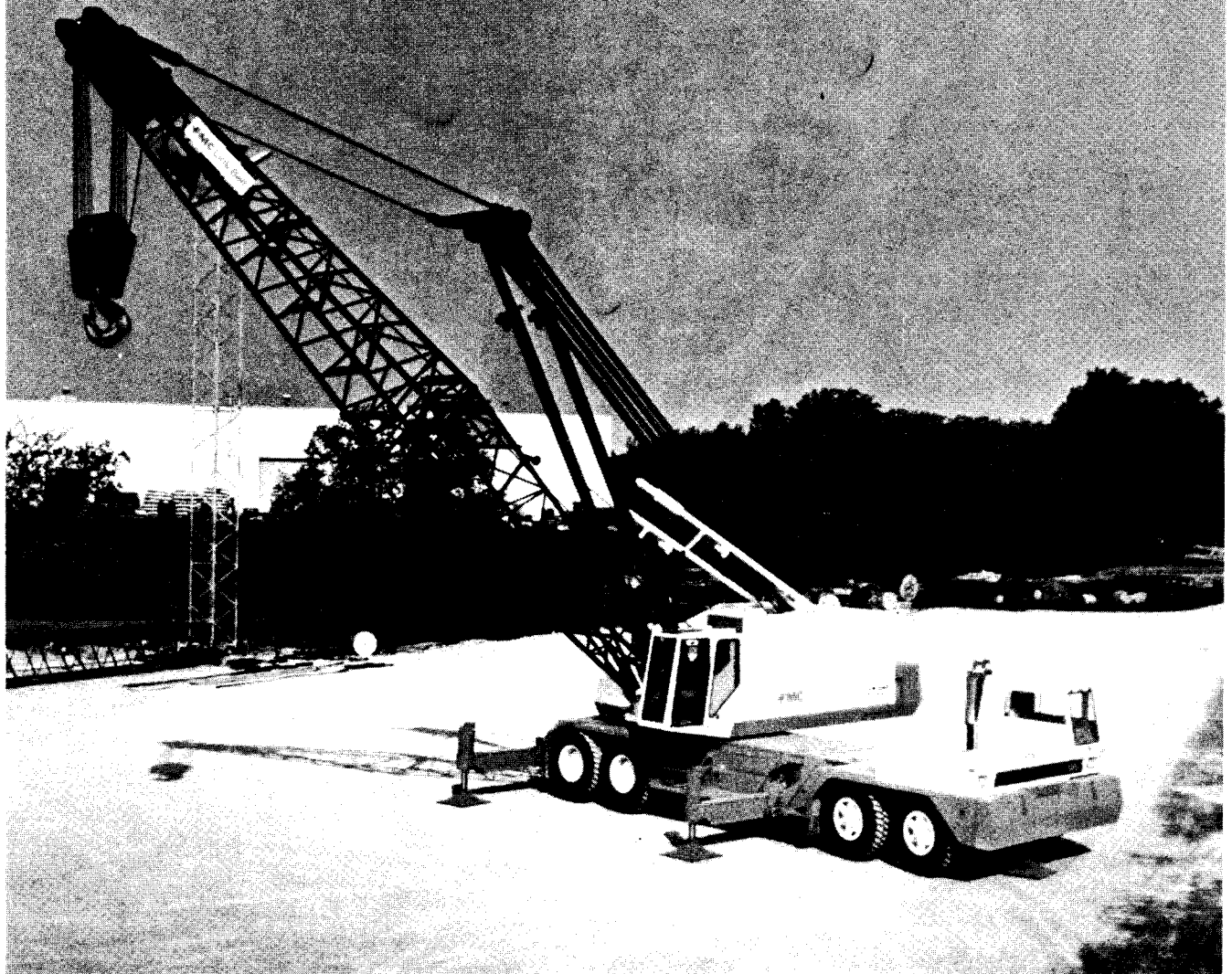


Link-Belt®

HC-238A

Wire Rope Truck Crane

140-ton (126.98 metric ton)



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

1 Engine: (Not visible) Diesel with torque converter (single or 3-stage, optional).

2 Frame: Fixture welded and stress relieved for strength and durability; line 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 790' (240.79 m) of 1" (25.44 mm) diameter rope. Independent 3rd rope drum is optional and mounts in bores indicated as (3b).

