet	Load radius Feet	Jib angles to boom (jib offset degrees)											
		0°				15°				30°			
		Pounds				Pounds				Pounds			
120	30	19,600*	15,400*	15,100*	14,700*	12,800*	15,900*	12,500*	9,400*	11,500*	9,400*	7,700*	7,700*
	35	19,100*	15,100*	14,700*	14,300*	12,400*	15,500*	12,100*	9,000*	11,200*	8,800*	7,500*	7,500*
	40	18,500*	14,700*	14,300*	13,900*	12,000*	15,100*	11,700*	8,600*	10,800*	8,400*	7,200*	7,200*
	50	17,400*	13,800*	13,400*	13,000*	11,300*	14,700*	10,900*	8,300*	10,200*	8,000*	6,700*	6,500*
	60	16,200*	13,000*	12,600*	12,200*	10,600*	13,900*	10,000*	7,800*	9,700*	7,600*	6,100*	5,800*
	70	15,300*	12,300*	11,900*	11,500*	10,200*	13,200*	9,400*	7,500*	9,200*	7,300*	5,500*	5,200*
	80	14,300*	11,500*	11,100*	10,700*	9,800*	12,400*	8,800*	7,200*	8,700*	6,700*	5,100*	4,900*
	90	13,300*	10,700*	10,300*	9,900*	9,500*	11,600*	8,200*	6,800*	8,100*	6,100*	4,700*	4,400*
	100	12,400*	10,000*	9,600*	9,200*	8,800*	10,800*	7,700*	6,500*	7,500*	5,700*	4,300*	4,100*
	110	11,000*	9,000*	8,600*	8,200*	7,800*	9,700*	7,300*	6,100*	6,800*	5,300*	4,000*	3,800*
	120	9,500*	8,200*	7,800*	7,400*	7,000*	8,600*	6,400*	5,300*	6,100*	4,700*	3,700*	3,500*
	130	8,300*	7,200*	6,800*	6,400*	6,000*	7,600*	5,600*	4,600*	5,500*	4,300*	3,300*	3,200*
130	30	19,800*	15,200*	14,800*	14,400*	12,900*	16,100*	12,600*	9,500*	11,600*	9,500*	7,800*	7,800*
	35	19,300*	14,800*	14,400*	14,000*	12,500*	15,700*	12,200*	9,100*	11,300*	9,000*	7,600*	7,600*
	40	18,800*	14,300*	13,900*	13,500*	12,000*	15,200*	11,900*	8,900*	10,900*	8,500*	7,100*	7,100*
	50	17,700*	13,400*	13,000*	12,600*	11,100*	14,100*	11,000*	8,400*	10,400*	8,000*	6,200*	6,200*
	60	16,700*	12,600*	12,200*	11,800*	10,300*	13,300*	9,700*	7,900*	9,900*	7,500*	5,900*	5,700*
	70	15,700*	11,800*	11,400*	11,000*	9,800*	12,500*	9,100*	7,500*	9,400*	7,000*	5,200*	5,000*
	80	14,800*	11,000*	10,600*	10,200*	9,000*	11,700*	8,500*	7,000*	8,900*	6,400*	4,700*	4,400*
	90	13,900*	10,200*	9,800*	9,400*	8,200*	10,900*	7,900*	6,400*	8,100*	5,900*	4,500*	4,200*
	100	12,600*	9,400*	9,000*	8,600*	7,400*	10,300*	7,600*	6,200*	7,800*	5,600*	4,200*	3,900*
	110	10,800*	8,100*	7,700*	7,300*	6,000*	9,400*	6,800*	5,500*	7,300*	5,300*	4,000*	3,600*
	120	9,300*	7,100*	6,700*	6,300*	5,000*	8,100*	5,800*	4,800*	6,600*	4,600*	3,600*	3,300*
