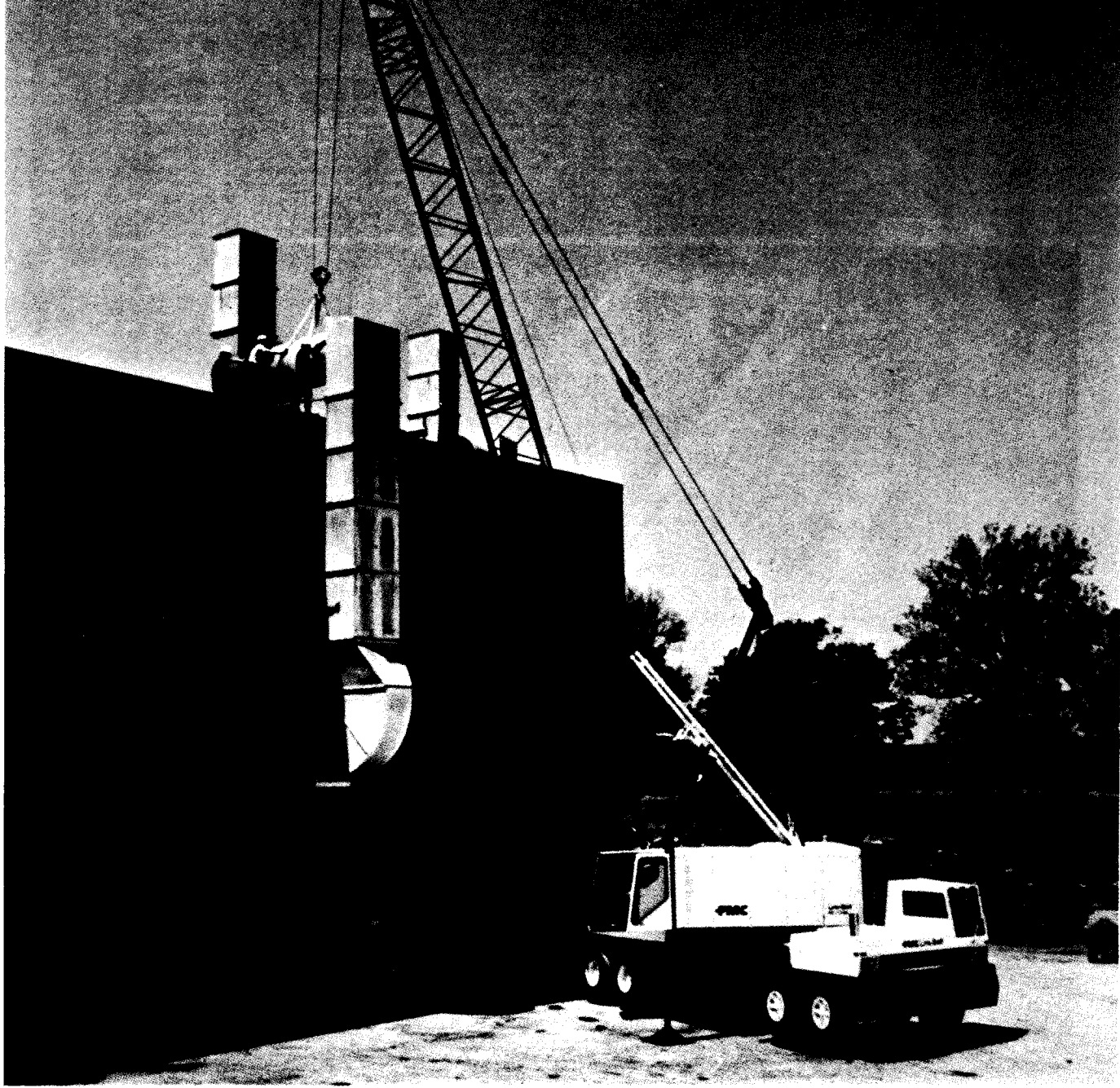


Link-Belt®

HC-11

Wire Rope Truck Crane

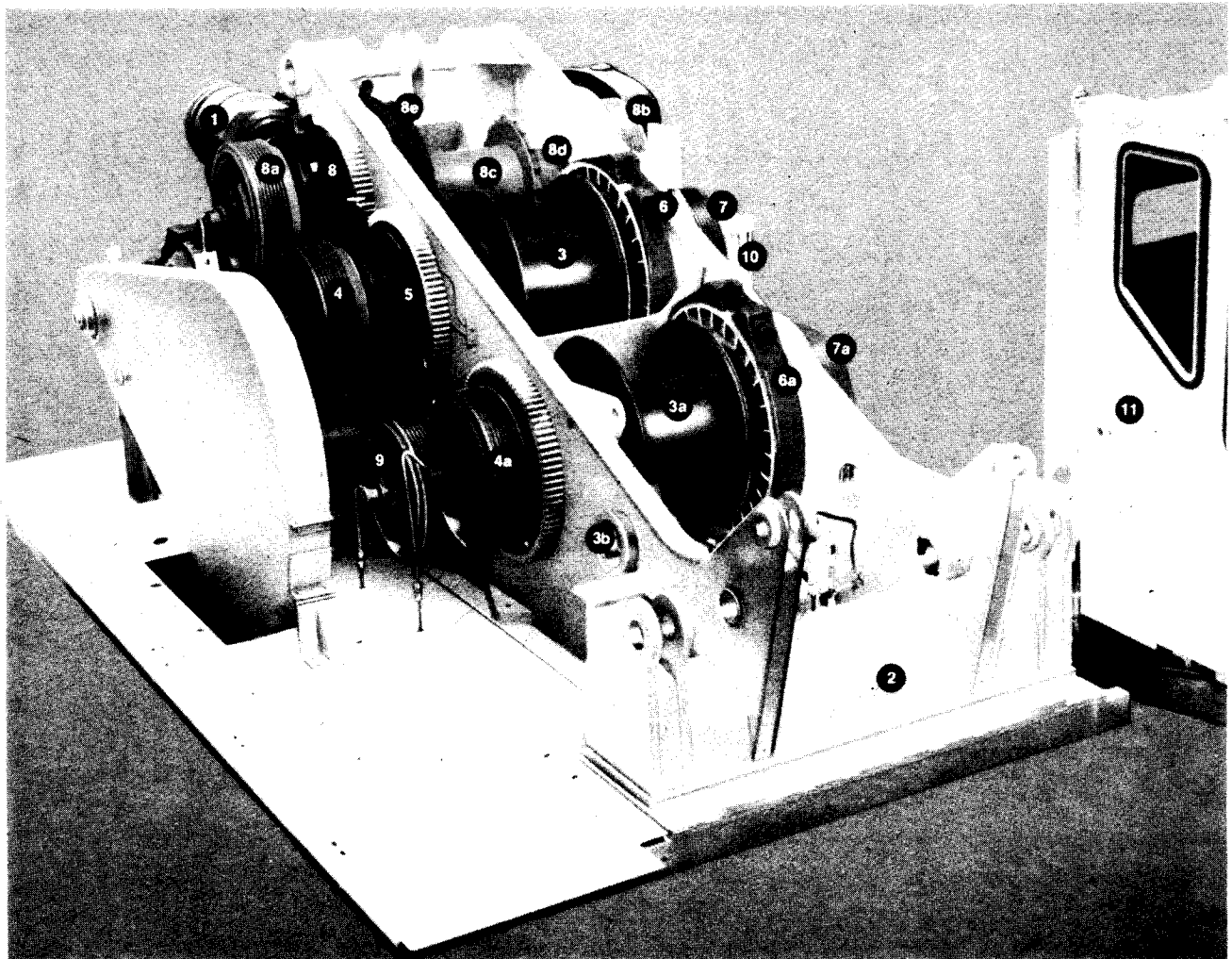
75-ton (68.02 metric ton)



FMC's exclusive low-profile Full-Function machinery design

Speed-o-Matic® power hydraulic control system plus 2-shoe clutches

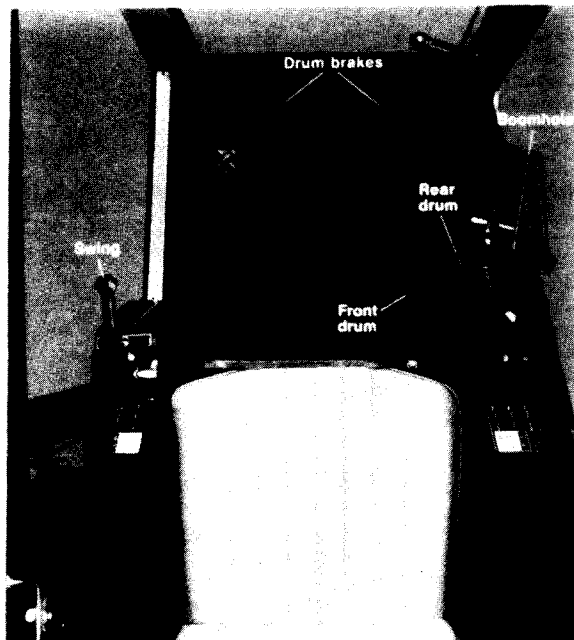
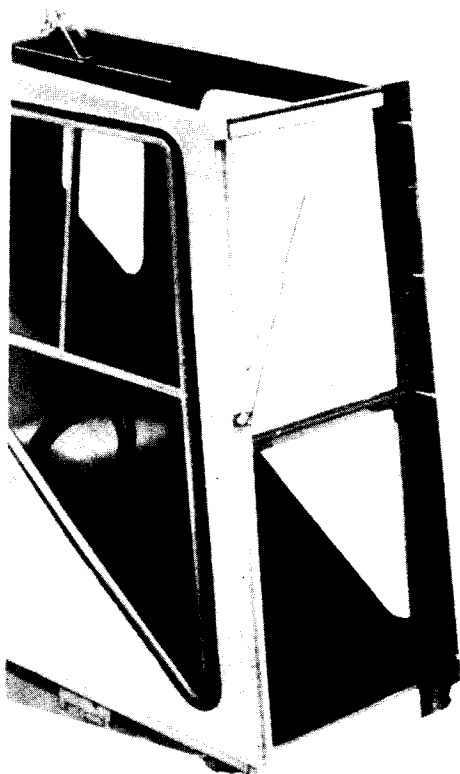
- 1 **Engine:** Diesel with single stage torque converter (3-stage optional).
- 2 **Frame:** Finely-welded and stress relieved for strength and durability; fine bore accuracy for proper shaft and gear alignment. This results in less component wear and lower maintenance cost.
- 3 **3a., 3b. Rope drums:** Large diameter rear (3) and front (3a) rope drums accommodate up to 1,000' (305 m) of 1/2" (19 mm) diameter rope. Independent 3rd drum is optional and mounts in bores indicated as (3b).
- 4 **4a. Hoist clutches:** Two-shoe, rear (4) front (4a).
- 5 **Independent planetary hoist:** (Optional) Provides up to 70% increase in hoist line speed. (See page 190.27)
- 6 **6a. Drum brakes:** Mechanically operated by foot pedals. Separated from hoist clutches (4, 4a) to eliminate heat transfer, resulting in cooler brakes and clutches for increased service life.
- 7 **7a. Power load lowering clutches:** Independent; 2-shoe for powering down light loads and controlled lowering of heavier loads. Standard on rear drum (7), optional on front drum (7a). (Only clutch drums visible.)
- 8 **8a., 8b., 8c., 8d., 8e. Boom hoist:** Independent with two-speed boom lowering. Planetary drive (8) is standard for control of long booms/jib lowering. Optional 2-shoe clutch (8a) for increased speed of shorter boom/jib lowering. Boom hoisting with 2-shoe clutch (8b). (Only clutch drum visible.) Large diameter rope drum (8c) with integral ratchet wheel (8d). Manually controlled pawl locks ratchet wheel and rope drum in lowering direction. Rope drum brake (8e) is automatically spring applied and power hydraulically released.
- 9 **9 Swing:** Independent. Two-shoe clutches transmit swing power into the swing pinion. (Only right hand clutch and drum are visible.)
- 10 **Speed-o-Matic power hydraulic control power package:** (Not visible, mounts near front of engine.) Refer to diagram on page 190.23.
- 11 **Operator cab and controls:** Insulated and isolated for sound level reduction. The forward location greatly improves the operator's ability to see his work on the ordinary, as well as many specialized loading jobs.



The 75-ton (68.02 metric ton) HC-138A Link-Belt® truck crane features the FMC exclusive stylized cab design for more effective operator performance.

The power train is FMC's exclusive **Full-Function design**. A precision built, all-gear drive unit that permits independent or simultaneous performance of all the crane functions.

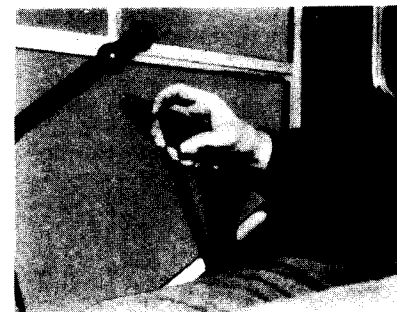
The modular and humanized **operator cab** is designed for arm-chair control and optimum visibility. Upholstered seat, arm rest, sound reduction materials, etc. are all standard equipment.



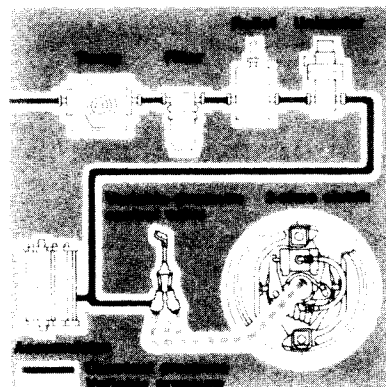
Operator cab

To assist operator in precision load hoisting or lowering particularly with long boom/jib, **drum rotation indicator buttons** on the drum clutch control levers pulsate whenever rope drums rotate to indicate both load speed and direction.

For superb control of all the crane functions, the HC-138A incorporates the exclusive **Speed-o-Matic power**



Drum rotation indicator buttons



Speed-o-Matic power hydraulic control system

hydraulic control system and 2-shoe clutches. Short throw levers on operator's control consoles actuate variable pressure valves from which oil under pressure is metered to the 2-shoe clutch cylinders. Clutches can be engaged to any degree for smooth acceleration/deceleration of swing, load hoist/lowering and the boomhoist.

Carrier designed and manufactured by FMC's Crane and Excavator Division

Luxurious carrier cab insulated and isolated for sound level reduction

The model HC-138A carrier is designed with a 100,000 p.s.i. (689 500 kPa) quench and tempered, high-strength alloy steel frame for optimum weight-to-strength ratio — an important consideration in the HC-138A axle loadings for machine transportability.

The **carrier cab** interior provides a touch of luxury for the operator. The cab is insulated and isolated from the frame by rubber mounts to reduce shock and sound levels. Upholstered side panels, luxury instrument panel, excellent gauge visibility, floor carpet, large glass area, bucket seat with safety belt, right and left-hand mirrors, windshield washers and wipers, heater, defroster fan, and tachometer are all standard equipment on the HC-138A.

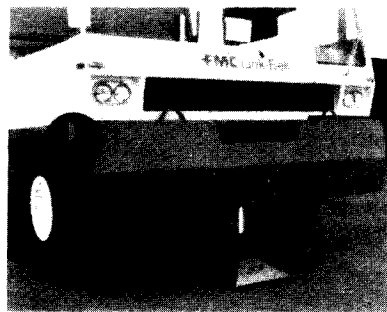
The carrier **diesel engine** drives through a **Roadranger 15-speed transmission**, into a **2-speed** (direct and low) **auxiliary transmission**, powering the rear axle **planetaries**. This **power train** allows for negotiating steep grades, maneuvering through traffic, and travelling at highway speeds up to 40.2 m.p.h. (64.68 km/hr). In addition, the low range provides for on-the-job precision travel movement as low as 1.0 m.p.h. (1.61 km/hr).

Eight-wheel air brakes are standard. When lifting "on tires", parking brake can be set from the carrier cab. The brake chambers on the rear tandem also provide emergency braking.



Carrier cab

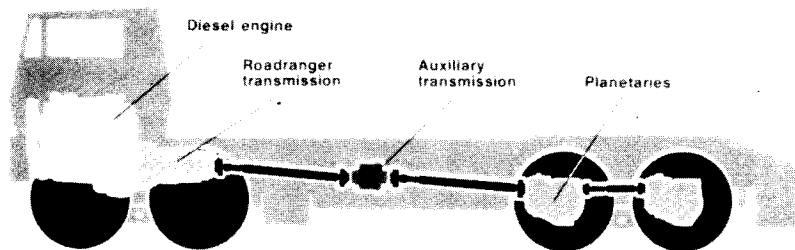
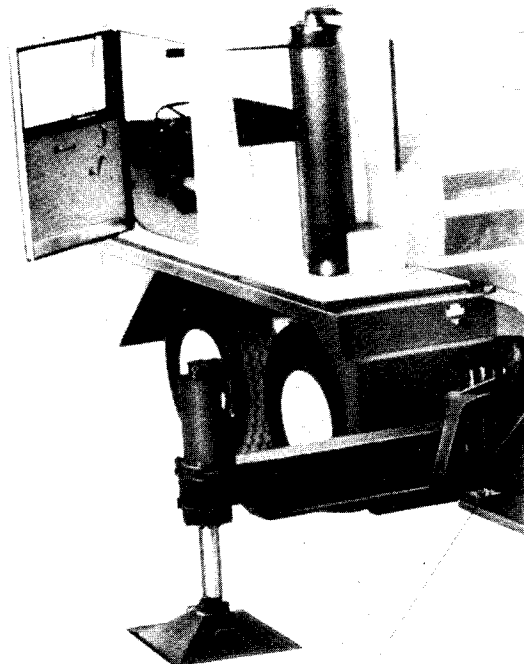
Hydraulic **front center jack** (optional) allows handling of the over-the-side outrigger capacities throughout 360° swing (refer to p.190.26). The control is located on the right front corner of the carrier.



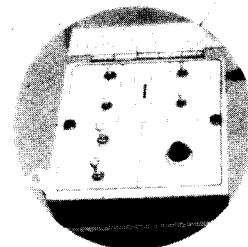
Front center jack

Power for the hydraulic outriggers is from the carrier engine-driven pump, with individual control of beams and jacks. This permits leveling the machine on reasonably uneven terrain. Once the outriggers are set, a **check valve** fixed to the jack cylinder "locks" the oil in the cylinder and the outrigger jacks in place. For assistance in leveling, sight levels are located near the outrigger boxes.

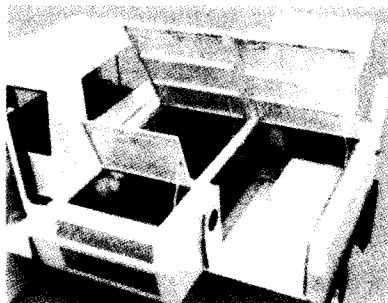
Both front and rear outrigger boxes are pin-connected to the carrier frame for quick removal to reduce over-all weight for highway travel. Removal of four pins in each frees the outrigger from the



Carrier power train



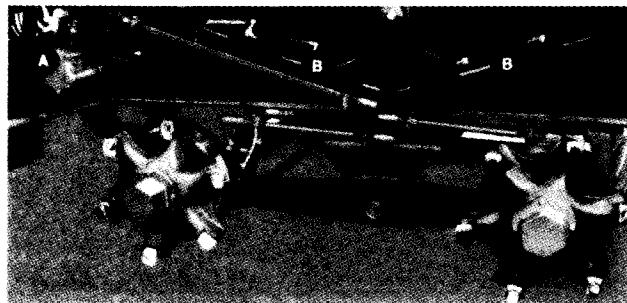
Outrigger control panel



Engine accessibility

carrier. Hydraulic lines are equipped with quick disconnects. Also, to facilitate removal of the front outrigger assembly, the jack cylinder can be disassembled from one outrigger beam. (See p.190.28)

The **outrigger control panels** are located on each side of the carrier. Control panels are equipped with an engine "throttle" control.



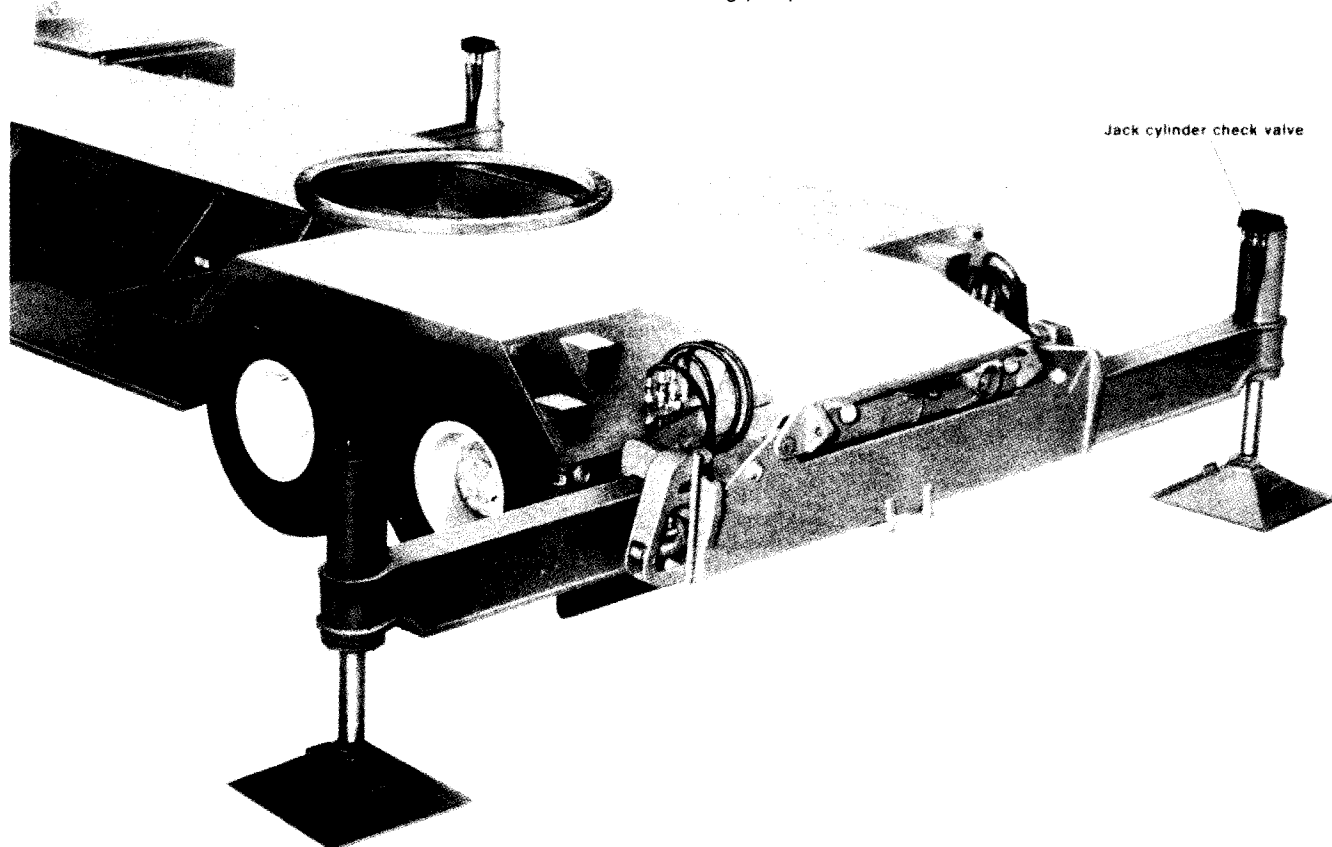
Power assist hydraulic steer

For complete service **accessibility to the engine** and accessories, the hood can be quickly raised.

The **power assist hydraulic steer** components are mounted to the side of the carrier frame for protection. The operator controls steering gear **(A)** and steer linkage. A hydraulic control valve activated by the steering gear **(A)** directs oil from the steering pump to the

interconnected, double-acting cylinders **(B)** for power assist hydraulic steer. This design results in equal power assist force when steering right or left.

The revolving upperstructure is mounted to the carrier by a turntable bearing with integral swing gear.



Pin-connected tubular boom and jib

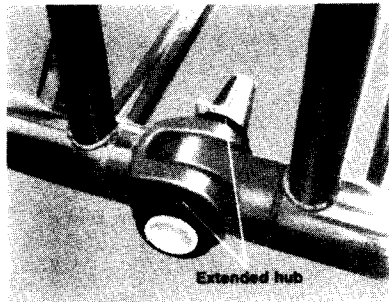
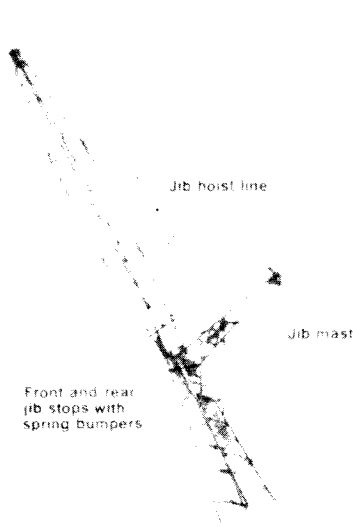
Two types of boom top sections available

Up to 200' (60.96 m) main boom, or 190' (57.91 m) boom plus 50' (15.24 m) jib

The HC-138A features a pin-connected tubular boom and jib. Tubular boom chord members are 100,000 p.s.i. (689 500 kPa) quench and tempered, high-strength alloy steel.

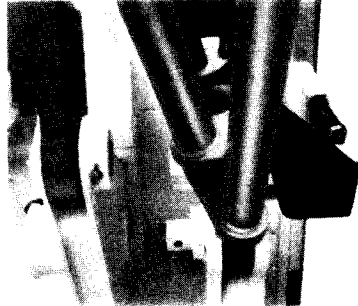
The tubular boom represents the latest advances in boom design and is precision built with special automatic machine tools and fixtures. Machine-coped lattice ends match the contour of the round, alloy steel, tubular chords and are carefully welded in place with 360° welds.

The method of welding the in-line pin lugs to the round tube chord minimizes stress concentration and is an exclusive development of FMC engineering/manufacturing technology. The



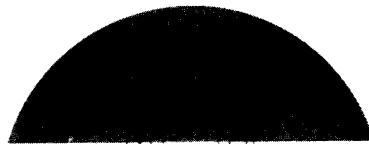
Boom pin-connection

extended hub on the female connection serves as an anchor for the jib guyline, mid-point pendants, or for pendant lines when assembling the boom. The **boom pin-connection** tapered end pin is held in place with a latchpin.



Boom hoist limiting device

The front center jack allows handling of the **over-the-side outrigger capacities throughout 360° swing**. This gives the HC-138A greater on-the-job working capability for increased truck crane performance and profits.

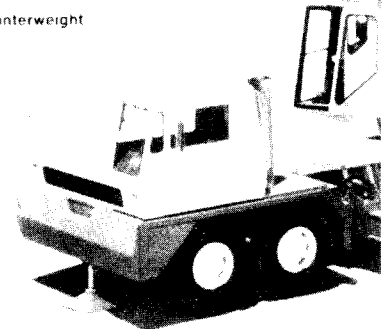


Over-the-side outrigger capacities throughout 360° swing with front center jack

The **boomhoist limiting device** improves close-radius operation. When an attempt is made to raise the boom closer than minimum radius, this mechanism acts to disengage the boom raising clutch and simultaneously engage the boom hoist brake.

The basic jib is 20' (6.10 m) in length, 2-piece, pin-connected with 10' (3.05 m) extensions available for a maximum jib length of 50' (15.24 m). The jib mounts to the boom top section. The jib mast is pinned to the jib base. The front and rear jib stops are telescoping type. The jib peak sheave and the jib mast rope deflector sheaves are all mounted on anti-friction bearings to eliminate the need for daily lubrication.

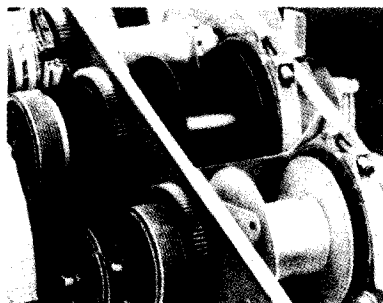
Front bumper counterweight



The flexibility of **Full-Function** design makes possible 2-speed front and rear rope drums and, at the same time, retain standard speed for swing, boomhoist and third drum. This exclusive, **independent planetary arrangement** (item 5, p.190.22) can be mounted at **either or both hoist and lowering ends** of the drum shafts.

Planetary is mounted between the drum gear and 2-shoe clutch drum. The planetary arrangement can provide up to 70% increased hoist speed or can be modified to provide 40% decreased speed for either hoisting or lowering. Engaging the 2-shoe clutch provides standard rope speed; planetaries are controlled by push button located on each hoist drum control lever.

To meet user's job requirements, the HC-138A crane boom can be equipped with one of two types of boom top sections — **hammerhead** or **open throat**. All boom peak sheaves are



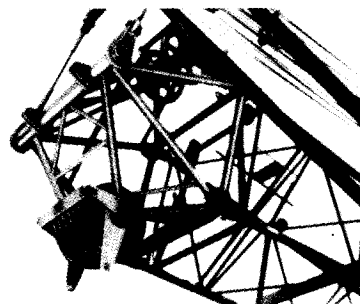
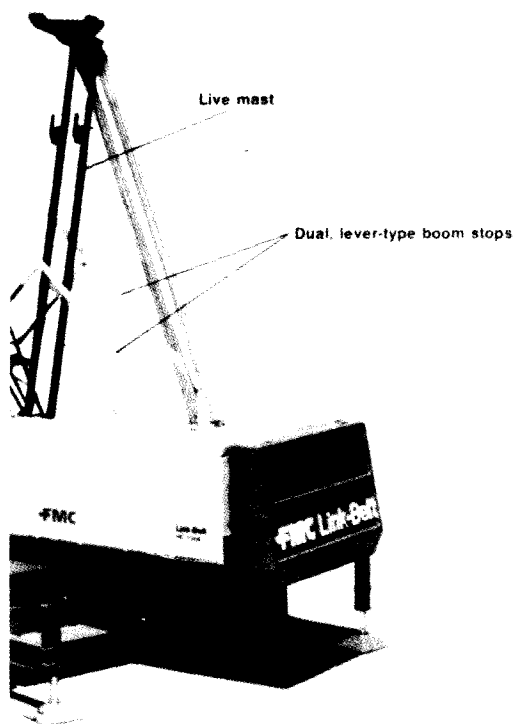
Independent planetary driven 2-speed drums mounted on anti-friction bearings to eliminate the need for daily lubrication. The lower boom section is 20' (6.10 m) with various length boom extensions available.

boom is 190' (57.91 m) and boom and jib is 180' (54.86 m) plus 50' (15.24 m).