	130	8,100*	6,200*	5,800*	5,400*	4,200*	7,000*	5,200*	4,300*	5,900*	4,300*	3,300*	2,900*
140	35	19,500*	15,300*	15,000*	14,600*	12,400*	15,800*	12,000*	9,600*	11,600*	9,600*	7,600*	7,600*
	40	19,000*	14,800*	14,400*	14,000*	12,000*	15,300*	11,600*	9,100*	11,400*	9,100*	7,200*	7,200*
	50	18,000*	13,600*	13,200*	12,800*	11,100*	14,400*	10,600*	8,700*	10,600*	8,700*	6,800*	6,800*
	60	17,000*	12,800*	12,400*	12,000*	10,400*	13,600*	9,900*	8,200*	10,100*	8,200*	6,400*	6,400*
	70	16,000*	12,000*	11,600*	11,200*	9,800*	12,800*	9,200*	7,700*	9,900*	7,700*	6,000*	6,000*
	80	15,200*	11,400*	11,000*	10,600*	9,400*	12,100*	8,600*	7,200*	9,200*	7,200*	5,700*	5,700*
	90	14,400*	10,600*	10,200*	9,800*	8,600*	11,400*	8,000*	6,700*	8,700*	6,700*	5,300*	5,300*
	100	12,400*	9,200*	8,800*	8,400*	7,200*	10,600*	7,800*	6,200*	8,000*	6,200*	4,800*	4,800*
	110	10,600*	8,000*	7,600*	7,200*	6,000*	9,200*	6,800*	5,500*	7,600*	5,500*	4,300*	4,300*
	120	9,100*	6,900*	6,500*	6,100*	5,000*	8,000*	5,800*	4,800*	6,500*	4,800*	3,800*	3,800*
	130	7,900*	6,000*	5,600*	5,200*	4,200*	7,000*	5,200*	4,300*	5,900*	4,300*	3,500*	3,500*
	140	6,800*	5,200*	4,800*	4,400*	3,600*	6,000*	4,600*	3,800*	5,300*	3,800*	3,200*	3,200*
150	35	19,700*	15,500*	15,100*	14,700*	12,500*	16,000*	12,200*	9,600*	11,500*	9,700*	7,700*	7,700*
	40	19,200*	15,000*	14,600*	14,200*	12,000*	15,500*	11,900*	9,200*	11,100*	9,200*	7,300*	7,300*
	50	18,300*	14,300*	13,900*	13,500*	11,300*	14,600*	11,000*	8,700*	10,700*	8,800*	6,900*	6,900*
	60	17,400*	13,400*	13,000*	12,600*	10,900*	13,800*	10,200*	8,300*	10,300*	8,400*	6,500*	6,500*
	70	16,400*	12,600*	12,200*	11,800*	10,300*	13,000*	9,600*	7,900*	9,800*	7,900*	6,100*	6,100*
	80	15,600*	11,800*	11,400*	11,000*	9,800*	12,200*	9,100*	7,500*	9,400*	7,500*	5,800*	5,800*
	90	14,400*	11,000*	10,600*	10,200*	9,000*	11,400*	8,500*	7,000*	8,900*	6,800*	5,400*	5,400*
	100	12,100*	9,400*	9,000*	8,600*	7,400*	10,500*	7,800*	6,400*	8,100*	6,200*	4,900*	4,900*
	110	10,300*	8,100*	7,700*	7,300*	6,000*	9,000*	6,600*	5,500*	7,000*	5,400*	4,300*	4,300*
	120	8,900*	7,000*	6,600*	6,200*	5,000*	8,000*	5,800*	4,800*	6,400*	4,700*	3,700*	3,700*
	130	7,600*	5,800*	5,400*	5,000*	4,200*	7,000*	5,200*	4,300*	5,600*	4,200*	3,300*	3,300*
	140	6,600*	5,000*	4,600*	4,200*	3,600*	6,000*	4,600*	3,800*	5,000*	3,800*	3,000*	3,000*

(continued)

HC-138A jib capacities — open throat boom (U.S. units)

Refer to Notes 1

Boom length Feet	Load radius Feet	Capacities on outriggers — over rear only											
		20' jib			30' jib			40' jib			50' jib		
		Jib angles to boom (jib offset degrees)											
		0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
		Pounds			Pounds			Pounds			Pounds		
150	140	6,600	6,700		6,700	6,300	6,600	5,100	5,100		4,700	4,000	2,200
	150	5,700			5,800	5,500	5,800	4,500	4,500		4,400	3,600	
	160	4,900			5,100		5,100	4,100			3,800	3,200	
	170				4,400		3,600				3,400	2,800	
	190						3,600				3,000		
160	35	19,800			15,300	12,300	11,600	9,700	9,700		7,800	5,800	4,800
	40	19,400	16,100	12,700	14,600	11,700	11,200	9,300	9,300	7,600	7,400	5,600	
	50	18,600	15,400	12,100	14,000	11,100	10,800	8,900	8,900	7,200	7,000	5,600	4,600
	60	17,700	14,800	11,500	13,400	10,400	10,000	8,400	8,500	6,800	6,300	5,200	4,400
	70	16,800	14,100	11,000	12,700	9,800	9,200	8,000	8,100	6,100	5,900	5,000	3,800
	80	15,800	13,400	10,400	12,100	9,400	8,800	7,700	7,700	5,200	5,000	4,600	3,200
	90	13,800	12,700	9,200	10,700	8,200	8,300	6,900	6,800	4,300	4,200	3,700	2,700
	100	11,900	11,000	8,000	9,400	7,100	6,500	5,100	5,100	3,200	3,000	2,900	2,000
	110	10,100	9,700	7,000	8,200	6,300	5,700	4,400	4,500	2,700	2,600	2,300	1,800
	120	8,600	8,500		7,300	5,600	5,100	4,000	4,000		3,600	2,900	
	130	7,400	7,600		6,500	4,900	4,500	3,600	3,600		3,300	2,600	
	140	6,400	6,500		4,800	4,400	4,200	3,200	3,200		3,000	2,300	
	150	5,500	5,600		4,100						2,600		
	160	4,700			3,500						2,600		
	170	4,000									2,600		
170	40	19,600			15,400	12,400	11,700	9,800	9,800		7,500	5,800	4,800
	50	18,800	15,600	12,800	14,800	11,900	11,300	9,400	9,400	7,700	7,100	5,700	
	60	17,900	15,000	12,200	14,200	11,300	10,500	8,700	8,700	7,300	6,800	5,500	4,600
	70	16,700	14,300	11,700	13,600	10,600	10,100	8,300	8,300	6,800	6,000	5,300	4,300
	80	13,700	13,100	11,200	12,600	9,700	9,800	7,400	7,400	5,600	5,100	3,600	3,000
	90	12,000	11,400	9,700	10,800	8,300	8,500	6,300	6,200	4,700	4,400	4,000	2,600
	100	10,400	9,700	8,300	9,400	7,200	7,300	5,400	5,200	3,400	3,400	3,000	2,600
	110	9,100	8,500	7,200	8,200	6,300	6,400	4,600	4,600	2,900	2,900	2,200	1,900
	120	8,200	7,500	6,200	7,200	5,600	5,700	4,000	4,000	2,500	2,500	2,100	1,600
	130	7,200	6,700	5,400	6,300	4,900	5,000	3,600	3,600		3,900	3,000	
	140	6,100	5,900		5,600	4,400	4,400	3,200	3,200		3,100	2,300	
	150	5,200	5,300		4,600	3,900	3,200	2,800	2,800		2,800	2,100	
	160	4,500	4,600		3,900	3,900	2,800				2,600	1,900	
	170	3,800			3,300						2,600		
	190	3,200									2,400		
180	40	19,700			15,500	12,600	11,400	9,500	9,500		7,600	5,900	4,900
	50	19,000	15,700	12,900	14,900	12,000	11,000	9,100	9,100	7,400	7,200	5,700	4,700
	60	17,400	15,100	12,400	14,400	11,400	10,600	8,800	8,800	6,900	6,900	5,500	4,000
	70	14,100	13,400	11,900	12,800	10,100	9,800	7,400	7,400	5,200	5,200	4,400	3,400
	80	12,200	11,600	10,100	11,100	8,700	8,600	6,400	6,400	4,400	4,400	3,700	2,800
	90	10,500	10,000	8,700	9,300	7,400	7,500	5,500	5,500	3,100	3,100	2,400	2,000
	100	9,100	8,600	7,400	8,300	6,400	6,500	4,700	4,700	2,700	2,700	2,400	2,000
	110	8,000	7,600	6,400	7,100	5,600	5,700	4,100	4,100	2,400	2,400	2,000	1,800
	120	7,000	6,500	5,600	6,300	4,900	4,900	3,600	3,600		3,900	3,000	1,500
	130	6,200	5,800	4,800	5,600	4,300	4,300	3,200	3,200		3,400	2,600	
	140	5,500	5,100		4,900	3,900	3,900				3,400	2,600	
	150	5,000	4,600		4,400						3,400	2,600	
	160										3,400	2,600	
	170										3,400	2,600	