The 20' (6.10 m) **open throat top section** is equipped with five sheaves for multiple reeving to handle rated loads of 75 tons (68.02 metric ton) with boom length of 40' (12.19 m). Maximum length boom is 200' (60.96 m) and boom and jib is 190' (57.91 m) plus 50' (15.24 m).

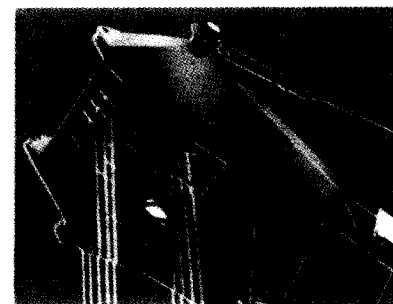
Dual, lever-type boom stops, each with spring-loaded bumpers, are standard. When the **live mast** is used for assembly purposes, the boom stops can be arranged to serve as mast stops.

The boom live mast is equipped with sheaves and can be used for handling boom sections, counterweight, etc.



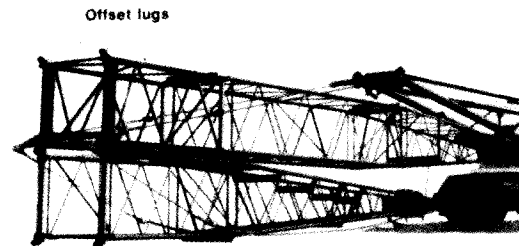
Hammerhead top section

The 5' (1.52 m) **hammerhead top section** is equipped with five sheaves for multiple reeving to handle rated loads of 75 tons (68.02 metric ton) with boom length of 25' (7.62 m). Maximum length



Open throat top section

Boom folding with the 20' (6.10 m) open throat top section is possible with the insertion of an optional 10' (3.05 m) boom section equipped with **offset lugs**. In addition, tubular **struts with offset lugs** are installed to mate with the offset lugs on the special section.

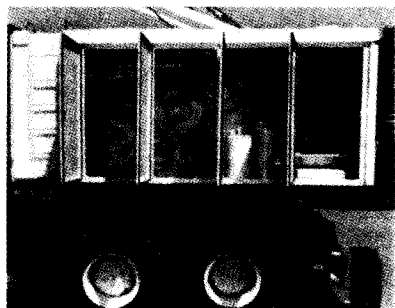


Struts with offset lugs
Boom folding with 20' (6.10 m) open throat top section

Designed for fast stripdown of outriggers, boom and counterweight

Tag axle available for greater weight distribution

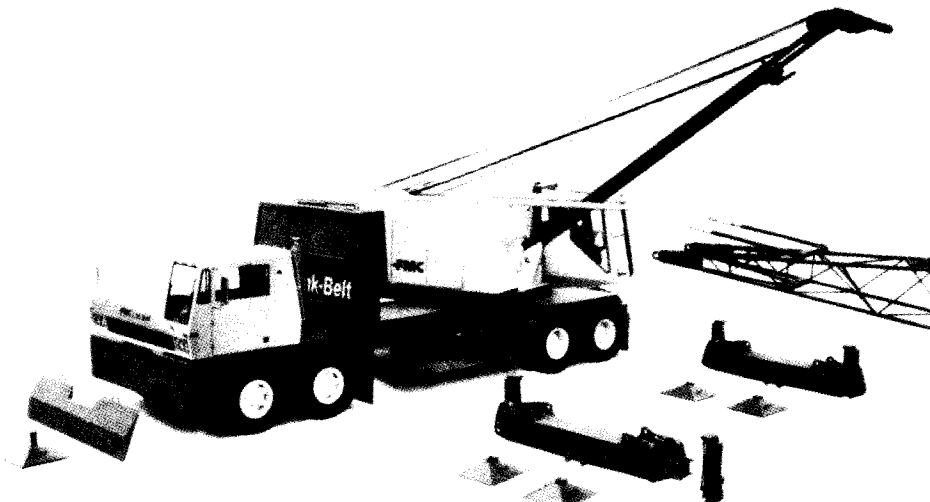
The HC-138A upperstructure machinery is fully enclosed within FMC's exclusive, distinguished and stylized cab. The cab is equipped with multiple side doors for accessibility to the machinery.



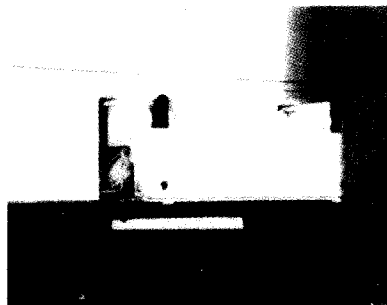
Machinery accessibility

Fast stripdown of the carrier bumper counterweight, upper counterweight and outrigger assemblies for job-to-job transportability was an important design consideration.

Bumper counterweight can be lifted off the two bumper lugs. Removal of two pins in each frees the front and rear outrigger assembly from the carrier. One jack assembly can be disassembled from the beam to facilitate removal of the front outrigger assembly from beneath the carrier. Hydraulic lines are equipped with quick disconnects. Floats are pin-connected to the jack cylinder rods. The crane upper counterweight can be lowered (or raised) hydraulically in just seconds. Counterweight is held in place

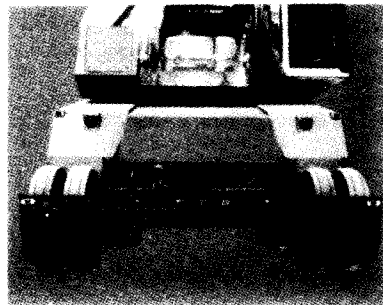


Fast stripdown of outriggers and counterweights



Hydraulic counterweight lowering

by the hydraulically controlled frustums. Time consuming use of counterweight bolts or mechanical devices have been eliminated.



Rear tag axle

The HC-138A can be equipped with a tag axle, allowing greater over-all payload.

Carrier features

- FMC designed and manufactured
Benefit - Dependability and performance
- Luxurious operator cab
Benefit - Increased operator efficiency
- Roadranger 15-speed transmission
Benefit - Job-to-job mobility
- Front center jack
Benefit - "Over-the-side" lift capacity through 360° swing
- Auxiliary 2-speed transmission
Benefit - Low speed on-the-job travel

Upperstructure features

- Operator's cab forward mounted
Benefit - Greater operator visibility
- Full-Function gear train design
Benefit - Permits independent or simultaneous crane functions for increased performance and production
- Speed-o-Matic® power hydraulic system
Benefit - Proven and dependable. No daily system maintenance
- Interchangeable 2-shoe clutches
Benefit - Serviceability, accessibility and performance

- High speed planetary drive for load hoist
Benefit - Increases hoist cycles for greater production

Attachment features

- Choice of boom top sections
Benefit - User job flexibility
- Tubular boom with 100,000 p.s.i. (689 500 kPa) alloy steel chords
Benefit - Dependability
- Exclusive boom pin-connection design with extended hub on female connection
Benefit - Faster boom assembly and disassembly

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

FMC Corporation Cable Crane & Excavator Division Cedar Rapids Iowa 52406

Link-Belt® cranes/excavators manufactured in Cedar Rapids Iowa • Lexington & Bowling Green Kentucky • Ontario Canada • Milan Italy • Queretaro Mexico & Nagoya Japan (under license)

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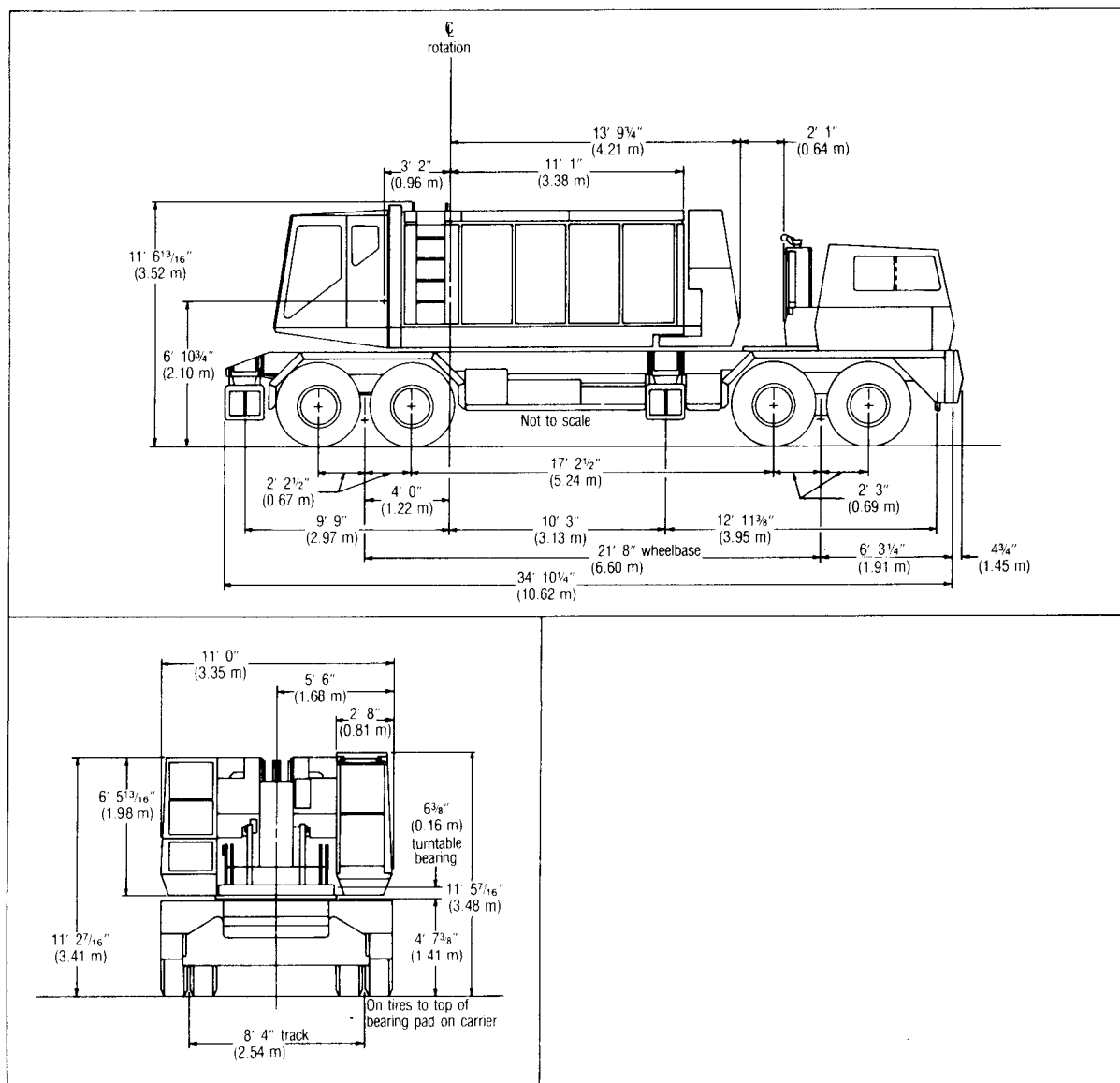
Printed in U.S.A

General Specifications

Link-Belt® 75-ton (68.03 metric ton)

Wire rope truck crane

HC-138A



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	—	—
— open throat boom	12' 4"	3.76
— hammerhead boom	11' 5"	3.48
Height over boom live mast with basic length boom in travel position over front of carrier	—	—
— open throat boom	13' 4"	4.06
— hammerhead boom	13' 4"	4.06

Axle loadings — approximate

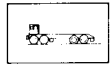
Based on HC-138A crane upper equipped with 18,000 lb. (8 165 kg) counterweight "A", boom lowering planetary, rear drum hoisting and lowering clutches, GM 6-71N with single stage torque converter [Ⓞ] mounted on FMC Bx4, 11' 0" (3.35 m) wide, 260" (6.60 m) wheelbase carrier with GM 6V-92TA diesel, 14.00x24 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. (680 kg) front bumper counterweight	Basic machine gross weight		Upper facing front				Upper facing rear				
			Front		Rear		Front		Rear		
	**	Lbs.	kg	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	
Component weights			Front		Rear		Front		Rear		
	Lbs.	kg	Lbs.	kg	Lbs.	kg	Lbs.	kg	Lbs.	kg	
Adjust axle loadings accordingly for the following components:											
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	—	—	13,870	6 291	4,130	1 874	
Upper counterweight "B"	12,000	5 443	4,810	2 182	—	—	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	6,080	+ 2 758	
25' (7.62 m) basic hammerhead boom with accessories	+ 4,160	+ 1 887	+ 4,880	+ 2 214	—	—	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	+ 5,580	+ 2 585	
Front and rear outrigger floats (4)	+ 500	+ 227	+ 140	+ 64	+ 350	+ 163	+ 140	+ 64	+ 350	+ 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

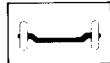
Outer race, with integral swing (ring) gear bolted to carrier.



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).



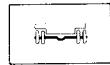
Front axles

Shuler FTKC-34L; bogie beam mounted tandem axles, single wheels. Track — 110 $\frac{1}{4}$ " (2.80 m).



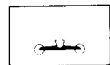
Bogie

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.

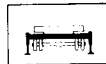


Tires

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; 16 $\frac{1}{2}$ " x 7" (0.42 x 0.18 m); total effective lining area, 455 square inches (2 936 cm²) per axle. Front wheels; 17- $\frac{1}{4}$ " x 4" (0.44 x 0.10 m); total effective lining area, 248 square inches (1 600 cm²) per axle.

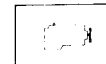
Parking — Brakes on four rear wheels spring applied; air control valve on dash.

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- $\frac{1}{2}$ " (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.



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

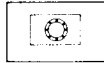
Turning circle diameter	Curb clearance circle diameter	Vehicle clearance circle diameter	
		Over outside of front bumper	Over outside of front bumper counterweight "A"
Centerline of outer front tire	Outside of outer front tire	Over outside of front bumper	Over outside of front bumper counterweight "A"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

Revolving upperstructure



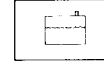
Frame

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

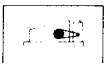
Diesel; full pressure lubrication, oil filter, air cleaner, hour meter, foot and optional hand throttles. Manual control shutdown for GM engine, electrical shutdown for Cummins engine.

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	4¼" x 5" (0.11 x 0.13 m)	4¼" x 5" (0.11 x 0.13 m)	5½" 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

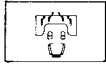
Triple roller chain enclosed in oil tight chain case with integral lubrication system.



Machinery gear train

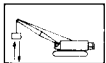
"Full Function" design, two-directional power available to all operating shafts; shafts mounted on anti-friction bearings in precision bored machinery side housings. All load hoist, swing, and boomhoist functions independent of one another. Components such as gears, pinions, chain wheels, brake drums 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



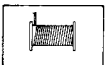
Control system

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.

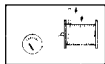


Drum brakes

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

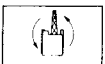
Front and rear main drums – Brakes 32" (0.81 m) diameter, 4" (101.60 mm) face width.

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.



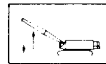
Swing clutches

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.

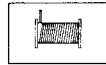
Swing lock – Mechanically controlled pawl engages external teeth of turntable bearing swing (ring) gear.

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.



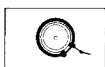
Boom hoist clutch –

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

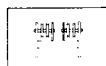
Environmental cab, modular type isolated from upper machinery cab. Tinted tempered glass panels in all windows, hand grab rail, adjustable, cushioned seat with head rest, arm rests on control consoles, dry chemical fire extinguisher. Cab heater/defroster and windshield wiper *optional*.



Machinery cab

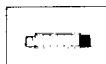
Equipped with warning horn, hinged doors on two sides, rear, and top. Removable panels for machinery access, roof-top access ladder, and skid resistant finish on roof.

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



Gantry bail

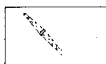
Contains six 12" (0.30 m) root diameter sheaves, mounted on anti-friction bearings, for 14-part boomhoist wire rope reeving.



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 $\frac{3}{8}$ " (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.

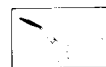
Boom connections – In-line, tapered pins.

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 $\frac{1}{2}$ " (0.47 m) root diameter head sheaves, plus one or two (optional) idler sheaves to guide load hoist wire rope onto head sheaves.



Jib

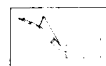
Tubular; basic two-piece 20' (6.10 m) long; 30" (0.76 m) wide, 24" (0.61 m) deep at connections. Alloy steel tubular chords 1 $\frac{1}{2}$ " (38.10 mm) outside diameter.

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 $\frac{1}{4}$ " (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.

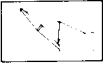
— **Jib stops** – Telescoping type; pinned from jib mast to boom top section and from jib mast to jib base section.

Items applicable to all booms and jibs



Boom stops

Dual lever-type; connected to bail shaft and top of boom base section; spring-loaded bumper ends.

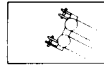


Boom live mast

Supports boomhoist bridle, boom pendants, and boom midpoint suspension pendants. Hydraulically extends to maximum 23' 0" (7.01 m) — **required** operating position for all capacities when using booms with open throat top section and 40' (12.19 m) through 200' (60.96 m) long booms with hammerhead top section. Mast mechanically retracts to 19' 1" (5.82 m) height — **required** operating position for hammerhead boom lengths 25' (7.62 m) through 30' (9.14 m), and may be fully retracted to 19' 0" (5.79 m) position to reduce overall height for travel.

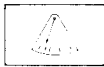
Note: Boom live mast in extended 23' 0" (7.01 m) position may be used as short boom in machine/boom assembly or dismantling, but it is not intended for general crane service. Refer to lifting crane capacity chart for boom live mast lifting capacities.

— *Mast stops.* Welded to boom backstops; needed when using live mast as short boom.



Boomhoist bridle and spreader bar

Serves as connection for boom suspension system. Bridle contains seven 12" (0.30 m) root diameter sheaves, mounted on anti-friction bearings, for 14-part boomhoist wire rope reeving. Auxiliary bail may be attached to bridle and contains two 15⁷/₈" (0.40 m) root diameter, bronze bushed sheaves, to permit reeving wire rope suspension for use of boom live mast as short boom. Spreader bar provides attachment point for boom main pendants and boom midpoint suspension pendants.



Boom angle indicator

Pendulum type; mounted on boom base section.

Deflector rollers — Deflect load hoist wire rope off boom to avoid chafing; steel rollers mounted on anti-friction bearings. One roller furnished with each boom extension, and one with open throat boom top section.

Boom pendants — Standard; furnished for basic boom lengths plus appropriate length pendants with each boom extension.

Boom midpoint suspension pendants. Assist in lifting long booms off ground. Required for open throat and hammerhead booms 150' (45.72 m) through 200' (60.96 m) long. Pendants must connect on boom at point 80' (24.38 m) from boom feet.

Auxiliary equipment



Tagline

Optional. Spring wound drum type, mounted on crane boom. Rud-O-Matic® model 648, single barrel; cable pull off drum, 60' (18.29 m) to 75' (22.76 m) from neutral.

Load hoist wire ropes — Main load hoist wire rope standard. Jib load hoist wire rope (whipline) furnished with machine **only** if jib is ordered.

Hook blocks — Blocks, or weighted ball with swivel hook, *optional* — refer to price list.

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



FMC Corporation Cable Crane and Excavator Division Cedar Rapids Iowa 52406

Link-Belt® cranes & excavators manufactured in: Cedar Rapids Iowa • Lexington & Bowling Green Kentucky • Ontario Canada • Milan Italy • Queretaro Mexico • Nagoya Japan (under license)

HC-138A Performance Specifications

Boom live mast — lifting capacities when used as short boom ①.

Extended mast only		Upper without counterweight				Upper with "A" or "AB" counterweight	
Load radius		On tires		On outriggers		On outriggers only	
Feet	meters	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms
10' to 13'	3.05 to 3.96	30,000	13 608	30,000	13 608	30,000	13 608
13' to 19'	3.96 to 5.79	18,000	8 165	30,000	13 608	30,000	13 608
19' to 25'	5.79 to 7.62	12,000	5 443	18,000	8 165	18,000	8 165

① Boom live mast must be fixed in extended 23' 0" (7.01 m) long position when used as short boom. Use of live mast as short boom is intended for machine assembly or disassembly only. It should not be used for general crane service. When using live mast as short boom three parts of 3/4" (19 mm) diameter Type "N" wire rope are required.

Wire rope and rope drum data —

Main load hoist wire rope length — using 3/4" (19 mm) diameter wire rope.

Parts of line	Boom lengths															
	25' (7.62 m)		30' (9.14 m)		40' (12.19 m)		50' (15.24 m)		60' (18.29 m)		70' (21.34 m)		80' (24.38 m)		90' (27.43 m)	
	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters
1	75	22.86	85	25.91	105	32.00	125	38.10	145	44.20	165	50.29	185	56.39	205	62.48
2	105	32.00	120	36.58	150	45.72	180	54.86	210	64.01	240	73.15	270	82.30	300	91.44
3	135	41.15	155	47.24	195	59.44	235	71.63	275	83.82	315	96.01	355	108.20	395	120.40
4	165	50.29	190	57.91	240	73.15	290	88.39	340	103.63	390	118.87	440	134.11	490	149.35
5	195	59.44	225	68.58	285	86.87	345	105.16	405	123.44	465	141.73	525	160.02	585	178.31
6	225	68.58	260	79.25	330	100.58	400	121.92	470	143.26	540	164.59	610	185.93	680	207.26
7	255	77.72	295	89.92	375	114.30	455	138.68	535	163.07	615	187.45	695	211.84	775	236.22
8	285	86.87	330	100.58	420	128.02	510	155.45	600	182.88	690	210.31	780	237.74	870	265.18
9	315	96.01	365	111.25	465	141.73	565	172.21	665	202.69	765	233.17	865	263.65	965	294.13
10	345	105.16	400	121.92	510	155.45	620	188.98	730	222.50	840	256.03	950	289.56		

Parts of line	Boom lengths															
	100' (30.48 m)		110' (33.53 m)		120' (38.58 m)		130' (39.62 m)		140' (42.67 m)		150' (45.72 m)		160' (48.77 m)		170' (51.82 m)	
	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters
1	225	68.58	245	74.68	265	80.77	285	86.87	305	92.96	325	99.06	345	105.16	365	111.25
2	330	100.58	360	109.73	390	118.87	420	128.02	450	137.16	480	146.30	510	155.45	540	164.59
3	435	132.59	475	144.78	515	156.97	555	169.16	595	181.36	635	193.55	675	205.74	715	217.93
4	540	164.59	590	179.83	640	195.07	690	210.31	740	225.55	790	240.79	840	256.03	890	271.27
5	645	196.60	705	214.88	765	233.17	825	251.46	885	269.75	945	288.04				
6	750	228.60	820	249.94	890	271.27										
7	855	260.60	935	284.99												
8	960	292.61														

Parts of line	Boom lengths					
	180' (54.86 m)		190' (57.91 m)		200' (60.96 m)	
	Feet	meters	Feet	meters	Feet	meters
1	385	117.35	405	123.44	425	129.54
2	570	173.74	600	182.88	630	192.02
3	755	230.12	795	242.32	835	254.51
4	940	286.51	990	301.75		

Note: Allowable boom lengths — hammerhead: 25' (7.62 m) — 200' (60.96 m); open throat: 40' (12.19 m) — 200' (60.96 m).

HC-138A performance specifications

Wire rope and rope drum data — (continued)

Jib load hoist rope lengths (whipline) — using 3/4" (19 mm) diameter wire rope.

Jib length	Parts of line	Boom lengths															
		40' (12.19 m)		50' (15.24 m)		60' (18.29 m)		70' (21.34 m)		80' (24.38 m)		90' (27.43 m)		100' (30.48 m)		110' (33.53 m)	
		Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters
20' (6.10 m)	1	165	50.29	185	56.39	205	62.48	225	68.58	245	74.68	265	80.77	285	86.87	305	92.96
	2	230	70.10	260	79.25	290	88.39	320	97.54	350	106.68	380	115.82	410	124.97	440	134.11
30' (9.14 m)	1	185	56.39	205	62.48	225	68.58	245	74.68	265	80.77	285	86.87	305	92.96	325	99.06
	2	260	79.25	290	88.39	320	97.54	350	106.68	380	115.82	410	124.97	440	134.11	470	143.26
40' (12.19 m)	1	205	62.49	225	68.58	245	74.68	265	80.77	285	86.87	305	92.96	325	99.06	345	105.16
	2	290	88.39	320	97.54	350	106.68	380	115.82	410	124.97	440	134.11	470	143.26	500	152.40
50' (15.24 m)	1	225	68.58	245	74.68	265	80.77	285	86.87	305	92.96	325	99.06	345	105.16	365	111.25
	2	320	97.54	350	106.68	380	115.82	410	124.97	440	134.11	470	143.26	500	152.40	530	161.54

Jib length	Parts of line	Boom lengths															
		120' (36.58 m)		130' (39.62 m)		140' (42.67 m)		150' (45.72 m)		160' (48.77 m)		170' (51.82 m)		180' (54.86 m)		190' (57.91 m)	
		Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters
20' (6.10 m)	1	325	99.06	345	105.16	365	111.25	385	117.35	405	123.44	425	129.54	445	135.64	465	141.73
	2	470	143.26	500	152.40	530	161.54	560	170.69	590	179.83	620	188.98	650	198.12	680	207.26
30' (9.14 m)	1	345	105.16	365	111.25	385	117.35	405	123.44	425	129.54	445	135.64	465	141.73	485	147.83
	2	500	152.40	530	161.54	560	170.69	590	179.83	620	188.98	650	198.12	680	207.26	710	216.41
40' (12.19 m)	1	365	111.25	385	117.35	405	123.44	425	129.54	445	135.64	465	141.73	485	147.83	505	153.92
	2	530	161.54	560	170.69	590	179.83	620	188.98	650	198.12	680	207.26	710	216.41	740	225.55
50' (15.24 m)	1	385	117.35	405	123.44	425	129.54	445	135.64	465	141.73	485	147.83	505	153.92	525	160.02
	2	560	170.69	590	179.83	620	188.98	650	198.12	680	207.26	710	216.41	740	225.55	770	234.70

Drum wire rope capacities —

Wire rope layer	Front or rear drum — 14" (0.36 m) root diameter smooth lagging 3/4" (19 mm) wire rope				Third or boomhoist drum — 10 1/2" (0.27 m) root diameter smooth lagging 3/4" (19 mm) wire rope			
	Rope per layer		Total wire rope		Rope per layer		Total wire rope	
	Feet	meters	Feet	meters	Feet	meters	Feet	meters
1	77	23.47	77	23.47	60	18.29	60	18.29
2	84	25.60	161	49.07	67	20.42	127	38.71
3	91	27.74	252	76.81	74	22.56	201	61.26
4	98	29.87	350	106.68	81	24.69	282	85.95
5	104	31.70	454	138.38	88	26.82	370	112.78
6	111	33.83	565	172.21	← Not applicable →			
7	117	35.66	682	207.87				
8	124	37.80	806	245.67				
9	130	39.62	936	285.29				
10	135	41.15	1,071	326.44				

Rope size and type —

Wire rope application	Size and type used
Boomhoist	3/4" (19 mm) diameter, Type "N"
Main load hoist	3/4" (19 mm) diameter, Type "N"
Jib load hoist (1-part)	3/4" (19 mm) diameter, Type "K"
Jib load hoist (2-part)	3/4" (19 mm) diameter, Type "N"
Third drum	3/4" (19 mm) diameter, Type "N"
Boom pendants	1 1/4" (32 mm) diameter, Type "N"
Boom midpoint suspension pendants	7/8" (22 mm) diameter, Type "N"
Jib frontstay line	3/4" (19 mm) diameter, Type "N"
Jib backstay line	3/4" (19 mm) diameter, Type "N"

Wire rope types
Type "K" — 19 x 7 non-rotating improved plow steel, preformed, wire rope center core.
Type "N" — 6 x 25 (6 x 19 class), filler wire, extra improved plow steel, preformed, independent wire rope center, right lay, regular lay.

HC-138A performance specifications

Wire rope and rope drum data — (continued)

Available line speed and line pull^① — based on GM 6-71 diesel engine with Allison single stage torque converter developing maximum net horsepower as defined by P.C.S.A. Standard #1.

Attachment	Front or rear drum							Third drum						
	Root diameter	Wire rope diameter		Line speed — first layer		Line pull — first layer		Root diameter	Wire rope diameter		Line speed — first layer		Line pull — first layer	
		Inches	mm	F.p.m.	m/min	Pounds	kilograms		Inches	mm	F.p.m.	m/min	Pounds	kilograms
Crane	14" (0.36 m)	¾	19	107	32.61	37,200	16 874	10½" (0.27 m)	¾	19	88	26.82	42,200	19 142

Permissible line speed and pull^① — based on Type "N" wire rope strength, single part line.

Attachment	Front or rear drum							Third drum						
	Root diameter	Wire rope diameter		Line speed — first layer		Line pull — first layer		Root diameter	Wire rope diameter		Line speed — first layer		Line pull — first layer	
		Inches	mm	F.p.m.	m/min	Pounds	kilograms		Inches	mm	F.p.m.	m/min	Pounds	kilograms
Crane	14" (0.36 m)	¾	19	169	51.51	16,800	7 620	10½" (0.27 m)	¾	19	142	43.28	16,800	7 620

① Maximum permissible load on single part of line — 16,800 lbs. (7 620 kg) for ¾" (19 mm) Type "N" wire rope; 9,900 lbs. (4 491 kg) for ¾" (19 mm) Type "K" wire rope.

Load hoisting performance^② — line speeds are maximum for full throttle operation (1,800 r.p.m. full load speed) with GM 6-71 diesel engine equipped with Allison single stage torque converter.

Front or rear drum — 14" (0.36 m) root diameter smooth laggings — using ¾" (19 mm) wire rope													
Line speed													
Single line load ^③		First layer rope				Fifth layer rope				Tenth layer rope			
		Standard		High speed ^④		Standard		High speed ^④		Standard		High speed ^④	
Pounds	kilograms	F.p.m.	m/min	F.p.m.	m/min	F.p.m.	m/min	F.p.m.	m/min	F.p.m.	m/min	F.p.m.	m/min
1,000	454	225	68.58	377	114.91	314	95.71	525	160.02	425	129.54	704	214.58
5,000	2 268	211	64.31	334	101.80	287	87.48	439	133.81	373	113.69	544	165.81
10,000	4 536	193	58.83	280	85.34	252	76.81			310	94.49		
15,000	6 804	176	53.64										
16,800	7 620	169	51.51										

Third drum — 10½" (0.27 m) root diameter smooth lagging — using ¾" (19 mm) wire rope							
Line speed							
Single line load ^③		First layer		Third layer		Fifth layer	
		F.p.m.	m/min	F.p.m.	m/min	F.p.m.	m/min
Pounds	kilograms	F.p.m.	m/min	F.p.m.	m/min	F.p.m.	m/min
1,000	454	181	55.17	229	69.80	276	84.12
5,000	2 268	172	52.43	213	64.92	253	77.11
10,000	4 536	159	48.46	193	58.83	223	67.97
15,000	6 804	146	44.50	173	52.73	196	59.74
16,800	7 620	142	43.28	167	50.90	188	57.30

② Data applicable only to specific engine package described above. If required, similar data for other engine packages available from Sales Office.