(continued)

HC-138A jib capacities — open throat boom (U.S. units)

Refer to Notes pag

Capacities on outriggers — over rear only														
Boom length Feet	Load radius Feet	20' jib			30' jib			40' jib			50' jib			
		Jib angles to boom (jib offset degrees)												
		0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	
		Pounds			Pounds			Pounds			Pounds			
150	140	6,600	6,700		6,700	6,300		6,600	5,100		4,700	4,000		2,200
	150	5,700			5,800	5,500		5,800	4,500		4,400	3,600		
	160	4,900			5,000			5,100	4,100		3,800	3,200		
	170				4,300			4,400			3,400	2,800		
	190							3,800			3,000			
160	35	19,800						11,600			7,800			
	40	19,400						11,200			7,400			
	50	18,600	16,100		15,300	12,300		10,800	9,700	7,600	5,800		4,800	
	60	17,700	15,400		14,000	11,700		10,400	9,300	7,200	5,600		4,600	
	70	16,800	14,800		13,400	11,100		10,000	8,900	6,800	5,400		4,400	
	80	15,800	14,100		12,700	10,400		9,600	8,500	6,300	5,200		4,400	
	90	13,800	13,400		12,100	9,800		9,200	8,100	5,900	5,000		3,800	
	100	11,900	12,700		10,700	9,400		8,300	7,200	5,300	4,600		2,700	
	110	10,100	11,000		9,200	8,200		7,400	6,000	4,300	3,700		2,300	
	120	8,600	9,700		7,300	6,300		6,500	5,100	3,200	2,700		1,800	
	130	7,400	8,500		6,500	5,600		5,700	4,500	2,700	2,300			
	140	6,400	7,600		5,600	4,900		5,100	4,000					
	150	5,500	6,500		4,800	4,400		4,500	3,600					
	160	4,700	5,600		4,100			4,200	3,200					
	170	40	19,600						11,700			7,500		
50		18,800						11,300			7,100			
60		17,900	15,600		15,400	12,400		10,900	9,800	7,700	5,800		4,800	
70		16,700	15,000		14,200	11,900		10,500	9,400	7,300	5,700		4,600	
80		13,700	14,300		13,600	11,300		10,100	9,000	6,800	5,500		4,300	
90		12,000	13,100		12,600	10,600		9,800	8,700	6,500	5,300		4,000	
100		10,400	11,400		10,800	9,700		8,500	7,400	5,600	4,400		3,600	
110		9,100	9,700		9,400	8,300		7,300	6,200	4,700	3,800		2,600	
120		8,200	8,500		8,200	7,200		6,400	5,200	3,400	2,800		2,200	
130		7,200	7,500		7,200	6,300		5,700	4,600	2,900	2,400		1,900	
140		6,100	6,700		6,300	5,600		5,000	4,000	2,500				
150		5,200	5,900		5,600	4,900		4,400	3,600					
160		4,500	5,300		5,100	4,400		4,000	3,200					
170		3,800	4,600		4,600	3,900		3,600	2,800					
180		40	19,700						11,400			7,600		
	50	19,000						11,000			7,200			
	60	17,400	15,700		14,900	12,600		10,600	9,500	7,400	5,900		4,900	
	70	14,100	15,100		14,400	12,000		10,100	9,100	6,900	5,700		4,700	
	80	12,200	13,400		12,800	11,400		9,800	8,800	6,500	5,400		4,000	
	90	10,500	11,600		11,100	10,100		8,600	7,700	5,200	4,600		3,400	
	100	9,100	10,000		9,500	8,700		7,500	6,400	4,400	3,700		2,800	
	110	8,000	8,600		8,300	7,400		6,400	5,500	3,700	3,100		2,400	
	120	7,000	7,600		7,100	6,400		5,700	4,700	2,700	2,400		1,800	
	130	6,200	6,500		6,300	5,600		4,900	4,100	2,000	1,800		1,500	
	140	5,500	5,800		5,600	4,900		4,400	3,600					
	150	5,000	5,100		4,900	4,300		3,900	3,200					
	160	4,400	4,600		4,400	3,900		3,600						
	170													