③ Maximum permissible load for ¾" (19 mm) Type "N" wire rope is 16,800 lbs. (7 620 kg) per part of line.

④ Machine equipped with optional high speed planetary drum drive units.

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



Link-Belt® HC-138A Performance Specifications

Boom live mast — lifting capacities when used as short boom ①

Extended mast only		Upper without counterweight				Upper with "A" or "AB" counterweight	
Load radius		On tires		On outriggers		On outriggers only	
Feet	meters	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms
10 to 13 ①	3.05 to 3.26	30,000	13,608	30,000	13,608	30,000	13,608
13 to 14	3.96 to 5.23	18,000	8,165	30,000	13,608	30,000	13,608
19 to 25	5.49 to 7.62	12,000	5,443	18,000	8,165	18,000	8,165

① Boom live mast must be fixed in extended 23.17 (7.07 m) long position when used as short boom. Use of live mast as short boom is intended for machine assembly or disassembly only. It should not be used for general crane service. Lifting maximum 30,000 lbs (13,608 kg) capacity requires 3-parts 3/4" (19 mm) diameter Type N wire rope.

② Live mast must never be operated at less than 10.35 (3.15 m) radius.

Wire rope and rope drum data

Main load hoist wire rope length — for tubular booms using 3/4" (19 mm) diameter wire rope. ①②

Parts of line	Boom lengths															
	25 (7.62 m) ①		30 (9.14 m) ①		40 (12.19 m)		50 (15.24 m)		60 (18.29 m)		70 (21.34 m)		80 (24.38 m)		90 (27.43 m)	
	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters
1	75	22.86	85	25.91	195	32.00	125	38.10	145	44.20	165	50.29	185	56.39	205	62.48
2	105	32.00	120	36.58	150	45.72	180	54.86	210	64.01	240	73.15	270	82.30	300	91.44
3	135	41.15	155	47.24	195	59.44	235	71.63	275	83.82	315	96.01	355	108.20	395	120.40
4	165	50.29	190	57.91	240	73.15	290	88.39	340	103.63	390	118.87	440	134.11	490	149.35
5	195	59.44	225	68.58	285	86.87	345	105.16	405	123.44	465	141.73	525	160.02	585	178.31
6	225	68.58	260	79.25	330	100.58	400	121.92	470	143.26	540	164.59	610	185.93	680	207.26
7	255	77.72	295	89.92	375	114.30	455	138.68	535	163.07	615	187.45	695	211.84	775	236.22
8	285	86.87	330	100.58	420	128.02	510	155.45	600	182.88	690	210.31	780	237.74	870	265.18
9	315	96.01	365	111.25	465	141.73	565	172.21	665	202.69	765	233.17	865	263.65	965	294.13
10	345	105.16	400	121.92	510	155.45	620	188.98	730	222.50	840	256.03	950	289.56		

Parts of line	Boom lengths															
	100 (30.48 m)		110 (33.53 m)		120 (36.58 m)		130 (39.62 m)		140 (42.67 m)		150 (45.72 m)		160 (48.77 m)		170 (51.82 m)	
	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters
1	225	68.58	245	74.68	265	80.77	285	86.87	305	92.96	325	99.06	345	105.16	365	111.25
2	330	100.58	360	109.73	390	118.87	420	128.02	450	137.16	480	146.30	510	155.45	540	164.59
3	435	132.59	475	144.78	515	156.97	555	169.16	595	181.36	635	193.55	675	205.74	715	217.93
4	540	164.59	590	179.83	640	195.07	690	210.31	740	225.55	790	240.79	840	256.03	890	271.27
5	645	196.60	705	214.88	765	233.17	825	251.46	885	269.75	945	288.04				
6	750	228.60	820	249.94	890	271.27										
7	855	260.60	935	284.99												
8	960	292.61														

Parts of line	Boom lengths					
	180 (54.86 m)		190 (57.91 m)		200 (60.96 m)	
	Feet	meters	Feet	meters	Feet	meters
1	385	117.35	405	123.44	425	129.54
2	570	173.74	600	182.88	630	192.02
3	755	230.12	795	242.32	835	254.51
4	940	286.51	990	301.75		

① Hammerhead boom lengths: 25 to 200 (7.62 to 60.96 m).

② Open throat boom lengths: 40 to 200 (12.19 to 60.96 m).

③ Hammerhead boom only.

HC-138A performance specifications

Wire rope and rope drum data — (continued)

Jib load hoist rope lengths (whipline) — using 3/4" (19 mm) diameter wire rope

Jib length	Parts of line	Boom lengths															
		40' (12.19 m)		50' (15.24 m)		60' (18.29 m)		70' (21.34 m)		80' (24.38 m)		90' (27.43 m)		100' (30.48 m)		110' (33.53 m)	
		Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters
20' (6.10 m)	1	165	50.29	185	56.39	205	62.48	225	68.58	245	74.68	265	80.77	285	86.87	305	92.96
	2	230	70.10	260	79.25	290	88.39	320	97.54	350	106.68	380	115.82	410	124.97	440	134.11
30' (9.14 m)	1	185	56.39	205	62.48	225	68.58	245	74.68	265	80.77	285	86.87	305	92.96	325	99.06
	2	260	79.25	290	88.39	320	97.54	350	106.68	380	115.82	410	124.97	440	134.11	470	143.26
40' (12.19 m)	1	205	62.49	225	68.58	245	74.68	265	80.77	285	86.87	305	92.96	325	99.06	345	105.16
	2	290	88.39	320	97.54	350	106.68	380	115.82	410	124.97	440	134.11	470	143.26	500	152.40
50' (15.24 m)	1	225	68.58	245	74.68	265	80.77	285	86.87	305	92.96	325	99.06	345	105.16	365	111.25
	2	320	97.54	350	106.68	380	115.82	410	124.97	440	134.11	470	143.26	500	152.40	530	161.54

Jib length	Parts of line	Boom lengths															
		120' (36.58 m)		130' (39.62 m)		140' (42.67 m)		150' (45.72 m)		160' (48.77 m)		170' (51.82 m)		180' (54.86 m)		190' (57.91 m)	
		Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters
20' (6.10 m)	1	325	99.06	345	105.16	365	111.25	385	117.35	405	123.44	425	129.54	445	135.64	465	141.73
	2	470	143.26	500	152.40	530	161.54	560	170.69	590	179.83	620	188.98	650	198.12	680	207.26
30' (9.14 m)	1	345	105.16	365	111.25	385	117.35	405	123.44	425	129.54	445	135.64	465	141.73	485	147.83
	2	500	152.40	530	161.54	560	170.69	590	179.83	620	188.98	650	198.12	680	207.26	710	216.41
40' (12.19 m)	1	365	111.25	385	117.35	405	123.44	425	129.54	445	135.64	465	141.73	485	147.83	505	153.92
	2	530	161.54	560	170.69	590	179.83	620	188.98	650	198.12	680	207.26	710	216.41	740	225.55
50' (15.24 m)	1	385	117.35	405	123.44	425	129.54	445	135.64	465	141.73	485	147.83	505	153.92	525	160.02
	2	560	170.69	590	179.83	620	188.98	650	198.12	680	207.26	710	216.41	740	225.55	770	234.70

Drum wire rope capacities

Wire rope layer	Front or rear drum — 14' (0.36 m) root diameter smooth lagging 3/4" (19 mm) wire rope				Third or boomhoist drum — 10 1/2" (0.27 m) root diameter smooth lagging 3/4" (19 mm) wire rope			
	Rope per layer		Total wire rope		Rope per layer		Total wire rope	
	Feet	meters	Feet	meters	Feet	meters	Feet	meters
1	77	23.47	77	23.47	60	18.29	60	18.29
2	84	25.60	161	49.07	67	20.42	127	38.71
3	91	27.74	252	76.81	74	22.56	201	61.26
4	98	29.87	350	106.68	81	24.69	282	85.95
5	104	31.70	454	138.38	88	26.82	370	112.78
6	111	33.83	565	172.21				
7	117	35.66	682	207.87				
8	124	37.80	806	245.67				
9	130	39.62	936	285.29				
10	135	41.15	1,071	326.44				

Rope size and type

Wire rope application	Size and type used
Boomhoist	3/4" (19 mm) diameter, Type "N"
Main load hoist	3/4" (19 mm) diameter, Type "N"
Jib load hoist (1-part)	3/4" (19 mm) diameter, Type "K"
Jib load hoist (2-part)	3/4" (19 mm) diameter, Type "N"
Third drum	3/4" (19 mm) diameter, Type "N"
Boom pendants	1 1/4" (32 mm) diameter, Type "N"
Boom midpoint suspension pendants	1 1/8" (22 mm) diameter, Type "N"
Jib frontstay line	3/4" (19 mm) diameter, Type "N"
Jib backstay line	3/4" (19 mm) diameter, Type "N"

Wire rope types
Type "K" — 19 x 7 non-rotating improved plow steel, preformed, wire rope center core.
Type "N" — 6 x 25 (6 x 19 class), filler wire, extra improved plow steel, preformed, independent wire rope center, right lay, regular lay.

HC-138A performance specifications

Wire rope and rope drum data — (continued)

Available line speed and line pull^① — based on GM 6-71N diesel engine with Allison single stage torque converter developing maximum net horsepower as defined by P.C.S.A. Standard #1.

Attachment	Front or rear drum							Third drum						
	Root diameter	Wire rope diameter		Line speed first layer		Line pull first layer		Root diameter	Wire rope diameter		Line speed first layer		Line pull first layer	
		Inches	mm	F.p.m.	m/min	Pounds	kilograms		Inches	mm	F.p.m.	m/min	Pounds	kilograms
Crane	14 (0.36 m)	3/4	19	107	32.61	37,200	16,874	10 1/2 (0.27 m)	3/4	19	88	26.82	42,200	19,142

Permissible line speed and pull^① — based on Type "N" wire rope strength, single part line.

Attachment	Front or rear drum							Third drum						
	Root diameter	Wire rope diameter		Line speed first layer		Line pull first layer		Root diameter	Wire rope diameter		Line speed first layer		Line pull first layer	
		Inches	mm	F.p.m.	m/min	Pounds	kilograms		Inches	mm	F.p.m.	m/min	Pounds	kilograms
Crane	14 (0.36 m)	3/4	19	169	51.51	16,800	7,620	10 1/2 (0.27 m)	3/4	19	142	43.28	16,800	7,620

Load hoisting performance — line speeds are maximum for full throttle operation (1,800 r.p.m. full load speed) with GM 6-71N diesel engine equipped with Allison single stage torque converter.

Front or rear drum — 14 (0.36 m) root diameter smooth laggings — using 3/4 (19 mm) wire rope													
Line speed													
Single line load ^①		First layer rope				Fifth layer rope				Tenth layer rope			
		Standard		High speed ^②		Standard		High speed ^②		Standard		High speed ^②	
Pounds	kilograms	F.p.m.	m/min	F.p.m.	m/min	F.p.m.	m/min	F.p.m.	m/min	F.p.m.	m/min	F.p.m.	m/min
1,000	454	225	68.58	377	114.91	314	95.71	525	160.02	425	129.54	704	214.58
5,000	2,268	211	64.31	334	101.80	287	87.48	439	133.81	373	113.69	544	165.81
10,000	4,536	193	58.83	280	85.34	252	76.81			310	94.49		
15,000	6,804	176	53.64										
16,800	7,620	169	51.51										

Third drum — 10 1/2 (0.27 m) root diameter smooth lagging — using 3/4 (19 mm) wire rope							
Line speed							
Single line load ^①		First layer		Third layer		Fifth layer	
		F.p.m.	m/min	F.p.m.	m/min	F.p.m.	m/min
Pounds	kilograms	F.p.m.	m/min	F.p.m.	m/min	F.p.m.	m/min
1,000	454	181	55.17	229	69.80	276	84.12
5,000	2,268	172	52.43	213	64.92	253	77.11
10,000	4,536	159	48.46	193	58.83	223	67.97
15,000	6,804	146	44.50	173	52.73	196	59.74
16,800	7,620	142	43.28	167	50.90	188	57.30

① Maximum permissible load on single part of line — 16,800 lbs. (7,620 kg) for 3/4 (19 mm) Type "N" wire rope; 12,400 lbs. (5,625 kg) for 3/4 (19 mm) Type "K" wire rope.

② Machine equipped with optional high speed planetary drum drive units



HC-138A performance specifications

Wire rope and rope drum data — (continued)

Load hoisting performance — line speeds are maximum for full throttle operation (1,800 r.p.m. full load speed) with GM 6-71N diesel engine equipped with Twin Disc 3 stage torque converter.

Single line load [Ⓛ]		Front or rear drum — 14" (0.36 m) root diameter smooth laggings — using ¾" (19 mm) wire rope											
		Line speed											
		First layer rope				Fifth layer rope				Tenth layer rope			
		Standard		High speed [Ⓢ]		Standard		High speed [Ⓢ]		Standard		High speed [Ⓢ]	
Pounds	kilograms	F.p.m.	m/min	F.p.m.	m/min	F.p.m.	m/min	F.p.m.	m/min	F.p.m.	m/min	F.p.m.	m/min
1,000	454	271	82.60	460	140.21	381	116.13	646	196.90	518	157.89	879	267.92
5,000	2 268	247	75.29	386	117.65	339	103.39	478	145.69	421	128.32	599	182.58
10,000	4 536	217	66.14	309	94.18	270	82.30			344	104.85		
15,000	6 804	189	57.61										
16,800	7 620	185	56.39										

Load hoisting performance — line speeds are maximum for full throttle operation (2,000 r.p.m. full load speed) with GM 4-71N diesel engine equipped with Allison single stage torque converter.

Single line load ¹		Front or rear drum — 14" (0.36 m) root diameter smooth laggings — using ¾" (19 mm) wire rope											
		Line speed											
		First layer rope				Fifth layer rope				Tenth layer rope			
		Standard		High speed [Ⓢ]		Standard		High speed [Ⓢ]		Standard		High speed [Ⓢ]	
Pounds	kilograms	F.p.m.	m/min	F.p.m.	m/min	F.p.m.	m/min	F.p.m.	m/min	F.p.m.	m/min	F.p.m.	m/min
1,000	454	313	95.40	527	160.63	439	133.81	734	223.72	594	181.05	985	300.23
5,000	2 268	295	89.92	459	139.90	397	121.00	567	172.82	510	155.45	562	171.30
10,000	4 536	263	80.16	283	86.26	299	91.14			299	91.14		
15,000	6 804	199	60.66										
16,800	7 620	177	53.95										

Load hoisting performance — line speeds are maximum for full throttle operation (1,800 r.p.m. full load speed) with Cummins N855C220 diesel engine equipped with Twin Disc 3 stage torque converter.

Single line load [Ⓛ]		Front or rear drum — 14" (0.36 m) root diameter smooth laggings — using ¾" (19 mm) wire rope											
		Line speed											
		First layer rope				Fifth layer rope				Tenth layer rope			
		Standard		High speed [Ⓢ]		Standard		High speed [Ⓢ]		Standard		High speed [Ⓢ]	
Pounds	kilograms	F.p.m.	m/min	F.p.m.	m/min	F.p.m.	m/min	F.p.m.	m/min	F.p.m.	m/min	F.p.m.	m/min
1,000	454	263	80.16	440	134.11	367	111.86	610	185.93	495	150.88	815	248.41
5,000	2 268	243	74.07	375	114.30	327	99.67	473	144.17	416	126.80	544	165.81
10,000	4 536	215	65.53	275	83.82	265	80.77			297	90.53		
15,000	6 804	183	55.78										
16,800	7 620	170	51.82										

[Ⓛ] Maximum permissible load on single part of line — 16,800 lbs. (7 620 kg) for ¾" (19 mm) Type "N" wire rope; 12,400 lbs. (5 625 kg) for ¾" (19 mm) Type "K" wire rope.

[Ⓢ] Machine equipped with optional high speed planetary drum drive units.

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



FMC Corporation Cable Crane and Excavator Division Cedar Rapids Iowa 52406

Link-Belt® cranes & excavators manufactured in: Cedar Rapids Iowa • Lexington & Bowling Green Kentucky • Ontario Canada • Milan Italy • Queretaro Mexico & Nagoya Japan (under license)



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

PCSA Class 13-407

Refer to NOTES page 191.26.

Boom — tubular; 54" (1.37 m) wide, 44" (1.12 m) deep with open throat top section, 1¼" (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	Not applicable				180	54.86	Not applicable	
"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 tires^②											
"A" upper and "A" bumper	Minimum	40	12.19	Not applicable				40	12.19	Not applicable	
	Maximum	140	42.67	Not applicable				120	36.58	Not applicable	

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 tires ^②									
		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	Not applicable				120	36.58	Not applicable	
"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.

HC-138A lifting crane capacities — with open throat boom

PCSA Class 13-407
Refer to NOTES page 191.26.

Boom — tubular; 54" (1.37 m) wide, 44" (1.12 m) deep with open throat top section, 1¼" (32 mm) diameter boom pendants, boom live mast, and boom midpoint suspension pendants as required.

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

Counterweights — Refer to charts page 191.21.

Boom				"A" upper & "A" bumper counterweights								"AB" upper & "A" bumper counterweights					
Length	Radius		Angle	Boom point height		On outriggers				On tires (static)				On outriggers only			
	Feet	meters	Degrees	Feet	meters	Over rear		Over side and 360° swing		Over rear		Over side		Over rear		Over side and 360° swing	
						Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms
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*
	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*
	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*
	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*
	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*
	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*
	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*
	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*
	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*
	25	7.62	56.9	40' 5"	12.32	79,700*	36 151*	69,200	31 388	37,300	16 918	26,100	11 838	87,300*	39 598*	84,200	38 192
	30	9.14	47.9	36' 7"	11.14	62,800	28 485	51,100	23 178	29,400	13 335	20,300	9 207	70,900*	32 159*	62,400	28 304
	35	10.67	37.3	31' 1"	9.49	49,600	22 498	40,200	18 234	24,000	10 886	16,400	7 438	58,600	26 580	49,300	22 362
40	12.19	23.0	22' 6"	6.86	40,600	18 415	32,900	14 923	20,100	9 117	13,500	6 123	48,200	21 863	40,400	18 325	
50' (15.24 m)	12	3.66	79.8	56' 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*
	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*
	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*
	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*
	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*
	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*
	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*
	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*
	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*
	25	7.62	64.1	51' 11"	15.81	79,700*	36 151*	69,500	31 524	37,500	17 009	26,300	11 929	87,300*	39 598*	84,500	38 328
	30	9.14	57.5	49' 1"	14.96	63,100	28 621	51,400	23 314	29,600	13 426	20,500	9 298	70,900*	32 159*	62,700	28 440
	35	10.67	50.5	45' 5"	13.86	49,800	22 588	40,500	18 370	24,200	10 976	16,600	7 529	58,900	26 716	49,600	22 498
40	12.19	42.6	40' 9"	12.41	40,900	18 551	33,200	15 059	20,200	9 162	13,700	6 214	48,500	21 999	40,700	18 461	
50	15.24	20.5	24' 5"	7.44	29,700	13 471	23,900	10 840	14,900	6 758	9,800	4 445	35,400	16 057	29,600	13 426	
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*
	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*
	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*
	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*
	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*
	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*
	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*
	20	6.10	73.7	64' 6"	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*
	25	7.62	68.7	62' 9"	19.14	79,900*	36 242*	70,000	31 751	37,700	17 100	26,500	12 020	87,400*	39 643*	85,000	38 555
	30	9.14	63.4	60' 7"	18.46	63,500	28 803	51,800	23 496	29,800	13 517	20,700	9 389	71,000*	32 205*	63,100	28 621
	35	10.67	58.0	57' 9"	17.60	50,100	22 724	40,800	18 506	24,300	11 022	16,700	7 574	59,200	26 852	49,900	22 634
	40	12.19	52.1	54' 3"	16.54	41,200	18 688	33,400	15 149	20,400	9 253	13,900	6 304	48,800	22 135	41,000	18 597
50	15.24	38.7	44' 5"	13.53	30,000	13 607	24,100	10 931	15,100	6 849	10,000	4 535	35,600	16 147	29,800	13 517	
60	18.29	18.7	26' 2"	7.97	23,100	10 477	18,400	8 346	11,606	5 264	7,400	3 356	27,700	12 564	23,000	10 432	

⊙ ⊙ ⊙ — Refer to page 191.26.

HC-138A open throat boom						"A" upper & "A" bumper Ⓢ counterweights						"AB" upper & "A" bumper counterweights					
Length	Radius		Angle Degrees	Boom point height Ⓢ		On outriggers				On tires (static)				On outriggers only			
	Feet	meters		Feet	meters	Over rear		Over side and 360° swing Ⓢ		Over rear		Over side		Over rear		Over side and 360° swing Ⓢ	
					Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds
70' (21.34 m)	15	4.57	80.3	75' 11"	23.13	128,800*	58 422*	128,800*	58 422*	70,700*	32 068*	49,200*	22 316*	128,800*	58 422*	128,800*	58 422*
	16	4.88	79.4	75' 9"	23.08	126,300*	57 288*	126,300*	57 288*	68,100*	30 889*	46,500*	21 092*	126,300*	57 288*	126,300*	57 288*
	17	5.18	78.6	75' 6"	23.02	121,500*	55 111*	121,500*	55 111*	63,200*	28 667*	44,000*	19 958*	123,800*	56 154*	123,800*	56 154*
	18	5.49	77.8	75' 4"	22.95	115,900*	52 571*	115,900*	52 571*	58,400*	26 489*	41,600*	18 869*	120,600*	54 703*	120,600*	54 703*
	19	5.79	76.9	75' 1"	22.89	109,300*	49 577*	109,300*	49 577*	54,200*	24 584*	38,600*	17 508*	115,200*	52 253*	115,200*	52 253*
	20	6.10	76.1	74' 10"	22.81	102,900*	46 674*	102,900*	46 674*	50,600*	22 951*	35,900*	16 283*	110,200*	49 985*	110,200*	49 985*
	25	7.62	71.8	73' 5"	22.37	79,700*	36 151*	70,100*	31 796*	37,600*	17 055*	26,500*	12 020*	87,200*	39 553*	85,100*	38 600*
	30	9.14	67.5	71' 7"	21.81	63,500*	28 803*	51,800*	23 496*	29,700*	13 471*	20,600*	9 344*	70,800*	32 114*	63,200*	28 667*
	35	10.67	63.0	69' 3"	21.11	50,100*	22 724*	40,800*	18 506*	24,300*	11 022*	16,600*	7 529*	59,200*	26 852*	49,900*	22 634*
	40	12.19	58.3	66' 5"	20.25	41,200*	18 688*	33,400*	15 149*	20,300*	9 207*	13,800*	6 259*	48,800*	22 135*	41,000*	18 597*
	50	15.24	48.0	58' 11"	17.96	30,000*	13 607*	24,100*	10 931*	15,100*	6 849*	9,900*	4 490*	35,600*	16 147*	29,800*	13 517*
	60	18.29	35.7	47' 9"	14.56	23,200*	10 523*	18,500*	8 391*	11,600*	5 261*	7,400*	3 356*	27,700*	12 564*	23,000*	10 432*
70	21.34	17.3	27' 9"	8.45	18,600*	8 436*	14,700*	6 667*	9,200*	4 173*	5,600*	2 540*	22,400*	10 160*	18,500*	8 391*	
80' (24.38 m)	16	4.88	80.8	85' 10"	26.17	114,600*	51 981*	114,600*	51 981*	67,800*	30 753*	46,200*	20 955*	114,600*	51 981*	114,600*	51 981*
	17	5.18	80.0	85' 8"	26.12	112,600*	51 074*	112,600*	51 074*	63,100*	28 621*	43,700*	19 821*	112,600*	51 074*	112,600*	51 074*
	18	5.49	79.3	85' 6"	26.06	110,400*	50 076*	110,400*	50 076*	58,300*	26 444*	41,500*	18 824*	110,400*	50 076*	110,400*	50 076*
	19	5.79	78.6	85' 4"	26.00	108,400*	49 169*	108,400*	49 169*	54,100*	24 539*	38,500*	17 463*	108,400*	49 169*	108,400*	49 169*
	20	6.10	77.9	85' 1"	25.94	102,700*	46 583*	102,700*	46 583*	50,500*	22 906*	35,800*	16 238*	106,300*	48 216*	106,300*	48 216*
	25	7.62	74.2	83' 10"	25.56	79,400*	36 015*	70,100*	31 796*	37,500*	17 009*	26,400*	11 974*	86,900*	39 417*	85,100*	38 600*
	30	9.14	70.4	82' 3"	25.07	63,500*	28 803*	51,800*	23 496*	29,600*	13 426*	20,500*	9 298*	70,600*	32 023*	63,100*	28 621*
	35	10.67	66.6	80' 4"	24.47	50,000*	22 679*	40,800*	18 506*	24,100*	10 931*	16,600*	7 529*	59,100*	26 807*	49,900*	22 634*
	40	12.19	62.6	77' 11"	23.75	41,100*	18 642*	33,300*	15 104*	20,200*	9 162*	13,700*	6 214*	48,700*	22 089*	40,900*	18 551*
	50	15.24	54.2	71' 9"	21.87	29,900*	13 562*	24,100*	10 931*	15,000*	6 803*	9,800*	4 445*	35,500*	16 102*	29,800*	13 517*
	60	18.29	44.7	63' 2"	19.26	23,100*	10 477*	18,400*	8 346*	11,500*	5 216*	7,300*	3 311*	27,700*	12 564*	23,000*	10 432*
	70	21.34	33.3	50' 10"	15.51	18,500*	8 391*	14,700*	6 667*	9,100*	4 127*	5,500*	2 494*	22,400*	10 160*	18,400*	8 346*
80	24.38	16.2	29' 2"	8.90	15,300*	6 939*	11,900*	5 397*	7,300*	3 311*	4,200*	1 905*	18,500*	8 391*	15,200*	6 894*	
90' (27.43 m)	18	5.49	80.5	95' 8"	29.16	101,200*	45 903*	101,200*	45 903*	58,200*	26 399*	41,200*	18 688*	101,200*	45 903*	101,200*	45 903*
	19	5.79	79.9	95' 6"	29.11	98,600*	44 724*	98,600*	44 724*	54,000*	24 493*	38,400*	17 417*	98,600*	44 724*	98,600*	44 724*
	20	6.10	79.2	95' 4"	29.05	96,900*	43 953*	96,900*	43 953*	50,400*	22 861*	35,700*	16 193*	96,900*	43 953*	96,900*	43 953*
	25	7.62	76.0	94' 3"	28.72	79,200*	35 924*	70,100*	31 796*	37,400*	16 964*	26,300*	11 929*	86,600*	39 281*	85,000*	38 555*
	30	9.14	72.7	92' 10"	28.29	63,400*	28 757*	51,800*	23 496*	29,500*	13 380*	20,400*	9 253*	70,300*	31 887*	63,100*	28 621*
	35	10.67	69.3	91' 1"	27.76	50,100*	22 724*	40,700*	18 461*	24,000*	10 886*	16,500*	7 484*	59,000*	26 761*	49,800*	22 588*
	40	12.19	65.8	89' 0"	27.13	41,000*	18 597*	33,300*	15 104*	20,100*	9 117*	13,600*	6 168*	48,600*	22 044*	40,800*	18 506*
	50	15.24	58.6	83' 9"	25.53	29,800*	13 517*	24,000*	10 886*	14,800*	6 713*	9,700*	4 399*	35,400*	16 057*	29,700*	13 471*
	60	18.29	50.8	76' 8"	23.37	23,000*	10 432*	18,300*	8 300*	11,400*	5 170*	7,200*	3 265*	27,600*	12 519*	22,900*	10 387*
	70	21.34	42.0	67' 2"	20.48	18,400*	8 346*	14,600*	6 622*	9,000*	4 082*	5,400*	2 449*	22,200*	10 069*	18,300*	8 300*
	80	24.38	31.4	53' 9"	16.39	15,200*	6 894*	11,900*	5 397*	7,200*	3 265*	4,100*	1 859*	18,400*	8 346*	15,100*	6 849*
	90	27.43	15.2	30' 7"	9.32	12,700*	5 760*	9,800*	4 445*	5,800*	2 630*	3,100*	1 406*	15,600*	7 076*	12,600*	5 715*
100' (30.48 m)	19	5.79	80.9	105' 8"	32.20	90,400*	41 004*	90,400*	41 004*	53,900*	24 448*	38,300*	17 372*	90,400*	41 004*	90,400*	41 004*
	20	6.10	80.3	105' 6"	32.15	89,000*	40 369*	89,000*	40 369*	50,200*	22 770*	35,600*	16 147*	89,000*	40 369*	89,000*	40 369*
	25	7.62	77.4	104' 6"	31.85	78,900*	35 788*	70,100*	31 796*	37,200*	16 873*	26,100*	11 838*	81,700*	37 058*	81,700*	37 058*
	30	9.14	74.4	103' 3"	31.47	63,300*	28 712*	51,700*	23 540*	29,300*	13 290*	20,200*	9 162*	70,000*	31 751*	63,000*	28 576*
	35	10.67	71.4	101' 8"	31.00	50,000*	22 679*	40,600*	18 415*	23,800*	10 795*	16,300*	7 393*	58,700*	26 625*	49,700*	22 543*
	40	12.19	68.4	99' 10"	30.44	40,900*	18 551*	33,200*	15 059*	19,900*	9 026*	13,400*	6 078*	48,500*	21 999*	40,700*	18 461*
	50	15.24	62.1	95' 3"	29.03	29,700*	13 471*	23,800*	10 795*	14,700*	6 667*	9,500*	4 309*	35,300*	16 011*	29,500*	13 380*
	60	18.29	55.4	89' 2"	27.18	22,900*	10 387*	18,200*	8 255*	11,200*	5 080*	7,000*	3 175*	27,400*	12 428*	22,700*	10 296*
	70	21.34	48.1	81' 3"	24.78	18,300*	8 300*	14,500*	6 577*	8,800*	3 991*	5,300*	2 404*	22,100*	10 024*	18,200*	8 255*
	80	24.38	39.8	70' 11"	21.61	15,100*	6 849*	11,800*	5 352*	7,100*	3 220*	4,000*	1 814*	18,300*	8 300*	15,000*	6 803*
	90	27.43	29.7	56' 6"	17.22	12,600*	5 715*	9,700*	4 399*	5,700*	2 585*	3,000*	1 360*	15,500*	7 030*	12,600*	5 715*
	100	30.48	14.5	31' 10"	9.71	10,700*	4 853*	8,100*	3 674*	4,600*	2 086*	2,100*	952*	13,200*	5 987*	10,600*	4 808*

ⓈⓈ — Refer to page 191.26.