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HC-138A jib capacities — open throat boom (U.S. units)

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Boom length Feet	Rad dus Feet	20' jib				30' jib				Jib angle boom (jib offset degrees)				40' jib				50' jib				
		0°		15°		30°		0°		15°		30°		0°		15°		30°				
		Pounds				Pounds				Pounds				Pounds				Pounds				
180	160	4,300	4,100*	3,900*	3,400*	3,500*	3,100*	3,500*	3,100*	2,800*	2,600	2,100	3,500*	3,100*	2,800*	2,300*	3,100*	2,700*	2,300*	2,000*	1,800*	1,600*
	170	3,600	3,700	3,500*	3,100*	3,000	2,500	3,500*	3,100*	2,800*	2,600	2,100	3,100*	2,700*	2,300*	2,000*	2,700*	2,300*	2,000*	1,800*	1,600*	1,500*
	180	3,000																				
	190	2,400																				
	200																					
190	210																					
	40	19,900*	15,800*	13,000*	12,700*	15,000*	13,400*	11,400*	9,800*	8,400*	7,200*	6,300*	5,500*	4,900*	4,300*	3,800*	3,400*	2,800*	2,300*	2,000*	1,800*	1,500*
	50	18,100*	14,100*	12,500*	12,100*	13,400*	11,400*	9,800*	8,400*	7,200*	6,300*	5,500*	4,900*	4,300*	3,800*	3,400*	2,800*	2,300*	2,000*	1,800*	1,500*	1,500*
	60	14,600*	12,000*	10,700*	10,600*	11,400*	9,800*	8,400*	7,300*	6,100*	5,200*	4,400*	3,800*	3,300*	2,900*	2,500*	2,100*	1,800*	1,500*	1,500*	1,500*	1,500*
	70	12,500*	10,200*	9,100*	9,000*	9,800*	8,400*	7,200*	6,300*	5,500*	4,900*	4,300*	3,800*	3,300*	2,900*	2,500*	2,100*	1,800*	1,500*	1,500*	1,500*	1,500*
	80	10,700*	8,800*	7,700*	7,600*	8,400*	7,200*	6,300*	5,500*	4,900*	4,300*	3,800*	3,300*	2,900*	2,500*	2,100*	1,800*	1,500*	1,500*	1,500*	1,500*	1,500*
	90	9,300*	7,500*	6,600*	6,500*	7,200*	6,300*	5,500*	4,900*	4,300*	3,800*	3,300*	2,900*	2,500*	2,100*	1,800*	1,500*	1,500*	1,500*	1,500*	1,500*	1,500*
	100	8,100*	6,600*	5,700*	5,700*	6,300*	5,500*	4,900*	4,300*	3,800*	3,300*	2,900*	2,500*	2,100*	1,800*	1,500*	1,500*	1,500*	1,500*	1,500*	1,500*	1,500*
	110	7,100*	5,700*	4,900*	4,900*	5,500*	4,900*	4,300*	3,800*	3,300*	2,900*	2,500*	2,100*	1,800*	1,500*	1,500*	1,500*	1,500*	1,500*	1,500*	1,500*	1,500*
	120	6,200*	5,000*	4,400*	4,300*	4,900*	4,300*	3,800*	3,300*	2,900*	2,500*	2,100*	1,800*	1,500*	1,500*	1,500*	1,500*	1,500*	1,500*	1,500*	1,500*	1,500*
	130	5,500*	4,500*	4,000*	3,800*	4,300*	3,800*	3,400*	3,000*	2,500*	2,200*	2,000*	1,800*	1,500*	1,500*	1,500*	1,500*	1,500*	1,500*	1,500*	1,500*	1,500*
	140	4,800*	4,000*	3,600*	3,400*	3,800*	3,400*	3,000*	2,700*	2,400*	2,200*	2,000*	1,800*	1,500*	1,500*	1,500*	1,500*	1,500*	1,500*	1,500*	1,500*	1,500*
	150	4,300*	3,600*	3,200*	3,000*	3,400*	3,000*	2,700*	2,400*	2,200*	2,000*	1,800*	1,500*	1,500*	1,500*	1,500*	1,500*	1,500*	1,500*	1,500*	1,500*	1,500*
	160	3,800*	3,200*	2,800*	2,700*	3,100*	2,800*	2,400*	2,100*	1,900*	1,800*	1,500*	1,500*	1,500*	1,500*	1,500*	1,500*	1,500*	1,500*	1,500*	1,500*	1,500*
	170	3,400	2,800																			
	180	2,700																				
	190	2,200																				
	200	1,700																				
	210																					

HC-138A jib capacities — open throat boom (U.S. units)

Refer to Notes on

Notes — tubular jib lifting capacities

1. The capacities included in this chart are the maximum allowable under ideal job conditions based on machine standing level on firm supporting surface, on fully extended and set outriggers, with tires free of supporting surface. Capacities are based on 85% 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.
2. Capacities are based on freely suspended loads and make no allowance for such factors as the effect of wind, supporting surface conditions, 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 or other suspended gear.

3. All jib capacities are for 'on outrigger' working areas as defined on the working areas drawing in applicable lifting crane capacity chart. Capacities for 360° swing applicable only when power hydraulic front center jack, in addition to front and rear outriggers, is set in proper working position.
4. Capacities are limited to boom and jib described in this chart and with 10' 0" high jib mast properly assembled in working position.
5. The pinned telescopic boom live mast must be used in the extended 23' position for all capacities on this chart.
6. For boom lengths exceeding 140', boom midpoint suspension pendants are required.
7. Jib cannot be mounted on open throat boom length exceeding 190'.

8. Capacities are for 20', 30', 40' and 50' jib lengths only.
9. Machine equipped with "AB" upper counterweight — do not swing over side until outriggers have been set.
10. Least stable rated position is over the side.
11. For lifting loads greater than 16,800 lbs., 2-part jib load hoist line (3/4" Type "N" wire rope) is required. For single part jib hoist line operation, 3/4" Type "P" wire rope is recommended (maximum capacity based on wire rope strength is 16,800 lbs.).
12. Refer to all notes on applicable lifting crane capacity chart in addition to these notes.
13. Capacities apply only to the machine as originally manufactured and normally equipped by FMC Corporation, Cable Crane and Excavator Division.



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