(continued)



HC-138A open throat boom						"A" upper & "A" bumper ⊕ counterweights								"AB" upper & "A" bumper counterweights			
Length	Radius		Angle	Boom point height ⊙		On outriggers				On tires (static)				On outriggers only			
	Feet	meters	Degrees	Feet	meters	Over rear		Over side and 360° swing ⊕		Over rear		Over side		Over rear		Over side and 360° swing ⊕	
						Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms
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*
	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*	62,900	28 530
	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*	49,600	22 498
	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	40,600	18 415
	50	15.24	64.8	106' 5"	32.44	29,600	13 426	23,700	10 750	14,500	6 577	9,400	4 263	35,100	15 921	29,400	13 335
	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	22,600	10 251
	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	18,000	8 164
	80	24.38	45.7	85' 7"	26.10	15,000	6 803	11,600	5 261	6,900	3 129	3,800	1 723	18,100	8 210	14,900	6 758
	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	12,400	5 624
	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	10,500	4 762
	110	33.53	13.8	33' 1"	10.09	9,000	4 082	6,700	3 039	3,600	1 632	—	—	11,300	5 125	8,900	4 036
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*
	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*	28 848*	62,800	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*	49,400	22 407
	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	40,400	18 325
	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	29,200	13 244
	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	22,400	10 160
	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	17,900	8 119
	80	24.38	50.2	99' 1"	30.20	14,800	6 713	11,500	5 216	6,700	3 039	3,600	1 632	18,000	8 164	14,700	6 667
	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	12,300	5 579
	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	10,300	4 672
	110	33.53	27.1	61' 7"	18.76	8,900	4 036	6,500	2 948	3,400	1 542	—	—	11,200	5 080	8,800	3 991
120	36.58	13.2	34' 3"	10.45	7,600	3 447	5,500	2 494	2,700	1 224	—	—	9,700	4 399	7,500	3 401	
130' (39.62 m)	25	7.62	80.3	135' 1"	41.16	62,700*	28 440*	62,700*	28 440*	36,700	16 644	25,600	11 611	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*
	35	10.67	75.8	132' 11"	40.52	48,600	22 498	40,200	18 234	23,300	10 568	15,800	7 166	52,600*	23 858*	49,300	22 362
	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*	40,300	18 279
	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	29,100	13 199
	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	22,300	10 115
	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	17,700	8 028
	80	24.38	53.8	111' 9"	34.07	14,600	6 622	11,300	5 125	6,500	2 948	3,400	1 542	17,800	8 073	14,600	6 622
	90	27.43	48.1	103' 8"	31.59	12,200	5 533	9,200	4 173	5,200	2 358	2,400	1 088	15,000	6 803	12,100	5 488
	100	30.48	41.9	93' 8"	28.54	10,300	4 672	7,600	3 447	4,100	1 859	—	—	12,800	5 805	10,200	4 626
	110	33.53	34.7	81' 0"	24.68	8,700	3 946	6,400	2 902	3,200	1 451	—	—	11,000	4 989	8,600	3 900
120	36.58	26.0	63' 11"	19.48	7,400	3 356	5,300	2 404	2,500	1 133	—	—	9,500	4 309	7,400	3 356	
130	39.62	12.7	35' 5"	10.80	6,400	2 902	4,400	1 995	—	—	—	—	8,300	3 764	6,300	2 857	
140' (42.67 m)	30	9.14	79.0	144' 4"	43.98	53,900*	24 448*	51,200	23 223	28,600	12 972	19,500	8 845	53,900*	24 448*	53,900*	24 448*
	35	10.67	76.9	143' 3"	43.66	47,700*	21 636*	40,100	18 189	23,100	10 477	15,600	7 076	47,700*	21 636*	47,700*	21 636*
	40	12.19	74.7	142' 0"	43.27	40,300	18 279	32,700	14 832	19,100	8 663	12,700	5 760	43,000*	19 504*	40,100	18 189
	50	15.24	70.5	138' 10"	42.32	29,100	13 199	23,200	10 523	13,900	6 304	8,800	3 991	34,600	15 694	28,900	13 108
	60	18.29	66.0	134' 10"	41.10	22,200	10 069	17,500	7 937	10,500	4 762	6,300	2 857	26,800	12 156	22,100	10 024
	70	21.34	61.5	129' 11"	39.60	17,600	7 983	13,800	6 259	8,100	3 674	4,500	2 041	21,400	9 706	17,500	7 937
	80	24.38	56.7	123' 11"	37.77	14,500	6 577	11,100	5 034	6,300	2 857	3,200	1 451	17,600	7 983	14,400	6 531
	90	27.43	51.7	116' 9"	35.58	12,000	5 443	9,100	4 127	5,000	2 267	2,200	997	14,900	6 758	11,900	5 397
	100	30.48	46.2	108' 0"	32.92	10,100	4 591	7,500	3 401	3,900	1 769	—	—	12,600	5 715	10,000	4 535
	110	33.53	40.3	97' 5"	29.68	8,500	3 855	6,200	2 812	3,000	1 360	—	—	10,800	4 898	8,500	3 855
	120	36.58	33.4	84' 0"	25.61	7,300	3 311	5,100	2 313	2,300	1 043	—	—	9,300	4 218	7,200	3 265
130	39.62	25.0	66' 2"	20.17	6,200	2 812	4,200	1 905	—	—	—	—	8,100	3 674	6,200	2 812	
140	42.67	12.2	36' 6"	11.13	5,300	2 404	3,500	1 587	—	—	—	—	7,100	3 220	5,200	2 358	
150' (45.72 m)	30	9.14	79.7	154' 6"	47.09	48,800*	22 135*	48,800*	22 135*	—	—	—	—	48,800*	22 135*	48,800*	22 135*
	35	10.67	77.7	153' 6"	46.78	44,200*	20 048*	40,000*	18 143	—	—	—	—	44,200*	20 048*	44,200*	20 048*
	40	12.19	75.8	152' 4"	46.42	40,000*	18 143*	32,600	14 787	—	—	—	—	40,000*	18 143*	40,000*	18 143*
	50	15.24	71.8	149' 5"	45.54	28,900	13 108	23,000	10 432	—	—	—	—	32,000*	14 514*	28,700	13 018
	60	18.29	67.7	145' 9"	44.41	22,000	9 979	17,300	7 847	—	—	—	—	26,600	12 065	21,900	9 933
	70	21.34	63.5	141' 2"	43.03	17,400	7 892	13,600	6 168	—	—	—	—	21,200	9 616	17,300	7 847
80	24.38	59.2	135' 9"	41.37	14,300	6 486	10,900	4 944	—	—	—	—	17,400	7 892	14,200	6 441	

⊙ ⊕ ⊕ — Refer to page 191.26.

Not applicable

HC-138A open throat boom						"A" upper & "A" bumper ① counterweights								"AB" upper & "A" bumper counterweights			
Length	Radius		Angle	Boom point height ②		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	
			Degrees			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					14,600	6 622	11,700	5 307
	100	30.48	49.8	121' 5"	37.02	9,900	4 490	7,200	3 265					12,400	5 624	9,800	4 445
	110	33.53	44.6	112' 2"	34.20	8,300	3 764	6,000	2 721					10,600	4 808	8,200	3 719
	120	36.58	38.8	101' 0"	30.78	7,000	3 175	4,900	2 222					9,100	4 127	7,000	3 175
	130	39.62	32.3	87' 0"	26.51	6,000	2 721	4,000	1 814					7,900	3 583	5,900	2 676
	140	42.67	24.2	68' 4"	20.83	5,100	2 313	3,300	1 496					6,800	3 084	5,000	2 267
	150	45.72	11.8	37' 7"	11.45	4,300	1 950	2,600	1 179					5,900	2 676	4,300	1 950
160' (48.77 m)	30	9.14	80.3	164' 8"	50.18	43,800*	19 867*	43,800*	19 867*					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					40,700*	18 461*	40,700*	18 461*
	40	12.19	76.7	162' 7"	49.56	36,900*	16 737*	32,400	14 696					36,900*	16 737*	36,900*	16 737*
	50	15.24	73.0	159' 11"	48.74	28,700	13 018	22,900	10 387					29,500*	13 380*	28,600	12 972
	60	18.29	69.2	156' 6"	47.69	21,800	9 888	17,100	7 756					24,600*	11 158*	21,700	9 842
	70	21.34	65.3	152' 3"	46.41	17,200	7 801	13,500	6 123					20,700*	9 389*	17,100	7 756
	80	24.38	61.3	147' 3"	44.88	14,100	6 395	10,700	4 853					17,600*	7 983*	14,000	6 350
	90	27.43	57.1	141' 3"	43.06	11,600	5 261	8,700	3 946					14,300*	6 486*	11,500	5 216
	100	30.48	52.8	134' 3"	40.93	9,700	4 399	7,100	3 220					12,300*	5 579*	9,600	4 354
	110	33.53	48.1	126' 0"	38.41	8,100	3 674	5,800	2 630					10,400	4 717	8,100	3 674
	120	36.58	43.1	116' 3"	35.42	6,900	3 129	4,700	2 131					8,900	4 036	6,800	3 084
	130	39.62	37.6	104' 5"	31.83	5,800	2 630	3,800	1 723					7,700	3 492	5,700	2 585
140	42.67	31.2	89' 10"	27.38	4,900	2 222	3,100	1 406					6,700	3 039	4,800	2 177	
150	45.72	23.4	70' 6"	21.48	4,100	1 859	2,400	1 088					5,800	2 630	4,100	1 859	
160	48.77	11.4	38' 7"	11.76	3,500	1 587	—	—					5,000	2 267	3,400	1 542	
170' (51.82 m)	30	9.14	80.9	174' 9"	53.27	39,400*	17 871*	39,400*	17 871*					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*					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*					32,100*	14 560*	32,100*	14 560*
	50	15.24	74.0	170' 4"	51.91	27,100*	12 292*	22,700	10 296					27,100*	12 292*	27,100*	12 292*
	60	18.29	70.5	167' 1"	50.94	21,700	9 842	17,000	7 711					22,800*	10 341*	21,500	9 752
	70	21.34	66.9	163' 3"	49.75	17,000	7 711	13,300	6 032					19,300*	8 754*	16,900	7 665
	80	24.38	63.1	158' 7"	48.32	13,900	6 304	10,500	4 762					15,600*	7 076*	13,800	6 259
	90	27.43	59.3	153' 1"	46.65	11,400	5 170	8,500	3 855					13,400*	6 078*	11,300	5 125
	100	30.48	55.3	146' 8"	44.69	9,500	4 309	6,900	3 129					11,500*	5 216*	9,400	4 263
	110	33.53	51.1	139' 2"	42.41	7,900	3 583	5,600	2 540					10,100*	4 581*	7,900	3 583
	120	36.58	46.6	130' 5"	39.74	6,700	3 039	4,500	2 041					8,700	3 946	6,600	2 993
	130	39.62	41.7	120' 1"	36.61	5,600	2 540	3,600	1 632					7,500	3 401	5,500	2 494
140	42.67	36.4	107' 9"	32.85	4,700	2 131	2,900	1 315					6,500	2 948	4,600	2 086	
150	45.72	30.3	92' 7"	28.22	3,900	1 769	2,300	1 043					5,600	2 540	3,900	1 769	
160	48.77	22.7	72' 6"	22.10	3,300	1 496	—	—					4,800	2 177	3,200	1 451	
170	51.82	11.1	39' 7"	12.06	2,700	1 224	—	—					4,100	1 859	2,600	1 179	
180' (54.86 m)	35	10.67	79.8	184' 1"	56.10	31,000*	14 061*	31,000*	14 061*					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*					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					23,700*	10 750*	23,700*	10 750*
	60	18.29	71.6	177' 8"	54.16	20,000*	9 071*	16,800	7 620					20,000*	9 071*	20,000*	9 071*
	70	21.34	68.2	174' 0"	53.05	15,900*	7 212*	13,100	5 942					15,900*	7 212*	15,900*	7 212*
	80	24.38	64.7	169' 8"	51.72	13,700*	6 214*	10,300	4 672					13,700*	6 214*	13,600	6 168
	90	27.43	61.2	164' 7"	50.16	11,200	5 080	8,300	3 764					11,700*	5 307*	11,100	5 034
	100	30.48	57.5	158' 8"	48.35	9,300	4 218	6,700	3 039					10,300*	4 672*	9,200	4 173
	110	33.53	53.6	151' 9"	46.26	7,700	3 492	5,400	2 449					8,800*	3 991*	7,700	3 492
	120	36.58	49.5	143' 10"	43.84	6,500	2 948	4,300	1 950					7,700*	3 492*	6,400	2 902
	130	39.62	45.2	134' 7"	41.03	5,400	2 449	3,400	1 542					6,900*	3 129*	5,300	2 404
	140	42.67	40.5	123' 10"	37.75	4,500	2 041	2,700	1 224					6,100*	2 766*	4,400	1 995
150	45.72	35.3	111' 0"	33.84	3,700	1 678	2,000	907					5,400*	2 449*	3,700	1 678	
160	48.77	29.4	95' 3"	29.03	3,100	1 406	—	—					4,600	2 086	3,000	1 360	
170	51.82	22.1	74' 6"	22.70	2,500	1 133	—	—					3,900	1 769	2,400	1 088	
180	54.86	10.8	40' 6"	12.35	2,000	907	—	—					3,300	1 496	—	—	

Not applicable

①②③ — Refer to page 191.26.

(continued)



HC-138A open throat boom						"A" upper & "A" bumper counterweights								"AB" upper & "A" bumper counterweights				
Length	Radius		Angle	Boom point height		On outriggers				On tires (static)				On outriggers only				
	Feet		Degrees	Feet	meters	Over rear		Over side and 360° swing		Over rear		Over side		Over rear		Over side and 360° swing		
	Feet	meters	Degrees	Feet	meters	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	
190' (57.91 m)	35	10.67	80.4	194'	3'	59.20	27,700*	12 564*	27,700*	12 564*					27,700*	12 564*	27,700*	12 564*
	40	12.19	78.8	193'	4"	58.92	25,300*	11 475*	25,300*	11 475*					25,300*	11 475*	25,300*	11 475*
	50	15.24	75.7	191'	0"	58.23	21,200*	9 616*	21,200*	9 616*					21,200*	9 616*	21,200*	9 616*
	60	18.29	72.6	188'	2"	57.36	17,800*	8 073*	16,600	7 529					17,800*	8 073*	17,800*	8 073*
	70	21.34	69.4	184'	9"	56.31	14,100*	6 395*	12,900	5 851					14,100*	6 395*	14,100*	6 395*
	80	24.38	66.1	180'	8"	55.07	12,100*	5 488*	10,100	4 581					12,100*	5 488*	12,100*	5 488*
	90	27.43	62.8	175'	11"	53.61	10,400*	4 717*	8,100	3 674					10,400*	4 717*	10,400*	4 717*
	100	30.48	59.4	170'	4"	51.93	8,900*	4 036*	6,500	2 948					8,900*	4 036*	8,900*	4 036*
	110	33.53	55.8	164'	0"	49.99	7,500	3 401	5,200	2 358					7,800*	3 538*	7,500	3 401
	120	36.58	52.1	156'	9"	47.77	6,300	2 857	4,100	1 859					6,800*	3 084*	6,200	2 812
	130	39.62	48.1	148'	4"	45.22	5,200	2 358	3,200	1 451					6,000*	2 721*	5,100	2 313
	140	42.67	43.9	138'	9"	42.28	4,300	1 950	2,500	1 133					5,300*	2 404*	4,200	1 905
	150	45.72	39.4	127'	6"	38.86	3,500	1 587	—	—					4,700*	2 131*	3,500	1 587
	160	48.77	34.4	114'	2"	34.79	2,900	1 315	—	—					4,300*	1 950*	2,800	1 270
	170	51.82	28.6	97'	10"	29.82	2,300	1 043	—	—					3,700	1 678	2,200	997
180	54.86	21.5	76'	5"	23.29	—	—	—	—					3,100	1 406	—	—	
190	57.91	10.5	41'	5"	12.63	—	—	—	—					2,600	1 179	—	—	
200' (60.96 m)	35	10.67	80.8	204'	4"	62.29	24,800*	11 249*	24,800*	11 249*					24,800*	11 249*	24,800*	11 249*
	40	12.19	79.4	203'	6"	62.02	22,700*	10 296*	22,700*	10 296*					22,700*	10 296*	22,700*	10 296*
	50	15.24	76.5	201'	4"	61.37	18,900*	8 572*	18,900*	8 572*					18,900*	8 572*	18,900*	8 572*
	60	18.29	73.5	198'	8"	60.55	14,800*	6 713*	14,800*	6 713*					14,800*	6 713*	14,800*	6 713*
	70	21.34	70.5	195'	5"	59.56	12,500*	5 669*	12,500*	5 669*					12,500*	5 669*	12,500*	5 669*
	80	24.38	67.4	191'	7"	58.39	10,700*	4 853*	10,000	4 535					10,700*	4 853*	10,700*	4 853*
	90	27.43	64.3	187'	1"	57.02	9,200*	4 173*	7,900	3 583					9,200*	4 173*	9,200*	4 173*
	100	30.48	61.0	181'	11"	55.44	7,900*	3 583*	6,300	2 857					7,900*	3 583*	7,900*	3 583*
	110	33.53	57.7	176'	0"	53.64	6,900*	3 129*	5,000	2 267					6,900*	3 129*	6,900*	3 129*
	120	36.58	54.3	169'	3"	51.58	6,000*	2 721*	3,900	1 769					6,000*	2 721*	6,000*	2 721*
	130	39.62	50.6	161'	6"	49.24	5,000	2 267	3,000	1 360					5,300*	2 404*	4,900	2 222
	140	42.67	46.8	152'	9"	46.56	4,100	1 859	2,300	1 043					4,700*	2 131*	4,000	1 814
	150	45.72	42.8	142'	8"	43.49	3,300	1 496	—	—					4,200*	1 905*	3,300	1 496
	160	48.77	38.4	131'	0"	39.93	2,600	1 179	—	—					3,700*	1 678*	2,600	1 179
	170	51.82	33.5	117'	2"	35.72	2,100	952	—	—					3,400*	1 542*	2,000	907
180	54.86	27.9	100'	4"	30.58	—	—	—	—					2,900	1 315	—	—	
190	57.91	20.9	78'	3"	23.86	—	—	—	—					2,400	1 088	—	—	

Not applicable

Ⓢ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.

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

Ⓢ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. (726 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.

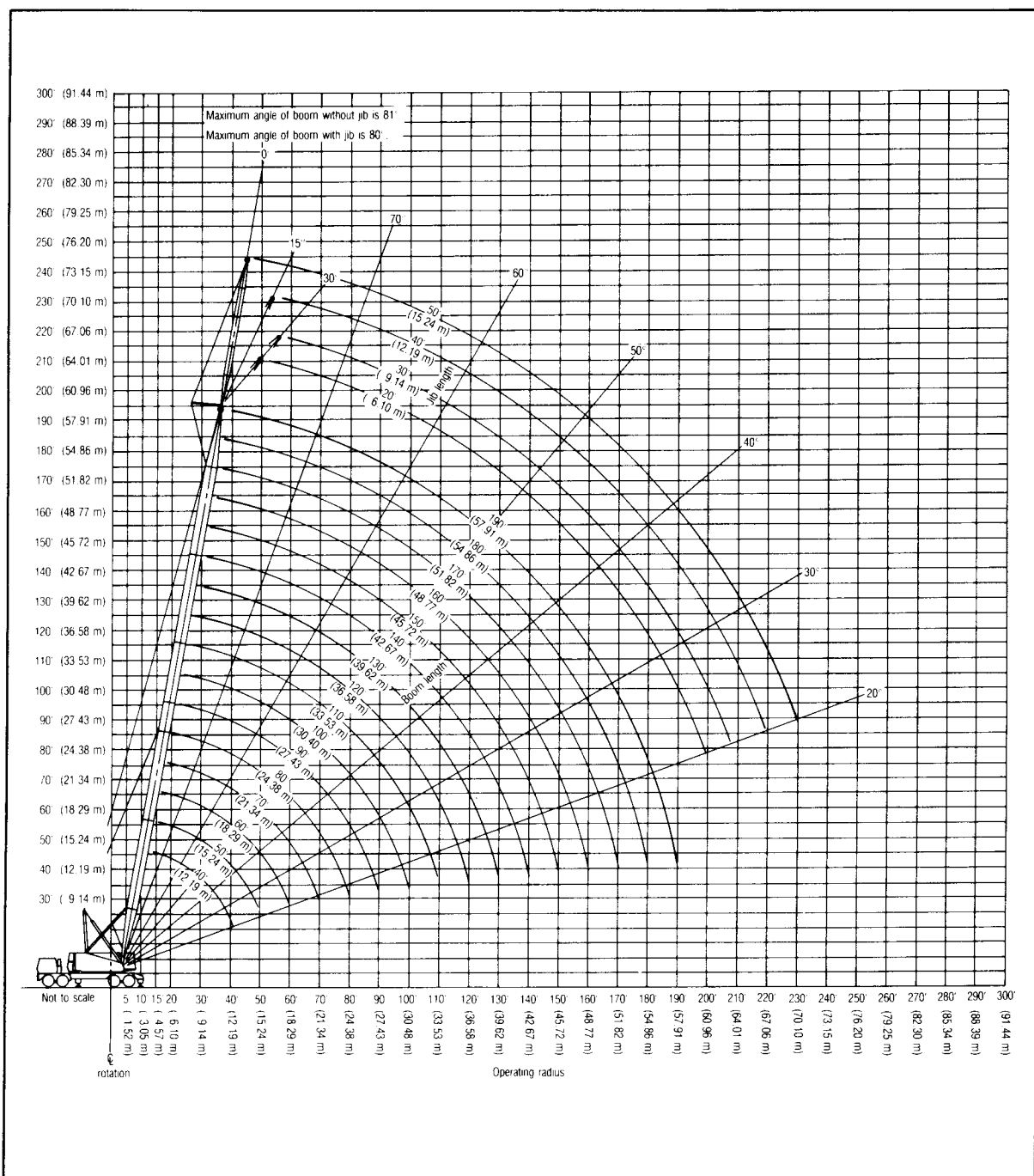
HC-138A boom/jib working ranges — open throat boom

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.

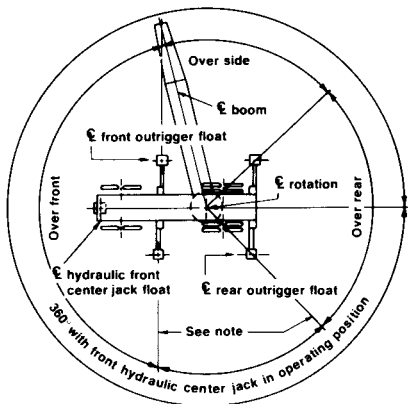
Jib — tubular; 30" (0.76 m) wide, 24" (0.61 m) deep.

Counterweights — Refer to charts page 191.21.

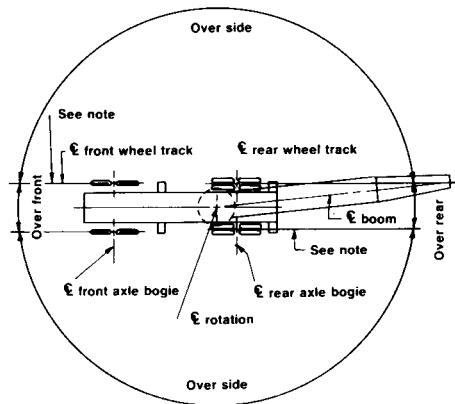
Mounting — rubber tire mobile base: FMC 8 x 4 drive, 260" (6.60 m) wheelbase, 11' 0" (3.35 m) wide.



HC-138A working areas



Rubber tire mobile base on outriggers



Rubber tire mobile base on tires

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



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

Refer to NOTES page 191.91.

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

Jib — tubular: 30" wide, 24" deep.

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

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.

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

(continued)

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NAY-132

TRUCK CRANES

LINK-BELT (FMC)

P. 191.81

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

Refer to NOTES page 191.91.

Boom length	Load radius	Capacities on outriggers — over side and 360° swing											
		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°
Feet	Feet	Pounds			Pounds			Pounds			Pounds		
70	80	10,300*	9,500*		8,700*	7,600*		7,500*	6,100*	5,300*	5,000*	4,400*	3,700*
	90				7,700*			6,500*	5,500*		4,600*	4,000*	3,300*
	100							5,600*			4,100*	3,500*	
	110										3,500*		
80	25	19,300*	15,500*		15,700*	12,900*		11,900*			7,700*		
	30	18,500*	14,900*		15,200*	12,400*		11,600*			7,400*		
	35	17,700*	14,300*	12,500*	14,600*	12,400*		11,300*	9,900*		7,400*		
	40	16,900*	13,000*	12,000*	14,100*	11,900*	9,700*	10,900*	9,600*		7,100*	5,900*	
	50	15,500*	13,000*	10,900*	13,000*	10,700*	8,900*	10,300*	8,900*	7,500*	6,500*	5,600*	4,900*
	60	14,100*	11,900*	10,200*	11,800*	9,700*	8,100*	9,600*	8,200*	6,700*	5,900*	5,300*	4,600*
	70	12,800*	10,700*	9,700*	10,600*	8,900*	7,600*	8,800*	7,500*	6,000*	5,600*	4,900*	4,300*
	80	11,400*	10,000*		9,500*	8,000*	7,100*	8,100*	6,700*	5,600*	5,200*	4,600*	3,900*
	90	10,200*			8,500*	7,400*		7,200*	5,900*	5,100*	4,900*	4,200*	3,500*
	100				7,600*			6,200*	5,400*		4,500*	3,800*	3,100*
	110							5,500*			4,000*	3,300*	
	120										3,400*		
90	25	19,600*	15,700*		15,900*	12,600*		11,700*			7,800*		
	30	18,900*	15,100*		15,400*	12,100*		11,400*			7,500*		
	35	18,200*	14,600*	12,700*	14,900*	12,100*	9,800*	11,100*	9,700*		7,300*		
	40	17,500*	13,500*	12,200*	14,400*	11,100*	9,100*	10,500*	9,100*	7,600*	6,700*	5,700*	
	50	16,000*	12,400*	10,400*	13,400*	10,100*	8,400*	9,900*	8,400*	7,000*	6,100*	5,400*	4,700*
	60	14,800*	11,400*	10,000*	11,300*	9,300*	7,800*	9,200*	7,800*	6,300*	5,700*	5,100*	4,400*
	70	13,600*	10,400*	9,500*	10,100*	8,500*	7,400*	8,500*	7,100*	5,800*	5,400*	4,800*	4,000*
	80	12,400*	9,900*		9,200*	7,800*	7,000*	7,800*	6,300*	5,400*	5,100*	4,400*	3,700*
	90	11,100*			8,200*	7,300*		7,000*	5,700*	5,700*	4,700*	4,100*	3,300*
	100	10,100*			7,500*			6,000*	5,300*		4,300*	3,700*	
	110							5,400*			3,900*	3,200*	
	120										3,400*		
130													
100	25	19,900*	15,900*		15,600*	12,800*		11,800*			7,900*		
	30	19,200*	15,400*		15,100*	12,400*		11,500*			7,700*		
	35	18,600*	14,900*	12,800*	14,700*	12,400*	9,800*	11,300*	9,800*	7,700*	7,400*		
	40	17,900*	13,900*	11,600*	13,800*	11,400*	9,300*	10,700*	9,300*	7,700*	6,900*	5,700*	
	50	16,600*	12,900*	10,700*	12,800*	10,500*	8,700*	10,100*	8,700*	7,100*	6,300*	5,500*	4,800*
	60	15,400*	12,000*	10,200*	11,800*	9,600*	8,000*	9,500*	8,100*	6,500*	5,900*	5,200*	4,500*
	70	14,300*	10,900*	9,800*	10,800*	8,900*	7,600*	8,900*	7,400*	5,900*	5,600*	4,900*	4,200*
	80	13,100*	10,200*		9,800*	8,200*	7,200*	8,200*	6,800*	5,600*	5,300*	4,600*	3,900*
	90	12,000*	9,700*		9,000*	7,700*		7,500*	6,000*	5,200*	5,000*	4,300*	3,500*
	100	10,600			8,000*	7,200*		6,700*	5,600*	5,200*	4,600*	3,900*	3,200*
	110	9,000			7,400*			5,900*	5,100*		4,300*	3,500*	
	120							5,400*			3,800*	3,100*	
130													
140													
110	30	19,500*	15,600*		15,800*	12,500*		11,900*			7,800*		
	35	18,900*	15,100*		15,300*	11,700*		11,700*			7,500*		
	40	18,300*	14,200*	12,600*	14,900*	11,400*	9,500*	11,400*	9,900*	7,900*	7,500*	5,800*	
	50	17,100*	13,300*	11,000*	14,100*	10,800*	8,900*	10,900*	9,400*	7,900*	7,000*	5,500*	4,800*
	60	15,800*	12,400*	10,300*	13,200*	9,900*	8,300*	10,300*	8,900*	7,300*	6,500*	5,300*	4,500*
	70	14,800*	11,500*	10,000*	11,400*	9,300*	7,800*	9,800*	8,300*	6,700*	6,000*	5,000*	4,300*
	80	13,800*	10,600*	9,600*	10,400*	8,600*	7,400*	9,200*	7,700*	6,100*	5,700*	4,700*	4,000*
	90	12,300	9,500*		9,500*	7,900*	7,100*	8,600*	7,100*	5,700*	5,400*	4,700*	4,000*
	100	10,400	8,700		8,700*	7,500*		8,000*	6,500*	5,400*	5,200*	4,400*	3,700*
	110	8,800			8,700*	7,500*		7,300*	5,900*	5,000*	4,900*	4,100*	3,400*
	120	7,600			7,700*	7,100*		6,600*	5,500*	5,000*	4,500*	3,800*	3,000*
	130				6,600			5,800*	5,000*		4,200*	3,400*	
140							5,300*			3,800*	3,000*		
150										3,300*			

(continued)



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

Refer to NOTES page 191.91.

(continued)

Boom length	Load radius	Capacities on outriggers — over side and 360° swing														
		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°			
Feet	Feet	Pounds			Pounds			Pounds			Pounds					
120	30	19,700*			15,900*											
	35	19,100*	15,800*		15,500*											
	40	18,600*	15,300*		15,100*			11,800*			7,900*					
	50	17,500*	14,500*	12,700*	14,300*	11,900*	9,600*	11,000*	9,500*	7,900*	7,200*	5,800*			4,900*	
	60	16,300*	13,600*	11,300*	13,500*	11,100*	9,100*	9,100*	10,500*	9,000*	7,400*	6,700*	5,600*		4,600*	
	70	15,300*	12,700*	10,500*	12,700*	10,300*	8,500*	8,500*	10,000*	8,500*	6,900*	6,200*	5,400*		4,400*	
	80	14,400*	12,000*	10,200*	11,900*	9,600*	7,900*	7,900*	9,500*	8,000*	6,400*	5,800*	5,100*		4,400*	
	90	12,100	11,100*	9,800*	11,000*	9,000*	7,600*	7,600*	8,900*	7,400*	5,900*	5,600*	4,900*		4,100*	
	100	10,200	10,300	9,500*	10,000*	8,300*	7,300*	7,300*	8,400*	6,800*	5,600*	5,300*	4,600*		3,800*	
	110	8,600	8,700		8,800*	7,800*		7,800*	7,800*	6,200*	5,000*	5,000*	4,300*		3,500*	
	120	7,400	7,400		7,500	7,400*		7,400*	7,100*	5,700*	4,800*	4,800*	4,000*		3,200*	
	130	6,300			6,400	6,500		6,400*	5,600	5,400*	4,400*	4,400*	3,700*		3,300*	
	140				5,500			4,900		5,000*			3,700*			
	150												3,200*			
	160															
	130	30	19,900*			15,700*										
35		19,400*	15,900*		15,300*											
40		18,900*	15,500*	12,900*	14,600*	12,100*	9,700*	11,900*	11,600*	9,600*	7,900*	7,300*	5,900*			
50		17,800*	14,700*	12,200*	13,800*	11,400*	9,200*	11,200*	9,200*	7,600*	6,800*	5,700*			4,900*	
60		16,700*	13,900*	11,500*	13,000*	10,700*	8,700*	10,700*	8,700*	7,100*	6,400*	5,400*			4,700*	
70		15,700*	13,100*	10,800*	13,100*	10,600*	8,700*	10,200*	8,700*	7,100*	6,400*	5,400*			4,700*	
80		14,400	12,300*	10,300*	12,300*	9,800*	8,100*	9,700*	8,200*	6,600*	5,900*	5,200*			4,400*	
90		11,900	11,600*	10,000*	11,400*	9,300*	7,800*	9,200*	7,700*	6,000*	5,700*	5,000*			4,200*	
100		10,000	10,100	9,700*	10,100	8,700*	7,500*	8,700*	7,100*	5,700*	5,500*	4,700*			3,900*	
110		8,400	8,600		8,500	8,100*	7,100*	8,700*	7,100*	5,700*	5,200*	4,500*			3,700*	
120		7,200	7,300		7,300	7,500		7,400	6,000*	4,600*	4,900*	4,200*			3,300*	
130		6,100			6,200	6,400		6,300	5,600*		4,700*	3,900*			2,800*	
140		5,200			5,300			5,400	5,300*		4,400*	3,600*				
150					4,600			4,600			4,000*	3,300*				
160								4,000			3,600*					
170											3,200*					
140	35	19,600*			15,800*											
	40	19,100*	15,700*		15,500*											
	50	18,100*	14,900*	12,400*	14,800*	12,300*	9,800*	11,700*	11,300*	9,700*	7,400*	7,800*	5,900*			
	60	17,100*	14,200*	11,700*	14,100*	11,600*	9,300*	10,800*	9,300*	7,700*	7,000*	5,700*			4,900*	
	70	16,100*	13,400*	11,100*	13,400*	10,900*	8,800*	10,400*	8,800*	7,200*	6,600*	5,500*			4,700*	
	80	14,200	12,700*	10,400*	12,600*	10,100*	8,300*	9,900*	9,900*	8,400*	6,700*	6,100*			4,500*	
	90	11,700	11,900	10,200*	11,800	9,600*	7,900*	9,500*	7,900*	6,200*	5,800*	5,100*			4,300*	
	100	9,800	10,000	9,900*	9,900	9,000*	7,600*	9,000*	7,400*	5,800*	5,600*	4,800*			4,000*	
	110	8,200	8,400	8,500	8,300	8,500*	7,000*	8,400	6,900*	5,000*	5,400*	4,600*			3,700*	
	120	7,000	7,100		7,100	7,300	6,000*	7,100	6,300*	4,200*	5,100*	4,400*			3,100*	
	130	5,900	6,000		6,000	6,200		6,100	5,900*	3,700*	4,900*	4,100*			2,600*	
	140	5,000			5,100	5,200		5,200	5,400		4,600*	3,800*			2,300*	
	150	4,200			4,300			4,400	4,600		4,300*	3,500*				
	160				3,700			3,800			3,800	3,200*				
	170							3,200			3,200					
	180										2,700					
150	35	19,800*			15,900*											
	40	19,300*	15,800*		15,600*											
	50	18,400*	15,100*	12,500*	15,000*	12,400*	9,900*	11,400*	11,000*	9,800*	7,500*	7,900*	5,800*			
	60	17,500*	14,400*	11,900*	14,300*	11,800*	9,400*	11,800*	9,400*	7,700*	7,100*	5,600*			4,800*	
	70	16,500*	13,700*	11,300*	13,600*	11,100*	9,000*	10,600*	9,000*	7,300*	6,700*	5,400*			4,600*	
	80	13,900	13,000*	10,700*	12,900*	10,400*	8,500*	10,100*	8,500*	6,900*	6,300*	5,400*			4,400*	
	90	11,500	11,700	10,300*	11,600	9,800	8,000*	9,700*	8,100*	6,400*	5,900*	5,200*			4,400*	
	100	9,500	9,800	9,900	9,600	9,300	7,500*	9,200*	7,600*	5,500*	5,700*	4,900*			4,100*	
	110	8,000	8,200	8,300	8,100	8,400	6,400*	8,200	7,100*	4,600*	5,500*	4,700*			3,400*	
	120	6,700	6,900		6,800	7,100	5,500*	6,900	6,500*	4,000*	5,300*	4,500*			2,900*	
130	5,700	5,800		5,800	6,000		5,800	5,700*	3,400*	5,000*	4,200*			2,500*		

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

Refer to NOTES page 191.91.

Boom length	Load radius	Capacities on outriggers — over side and 360° swing											
		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°
Feet	Feet	Pounds			Pounds			Pounds			Pounds		
150	140	4.800	4.900		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	3.600*	
	160	3.300			3.400			3.500	3.700		3.500	3.200*	
	170				2.800			2.900			3.000	2.900*	
	180							2.400			2.400		
	190										2.000		
160	35	19.900*			15.700*			11.900*			7.900*		
	40	19.500*	15.900*		15.100*			11.500*	9.900*		7.600*		
	50	18.600*	15.300*	12.600*	14.500*	11.900*		11.100*	9.500*	7.800*	7.200*	5.800*	
	60	17.700*	14.600*	12.100*	14.500*	11.900*	9.500*	11.100*	9.500*	7.800*	7.200*	5.800*	4.800*
	70	16.900*	13.900*	11.500*	13.900*	11.300*	9.100*	10.700*	9.100*	7.400*	6.800*	5.600*	4.600*
	80	13.700	13.300*	10.900*	13.200*	10.700*	8.700*	10.300*	8.700*	7.000*	6.400*	5.400*	4.400*
	90	11.300	11.600	10.400*	11.400	10.000*	8.100*	9.900*	8.300*	6.000*	6.100*	5.200*	4.400*
	100	9.300	9.600	9.300*	9.400	9.500*	6.900*	9.500*	7.800*	5.100*	5.800*	5.000*	3.900*
	110	7.800	8.000	8.000*	7.900	8.200	5.900*	7.900	6.800*	4.300*	5.600*	4.800*	3.200*
	120	6.500	6.700	6.800*	6.600	6.900	5.000*	6.700	5.900*	3.700*	5.400*	4.600*	2.700*
	130	5.400	5.600		5.500	5.800	4.400*	5.600	5.200*	3.200*	5.200*	4.200*	2.300*
	140	4.500	4.700		4.600	4.800		4.700	4.500*	2.800*	4.800	3.700*	2.000*
	150	3.800	3.900		3.900	4.000		3.900	4.000*		4.000	3.200*	1.800*
	160	3.100			3.200	3.300		3.300	3.500		3.300	2.900*	
170	2.500			2.600	2.700		2.700	2.900		2.700	2.600*		
180				2.100			2.200			2.200	2.300*		
190							1.700			1.800			
170	40	19.700*	15.400*	12.700*	15.800*	12.700*		11.900*	9.900*		7.700*		
	50	18.800*	14.800*	12.200*	15.300*	12.100*		11.600*	9.600*	7.900*	7.300*	5.800*	
	60	18.000*	14.200*	11.700*	14.800*	11.500*	9.600*	11.200*	9.600*	7.900*	7.300*	5.800*	4.900*
	70	16.700	13.500*	11.100*	14.100*	10.900*	9.200*	10.800*	9.200*	7.500*	6.900*	5.700*	4.700*
	80	13.500	13.000*	10.900*	12.600*	10.900*	8.800*	10.400*	8.800*	6.800*	6.600*	5.500*	4.300*
	90	11.100	11.400	9.600*	10.800*	9.800*	7.400*	9.800*	8.200*	5.700*	6.200*	5.300*	4.300*
	100	9.100	9.400	8.200*	9.200	8.400*	6.300*	8.400*	7.100*	4.700*	5.900*	5.100*	3.600*
	110	7.600	7.800	7.200*	7.700	7.200*	5.400*	7.300*	6.100*	4.000*	5.700*	4.900*	3.000*
	120	6.300	6.500	6.200*	6.400	6.400*	4.600*	6.400	5.300*	3.400*	5.500*	4.400*	2.600*
	130	5.200	5.400	5.500*	5.300	5.600	4.000*	5.400	4.600*	2.900*	5.000*	3.900*	2.200*
	140	4.300	4.500		4.400	4.600	3.500*	4.500	4.000*	2.600*	4.400*	3.300*	1.900*
	150	3.600	3.700		3.700	3.800		3.700	3.600*		3.800	3.000*	1.600*
	160	2.900	3.000		3.000	3.100		3.000	3.200*	2.200*	3.100	2.600*	
	170	2.300			2.400	2.500		2.500	2.700		2.500	2.300*	
180	1.800			1.900			1.900	2.100		2.000	2.100*		
190							1.500			1.500	1.700		
180	40	19.800*	15.500*	12.800*	15.900*	12.800*		11.700*	9.600*		7.700*		
	50	19.000*	15.000*	12.300*	15.400*	12.200*		11.300*	9.300*	7.600*	7.400*	5.900*	
	60	17.400*	13.500*	11.800*	14.800*	11.700*	9.700*	10.900*	9.300*	7.600*	7.000*	5.700*	4.900*
	70	14.000*	13.500*	11.800*	12.900*	11.700*	9.300*	10.900*	9.300*	7.600*	7.000*	5.700*	4.900*
	80	12.100*	11.500*	10.000*	11.100*	10.100*	8.100*	10.100*	8.800*	6.300*	6.700*	5.500*	4.700*
	90	10.500*	9.900*	8.600*	9.500*	8.700*	6.700*	8.700*	7.500*	5.200*	6.300*	5.400*	4.000*
	100	8.900	8.600*	7.500*	8.300*	7.500*	5.700*	7.500*	6.400*	4.400*	6.000*	5.200*	3.300*
	110	7.400	7.500*	6.400*	7.200*	6.400*	4.800*	6.500*	5.500*	3.700*	5.800*	4.600*	2.800*
	120	6.100	6.300	5.600*	6.200	5.600*	4.200*	5.600*	4.700*	3.200*	5.000*	4.000*	2.400*
	130	5.000	5.200	4.900*	5.100	4.900*	3.600*	5.000*	4.100*	2.700*	4.400*	3.500*	2.000*
	140	4.100	4.300		4.200	4.300*	3.200*	4.300	3.600*	2.300*	3.900*	3.000*	1.800*
	150	3.300	3.500		3.400	3.600		3.500	3.200*	2.000*	3.400*	2.600*	1.500*
	160	2.700	2.800		2.800	2.900		2.800	2.800*		2.900	2.300*	
	170	2.100	2.200		2.200	2.300		2.200	2.500		2.300	2.000*	
180	1.600			1.700	1.800		1.700	1.900		1.800	1.800*		
190	40	19.900*			15.700*			11.900*			7.900*		
	50	18.100*	15.700*	12.900*	15.500*	12.900*		11.700*			7.800*		
	60	14.600*	14.000*	12.400*	13.500*	12.400*	9.800*	11.400*	9.700*		7.500*	5.900*	

(continued)



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

Refer to NOTES page 191.91.

Boom length	Load radius	Capacities on outriggers — over side and 360° swing											
		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°
Feet	Feet	Pounds			Pounds			Pounds			Pounds		
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*		

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.

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

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

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

Refer to NOTES page 191.91.

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				
40	14	19,800*											
	15	19,600*											
	16	19,300*			15,400*								
	17	19,100*			15,200*								
	18	18,800*			15,100*			11,600*					
	19	18,600*	16,100*		14,900*			11,500*					
	20	18,300*	15,900*		14,800*			11,400*			7,700*		
	25	17,000*	14,900*	12,700*	13,900*		12,400*				7,300*		
	30	15,700*	13,900*	11,800*	13,100*		11,500*	9,700*			10,900*		
	35	14,700*	12,800*	10,900*	12,200*		10,600*	9,100*			9,500*		5,800*
	40	13,500*	11,900*	10,200*	11,300*		9,800*	8,400*			8,500*	7,300*	6,000*
50	11,300*	10,200*		9,500*		8,400*	7,500*			7,400*	6,200*	5,500*	
60	9,600*			7,900*		7,400*				7,100*	6,200*	5,000*	
70										5,800*	5,400*	4,400*	
80											4,400*	4,000*	
80											3,700*	3,300*	
50	16	19,800*											
	17	19,600*											
	18	19,300*			15,400*								
	19	19,100*			15,200*								
	20	18,900*			15,100*			11,600*					
	25	17,800*	15,400*	13,000*	14,400*		12,700*				11,100*		7,500*
	30	16,700*	14,500*	12,300*	13,600*		11,900*				10,700*		7,100*
	35	15,600*	13,600*	11,500*	12,900*		11,200*	9,300*			9,700*		6,700*
	40	14,700*	12,700*	10,700*	12,100*		10,400*	8,800*			9,300*		6,300*
	50	12,700*	11,100*	9,900*	10,500*		9,100*	8,000*			8,800*	7,500*	6,300*
	60	10,800*	9,900*		9,100*		7,900*	7,800*			7,900*	6,500*	5,700*
70	9,500*			7,800*		7,200*	7,200*			6,800*	5,700*	5,300*	
80										6,800*	5,700*	5,300*	
80										6,700*	5,800*	4,800*	
90										6,700*	5,100*	4,300*	
90										5,700*	5,100*	4,300*	
90										5,700*	4,300*	3,600*	
90										5,100*	4,300*	3,100*	
90										5,100*	3,800*	3,100*	
90										5,100*	3,600*	3,100*	
60	18	19,700*											
	19	19,600*											
	20	19,400*			15,400*								
	25	18,400*	15,700*		14,700*						11,300*		7,600*
	30	17,400*	15,000*	12,600*	14,100*		12,200*				10,900*		7,300*
	35	16,400*	14,200*	11,900*	13,400*		11,600*	9,500*			10,600*		6,900*
	40	15,500*	13,400*	11,300*	12,700*		10,900*	9,100*			10,200*		6,600*
	50	13,900*	12,000*	10,200*	11,300*		9,600*	8,100*			9,300*		6,800*
	60	12,200*	10,400*	9,600*	9,800*		8,600*	7,500*			8,400*	7,700*	6,800*
	70	10,400*	9,700*		8,700*		7,700*	7,500*			7,500*	6,400*	5,900*
	80				7,700*		7,000*				6,400*	5,400*	5,500*
90										5,500*	5,000*	4,600*	
100										5,500*	5,000*	3,500*	
70	20	19,700*											
	25	18,900*	16,000*		15,000*							7,700*	
	30	18,000*	15,300*	12,800*	14,400*		12,500*					7,400*	
	35	17,100*	14,700*	12,300*	13,800*		11,900*	9,700*				7,100*	
	40	16,200*	14,000*	11,700*	13,200*		11,300*	9,300*				6,800*	5,800*
	50	14,700*	12,600*	10,500*	12,000*		10,000*	8,400*				6,100*	5,500*
	60	13,200*	11,400*	9,900*	10,700*		9,100*	7,700*				6,200*	5,100*
	70	11,700*	10,200*		9,500*		8,200*	7,200*				5,700*	4,800*

(continued)



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

Refer to NOTES page 191.91.

Boom length	Load radius	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°
Feet	Feet	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				7,500*			6,200*	5,500*		4,500*	3,900*	3,200*
	100							5,400*			4,000*	3,500*	
	110										3,400*		
80	25	19,200*			15,200*			11,600*			7,600*		
	30	18,500*	15,600*		14,700*	12,700*		11,300*			7,300*		
	35	17,700*	15,000*		14,200*	12,200*		11,000*	9,800*		7,000*		
	40	16,900*	14,400*	12,500*	13,600*	11,600*	9,500*	10,600*	9,400*	7,200*	5,900*		4,900*
	50	15,400*	13,200*	10,900*	12,500*	10,500*	8,700*	10,000*	8,700*	7,000*	6,300*	5,600*	4,600*
	60	14,100*	12,000*	10,200*	11,300*	9,500*	7,900*	9,300*	8,000*	6,500*	5,800*	5,300*	4,200*
	70	12,700*	10,800*	9,700*	10,100*	8,700*	7,500*	8,500*	7,300*	5,900*	5,500*	4,900*	4,200*
	80	11,400*	10,100*		9,200*	7,900*	7,000*	7,800*	6,500*	5,400*	5,200*	4,600*	3,900*
	90	10,200*			8,100*	7,400*		6,900*	5,800*	5,000*	4,800*	4,200*	3,500*
	100				7,400*			5,900*	5,300*	4,400*	4,400*	3,800*	3,000*
	110							5,400*		3,900*	3,900*	3,300*	
	120							5,400*		3,400*	3,400*	3,300*	
90	25	19,500*			15,400*			11,400*			7,700*		
	30	18,800*	15,900*		14,900*			11,100*			7,400*		
	35	18,100*	15,300*		14,400*	12,400*		10,800*	9,600*	7,400*	7,100*		
	40	17,400*	14,800*	12,700*	13,900*	11,900*	9,600*	10,200*	8,900*	7,400*	6,500*	5,700*	
	50	15,900*	13,700*	11,300*	12,900*	10,900*	8,900*	10,200*	8,900*	7,400*	6,500*	5,700*	4,600*
	60	14,800*	12,600*	10,400*	11,900*	9,900*	8,200*	9,600*	8,300*	6,700*	6,000*	5,400*	4,300*
	70	13,500*	11,500*	10,000*	10,800*	9,100*	7,700*	8,900*	7,600*	6,100*	5,700*	5,100*	4,000*
	80	12,300*	10,400*	9,500*	9,700*	8,300*	7,300*	8,200*	6,900*	5,600*	5,300*	4,800*	4,000*
	90	11,000*	9,900*		8,900*	7,700*		7,500*	6,200*	5,200*	5,000*	4,400*	3,700*
	100	10,100*			7,900*	7,200*		6,700*	5,700*	4,700*	4,700*	4,100*	3,300*
	110				7,400*			5,800*	5,200*	4,300*	4,300*	3,700*	3,000*
	120							5,300*		3,800*	3,800*	3,200*	
130									3,300*	3,300*	3,200*		
100	25	19,800*			15,100*			11,500*			7,800*		
	30	19,100*	16,100*		14,700*	12,600*		11,300*			7,500*		
	35	18,500*	15,600*	12,900*	14,200*	12,100*		11,000*	9,700*	7,500*	7,200*		
	40	17,800*	15,100*	12,500*	13,700*	11,600*	9,100*	10,400*	9,100*	7,500*	6,700*	5,700*	4,700*
	50	16,500*	14,100*	11,600*	13,300*	11,200*	8,400*	10,400*	9,100*	6,900*	6,200*	5,500*	4,400*
	60	15,300*	13,000*	10,700*	12,400*	10,200*	7,800*	9,800*	8,500*	6,300*	5,800*	5,200*	4,400*
	70	14,200*	12,100*	10,200*	11,400*	9,500*	7,800*	9,200*	7,900*	6,300*	5,800*	5,200*	4,400*
	80	13,000*	11,100*	9,800*	10,300*	8,800*	7,500*	8,600*	7,300*	5,800*	5,500*	4,900*	4,100*
	90	12,000*	10,300*		9,500*	8,000*	7,100*	7,900*	6,600*	5,500*	5,200*	4,600*	3,800*
	100	10,800*	9,800*		8,600*	7,600*		7,200*	5,900*	5,100*	4,900*	4,300*	3,500*
	110	10,000*			7,800*	7,100*		6,400*	5,500*	4,500*	4,500*	3,900*	3,100*
	120				7,300*			5,800*	5,100*	4,200*	4,200*	3,500*	3,100*
130							5,200*		3,700*	3,700*	3,100*		
140									3,200*	3,200*	3,100*		
110	30	19,400*			15,300*			11,600*			7,600*		
	35	18,800*	15,800*		14,900*			11,400*			7,400*		
	40	18,200*	15,300*	12,600*	14,500*	12,300*		11,100*	9,800*	7,600*	7,400*	5,800*	
	50	17,000*	14,400*	11,900*	13,600*	11,400*	9,200*	10,600*	9,200*	7,600*	6,900*	5,500*	4,800*
	60	15,800*	13,400*	11,000*	12,700*	10,600*	8,600*	10,000*	8,700*	7,100*	6,400*	5,000*	4,200*
	70	14,800*	12,500*	10,400*	11,800*	9,800*	8,000*	9,500*	8,100*	6,500*	5,900*	5,300*	4,500*
	80	13,700*	11,600*	10,000*	10,900*	9,100*	7,700*	8,900*	7,600*	5,900*	5,600*	5,000*	4,200*
	90	12,700*	10,700*	9,600*	9,900*	8,500*	7,300*	8,300*	7,000*	5,600*	5,400*	4,700*	3,900*
	100	11,700*	10,100*		9,200*	7,800*		7,700*	6,300*	5,300*	5,100*	4,400*	3,600*
	110	10,500*	9,700*		8,400*	7,500*		7,000*	5,800*	5,800*	4,800*	4,100*	3,300*
	120				7,700*	7,000*		6,300*	5,400*	4,400*	4,400*	3,800*	3,000*
	130				7,200*			5,700*	5,000*	4,100*	4,100*	3,400*	
140							5,200*		3,700*	3,700*	3,000*		
150									3,200*	3,200*	3,000*		

(continued)

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

Refer to NOTES page 191.91.

Boom length	Load radius	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°				
Feet	Feet	Pounds			Pounds			Pounds			Pounds						
120	30	19,600*			15,400*												
	35	19,100*	15,900*		15,100*			11,500*				7,700*					
	40	18,500*	15,500*		14,700*			11,200*				7,500*					
	50	17,400*	14,700*	12,800*	13,900*	11,700*	9,400*	10,700*	9,400*	7,700*	7,000*	5,800*					
	60	16,200*	13,800*	11,300*	13,100*	10,900*	8,800*	10,200*	8,900*	7,200*	6,500*	5,600*				4,800*	
	70	15,300*	12,900*	10,600*	12,200*	10,000*	8,200*	9,700*	8,300*	6,700*	6,100*	5,400*				4,600*	
	80	14,300*	12,100*	10,200*	11,400*	9,400*	7,800*	9,200*	7,800*	6,100*	5,800*	5,100*				4,300*	
	90	13,300*	11,300*	9,800*	10,500*	8,800*	7,500*	8,700*	7,300*	5,800*	5,500*	4,900*				4,100*	
	100	12,400*	10,400*	9,500*	9,700*	8,200*	7,200*	8,100*	6,700*	5,500*	5,200*	4,600*				3,800*	
	110	11,000*	10,000*		9,000*	7,700*		7,500*	6,100*	5,100*	5,000*	4,300*				3,500*	
	120	9,500	9,600		8,200*	7,300*		6,800*	5,700*	4,700*	4,700*	4,000*				3,200*	
	130	8,300			7,700*			6,100*	5,300*			3,700*					
	140				7,200*			5,600*				3,600*					
	150							5,100*				3,100*					
160																	
130	30	19,800*			15,200*			11,600*				7,800*					
	35	19,300*	16,100*		14,800*			11,300*				7,600*					
	40	18,800*	15,700*	12,900*	14,400*	12,600*		10,900*			7,100*						
	50	17,700*	14,900*	12,200*	14,100*	11,900*	9,500*	10,900*	9,500*		5,900*						
	60	16,700*	14,100*	11,600*	13,400*	11,100*	9,000*	10,400*	9,000*	7,300*	6,700*	5,700*				4,900*	
	70	15,700*	13,300*	10,900*	12,600*	10,300*	8,400*	9,900*	8,500*	6,800*	6,200*	5,400*				4,600*	
	80	14,800*	12,500*	10,300*	11,800*	9,700*	7,900*	9,400*	8,000*	6,300*	5,900*	5,200*				4,400*	
	90	13,900*	11,700*	10,000*	11,000*	9,100*	7,600*	8,900*	7,500*	5,900*	5,600*	5,000*				4,200*	
	100	12,600*	10,900*	9,700*	10,100*	8,500*	7,300*	8,400*	7,000*	5,600*	5,400*	4,700*				3,900*	
	110	10,800	10,300*		9,400*	7,900*	7,000*	7,800*	6,400*	5,300*	5,100*	4,500*				3,600*	
	120	9,300	9,400		8,800*	7,600*		7,300*	5,900*	4,900*	4,900*	4,200*				3,300*	
	130	8,100	8,100		8,100*	7,200*		6,600*	5,600*	4,600*	4,600*	3,900*				2,900*	
	140	7,000			7,100			5,900*	5,200*		4,300*	3,600*					
	150				6,200			5,500*			3,900*	3,300*					
160							5,100*			3,600*							
170										3,100*							
140	35	19,500*			15,300*			11,600*				7,600*					
	40	19,000*	15,800*		15,000*			11,400*				7,200*					
	50	18,000*	15,100*		14,300*			11,000*				7,000*					
	60	17,000*	14,400*	12,400*	13,600*	11,300*	9,600*	10,600*	9,100*	7,400*	6,800*	5,700*				4,900*	
	70	16,000*	13,600*	11,100*	12,900*	10,600*	8,600*	10,100*	8,700*	7,000*	6,400*	5,500*				4,700*	
	80	15,200*	12,800*	10,400*	12,200*	9,900*	8,100*	9,600*	8,200*	6,500*	6,000*	5,300*				4,500*	
	90	14,400*	12,100*	10,200*	11,400*	9,400*	7,800*	9,200*	7,700*	6,000*	5,700*	5,100*				4,200*	
	100	12,400	11,400*	9,900*	10,600*	8,900*	7,500*	8,700*	7,200*	5,700*	5,500*	4,800*				4,000*	
	110	10,600	10,600*	9,600*	9,800*	8,300*	7,100*	8,200*	6,700*	5,000*	5,300*	4,600*				3,600*	
	120	9,100	9,200		9,200	7,800*		7,600*	6,200*	4,300*	5,000*	4,300*				3,100*	
	130	7,900	7,900		8,000	7,500*		7,100*	5,800*		4,800*	4,100*				2,700*	
	140	6,800			6,900			6,500*	5,500*		4,500*	3,800*					
	150	5,900			6,000			5,900*	5,100*		4,200*	3,500*					
	160				5,200			5,300			3,900*	3,200*					
170							4,600			3,500*							
180										3,000*							
150	35	19,700*			15,500*			11,500*				7,700*					
	40	19,200*	16,000*		15,100*			11,100*				7,300*					
	50	18,300*	15,300*	12,500*	14,500*	12,200*	9,600*	10,700*	9,200*	7,500*	6,900*	5,800*					
	60	17,400*	14,600*	11,900*	13,800*	11,500*	9,200*	10,200*	8,800*	7,100*	6,500*	5,600*				4,700*	
	70	16,400*	13,900*	11,300*	13,200*	10,900*	8,700*	10,300*	8,800*	7,100*	6,600*	5,400*				4,500*	
	80	15,600*	13,100*	10,700*	12,500*	10,200*	8,300*	9,800*	8,400*	6,600*	6,100*	5,400*				4,300*	
	90	14,400	12,500*	10,300*	11,800*	9,600*	7,900*	9,400*	7,900*	6,200*	5,800*	5,100*				4,100*	
	100	12,100	11,800*	10,000*	11,000*	9,100*	7,600*	8,900*	7,500*	5,400*	5,600*	4,900*				4,100*	
	110	10,300	10,500	9,000*	10,300*	8,600*	7,400*	8,500*	7,000*	4,600*	5,400*	4,700*				3,400*	
	120	8,900	9,000		9,000	8,000*	5,500*	8,000*	6,500*	4,000*	5,200*	4,500*				2,900*	
	130	7,600	7,800		7,700	7,200*		7,400*	5,800*	3,400*	4,900*	4,200*				2,500*	

(continued)



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

Refer to NOTES page 191.91.

Boom length	Load radius	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°
Feet	Feet	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*		4.100*	3.200*	
	170				4.300			4.400			3.800*	2.800*	
	180							3.800			3.400*		
	190										3.000*		
160	35	19.800*			15.300*			11.600*			7.800*		
	40	19.400*	16.100*		14.600*	12.300*		11.200*	9.700*		7.400*		
	50	18.600*	15.400*	12.700*	14.000*	11.700*		10.800*	9.300*	7.600*	7.000*	5.800*	
	60	17.700*	14.800*	12.100*	13.400*	11.100*	9.300*	10.400*	8.900*	7.200*	6.700*	5.600*	4.800*
	70	16.800*	14.100*	11.500*	12.700*	10.400*	8.400*	10.000*	8.500*	6.800*	6.300*	5.400*	4.600*
	80	15.800*	13.400*	11.000*	12.100*	9.800*	8.000*	9.600*	8.100*	6.100*	5.900*	5.200*	4.400*
	90	13.800*	12.700*	10.400*	10.700*	9.400*	6.900*	9.200*	7.700*	5.200*	5.700*	5.000*	3.800*
	100	11.900	11.000*	9.200*	8.200*	7.100*	5.100*	8.300*	6.800*	4.300*	5.500*	4.800*	3.200*
	110	10.100	9.700*	8.000*	7.300*	6.300*	4.400*	7.400*	6.000*	3.700*	5.300*	4.600*	2.700*
	120	8.600	8.500*	7.000*	6.500	5.600*	3.900*	6.500*	5.100*	3.200*	5.100*	4.200*	2.300*
	130	7.400	7.600		6.200*	5.300*	3.700*	5.700*	4.500*	2.700*	4.900*	3.700*	2.000*
	140	6.400	6.500		5.600	4.900*	3.500*	5.100*	4.000*	2.400*	4.500*	3.300*	1.800*
	150	5.500	5.600		4.800	4.400*		4.500*	3.600*		4.000*	2.900*	
	160	4.700			4.100			4.200	3.200*		3.600*	2.600*	
	170	4.000			3.500			3.600			3.300*	2.300*	
	180										3.000*		
190										2.600			
200										2.600			
170	40	19.600*			15.400*			11.700*			7.500*		
	50	18.800*	15.600*	12.800*	14.800*	12.400*		11.300*	9.800*	7.700*	7.100*	5.800*	
	60	17.900*	15.000*	12.200*	14.200*	11.900*	9.400*	10.900*	9.400*	7.300*	6.800*	5.700*	4.800*
	70	16.700*	14.300*	11.700*	13.600*	11.300*	9.000*	10.500*	9.000*	7.000*	6.400*	5.500*	4.600*
	80	13.700*	13.100*	11.200*	12.600*	10.600*	8.600*	10.100*	8.700*	6.800*	6.300*	5.400*	4.600*
	90	12.000*	11.400*	9.700*	10.800*	9.700*	7.400*	9.800*	8.300*	5.600*	6.000*	5.300*	4.300*
	100	10.400*	9.700*	8.300*	9.400*	8.300*	6.300*	8.500*	7.100*	4.700*	5.800*	5.100*	3.600*
	110	9.100*	8.500*	7.200*	8.200*	7.200*	5.400*	7.300*	6.200*	4.000*	5.600*	5.100*	3.000*
	120	8.200*	7.500*	6.200*	7.200*	6.300*	4.600*	6.400*	5.200*	3.400*	5.400*	4.400*	2.600*
	130	7.200	6.700*	5.400*	6.300*	5.600*	4.000*	5.700*	4.600*	2.900*	5.000*	4.400*	2.200*
	140	6.100	5.900*		5.600*	4.900*		5.000*	4.000*	2.500*	4.400*	3.400*	1.900*
	150	5.200	5.300*		5.100*	4.400*		4.400*	3.600*		3.900*	3.000*	1.600*
	160	4.500	4.600		4.600	3.900*		4.000*	3.200*		3.500*	2.600*	
	170	3.800			3.900			3.600*	2.800*		3.100*	2.300*	
	180	3.200			3.300			3.200*			2.800*	2.100*	
	190							2.800			2.600*	1.900*	
200										2.400			
180	40	19.700*			15.500*			11.400*			7.600*		
	50	19.000*	15.700*	12.900*	14.900*	12.600*		11.000*	9.500*	7.400*	7.200*	5.900*	
	60	17.400*	15.100*	12.400*	14.400*	12.000*	9.500*	10.600*	9.100*	7.300*	6.900*	5.700*	4.900*
	70	14.100*	13.400*	11.900*	12.800*	11.400*	9.100*	10.100*	8.600*	6.300*	6.500*	5.500*	4.700*
	80	12.200*	11.600*	10.100*	11.100*	10.100*	8.000*	10.100*	8.000*	5.200*	6.200*	5.400*	4.000*
	90	10.500*	10.000*	8.700*	9.500*	8.700*	6.800*	8.600*	7.400*	5.200*	6.200*	5.400*	4.000*
	100	9.100*	8.600*	7.400*	8.300*	7.400*	5.700*	7.500*	6.400*	4.400*	5.900*	5.200*	3.400*
	110	8.000*	7.600*	6.400*	7.100*	6.400*	4.900*	6.500*	5.500*	3.700*	5.700*	4.600*	2.800*
	120	7.000*	6.500*	5.600*	6.300*	5.600*	4.200*	5.700*	4.700*	3.100*	5.000*	4.000*	2.400*
	130	6.200*	5.800*	4.800*	5.600*	4.900*	3.700*	4.900*	4.100*	2.700*	4.400*	3.400*	2.000*
	140	5.500*	5.100*		4.900*	4.300*	3.200*	4.400*	3.600*	2.400*	3.900*	3.000*	1.800*
150	5.000*	4.600*		4.400*	3.900*		3.900*	3.200*	2.000*	3.400*	2.600*	1.500*	

(continued)

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

Refer to NOTES page 191.91.

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				
180	160	4,300	4,100*		3,900*	3,400*		3,500*	2,800*		3,100*	2,300*	
	170	3,600	3,700		3,500*	3,100*		3,100*	2,500*		2,700*	2,000*	
	180	3,000			3,000			2,800*	2,300*		2,500*	1,800*	
	190	2,400			2,500			2,600			2,200*	1,600*	
	200							2,100			2,000*		
	210										1,700		
190	40	19,900*											
	50	18,100*	15,800*	13,000*	15,000*	12,700*		11,400*			7,600*		
	60	14,600*	14,100*	12,500*	13,400*	12,100*		11,100*	9,600*		7,300*	5,900*	
	70	12,500*	12,000*	10,700*	11,400*	10,600*	9,500*	8,700*	10,500*	9,200*	7,100*	7,000*	4,900*
	80	10,700*	10,200*	9,100*	9,800*	9,000*	7,300*	7,300*	9,000*	7,900*	5,800*	6,700*	5,600*
	90	9,300*	8,800*	7,700*	8,400*	7,600*	6,100*	6,100*	7,600*	6,700*	4,900*	6,300*	5,400*
	100	8,100*	7,500*	6,600*	7,200*	6,500*	5,200*	5,200*	6,600*	5,700*	4,000*	6,000*	4,900*
	110	7,100*	6,600*	5,700*	6,300*	5,700*	4,400*	4,400*	5,700*	4,900*	3,400*	5,200*	4,200*
	120	6,200*	5,700*	4,900*	5,500*	4,900*	3,800*	3,800*	5,000*	4,200*	2,900*	4,500*	3,600*
	130	5,500*	5,000*	4,400*	4,900*	4,300*	3,300*	3,300*	4,300*	3,600*	2,500*	3,900*	3,100*
	140	4,800*	4,500*	3,800*	4,300*	3,800*	2,900*	2,900*	3,800*	3,200*	2,100*	3,400*	2,700*
	150	4,300*	4,000*		3,800*	3,400*			3,400*	2,800*	1,900*	3,000*	2,300*
	160	3,800*	3,600*		3,400*	3,000*			3,000*	2,500*		2,700*	2,100*
	170	3,400	3,200*		3,100*	2,700*			2,700*	2,200*		2,300*	1,800*
	180	2,700	2,800		2,800*	2,400*			2,400*	2,000*		2,100*	1,600*
	190	2,200			2,300				2,200*	1,800*		1,900*	1,500*
	200	1,700			1,800				1,900			1,700*	
	210											1,500	



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.

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'.



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



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

PCSA Class 13-404

Refer to NOTES page 193.26.

Boom — tubular; 54" (1.37 m) wide, 44" (1.12 m) deep with 5' (1.52 m) long hammerhead top section, 1¼" (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.

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

Counterweights — Refer to charts below.

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

Hammerhead 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 and 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	25	7.62	Not applicable				25	7.62	Not applicable	
	Maximum	190	57.91					170	51.82		
"AB" upper and "A" bumper	Minimum	25	7.62	50 + 20	15.24 + 6.10	25	7.62	50 + 20	15.24 + 6.10		
	Maximum	200	60.96	180 + 50	54.86 + 15.24	190	57.91	160 + 50	48.77 + 15.24		
On tires ②											
"A" upper and "A" bumper	Minimum	25	7.62	Not applicable				25	7.62	Not applicable	
	Maximum	140	42.67					110	33.53		

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 hammerhead boom or boom + jib, with no load. ①

Standard HC-138A must be equipped with the counterweight combinations below when the indicated boom and boom + jib lengths are used.	Minimum/maximum boom or boom + jib lengths allowed	On tires ②									
		Jobsite moves 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	25*	7.62*	Not applicable				25*	7.62*	Not applicable	
	Maximum	190	57.91					110	33.53		
"AB" upper and "A" bumper	Minimum	25*	7.62*	50 + 20	15.24 + 6.10	25*	7.62*	50 + 20	15.24 + 6.10		
	Maximum	200	60.96	180 + 50	54.86 + 15.24	130	39.62	100 + 50	30.48 + 15.24		

*Boom live mast must be pinned in 19' 1" (5.82 m) position for carrying 25' or 30' (7.62 m or 9.14 m) long hammerhead booms.

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.

HC-138A lifting crane capacities — with hammerhead boom

PCSA Class 13-404
Refer to NOTES page 193.26.

Boom — tubular; 54" (1.37 m) wide, 44" (1.12 m) deep with 5' (1.52 m) long hammerhead top section, 1¼" (32 mm) diameter boom pendants, boom live mast, and boom midpoint suspension pendants as required.

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

Counterweights — Refer to charts page 193.21.

Boom						"A" upper & "A" bumper [⊙] counterweights								"AB" upper & "A" bumper counterweights			
Length	Radius		Angle Degrees	Boom point height [⊙]		On outriggers				On tires (static)				On outriggers only			
	Feet	meters		Feet	meters	Over rear		Over side and 360° swing [⊙]		Over rear		Over side		Over rear		Over side and 360° swing [⊙]	
					Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds
25' (7.62 m)	12	3.66	73.9	28' 0"	8.54	150,000*	68 038*	150,000*	68 038*	78,900*	35 788*	59,800*	27 124*	150,000*	68 038*	150,000*	68 038*
	13	3.96	71.2	27' 7"	8.41	150,000*	68 038*	150,000*	68 038*	76,300*	34 609*	56,000*	25 401*	150,000*	68 038*	150,000*	68 038*
	14	4.27	68.4	27' 1"	8.25	143,700*	65 181*	143,700*	65 181*	73,800*	33 475*	52,500*	23 813*	149,700*	67 902*	149,700*	67 902*
	15	4.57	65.5	26' 6"	8.08	135,800*	61 597*	135,800*	61 597*	71,400*	32 386*	49,500*	22 452*	141,400*	64 137*	141,400*	64 137*
	16	4.88	62.5	25' 10"	7.88	128,700*	58 377*	128,700*	58 377*	67,800*	30 753	46,700*	21 182*	134,000*	60 781*	134,000*	60 781*
	17	5.18	59.4	25' 2"	7.67	122,200*	55 428*	122,200*	55 428*	62,200	28 213	44,100	20 003	127,300*	57 742*	127,300*	57 742*
	18	5.49	56.2	24' 4"	7.42	116,200*	52 707*	116,200*	52 707*	57,400	26 036	40,600	18 415	121,200*	54 975*	121,200*	54 975*
	19	5.79	52.8	23' 5"	7.15	109,000*	49 441*	109,000*	49 441*	53,200	24 131	37,500	17 009	115,700*	52 480*	115,700*	52 480*
	20	6.10	49.3	22' 3"	6.84	102,600*	46 538*	102,600*	46 538*	49,600	22 498	34,800	15 785	110,600*	50 167*	110,600*	50 167*
	30' (9.14 m)	12	3.66	76.9	33' 4"	10.16	131,500*	59 647*	131,500*	59 647*	79,000*	35 833*	60,000*	27 215*	131,500*	59 647*	131,500*
13		3.96	74.7	33' 0"	10.05	131,500*	59 647*	131,500*	59 647*	76,300*	34 609*	56,100*	25 446*	131,500*	59 647*	131,500*	59 647*
14		4.27	72.5	32' 7"	9.93	131,500*	59 647*	131,500*	59 647*	73,900*	33 520*	52,700*	23 904*	131,500*	59 647*	131,500*	59 647*
15		4.57	70.3	32' 2"	9.80	131,500*	59 647*	131,500*	59 647*	71,600*	32 477*	49,700*	22 543*	131,500*	59 647*	131,500*	59 647*
16		4.88	68.0	31' 8"	9.65	128,900*	58 468*	128,900*	58 468*	68,300*	30 980*	46,900*	21 273*	131,500*	59 647*	131,500*	59 647*
17		5.18	65.7	31' 1"	9.48	122,400*	55 519*	122,400*	55 519*	62,800	28 485	44,400*	20 139*	127,500*	57 833*	127,500*	57 833*
18		5.49	63.3	30' 6"	9.30	116,600*	52 888*	116,600*	52 888*	57,900	26 263	41,100	18 642	121,400*	55 066*	121,400*	55 066*
19		5.79	60.8	29' 10"	9.10	109,500*	49 668*	109,500*	49 668*	53,700	24 357	38,000	17 236	115,900*	52 571*	115,900*	52 571*
20		6.10	58.3	29' 1"	8.87	103,000*	46 720*	103,000*	46 720*	50,100	22 724	35,400	16 057	110,800*	50 258*	110,800*	50 258*
25		7.62	43.8	27' 3"	7.38	79,400*	36 015*	79,400*	36 015*	31 161	16 737	25,700	11 657	87,000*	39 462*	83,700	37 965
40' (12.19 m)	12	3.66	80.5	43' 8"	13.32	120,400*	54 612*	120,400*	54 612*	78,700*	35 697*	59,800*	27 124*	120,400*	54 612*	120,400*	54 612*
	13	3.96	78.9	43' 5"	13.24	120,000*	54 431*	120,000*	54 431*	76,000*	34 473*	55,900*	25 355*	120,000*	54 431*	120,000*	54 431*
	14	4.27	77.3	43' 2"	13.15	119,700*	54 295*	119,700*	54 295*	73,600*	33 384*	52,500*	23 813*	119,700*	54 295*	119,700*	54 295*
	15	4.57	75.8	42' 10"	13.06	119,500*	54 204*	119,500*	54 204*	71,400*	32 386*	49,500*	22 452*	119,500*	54 204*	119,500*	54 204*
	16	4.88	74.2	42' 6"	12.95	119,500*	54 204*	119,500*	54 204*	68,400	31 025	46,800*	21 228*	119,500*	54 204*	119,500*	54 204*
	17	5.18	72.5	42' 1"	12.84	119,500*	54 204*	119,500*	54 204*	62,900	28 530	44,300*	20 094*	119,500*	54 204*	119,500*	54 204*
	18	5.49	70.9	41' 9"	12.71	116,400*	52 798*	116,400*	52 798*	58,000	26 308	41,200	18 688	119,500*	54 204*	119,500*	54 204*
	19	5.79	69.2	41' 3"	12.58	109,400*	49 623*	109,400*	49 623*	53,900	24 448	38,200	17 327	115,700*	52 480*	115,700*	52 480*
	20	6.10	67.6	40' 9"	12.43	103,000*	46 720*	103,000*	46 720*	50,200	22 770	35,500	16 102	110,600*	50 167*	110,600*	50 167*
	25	7.62	58.7	37' 10"	11.52	79,500*	36 060*	79,500*	36 060*	31 343	14 373	26,000	11 793	87,100*	39 507*	84,100	38 147
50' (15.24 m)	14	4.27	80.1	53' 6"	16.30	110,400*	50 076*	110,400*	50 076*	73,400*	33 293*	52,400*	23 768*	110,400*	50 076*	110,400*	50 076*
	15	4.57	78.8	53' 3"	16.23	109,500*	49 668*	109,500*	49 668*	71,200*	32 295*	49,500*	22 452*	109,500*	49 668*	109,500*	49 668*
	16	4.88	77.6	53' 0"	16.14	108,700*	49 305*	108,700*	49 305*	68,500*	31 071*	46,700*	21 182*	108,700*	49 305*	108,700*	49 305*
	17	5.18	76.3	52' 8"	16.06	108,000*	48 987*	108,000*	48 987*	63,100	28 621	44,200*	20 048*	108,000*	48 987*	108,000*	48 987*
	18	5.49	75.1	52' 4"	15.96	107,400*	48 715*	107,400*	48 715*	58,300	26 444	41,500	18 824	107,400*	48 715*	107,400*	48 715*
	19	5.79	73.8	52' 0"	15.86	106,800*	48 443*	106,800*	48 443*	54,100	24 539	38,400	17 417	106,800*	48 443*	106,800*	48 443*
	20	6.10	72.5	51' 8"	15.75	103,100*	46 765*	103,100*	46 765*	50,400	22 861	35,700	16 193	106,300*	48 216*	106,300*	48 216*
	25	7.62	66.0	49' 5"	15.07	79,600*	36 105*	79,600*	36 105*	31 570	16 964	26,200	11 884	87,200*	39 553*	84,600	38 373
	30	9.14	59.0	46' 6"	14.17	62,900	28 530	62,900	28 530	23 269	10 600	16,300	7 393	70,700*	32 068*	62,600	28 394
	35	10.67	51.4	42' 7"	12.98	49,600	22 498	49,600	22 498	18 234	8 300	12,300	5 600	58,600*	26 580	49,300	22 362
40	12.19	42.8	37' 5"	11.40	40,600	18 415	40,600	18 415	14 877	6 750	9,200	4 150	48,200	21 863	40,400	18 325	

[⊙] — Refer to page 193.26.

HC-138A hammerhead boom						"A" upper & "A" bumper [Ⓞ] counterweights								"AB" upper & "A" bumper counterweights			
Length	Radius		Angle	Boom point height [Ⓞ]		On outriggers				On tires (static)				On outriggers only			
	Feet	meters	Degrees	Feet	meters	Over rear		Over side and 360° swing [Ⓞ]		Over rear		Over side		Over rear		Over side and 360° swing [Ⓞ]	
						Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms
60' (18.29 m)	15	4.57	80.8	63' 6"	19.35	103,500*	46 946*	103,500*	46 946*	71,100*	32 250*	49,600*	22 498*	103,500*	46 946*	103,500*	46 946*
	16	4.88	79.8	63' 3"	19.28	102,500*	46 493*	102,500*	46 493*	68,500*	31 071*	46,800*	21 228*	102,500*	46 493*	102,500*	46 493*
	17	5.18	78.8	63' 0"	19.21	101,500*	46 039*	101,500*	46 039*	63,600*	28 848	44,300*	20 094*	101,500*	46 039*	101,500*	46 039*
	18	5.49	77.7	62' 9"	19.13	100,700*	45 676*	100,700*	45 676*	58,700*	26 625	41,900	19 005	100,700*	45 676*	100,700*	45 676*
	19	5.79	76.7	62' 6"	19.05	99,700*	45 223*	99,700*	45 223*	54,500	24 720	38,800	17 599	99,700*	45 223*	99,700*	45 223*
	20	6.10	75.7	62' 2"	18.96	99,000*	44 905*	99,000*	44 905*	50,800	23 042	36,100	16 374	99,000*	44 905*	99,000*	44 905*
	25	7.62	70.4	60' 5"	18.42	79,800*	36 196*	70,200	31 842	37,700	17 100	26,500	12 020	84,200*	38 192*	84,200*	38 192*
	30	9.14	64.9	58' 1"	17.71	63,400	28 757	51,700	23 450	29,600	13 426	20,500	9 298	68,100*	30 889*	63,100	28 621
	35	10.67	59.2	55' 2"	16.81	50,000	22 679	40,600	18 415	24,100	10 931	16,500	7 484	57,000*	25 854*	49,700	22 543
	40	12.19	53.0	51' 5"	15.68	40,900	18 551	33,200	15 059	20,100	9 117	13,600	6 168	48,500	22 999	40,700	18 461
50	15.24	38.5	40' 9"	12.43	29,600	13 426	23,700	10 750	14,700	6 667	9,600	4 354	35,200	15 966	29,400	13 335	
70' (21.34 m)	17	5.18	80.4	73' 3"	22.33	100,600*	45 631*	100,600*	45 631*	63,600	28 848	44,100*	20 003*	100,600*	45 631*	100,600*	45 631*
	18	5.49	79.6	73' 1"	22.27	99,600*	45 177*	99,600*	45 177*	58,700	26 625	41,800*	18 960*	99,600*	45 177*	99,600*	45 177*
	19	5.79	78.7	72' 10"	22.20	98,700*	44 769*	99,700*	44 769*	54,500	24 720	38,800	17 599	98,700*	44 769*	99,700*	44 769*
	20	6.10	77.8	72' 7"	22.12	97,900*	44 406*	97,900*	44 406*	50,800	23 042	36,100	16 374	97,900*	44 406*	97,900*	44 406*
	25	7.62	73.4	71' 1"	21.67	79,700*	36 151*	70,300	31 887	37,700	17 100	26,500	12 020	87,200*	39 553*	85,300	38 691
	30	9.14	68.9	69' 2"	21.08	63,500	28 803	51,800	23 496	29,600	13 426	20,500	9 298	70,700*	32 068*	63,200	28 667
	35	10.67	64.2	66' 9"	20.35	50,000	22 679	40,700	18 461	24,100	10 931	16,500	7 484	59,000	26 761	49,800	22 588
	40	12.19	59.3	63' 10"	19.45	41,000	18 597	33,200	15 059	20,100	9 117	13,600	6 168	48,500	21 999	40,700	18 461
	50	15.24	48.5	55' 11"	17.05	29,600	13 426	23,800	10 795	14,700	6 667	9,600	4 354	35,300	16 011	29,500	13 380
	60	18.29	35.3	43' 10"	13.37	22,700	10 296	18,000	8 164	11,200	5 080	7,000	3 175	27,300	12 383	22,600	10 251
80' (24.38 m)	18	5.49	80.9	83' 3"	25.38	95,000*	43 091*	95,000*	43 091*	58,700	26 625	41,600*	18 869*	95,000*	43 091*	95,000*	43 091*
	19	5.79	80.2	83' 1"	25.32	93,900*	42 592*	93,900*	42 592*	54,500	24 720	38,800	17 599	93,900*	42 592*	93,900*	42 592*
	20	6.10	79.4	82' 10"	25.25	92,600*	42 002*	92,600*	42 002*	50,800	23 042	36,100	16 374	92,600*	42 002*	92,600*	42 002*
	25	7.62	75.6	81' 7"	24.86	79,500*	36 060*	70,400	31 932	37,600	17 055	26,400	11 974	87,000*	39 462*	85,300	38 691
	30	9.14	71.8	79' 11"	24.36	63,500	28 803	51,900	23 541	29,500	13 380	20,400	9 253	70,500*	31 978*	63,200	28 667
	35	10.67	67.8	77' 11"	23.74	50,000	22 679	40,700	18 461	24,000	10 886	16,500	7 484	59,000	26 761	49,800	22 588
	40	12.19	63.7	75' 5"	22.99	41,000	18 597	33,200	15 059	20,000	9 071	13,500	6 123	48,500	21 999	40,700	18 461
	50	15.24	54.9	69' 0"	21.04	29,600	13 426	23,800	10 795	14,600	6 622	9,500	4 309	35,200	15 966	29,500	13 380
	60	18.29	45.0	60' 0"	18.29	22,700	10 296	18,000	8 164	11,100	5 034	6,900	3 129	27,300	12 383	22,600	10 251
	70	21.34	32.7	46' 9"	14.24	18,100	8 210	14,200	6 441	8,700	3 946	5,100	2 313	21,900	9 933	18,000	8 164
90' (27.43 m)	20	6.10	80.7	93' 1"	28.36	87,100*	39 507*	87,100*	39 507*	50,700	22 997	36,000	16 329	87,100*	39 507*	87,100*	39 507*
	25	7.62	77.3	91' 11"	28.02	79,200*	35 924*	70,400	31 932	37,500	17 009	26,400	11 974	82,000*	37 194*	82,000*	37 194*
	30	9.14	73.9	90' 6"	27.58	63,500	28 803	51,900	23 541	29,400	13 335	20,300	9 207	70,300*	31 887*	63,200	28 667
	35	10.67	70.5	88' 9"	27.04	50,000	22 679	40,700	18 461	23,900	10 840	16,400	7 438	58,800*	26 671*	49,700	22 543
	40	12.19	66.9	86' 7"	26.39	40,900	18 551	33,200	15 059	19,900	9 026	13,400	6 078	48,500	21 999	40,700	18 461
	50	15.24	59.5	81' 2"	24.74	29,600	13 426	23,700	10 750	14,500	6 577	9,400	4 263	35,200	15 966	29,400	13 335
	60	18.29	51.4	73' 10"	22.50	22,700	10 296	18,000	8 164	11,000	4 989	6,800	3 084	27,200	12 337	22,500	10 205
	70	21.34	42.1	63' 10"	19.45	18,000	8 164	14,200	6 441	8,600	3 900	5,000	2 267	21,800	9 888	17,900	8 119
80	24.38	30.6	49' 4"	15.05	14,800	6 713	11,400	5 170	6,800	3 084	3,700	1 678	18,000	8 164	14,700	6 667	
100' (30.48 m)	25	7.62	78.6	102' 3"	31.16	76,700*	34 790*	70,400	31 932	37,400	16 964	26,300	11 929	76,700*	34 790*	76,700*	34 790*
	30	9.14	75.6	100' 11"	30.76	63,500	28 803	51,800	23 496	29,300	13 290	20,200	9 162	69,900*	31 706*	63,100	28 621
	35	10.67	72.5	99' 4"	30.28	49,900	22 634	40,600	18 415	23,700	10 750	16,200	7 348	58,400*	26 489*	49,700	22 543
	40	12.19	69.4	97' 6"	29.71	40,800	18 506	33,100	15 013	19,700	8 935	13,300	6 032	48,400	21 953	40,600	18 415
	50	15.24	62.9	92' 9"	28.27	29,500	13 380	23,600	10 704	14,400	6 531	9,300	4 218	35,100	15 921	29,300	13 290
	60	18.29	56.0	86' 6"	26.36	22,600	10 251	17,900	8 119	10,900	4 944	6,700	3 039	27,100	12 292	22,400	10 160
	70	21.34	48.4	78' 3"	23.86	17,900	8 119	14,100	6 395	8,500	3 855	4,900	2 222	21,700	9 842	17,800	8 073
	80	24.38	39.7	67' 5"	20.54	14,700	6 667	11,300	5 125	6,700	3 039	3,500	1 587	17,900	8 119	14,600	6 622
	90	27.43	28.9	51' 10"	15.81	12,200	5 533	9,200	4 173	5,200	2 358	2,500	1 133	15,000	6 803	12,100	5 488

ⓄⓄ — Refer to page 193.26.

(continued)



HC-138A hammerhead boom						"A" upper & "A" bumper [Ⓞ] counterweights								"AB" upper & "A" bumper counterweights					
Length	Radius		Angle	Boom point height [Ⓞ]		On outriggers				On tires (static)				On outriggers only					
	Feet	meters	Degrees	Feet	meters	Over rear		Over side and 360° swing [Ⓞ]		Over rear		Over side		Over rear		Over side and 360° swing [Ⓞ]			
						Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms		
110' (33.53 m)	25	7.62	79.7	112' 5"	34.27	71,700*	32 522*	70,400	31 932	37,300	16 918	26,100	11 838	71,700*	32 522*	71,700*	32 522*		
	30	9.14	77.0	111' 3"	33.92	63,400	28 757	51,800	23 496	29,200	13 244	20,100	9 117	67,600*	30 662*	63,100	28 621		
	35	10.67	74.2	109' 10"	33.49	49,900	22 634	40,500	18 370	23,600	10 704	16,100	7 302	57,500*	26 081*	49,600	22 498		
	40	12.19	71.4	108' 2"	32.98	40,700	18 461	33,000	14 968	19,600	8 890	13,100	5 942	48,300	21 908	40,500	18 370		
	50	15.24	65.6	104' 0"	31.69	29,400	13 335	23,500	10 659	14,300	6 486	9,100	4 127	34,900	15 830	29,200	13 244		
	60	18.29	59.6	98' 6"	30.02	22,400	10 160	17,700	8 028	10,800	4 898	6,600	2 993	27,000	12 246	22,300	10 115		
	70	21.34	53.1	91' 6"	27.88	17,800	8 073	14,000	6 350	8,300	3 764	4,700	2 131	21,600	9 797	17,700	8 028		
	80	24.38	45.9	82' 6"	25.14	14,600	6 622	11,200	5 080	6,500	2 948	3,400	1 542	17,800	8 073	14,500	6 577		
	90	27.43	37.7	70' 9"	21.56	12,100	5 488	9,100	4 127	5,100	2 313	2,400	1 088	14,900	6 758	12,000	5 443		
	100	30.48	27.4	54' 3"	16.53	10,100	4 581	7,500	3 401	4,000	1 814	—	—	12,600	5 715	10,000	4 535		
120' (36.58 m)	25	7.62	80.6	122' 8"	37.38	66,200*	30 027*	66,200*	30 027*	37,100	16 828	26,000	11 793	66,200*	30 027*	66,200*	30 027*		
	30	9.14	78.1	121' 7"	37.06	62,700*	28 440*	51,700	23 450	29,000	13 154	19,900	9 026	62,700*	28 440*	62,700*	28 440*		
	35	10.67	75.6	120' 4"	36.67	49,800	22 588	40,400	18 325	23,400	10 614	16,000	7 257	56,700*	25 718*	49,500	22 452		
	40	12.19	73.1	118' 9"	36.20	40,600	18 415	32,900	14 923	19,400	8 799	13,000	5 896	48,200	21 863	40,400	18 325		
	50	15.24	67.8	115' 0"	35.04	29,200	13 244	23,400	10 614	14,100	6 395	9,000	4 082	34,800	15 785	29,100	13 199		
	60	18.29	62.4	110' 1"	33.55	22,300	10 115	17,600	7 983	10,600	4 808	6,400	2 902	26,900	12 201	22,200	10 069		
	70	21.34	56.7	103' 11"	31.66	17,700	8 028	13,900	6 304	8,200	3 719	4,600	2 086	21,500	9 752	17,600	7 983		
	80	24.38	50.6	96' 2"	29.31	14,400	6 531	11,100	5 034	6,300	2 857	3,200	1 451	17,600	7 983	14,400	6 531		
	90	27.43	43.8	86' 6"	26.36	11,900	5 397	9,000	4 082	5,000	2 267	2,200	997	14,800	6 713	11,900	5 397		
	100	30.48	36.0	73' 11"	22.54	10,000	4 535	7,400	3 356	3,800	1 723	—	—	12,500	5 669	9,900	4 490		
	110	33.53	26.2	56' 6"	17.22	8,400	3 810	6,000	2 721	2,900	1 315	—	—	10,700	4 853	8,300	3 764		
130' (39.62 m)	30	9.14	79.1	131' 10"	40.18	58,100*	26 353*	51,600	23 405	28,900	13 108	19,800	8 981	58,100*	26 353*	58,100*	26 353*		
	35	10.67	76.8	130' 8"	39.82	49,700	22 543	40,300	18 279	23,300	10 568	15,800	7 166	53,400*	24 221*	49,400	22 407		
	40	12.19	74.4	129' 3"	39.40	40,500	18 370	32,800	14 877	19,300	8 754	12,800	5 805	48,000*	21 772*	40,300	18 279		
	50	15.24	69.7	125' 9"	38.34	29,100	13 199	23,200	10 523	13,900	6 304	8,800	3 991	34,700	15 739	28,900	13 108		
	60	18.29	64.8	121' 4"	36.99	22,200	10 069	17,500	7 937	10,400	4 717	6,200	2 812	26,700	12 110	22,000	9 979		
	70	21.34	59.6	115' 10"	35.30	17,500	7 937	13,700	6 214	8,000	3 628	4,400	1 995	21,300	9 661	17,400	7 892		
	80	24.38	54.2	109' 0"	33.22	14,300	6 486	10,900	4 944	6,200	2 812	3,100	1 406	17,400	7 892	14,200	6 441		
	90	27.43	48.4	100' 8"	30.67	11,800	5 352	8,900	4 036	4,800	2 177	2,000	907	14,700	6 667	11,700	5 307		
	100	30.48	41.9	90' 3"	27.51	9,800	4 445	7,200	3 265	3,700	1 678	—	—	12,400	5 624	9,800	4 445		
	110	33.53	34.4	77' 0"	23.47	8,300	3 764	5,900	2 676	2,800	1 270	—	—	10,600	4 808	8,200	3 719		
120	36.58	25.1	58' 8"	17.87	7,000	3 175	4,800	2 177	2,000	907	—	—	9,000	4 082	6,900	3 129			
140' (42.67 m)	30	9.14	79.9	139' 8"	42.57	53,800*	24 404*	51,500	23 360	28,700	13 018	19,600	8 891	53,800*	24 403*	53,800*	24 403*		
	35	10.67	77.7	137' 6"	41.60	48,900*	22 181*	40,200	18 235	23,100	10 478	15,700	7 122	48,900*	22 180*	48,900*	22 180*		
	40	12.19	75.6	136' 6"	40.36	40,400	18 325	32,700	14 832	19,100	8 663	12,700	5 760	45,000*	20 411*	40,100	18 189		
	50	15.24	71.2	132' 5"	38.83	29,000	13 154	23,100	10 477	13,800	6 259	8,600	3 900	34,500	15 648	28,800	13 063		
	60	18.29	66.7	127' 5"	37.83	22,000	9 979	17,300	7 847	10,300	4 672	6,000	2 721	26,600	12 065	21,900	9 933		
	70	21.34	62.1	127' 5"	36.83	17,300	7 847	13,600	6 168	7,800	3 538	4,200	1 905	21,100	9 570	17,200	7 801		
	80	24.38	57.2	121' 3"	36.96	14,100	6 395	10,800	4 898	6,000	2 721	2,900	1 315	17,300	7 847	14,000	6 350		
	90	27.43	52.0	113' 10"	34.71	11,600	5 261	8,700	3 946	4,600	2 086	1,900	861	14,500	6 577	11,500	5 216		
	100	30.48	46.4	104' 11"	31.98	9,700	4 399	7,100	3 220	3,500	1 587	—	—	12,200	5 533	9,600	4 354		
	110	33.53	40.2	93' 11"	28.62	8,100	3 674	5,800	2 630	2,600	1 179	—	—	10,400	4 717	8,000	3 628		
	120	36.58	33.1	79' 11"	24.36	6,800	3 084	4,700	2 131	—	—	—	—	8,900	4 036	6,800	3 084		
130	39.62	24.1	60' 9"	18.50	5,700	2 585	3,800	1 723	—	—	—	—	7,600	3 447	5,700	2 585			
150' (45.72 m)	30	9.14	80.6	152' 3"	46.40	48,500*	21 999*	48,500*	21 999*	—	—	—	—	48,500*	21 999*	48,500*	21 999*		
	35	10.67	78.6	151' 2"	46.09	45,100*	20 457*	40,200	18 234	—	—	—	—	45,100*	20 457*	45,100*	20 457*		
	40	12.19	76.6	150' 0"	45.72	40,300	18 279	32,600	14 787	—	—	—	—	41,600*	18 869*	40,000	18 143		
	50	15.24	72.5	147' 1"	44.82	28,800	13 063	22,900	10 387	—	—	—	—	32,400*	14 696*	28,600	12 972		
	60	18.29	68.4	143' 4"	43.68	21,800	9 888	17,100	7 756	—	—	—	—	26,400	11 974	21,700	9 842		
	70	21.34	64.1	138' 8"	42.27	17,200	7 801	13,400	6 078	—	—	—	—	21,000	9 525	17,000	7 711		
	80	24.38	59.7	133' 2"	40.58	14,000	6 350	10,600	4 808	—	—	—	—	17,100	7 756	13,900	6 304		
	90	27.43	55.0	126' 6"	38.55	11,400	5 170	8,500	3 855	—	—	—	—	14,300	6 486	11,400	5 170		
	100	30.48	50.1	118' 6"	36.13	9,500	4 309	6,900	3 129	—	—	—	—	12,000	5 443	9,400	4 263		
	110	33.53	44.7	109' 0"	33.22	7,900	3 583	5,500	2 494	—	—	—	—	10,200	4 626	7,800	3 538		
	120	36.58	38.8	97' 5"	29.68	6,600	2 993	4,500	2 041	—	—	—	—	8,700	3 946	6,500	2 948		
130	39.62	31.9	82' 9"	25.22	5,500	2 494	3,600	1 632	—	—	—	—	7,400	3 356	5,500	2 494			
140	42.67	23.2	62' 8"	19.11	4,600	2 086	2,800	1 270	—	—	—	—	6,400	2 902	4,500	2 041			

Not applicable

ⓄⓄ — Refer to page 193.26.

(continued)

HC-138A hammerhead boom						"A" upper & "A" bumper [ⓐ] counterweights								"AB" upper & "A" bumper counterweights			
Length	Radius		Angle	Boom point height [ⓑ]		On outriggers				On tires (static)				On outriggers only			
	Feet	meters		Feet	meters	Over rear		Over side and 360° swing [ⓐ]		Over rear		Over side		Over rear		Over side and 360° swing [ⓐ]	
			Degrees			Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms
160' (48.77 m)	35	10.67	79.3	161' 5"	49.20	40,700*	18 461*	40,000	18 143	Not applicable				40,700*	18 461*	40,700*	18 461*
	40	12.19	77.5	160' 4"	48.86	37,700*	17 100*	32,500	14 741					37,700*	17 100*	37,700*	17 100*
	50	15.24	73.7	157' 7"	48.02	28,700	13 018	22,800	10 341					30,100*	13 653*	28,500	12 927
	60	18.29	69.8	154' 1"	46.96	21,700	9 842	17,000	7 711					24,900*	11 294*	21,500	9 752
	70	21.34	65.9	149' 10"	45.66	17,000	7 711	13,200	5 987					20,700*	9 389*	16,900	7 665
	80	24.38	61.8	144' 8"	44.10	13,800	6 259	10,400	4 717					16,900*	7 665*	13,700	6 214
	90	27.43	57.6	138' 8"	42.25	11,300	5 125	8,300	3 764					13,800*	6 259*	11,200	5 080
	100	30.48	53.1	131' 6"	40.07	9,300	4 218	6,700	3 039					11,800	5 352	9,200	4 173
	110	33.53	48.3	123' 0"	37.49	7,700	3 492	5,400	2 449					10,000	4 535	7,700	3 492
	120	36.58	43.2	112' 11"	34.42	6,400	2 902	4,300	1 950					8,500	3 855	6,400	2 902
	130	39.62	37.4	100' 9"	30.70	5,400	2 449	3,400	1 542					7,300	3 311	5,300	2 404
140	42.67	30.8	85' 5"	26.04	4,400	1 995	2,600	1 179	6,200	2 812	4,400	1 995					
150	45.72	22.4	64' 7"	19.70	3,600	1 632	2,000	907	5,300	2 404	3,600	1 632					
170' (51.82 m)	35	10.67	80.0	171' 7"	52.31	36,300*	16 465*	36,300*	16 465*	Not applicable				36,300*	16 465*	36,300*	16 465*
	40	12.19	78.2	170' 7"	51.99	32,100*	14 560*	32,100*	14 560*					32,100*	14 560*	32,100*	14 560*
	50	15.24	74.7	168' 0"	51.21	26,800*	12 156*	22,700	10 296					26,800*	12 156*	26,800*	12 156*
	60	18.29	71.1	164' 9"	50.22	21,500	9 752	16,800	7 620					22,600*	10 251*	21,400	9 706
	70	21.34	67.4	160' 9"	49.01	16,800	7 620	13,100	5 942					19,100*	8 663*	16,700	7 574
	80	24.38	63.6	156' 1"	47.56	13,600	6 168	10,300	4 672					15,300*	6 939*	13,500	6 123
	90	27.43	59.7	150' 5"	45.86	11,100	5 034	8,100	3 674					13,200*	5 987*	11,000	4 989
	100	30.48	55.6	143' 11"	43.86	9,100	4 127	6,500	2 948					11,500*	5 216*	9,000	4 082
	110	33.53	51.3	136' 3"	41.53	7,500	3 401	5,200	2 358					9,800	4 445	7,500	3 401
	120	36.58	46.8	127' 4"	38.80	6,300	2 857	4,100	1 859					8,300	3 764	6,200	2 812
	130	39.62	41.8	116' 9"	35.58	5,200	2 358	3,200	1 451					7,100	3 220	5,100	2 313
140	42.67	36.3	104' 0"	31.69	4,300	1 950	2,400	1 088	6,000	2 721	4,200	1 905					
150	45.72	29.0	88' 1"	26.84	3,500	1 587	—	—	5,100	2 313	3,400	1 542					
160	48.77	21.7	66' 6"	20.26	2,800	1 270	—	—	4,300	1 950	2,700	1 224					
180' (54.86 m)	35	10.67	80.5	181' 10"	55.41	31,100*	14 106*	31,100*	14 106*	Not applicable				31,100*	14 106*	31,100*	14 106*
	40	12.19	78.9	180' 10"	55.11	28,500*	12 927*	28,500*	12 927*					28,500*	12 927*	28,500*	12 927*
	50	15.24	75.6	178' 5"	54.37	23,800*	10 795*	22,500	10 205					23,800*	10 795*	23,800*	10 795*
	60	18.29	72.2	175' 4"	53.44	19,900*	9 026*	16,600	7 529					19,900*	9 026*	19,900*	9 026*
	70	21.34	68.8	171' 8"	52.31	15,800*	7 166*	12,900	5 851					15,800*	7 166*	15,800*	7 166*
	80	24.38	65.2	167' 2"	50.96	13,400	6 078	10,100	4 581					13,600*	6 168*	13,300	6 032
	90	27.43	61.6	162' 0"	49.38	10,900	4 944	8,000	3 628					11,700*	5 307*	10,800	4 898
	100	30.48	57.8	156' 0"	47.54	8,900	4 036	6,300	2 857					10,000*	4 535*	8,900	4 036
	110	33.53	53.9	149' 0"	45.41	7,400	3 356	5,000	2 267					8,800*	3 991*	7,300	3 311
	120	36.58	49.8	140' 11"	42.94	6,100	2 766	3,900	1 769					7,700*	3 492*	6,000	2 721
	130	39.62	45.3	131' 6"	40.07	5,000	2 267	3,000	1 360					6,700*	3 039*	4,900	2 222
140	42.67	40.5	120' 5"	36.69	4,100	1 859	2,300	1 043	5,800	2 630	4,000	1 814					
150	45.72	35.2	107' 1"	32.65	3,300	1 496	—	—	4,900	2 222	3,200	1 451					
160	48.77	28.9	90' 7"	27.61	2,600	1 179	—	—	4,100	1 859	2,600	1 179					
170	51.82	21.0	68' 3"	20.81	2,000	907	—	—	3,400	1 542	2,000	907					
190' (57.91 m)	40	12.19	79.5	191' 0"	58.22	25,200*	11 430*	25,200*	11 430*	Not applicable				25,200*	11 430*	25,200*	11 430*
	50	15.24	76.4	188' 9"	57.53	21,200*	9 616*	21,200*	9 616*					21,200*	9 616*	21,200*	9 616*
	60	18.29	73.2	185' 10"	56.65	17,600*	7 983*	16,500	7 484					17,600*	7 983*	17,600*	7 983*
	70	21.34	70.0	182' 4"	55.59	14,000*	6 350*	12,700	5 760					14,000*	6 350*	14,000*	6 350*
	80	24.38	66.6	178' 3"	54.32	11,900*	5 397*	9,900	4 490					11,900*	5 397*	11,900*	5 397*
	90	27.43	63.3	173' 5"	52.85	10,200*	4 626*	7,800	3 538					10,200*	4 626*	10,200*	4 626*
	100	30.48	59.8	167' 9"	51.14	8,800*	3 991*	6,100	2 766					8,800*	3 991*	8,700	3 946
	110	33.53	56.1	161' 4"	49.17	7,200	3 265	4,800	2 177					7,700*	3 492*	7,100	3 220
	120	36.58	52.3	153' 11"	46.91	5,900	2 676	3,700	1 678					6,700*	3 039*	5,800	2 630
	130	39.62	48.3	145' 4"	44.30	4,800	2 177	2,800	1 270					5,900*	2 6 6*	4,700	2 131
	140	42.67	44.0	135' 6"	41.30	3,900	1 769	2,100	952					5,200*	2 358*	3,800	1 723
150	45.72	39.4	123' 11"	37.78	3,100	1 406	—	—	4,600*	2 086*	3,000	1 360					
160	48.77	34.2	110' 2"	33.57	2,400	1 088	—	—	3,900	1 769	2,400	1 088					
170	51.82	28.1	—	—	—	—	—	—	3,200	1 451	—	—					
180	54.86	20.5	—	—	—	—	—	—	2,600	1 179	—	—					

ⓐⓑ — Refer to page 193.26.

(continued)



HC-138A hammerhead boom						"A" upper & "A" bumper [ⓐ] counterweights								"AB" upper & "A" bumper counterweights			
Length	Radius		Angle	Boom point height [ⓑ]		On outriggers				On tires (static)				On outriggers only			
	Feet	meters	Degrees	Feet	meters	Over rear		Over side and 360° swing [ⓐ]		Over rear		Over side		Over rear		Over side and 360° swing [ⓐ]	
						Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms
200' (60.96 m)	40	12.19	80.0	201'	2"	61.33								22,600*	10 251*	22,600*	10 251*
	50	15.24	77.1	199'	1"	60.67								18,700*	8 482*	18,700*	8 482*
	60	18.29	74.1	196'	4"	59.84								14,600*	6 622*	14,600*	6 622*
	70	21.34	71.0	193'	0"	58.84								12,300*	5 579*	12,300*	5 579*
	80	24.38	67.9	189'	2"	57.65								10,600*	4 808*	10,600*	4 808*
	90	27.43	64.7	184'	7"	56.26								9,100*	4 127*	9,100*	4 127*
	100	30.48	61.4	179'	4"	54.66								7,800*	3 538*	7,800*	3 538*
	110	33.53	58.1	173'	4"	52.83								6,700*	3 039*	6,700*	3 039*
	120	36.58	54.5	166'	6"	50.74								5,900*	2 676*	5,600*	2 540
	130	39.62	50.9	158'	8"	48.35								5,100*	2 313*	4,500*	2 041
	140	42.67	47.0	149'	8"	45.63								4,600*	2 086*	3,600*	1 632
	150	45.72	42.8	139'	5"	42.48								4,100*	1 859*	2,800*	1 270
	160	48.77	38.3	127'	5"	38.83								3,600*	1 632*	2,200*	997
	170	51.82	33.2	113'	1"	34.47								3,000	1 360	—	—
180	54.86	27.4	95'	5"	29.09								2,400	1 088	—	—	

Not applicable

[ⓐ]Applicable only to machines with booms 25' (7.62 m) through 190' (57.91 m) long — without jib. "AB" upper and "A" bumper counterweights are required for booms 200' (60.96 m) long — without jib, and booms 50' (15.24 m) through 180' (54.86 m) long — with jib. Jib

operation is not permitted on boom when machine is equipped with "A" upper and "A" bumper counterweights.

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

[ⓐ]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 hammerhead 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" diameter — 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 50' (15.24 m) or longer than 180' (54.86 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 hammerhead boom capacities except basic 25' and 30' (7.62 m and 9.14 m) booms. Boom live mast, pinned in retracted (19' 1" — 5.82 m) height, required when using basic 25' and 30' (7.62 m and 9.14 m) booms.
- 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. (726 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.

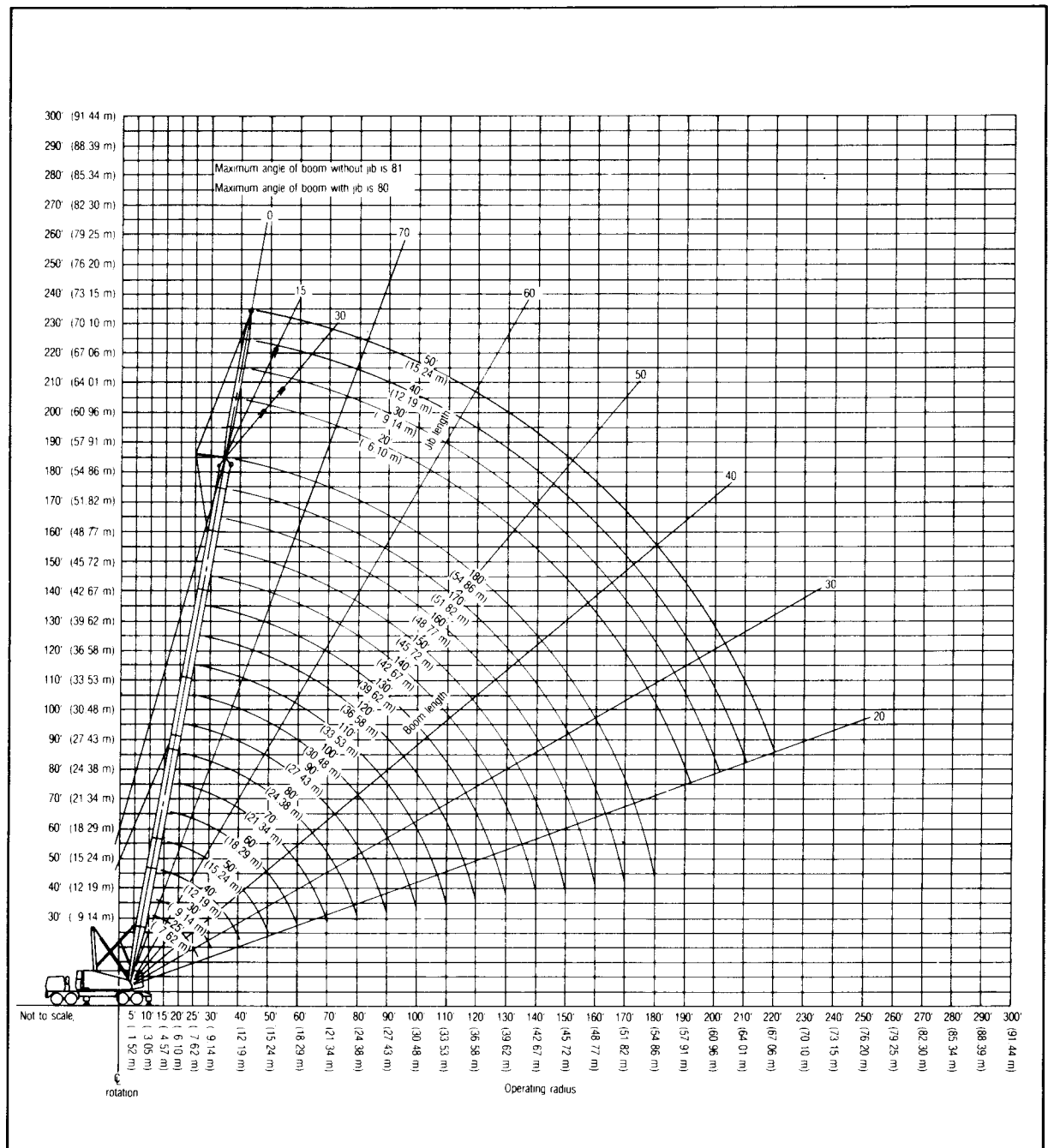
HC-138A boom/jib working ranges

Boom — tubular; 54" (1.37 m) wide, 44" (1.12 m) deep with 5' (1.52 m) long hammerhead top section, 1 1/4" (32 mm) diameter boom pendants, boom live mast, and boom midpoint suspension pendants as required.

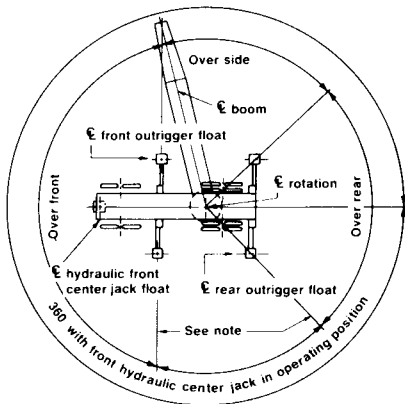
Jib — tubular; 30" (0.76 m) wide, 24" (0.61 m) deep.

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

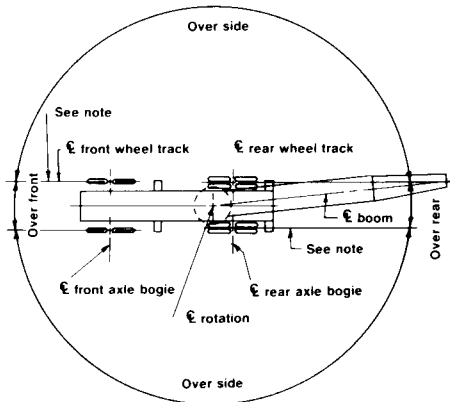
Counterweights — Refer to charts page 193.21.



HC-138A working areas



Rubber tire mobile base on outriggers



Rubber tire mobile base on tires

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



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

Refer to NOTES page 193.89.

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

Jib — tubular: 30" wide, 24" deep.

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

Boom — tubular: 54" wide, 44" deep with 5' long hammerhead top section, 1¼" diameter boom pendants, boom live mast, and boom midpoint suspension pendants as required.

Boom length Feet	Load radius Feet	Capacities on outriggers — over side and 360° swing											
		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													
50	17	19,700*											
	18	19,500*			15,500*								
	19	19,300*			15,400*				11,800*				
	20	19,100*			15,200*				11,700*				
	25	18,000*	15,600*	13,300*	14,500*	12,900*			11,200*		7,600*		
	30	16,800*	14,700*	12,500*	13,700*	12,100*			10,800*	9,900*	7,200*		
	35	15,700*	13,800*	11,800*	13,000*	11,400*	9,600*		10,400*	9,400*	6,800*	5,900*	
	40	14,800*	12,900*	11,000*	12,200*	10,600*	9,000*		9,900*	9,000*	6,400*	5,700*	
	50	12,800*	11,200*	9,900*	10,500*	9,200*	7,900*		8,900*	8,000*	6,800*	5,700*	4,800*
	60	10,800*	9,900*		9,100*	8,000*	7,200*		7,900*	6,900*	5,800*	5,300*	4,300*
	70				7,800*	7,200*			6,800*	5,900*	5,200*	4,800*	3,800*
80								5,700*	5,100*		4,300*	3,200*	
90											3,600*		
60	18	19,900*											
	19	19,700*			15,600*								
	20	19,500*			15,500*								
	25	18,600*	15,900*		14,900*				11,400*		7,700*		
	30	17,600*	15,200*	12,900*	14,200*	12,500*			11,000*		7,400*		
	35	16,600*	14,400*	12,200*	13,500*	11,800*	9,800*		10,600*	9,600*	7,000*	6,100*	
	40	15,600*	13,600*	11,500*	12,800*	11,100*	9,300*		10,200*	9,200*	6,600*	5,800*	
	50	13,900*	12,100*	10,300*	11,400*	9,800*	8,300*		9,400*	8,400*	6,000*	5,500*	4,900*
	60	12,200*	10,500*	9,700*	9,900*	8,700*	7,600*		8,500*	7,500*	6,100*	5,500*	4,500*
	70	10,400*	9,700*		8,700*	7,700*	7,000*		7,500*	6,500*	5,100*	4,600*	4,000*
	80				7,600*	7,000*			6,500*	5,700*	4,700*	4,200*	3,500*
90								5,500*	5,000*	4,100*	3,700*	3,000*	
100										3,500*	3,000*		
70	20	19,900*											
	25	19,000*	16,300*		15,100*				11,600*		7,800*		
	30	18,200*	15,600*	13,100*	14,500*	12,700*			11,200*		7,500*		
	35	17,300*	14,900*	12,500*	14,000*	12,100*			10,900*	9,800*	7,200*		
	40	16,400*	14,200*	11,900*	13,300*	11,500*	9,500*		10,500*	9,400*	6,900*	5,900*	
	50	14,800*	12,800*	10,700*	12,100*	10,200*	8,600*		9,800*	8,700*	6,200*	5,600*	4,900*
	60	13,300*	11,500*	10,000*	10,800*	9,200*	7,800*		9,000*	7,900*	6,000*	5,700*	4,600*
	70	11,800*	10,300*		9,500*	8,300*	7,300*		8,100*	7,000*	5,800*	5,300*	4,200*
	80	10,300*	9,600*		8,400*	7,600*			7,200*	6,100*	5,000*	4,400*	3,800*
	90				7,500*				6,200*	5,500*	4,500*	4,000*	3,300*
	100								5,400*		4,000*	3,500*	
110										3,400*			
80	25	19,400*			15,400*				11,700*		7,700*		
	30	18,600*	15,800*		14,800*	12,900*			11,400*		7,400*		
	35	17,800*	15,200*	12,800*	14,300*	12,400*			11,100*	9,900*	7,400*		
	40	17,000*	14,600*	12,300*	13,700*	11,800*			10,700*	9,600*	7,100*	6,000*	
	50	15,500*	13,400*	11,200*	12,600*	10,700*	9,700*		10,000*	8,900*	6,400*	5,700*	5,000*
	60	14,200*	12,200*	10,300*	11,500*	9,700*	8,100*		9,300*	8,200*	5,900*	5,300*	4,700*
	70	12,800*	11,000*	9,800*	10,200*	8,800*	7,600*		8,600*	7,400*	6,000*	5,500*	4,300*
	80	11,400*	10,100*		9,200*	7,900*	7,100*		7,800*	6,600*	5,500*	5,200*	4,000*
	90				8,200*	7,400*			7,000*	5,900*	4,800*	4,300*	3,600*
	100				7,400*				6,000*	5,400*	4,400*	3,800*	3,100*
	120								5,400*		3,900*	3,400*	

(continued)

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

Refer to NOTES page 193.89.

Boom length	Load radius	Capacities on outriggers — over side and 360° swing											
		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°
Feet	Feet	Pounds			Pounds			Pounds			Pounds		
90	25	19,700*			15,600*			11,500*			7,800*		
	30	19,000*	16,100*		15,100*			11,200*			7,500*		
	35	18,300*	15,500*	13,000*	14,600*	12,600*		10,900*	9,700*		7,200*		
	40	17,600*	15,000*	12,500*	14,100*	12,100*	9,800*	10,300*	9,100*	7,600*	6,800*	5,700*	
	50	16,100*	13,900*	11,600*	13,100*	11,100*	9,100*	10,300*	9,100*	7,600*	6,600*	5,700*	4,800*
	60	14,900*	12,700*	10,600*	12,000*	10,000*	8,400*	9,700*	8,400*	7,000*	6,100*	5,400*	4,400*
	70	13,600*	11,700*	10,100*	10,900*	9,300*	7,800*	9,000*	7,800*	6,300*	5,700*	5,100*	4,400*
	80	12,400*	10,500*	9,600*	9,800*	8,500*	7,400*	8,300*	7,100*	5,700*	5,400*	4,800*	4,100*
	90	11,100*	10,000*		8,900*	7,800*		7,500*	6,300*	5,400*	5,000*	4,500*	3,800*
	100	10,100*			7,900*	7,300*		6,700*	5,700*		4,700*	4,100*	3,400*
	110				7,400*			5,900*	5,200*		4,300*	3,700*	3,000*
	120							5,300*			3,800*	3,300*	
	130										3,300*		
100	30	19,300*	16,400*		15,300*			11,600*			7,900*		
	35	18,700*	15,800*	13,200*	14,800*	12,800*		11,400*			7,600*		
	40	18,000*	15,300*	12,800*	14,400*	12,300*	9,900*	11,100*	9,800*		7,300*		
	50	16,700*	14,300*	11,900*	13,400*	11,400*	9,300*	10,500*	9,300*	7,800*	6,800*	5,800*	
	60	15,400*	13,200*	11,000*	12,500*	10,400*	8,700*	9,900*	8,700*	7,200*	6,300*	5,500*	4,800*
	70	14,300*	12,200*	10,300*	11,500*	9,600*	8,000*	9,300*	8,100*	7,200*	6,500*	5,800*	5,300*
	80	13,100*	11,200*	9,900*	10,400*	8,900*	7,600*	8,700*	7,400*	5,900*	5,500*	5,000*	4,200*
	90	12,000*	10,300*		9,500*	8,100*	7,200*	8,000*	6,700*	5,600*	5,200*	4,700*	3,900*
	100	10,200*	9,800*		8,700*	7,600*		7,300*	6,000*	5,200*	4,900*	4,300*	3,600*
	110	8,600			7,900*	7,100*		6,500*	5,600*		4,600*	4,000*	3,200*
	120				7,300*			5,800*	5,100*		4,200*	3,600*	
	130							5,200*			3,800*	3,200*	
	140										3,200*		
110	30	19,600*	16,000*		15,400*			11,700*			7,700*		
	35	19,000*	15,500*		15,000*			11,500*			7,500*		
	40	18,400*	15,000*	12,900*	14,600*	12,500*		11,200*	9,900*		7,000*		
	50	17,200*	14,600*	12,100*	13,700*	11,700*	9,500*	10,700*	9,400*	7,900*	7,000*	5,900*	
	60	15,900*	13,600*	11,300*	12,900*	10,800*	8,900*	10,100*	8,800*	7,300*	6,500*	5,600*	4,900*
	70	14,900*	12,700*	10,500*	12,000*	9,900*	8,200*	9,600*	8,300*	6,700*	6,000*	5,400*	4,600*
	80	13,800*	11,800*	10,100*	11,000*	9,300*	7,800*	9,000*	7,700*	6,100*	5,700*	5,100*	4,300*
	90	11,900*	10,900*	9,700*	10,000*	8,600*	7,400*	8,400*	7,100*	5,700*	5,400*	4,800*	4,100*
	100	10,000*	10,100*		9,300*	7,900*	7,000*	7,800*	6,400*	5,400*	5,100*	4,500*	3,800*
	110	8,400	8,500		8,500*	7,500*		7,100*	5,800*	5,000*	4,800*	4,200*	3,400*
	120				7,300*	7,000*		6,300*	5,500*		4,500*	3,900*	3,100*
	130				6,300			5,700*	5,000*		4,100*	3,500*	
	140							5,200*			3,700*	3,100*	
150										3,200*			
120	30	19,800*	16,200*		15,600*			11,600*			7,800*		
	35	19,300*	15,700*		15,200*			11,300*			7,600*		
	40	18,700*	15,200*	13,100*	14,800*	12,700*		11,000*			7,400*		
	50	17,600*	14,900*	12,400*	14,000*	11,900*	9,600*	10,800*	9,500*	8,000*	7,100*	5,900*	
	60	16,400*	14,000*	11,600*	13,200*	11,100*	9,000*	10,300*	9,000*	7,400*	6,600*	5,700*	4,900*
	70	15,400*	13,100*	10,800*	12,400*	10,200*	8,500*	9,800*	8,500*	6,900*	6,200*	5,400*	4,700*
	80	14,200*	12,300*	10,300*	11,500*	9,600*	7,900*	9,300*	8,000*	6,400*	5,800*	5,200*	4,400*
	90	11,700*	11,400*	9,900*	10,600*	8,900*	7,600*	8,700*	7,400*	5,900*	5,600*	4,900*	4,200*
	100	9,800	9,900	9,600*	9,700*	8,300*	7,300*	8,200*	6,800*	5,600*	5,300*	4,700*	3,900*
	110	8,200	8,300		8,400	7,800*		7,500*	6,200*	5,200*	5,000*	4,400*	3,600*
	120	7,000	7,000		7,100	7,300		6,900*	5,700*		4,700*	4,100*	3,300*
	130	5,900			6,100	6,200		6,100*	5,400*		4,400*	3,800*	
	140				5,200			5,300			4,000*	3,400*	
150							4,500			3,600*	3,000*		
160										3,100*			
130	35	19,500*	16,400*		15,400*			11,700*			7,900*		
	40	19,000*	15,900*	13,300*	15,000*	12,800*		11,400*			7,700*		
	50	17,900*	15,100*	12,500*	14,300*	12,100*	9,700*	11,000*	9,600*	7,600*	6,000*		
	60	16,800*	14,300*	11,900*	13,500*	11,300*	9,200*	10,500*	9,200*		5,700*	5,000*	

(continued)



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

Refer to NOTES page 193.89.

(continued)

Boom length	Load radius	Capacities on outriggers — over side and 360° swing											
		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°
Feet	Feet	Pounds			Pounds			Pounds			Pounds		
130	70	15,800*	13,500*	11,100*	12,700*	10,600*	8,700*	10,000*	8,700*	7,100*	6,300*	5,500*	4,800*
	80	14,000	12,700*	10,400*	11,900*	9,800*	8,100*	9,500*	8,200*	6,600*	5,900*	5,300*	4,500*
	90	11,500	11,700	10,100*	11,100*	9,300*	7,700*	9,000*	7,700*	6,000*	5,700*	5,000*	4,300*
	100	9,600	9,700	9,800*	9,700	8,700*	7,400*	8,500*	7,100*	5,700*	5,400*	4,800*	4,000*
	110	8,000	8,100		8,200	8,100*	7,100*	7,900*	6,600*	5,400*	5,200*	4,500*	3,700*
	120	6,700	6,800		6,900	7,100		7,000	6,000*	5,000*	4,900*	4,300*	3,500*
	130	5,700	5,700		5,800	6,000		5,900	5,600*	5,000*	4,600*	4,000*	3,100*
	140	4,800			4,900			5,000	5,200	4,300*	4,300*	3,700*	
	150				4,200			4,300		4,000*	4,000*	3,300*	
	160							3,600		3,600*			
	170									3,100*			
	180												
	190												
140	35	19,700*	16,100*		15,500*			11,700*					
	40	19,200*	15,300*		15,100*			11,500*			7,800*		
	50	18,200*	14,500*	12,700*	14,500*	12,300*	9,800*	11,100*	9,700*		7,300*	6,100*	
	60	17,200*	14,600*	12,100*	13,700*	11,600*	9,300*	10,700*	9,300*	7,700*	6,900*	5,800*	5,000*
	70	16,200*	13,800*	11,400*	13,000*	10,800*	8,800*	10,200*	8,800*	7,200*	6,500*	5,600*	4,800*
	80	13,700	13,000*	10,700*	12,300*	10,100*	8,300*	9,700*	8,400*	6,700*	6,100*	5,400*	4,600*
	90	11,300	11,500	10,300*	11,400	9,500*	7,900*	9,300*	7,900*	6,200*	5,800*	5,100*	4,400*
	100	9,300	9,500	9,700	9,500	9,000*	7,600*	8,800*	7,400*	5,800*	5,600*	5,100*	4,100*
	110	7,800	8,000	8,100	7,900	8,200	7,300*	8,000	6,900*	5,400*	5,300*	4,700*	3,900*
	120	6,500	6,700		6,700	6,900	6,600*	6,800	6,300*	4,600*	5,100*	4,400*	3,400*
	130	5,500	5,600		5,600	5,800	5,700	5,700	5,800*	4,100*	4,800*	4,100*	2,900*
	140	4,600	4,600		4,700	4,800	4,800	4,800	5,000	4,500*	4,500*	3,900*	2,500*
	150	3,800			3,900			4,000	4,200	4,100	4,100	3,600*	
	160				3,300			3,400		3,500	3,500	3,200*	
	170							2,800		2,900	2,900		
	180									2,400	2,400		
	190												
150	35	19,900*	16,300*		15,600*			11,600*			7,800*		
	40	19,400*	15,500*		15,300*			11,200*			7,400*		
	50	18,500*	14,800*	12,800*	14,000*	12,400*	9,900*	10,800*	9,800*	7,800*	7,000*	5,800*	
	60	17,600*	14,000*	12,200*	14,000*	11,800*	9,400*	10,800*	9,400*	7,300*	6,600*	5,600*	4,900*
	70	16,600*	14,100*	11,600*	13,300*	11,100*	9,000*	10,400*	9,000*	7,300*	6,600*	5,600*	4,600*
	80	13,500	13,300*	11,000*	12,600*	10,400*	8,500*	9,900*	8,500*	6,900*	6,200*	5,400*	4,600*
	90	11,000	11,300	10,400*	11,200	9,800*	8,000*	9,500*	8,100*	6,400*	5,900*	5,200*	4,400*
	100	9,100	9,400	9,600	9,200	9,300*	7,700*	9,000*	7,600*	6,000*	5,700*	5,000*	4,200*
	110	7,600	7,800	7,900	7,700	8,000	7,100*	7,800	7,100*	5,100*	5,400*	4,800*	3,800*
	120	6,300	6,500	6,600	6,400	6,700	6,100*	6,500	6,600*	4,400*	5,200*	4,500*	3,200*
	130	5,200	5,400		5,400	5,600		5,500	5,800	3,800*	5,000*	4,300*	2,700*
	140	4,300	4,400		4,500	4,700		4,600	4,800	3,800*	4,600	4,100*	2,400*
	150	3,600			3,700	3,800		3,800	4,000	4,000	3,900	3,800*	
	160	2,900			3,000			3,100	3,300	3,200	3,200	3,400	
	170				2,400			2,500		2,600	2,600	2,800	
	180							2,000		2,100	2,100		
	190									1,600	1,600		
160	40	19,600*	16,500*		15,400*			11,700*			7,900*		
	50	18,800*	15,700*	13,000*	14,800*	12,600*	9,500*	11,300*	9,900*	7,500*	7,500*	5,900*	
	60	17,900*	15,000*	12,400*	14,200*	11,900*	9,100*	10,900*	9,500*	7,400*	6,800*	5,700*	4,900*
	70	16,500	14,300*	11,800*	13,500*	11,300*	9,100*	10,500*	9,100*	7,000*	6,400*	5,500*	4,700*
	80	13,300	13,600*	11,200*	12,900*	10,600*	8,700*	10,100*	8,700*	7,000*	6,400*	5,500*	4,500*
	90	10,800	11,100	10,600*	11,000	10,000*	8,200*	9,700*	8,300*	6,600*	6,000*	5,300*	4,500*
	100	8,900	9,200	9,400	9,000	9,400	7,600*	9,100	7,800*	5,600*	5,200*	5,100*	4,200*
	110	7,300	7,600	7,700	7,500	7,800	6,400*	7,600	7,400*	5,600*	5,600*	4,900*	3,500*
	120	6,100	6,300	6,400	6,200	6,500	5,500*	6,300	6,500*	4,100*	5,300*	4,700*	3,000*
	130	5,000	5,200		5,100	5,400	4,900*	5,200	5,600	3,500*	5,100*	4,400*	2,600*
	140	4,100	4,200		4,200	4,500		4,300	4,600	3,000*	4,400	4,100*	2,300*

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

Refer to NOTES page 193.89.

Boom length Feet	Load radius Feet	Capacities on outriggers — over side and 360° swing											
		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				
160	150	3,300	3,500		3,500	3,600		3,600	3,800		3,600	3,600*	1,900*
	160	2,700			2,800	2,900		2,900	3,100		3,000	3,200	
	170	2,100			2,200			2,300	2,500		2,400	2,600	
	180				1,700			1,800			1,900	2,100	
170	40	19,800*			15,500*			11,800*			7,600*		
	50	19,000*	15,800*	13,100*	14,900*	12,700*		11,400*	10,000*		7,200*	5,900*	
	60	18,100*	15,200*	12,500*	14,400*	12,100*		11,000*	9,600*	7,900*	6,900*	5,700*	4,900*
	70	16,400*	14,600*	12,000*	13,700*	11,500*	9,200*	10,600*	9,200*	7,500*	6,500*	5,500*	4,700*
	80	13,100	13,500	11,500*	13,100*	10,900*	8,800*	10,200*	8,800*	7,100*	6,500*	5,600*	4,700*
	90	10,600	11,000	10,500*	10,700	10,200*	8,000*	9,900*	8,400*	6,100*	6,100*	5,400*	4,600*
	100	8,700	9,000	9,000*	8,800*	9,100*	6,800*	8,900	7,600*	5,200*	5,900*	5,200*	3,900*
	110	7,100	7,400	7,600	7,200	7,200	5,900*	7,300	6,700*	4,400*	5,700*	5,000*	3,300*
	120	5,900	6,100	6,200	6,000	6,300	5,100*	6,100	5,900*	3,700*	5,500*	4,800*	2,800*
	130	4,800	5,000	5,100	4,900	5,200	4,400*	5,000	5,000*	3,300*	5,100	4,200*	2,400*
	140	3,900	4,000		4,000	4,200	3,800*	4,100	4,400	2,800*	4,200	3,700*	2,100*
	150	3,100	3,300		3,200	3,400		3,300	3,600	2,500*	3,400	3,300*	1,800*
	160	2,500	2,600		2,600	2,700		2,700	2,900		2,700	2,900*	1,600*
	170	1,900			2,000	2,100		2,100	2,300		2,100	2,400	
180				1,500			1,500	1,700		1,600	1,900		
180	40	19,900*			15,600*			11,500*			7,700*		
	50	19,200*	15,900*	13,200*	15,100*	12,800*		11,100*	9,700*		7,300*	6,000*	5,000*
	60	18,400*	15,400*	12,700*	14,500*	12,200*	9,700*	11,100*	9,700*		7,000*	5,800*	4,800*
	70	14,900*	14,400*	12,200*	13,800*	11,700*	9,300*	10,700*	9,300*	7,600*	6,600*	5,600*	4,400*
	80	12,900	12,500*	10,800*	11,800*	10,800*	8,700*	10,400*	8,900*	6,800*	6,300*	5,600*	4,400*
	90	10,400	10,800	9,300*	10,200*	9,300*	7,300*	9,300*	8,100*	5,600*	6,300*	5,400*	3,700*
	100	8,500	8,800	8,000*	8,600	8,000*	6,200*	8,100*	6,900*	4,800*	5,900*	5,200*	3,100*
	110	6,900	7,200	7,000*	7,000	6,900*	5,400*	7,100*	6,000*	4,000*	5,800*	5,000*	2,600*
	120	5,600	5,900	6,000	5,700	6,100	4,600*	5,800	5,200*	3,400*	5,500*	4,400*	2,200*
	130	4,600	4,800	4,900	4,700	5,000	4,000*	4,800	4,500*	3,000*	4,800	3,800*	1,900*
	140	3,700	3,800	4,000	3,800	4,000	3,500*	3,900	3,900*	2,600*	3,900	3,300*	1,700*
	150	2,900	3,000		3,000	3,200		3,100	3,400	2,300*	3,200	2,900*	1,500*
	160	2,200	2,400		2,300	2,500		2,400	2,700		2,500	2,500*	
	170	1,700	1,700		1,800	1,900		1,800	2,100		1,900	2,200	

Boom — tubular: 54" wide, 44" deep with 5' long hammerhead top section, 1 1/4" diameter boom pendants, boom live mast, and boom midpoint suspension pendants as required.

Jib — tubular: 30" wide, 24" deep.

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

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

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				
50	17	19,700*			15,500*								
	18	19,500*			15,400*			11,800*					
	19	19,300*			15,200*			11,700*					
	20	19,100*			15,000*			11,500*					
	25	18,000*	15,600*	13,300*	14,500*	12,900*		11,200*			7,600*		
	30	16,800*	14,700*	12,500*	13,700*	12,100*		10,800*	9,900*		7,200*		
	35	15,700*	13,800*	11,800*	13,000*	11,400*	9,600*	10,400*	9,400*	7,700*	6,800*	5,900*	
	40	14,800*	12,900*	11,000*	12,200*	10,600*	9,000*	9,900*	9,000*	6,800*	6,400*	5,700*	
	50	12,800*	11,200*	9,900*	10,500*	9,200*	7,900*	8,900*	8,000*	5,800*	5,700*	5,300*	4,800*
	60	10,800*	9,900*		9,100*	8,000*	7,200*	7,900*	6,900*	5,200*	5,300*	4,900*	4,300*
70				7,800*	7,200*		6,800*	5,900*		4,800*	4,400*	3,800*	
80							5,700*	5,100*		4,300*	3,800*	3,200*	
90										3,600*	3,100*		
60	18	19,900*			15,600*								
	19	19,700*			15,500*								
	20	19,500*			15,400*								
	25	18,600*	15,900*		14,900*			11,400*			7,700*		
	30	17,600*	15,200*	12,900*	14,200*	12,500*		11,000*			7,400*		
	35	16,600*	14,400*	12,200*	13,500*	11,800*	9,800*	10,600*	9,600*		7,000*	6,100*	
	40	15,600*	13,600*	11,500*	12,800*	11,100*	9,300*	10,200*	9,200*	7,900*	6,600*	5,800*	
	50	13,900*	12,100*	10,300*	11,400*	9,800*	8,300*	9,400*	8,400*	7,100*	5,900*	5,500*	4,900*
	60	12,200*	10,500*	9,700*	9,900*	8,700*	7,600*	8,500*	7,500*	6,100*	5,500*	5,100*	4,500*
	70	10,400*	9,700*		8,700*	7,700*	7,000*	7,500*	6,500*	5,500*	5,100*	4,600*	4,000*
80				7,600*	7,000*		6,500*	5,700*		4,700*	4,200*	3,500*	
90							5,500*	5,000*		4,100*	3,700*	3,000*	
100										3,500*	3,000*		
70	20	19,900*			15,100*								
	25	19,000*	16,300*		14,500*			11,600*			7,800*		
	30	18,200*	15,600*		14,000*	12,700*		11,200*			7,500*		
	35	17,300*	14,900*	13,100*	13,300*	12,100*	9,900*	10,900*	9,800*		7,200*		
	40	16,400*	14,200*	11,900*	12,600*	11,500*	9,500*	10,500*	9,400*		6,900*	5,900*	
	50	14,800*	12,800*	10,700*	12,100*	10,200*	8,600*	9,800*	8,700*	7,300*	6,200*	5,600*	4,900*
	60	13,300*	11,500*	10,000*	10,800*	9,200*	7,800*	9,000*	7,900*	6,500*	5,700*	5,200*	4,600*
	70	11,800*	10,300*		9,500*	8,300*	7,300*	8,100*	7,000*	5,800*	5,300*	4,800*	4,200*
	80	10,300*	9,600*		8,400*	7,600*		7,200*	6,100*	5,300*	5,000*	4,400*	3,800*
	90				7,500*			6,200*	5,500*		4,500*	4,000*	3,300*
100							5,400*			4,000*	3,500*		
110										3,400*			
80	25	19,400*			15,400*			11,700*					
	30	18,600*	15,800*		14,800*	12,900*		11,400*			7,700*		
	35	17,800*	15,200*	12,800*	14,300*	12,400*		11,100*			7,400*		
	40	17,000*	14,600*	12,300*	13,700*	11,800*	9,700*	10,700*	9,600*		7,100*	6,000*	
	50	15,500*	13,400*	11,200*	12,600*	10,700*	8,900*	10,000*	8,900*	7,500*	6,400*	5,700*	5,000*
	60	14,200*	12,200*	10,300*	11,500*	9,700*	8,100*	9,300*	8,200*	6,700*	5,900*	5,300*	4,700*
	70	12,800*	11,000*	9,800*	10,200*	8,800*	7,600*	8,600*	7,400*	6,000*	5,500*	5,000*	4,300*
	80	11,400*	10,100*		9,200*	7,900*	7,100*	7,800*	6,600*	5,500*	5,200*	4,600*	4,000*
	90	10,200*			8,200*	7,400*		7,000*	5,900*	5,100*	4,800*	4,300*	3,600*
	100				7,400*			6,000*	5,400*		4,400*	3,800*	3,100*
110							5,400*			3,900*	3,400*		
120										3,400*			

(continued)

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

Refer to NOTES page 193.89.



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

Refer to NOTES page 19389.

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

(continued)

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

Refer to NOTES page 193.89.

Boom length	Load radius	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°
Feet	Feet	Pounds			Pounds			Pounds			Pounds		
130	35	19,500*	16,400*	13,300*	15,400*	12,800*		11,700*			7,900*		
	40	19,000*	15,900*	12,500*	15,000*	12,100*		11,400*			7,700*		
	50	17,900*	15,100*	11,900*	14,300*	11,300*	9,700*	11,000*			7,200*		
	60	16,800*	14,300*	11,100*	13,500*	10,600*	9,200*	10,500*	9,600*		6,800*	6,000*	5,000*
	70	15,800*	13,500*	10,400*	12,700*	10,000*	8,700*	10,000*	8,700*	7,100*	6,300*	5,500*	4,800*
	80	14,900*	12,700*	10,100*	11,900*	9,800*	8,100*	9,500*	8,200*	6,600*	5,900*	5,300*	4,500*
	90	14,000*	11,900*	9,800*	11,100*	9,300*	7,700*	9,000*	7,700*	6,000*	5,700*	5,000*	4,300*
	100	12,200*	11,100*	9,800*	10,200*	8,700*	7,400*	8,500*	7,100*	5,700*	5,400*	4,800*	4,000*
	110	10,400*	10,400*	9,500*	9,500*	8,100*	7,100*	7,900*	6,600*	5,400*	5,200*	4,500*	3,700*
	120	8,900*	9,000*	8,900*	8,900*	7,700*	7,300*	7,300*	6,000*	5,100*	4,900*	4,300*	3,500*
	130	7,600*	7,700*	7,800*	7,800*	7,300*	7,000*	6,700*	5,600*	5,100*	4,600*	4,000*	3,100*
	140	6,600*		6,700*	6,700*			6,000*	5,300*		4,300*	3,700*	
	150			5,800*	5,800*			5,600*			4,000*	3,300*	
	160							5,100*			3,600*	3,000*	
170										3,100*			
140	35	19,700*	16,100*	12,700*	15,500*	12,300*		11,700*			7,800*		
	40	19,200*	15,300*	12,100*	15,100*	12,000*		11,500*			7,300*		
	50	18,200*	14,600*	11,400*	14,500*	11,600*	9,800*	11,100*	9,700*		6,900*	6,100*	5,000*
	60	17,200*	13,800*	10,700*	13,700*	10,800*	9,300*	10,700*	9,300*	7,700*	6,500*	5,800*	4,800*
	70	16,200*	13,000*	10,300*	13,000*	10,100*	8,800*	10,200*	8,800*	7,200*	6,200*	5,600*	4,600*
	80	15,300*	12,300*	10,000*	12,300*	9,500*	8,300*	9,700*	8,400*	6,700*	6,100*	5,400*	4,600*
	90	14,100*	11,600*	9,700*	11,500*	9,000*	7,900*	9,300*	7,900*	6,200*	5,800*	5,100*	4,400*
	100	12,000*	10,300*	9,700*	10,700*	8,400*	7,600*	8,800*	7,400*	5,800*	5,600*	4,900*	4,100*
	110	10,200*	10,000*	8,800*	9,900*	8,400*	7,300*	8,300*	6,900*	5,400*	5,300*	4,700*	3,900*
	120	8,700*	8,800*	8,800*	8,800*	7,900*	7,700*	7,700*	6,300*	4,700*	5,100*	4,400*	3,400*
	130	7,400*	7,500*	7,600*	7,600*	6,600*	6,600*	6,600*	5,800*	4,700*	4,800*	4,100*	3,000*
	140	6,400*	6,400*	6,500*	6,500*	6,700*	6,700*	6,700*	5,800*	4,100*	4,800*	4,100*	3,000*
	150	5,500*		5,600*	5,600*			5,700*	5,500*	5,500*	4,500*	3,900*	2,500*
	160			4,800*	4,800*			5,000*	5,200*		4,200*	3,600*	
170							5,000*			3,900*	3,200*		
180							4,300*			3,500*	3,000*		
150	35	19,900*	16,300*	12,800*	15,600*	12,400*		11,600*			7,800*		
	40	19,400*	15,500*	12,200*	15,300*	11,800*		11,200*			7,400*		
	50	18,500*	14,800*	11,600*	14,600*	11,100*	9,900*	10,800*	9,800*		7,000*	5,800*	4,900*
	60	17,600*	14,100*	11,000*	14,000*	10,400*	9,400*	10,400*	9,400*	7,800*	6,600*	5,600*	4,600*
	70	16,600*	13,300*	10,400*	13,300*	9,800*	9,000*	10,400*	9,000*	7,300*	6,200*	5,400*	4,400*
	80	15,700*	12,600*	10,000*	12,600*	9,200*	8,500*	9,900*	8,500*	6,900*	6,000*	5,200*	4,200*
	90	13,800*	11,900*	9,800*	11,900*	8,600*	8,000*	9,500*	8,100*	6,400*	5,900*	5,200*	4,400*
	100	11,700*	11,200*	10,000*	11,200*	8,700*	7,700*	9,000*	7,600*	5,900*	5,700*	5,000*	4,200*
	110	9,900*	10,100*	9,000*	10,000*	8,200*	7,100*	8,600*	7,100*	5,100*	5,400*	4,800*	3,700*
	120	8,400*	8,700*	8,700*	8,600*	7,600*	6,200*	8,100*	6,600*	4,400*	5,200*	4,500*	3,200*
	130	7,200*	7,300*	7,300*	7,300*	6,500*	6,200*	7,400*	6,100*	3,800*	5,000*	4,300*	2,800*
	140	6,100*	6,300*	6,300*	6,300*	5,500*	5,500*	6,400*	5,600*		4,700*	4,100*	2,400*
	150	5,200*	5,400*	5,400*	5,400*			5,500*	5,000*		4,500*	4,100*	
	160	4,500*	4,600*	4,600*	4,600*			4,700*	4,400*		4,200*	3,800*	
170		3,900*	3,900*	3,900*			4,000*	4,400*		4,200*	3,500*		
180							4,000*			3,800*	3,200*		
190							3,400*			3,500*	2,900*		
160	40	19,600*	16,500*	13,000*	15,400*	12,600*		11,700*			7,900*		
	50	18,800*	15,700*	12,400*	14,800*	11,900*		11,300*			7,500*		
	60	17,900*	15,000*	11,800*	14,200*	11,300*	9,500*	10,900*	9,900*		7,100*	5,900*	4,900*
	70	17,000*	14,300*	11,200*	13,500*	10,600*	9,100*	10,500*	9,100*	7,400*	6,800*	5,700*	4,700*
	80	16,000*	13,600*	10,600*	12,900*	10,000*	8,700*	10,100*	8,700*	7,000*	6,400*	5,500*	4,500*
	100	13,500*	12,900*	10,100*	12,200*	9,500*	8,200*	9,700*	8,300*	6,600*	6,000*	5,300*	4,200*
110	11,500*	11,700*	10,100*	11,500*	9,500*	7,500*	9,200*	7,800*	5,500*	5,800*	5,100*		

(continued)



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

Refer to NOTES page 193.89.

Boom length	Load radius	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°
Feet	Feet	Pounds			Pounds			Pounds			Pounds		
160	110	9,700	9,900	8,800*	9,800	8,900*	6,400*	8,800*	7,400*	4,800*	5,600*	4,900*	3,600*
	120	8,200	8,400	7,700*	8,300	7,800*	5,600*	8,000*	6,400*	4,000*	5,300*	4,700*	3,000*
	130	7,000	7,100		7,100	6,900*	4,900*	7,200	5,700*	3,600*	5,100*	4,400*	2,600*
	140	5,900	6,100		6,000	6,200*		6,100	5,000*	3,000*	4,900*	4,000*	2,200*
	150	5,000	5,100		5,100	5,300		5,200	4,400*		4,600*	3,600*	1,900*
	160	4,200			4,400	4,500		4,500	4,000*		4,400*	3,200*	
	170	3,600			3,700			3,800	3,600*		3,800	2,900*	
	180				3,100			3,200			3,200	2,600*	
	190										2,700		
	200										2,200		
	170	40	19,800*			15,500*			11,800*			7,600*	
50		19,000*			14,900*			11,400*	10,000*		7,200*		
60		18,100*	15,800*	13,100*	14,400*	12,700*		11,000*	9,600*	7,900*	6,900*	5,900*	4,900*
70		17,300*	14,600*	12,000*	13,700*	11,500*	9,600*	10,600*	9,200*	7,500*	6,900*	5,700*	4,700*
80		14,900*	13,900*	11,500*	13,100*	10,900*	8,800*	10,200*	8,800*	7,100*	6,500*	5,600*	4,600*
90		12,900*	12,100*	10,300*	11,700*	10,200*	8,100*	9,900*	8,400*	6,200*	6,100*	5,400*	4,600*
100		11,200*	10,700*	9,000*	10,300*	9,000*	6,900*	9,100*	7,600*	5,200*	5,900*	5,200*	4,000*
110		9,500	9,400*	7,900*	9,000*	7,900*	5,800*	8,000*	6,700*	5,200*	5,700*	5,000*	3,300*
120		8,000	8,200	6,900*	8,000*	6,900*	5,100*	7,000*	5,900*	3,800*	5,500*	4,800*	2,800*
130		6,800	6,900	6,000*	6,900	6,100*	4,400*	6,300*	5,100*	3,200*	5,300*	4,200*	2,400*
140		5,700	5,900		5,800	5,500*	3,900*	5,500*	4,400*	2,800*	4,900*	3,700*	2,100*
150	4,800	4,900		4,900	4,900*		5,000	4,000*	2,500*	4,300*	3,200*	1,800*	
160	4,000	4,100		4,100	4,300		4,200	3,500*		3,900*	2,900*	1,600*	
170	3,300			3,500	3,600		3,500	3,200*		3,500*	2,600*		
180	2,700			2,900			2,900	2,900*		3,000	2,300*		
190							2,400			2,500			
200										2,000			
180	40	19,900*			15,600*			11,500*			7,700*		
	50	19,200*			15,100*			11,100*	9,700*		7,300*		
	60	18,300*	15,900*	13,200*	14,500*	12,800*	9,700*	11,500*	9,700*	7,600*	7,000*	6,000*	5,000*
	70	15,100*	14,300*	12,200*	13,700*	11,700*	9,300*	10,700*	9,300*	6,700*	7,000*	5,800*	4,800*
	80	13,000*	12,500*	10,800*	11,800*	10,800*	8,700*	10,400*	8,900*	6,900*	6,600*	5,600*	4,600*
	90	11,400*	10,800*	9,300*	10,200*	9,300*	7,300*	9,200*	8,100*	5,600*	6,300*	5,400*	4,500*
	100	10,000*	9,400*	8,100*	9,000*	8,100*	6,300*	8,000*	6,900*	4,800*	5,900*	5,200*	3,700*
	110	8,800*	8,300*	7,000*	7,900*	7,000*	5,300*	7,000*	6,000*	4,100*	5,800*	5,000*	3,100*
	120	7,800	7,200*	6,100*	6,900*	6,100*	4,600*	6,200*	5,200*	3,400*	5,500*	4,400*	2,600*
	130	6,500	6,400*	5,400*	6,100*	5,400*	4,100*	5,400*	4,500*	3,000*	4,800*	3,800*	2,200*
	140	5,500	5,700	4,800*	5,400*	4,800*	3,500*	4,800*	4,000*	2,600*	4,200*	3,300*	1,900*
150	4,600	4,700		4,700	4,300*		4,300*	3,500*	2,300*	3,800*	3,000*	1,700*	
160	3,800	3,900		3,900	3,800*		3,900*	3,100*		3,400*	2,600*	1,500*	
170	3,100	3,200		3,200	3,200		3,300	2,800*		3,000*	2,300*		
180	2,500			2,600			2,700	2,500*		2,800	2,100*		
190	2,000			2,100			2,200			2,200	1,900*		
200							1,700			1,800	1,700*		



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.

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 hammerhead boom length exceeding 180'.
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.



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