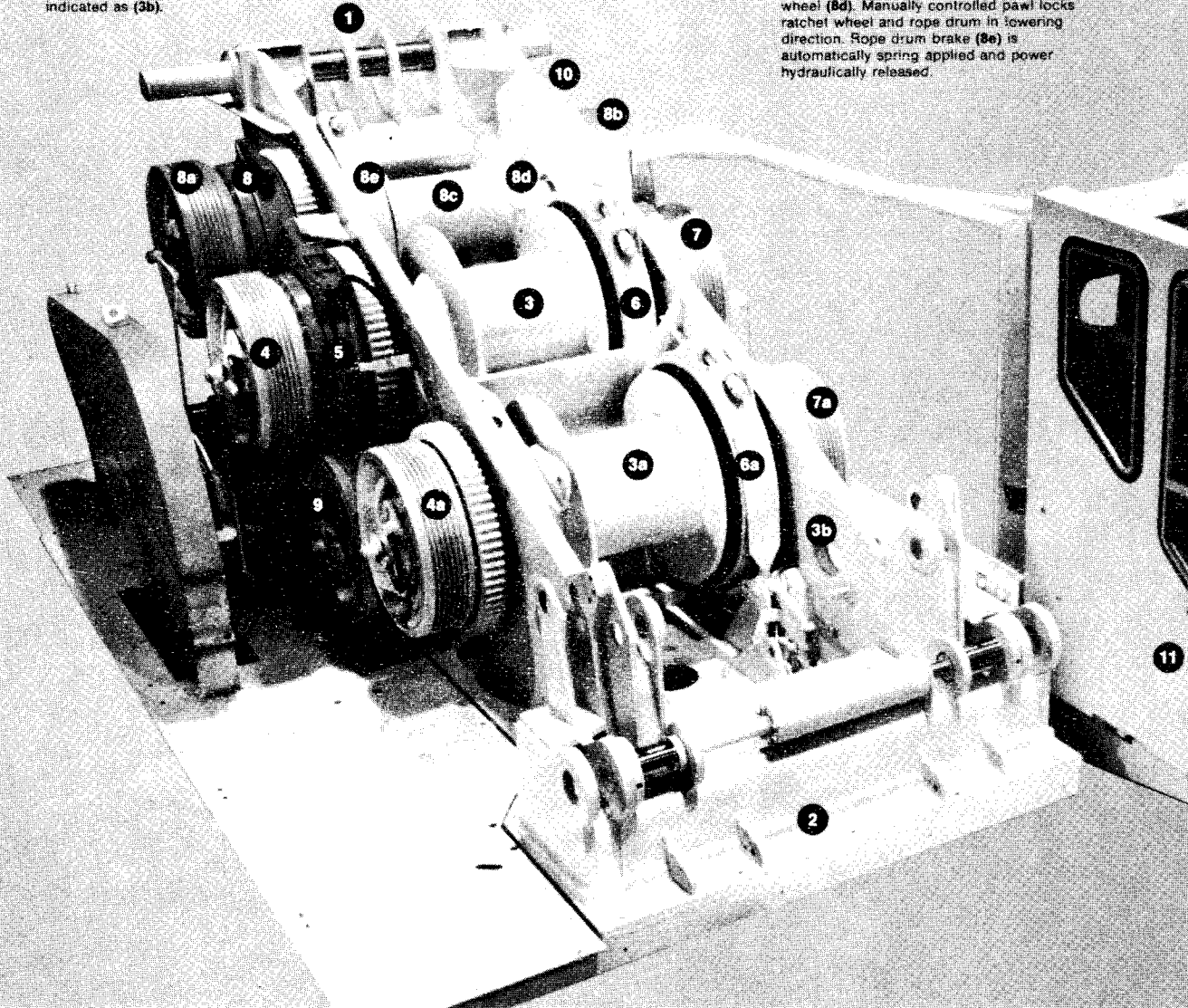
4 4a. Hoist clutches: Two-shoe, rear (4), front (4a).

5 Planetary driven hoist/lowering: (Optional) Independent. Provides up to 70% increase in hoist line speed. Can be modified to provide 40% decrease in line speed.

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. Brake drums splined to drum shafts.

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. Boomhoist: Independent. Two-speed lowering with standard planetary drive (8) for control of long boom/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 **Swing:** independent. Two-shoe clutches transmit swing power smoothly into the swing pinion. (Only right hand clutch and drum is visible.)
- 10 **Power package for power hydraulic controls:** (Not visible, mounts near front of engine.) Vane-type pump, belt driven from engine, piston-type accumulator, sump tank, normal system operating pressure is 900 (6,205.60 kPa) to 1,050 (7,239.75 kPa) p.s.i.
- 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.

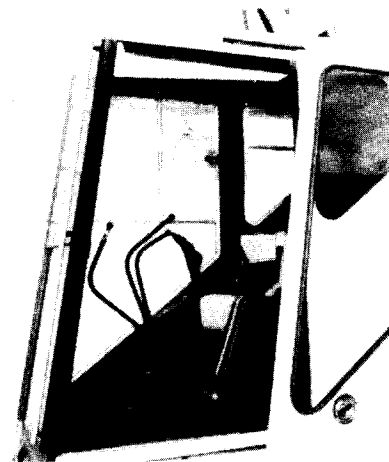


FMC now offers the exclusive and distinguished "New Look" on the 140-ton (126.98 metric ton) model HC-238A Link-Belt® truck crane. Stylized cabs are designed for more effective operator performance.

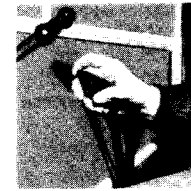
The power train design is FMC's exclusive Full-Function design. A precision-built, all-gear drive unit. The interchangeable, power hydraulically operated, 2-shoe clutches, and the clutch drums are mounted outside the side housings for service accessibility. Clutches can be engaged to any degree for smooth acceleration and deceleration of swing, hoist, and boomhoist.

For superb control of all the machine functions, the HC-238A incorporates the exclusive Speed-o-Matic® power hydraulic control system.

The modular and humanized operator cab is designed for arm-chair control and optimum visibility. The main controls consist of hoist levers to the right, swing lever to the left of the operator. Drum brakes are controlled by foot pedals. Upholstered seat, arm rests, sound reduction materials, etc. are all standard equipment.



Operator cab

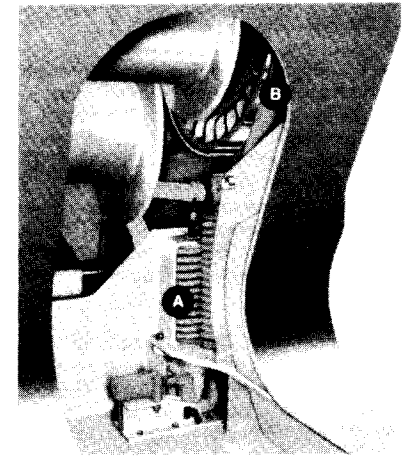


Drum rotation indicator

indicate both speed and direction.

To assist operator in precision load hoisting or lowering, **drum rotation indicator buttons** on drum clutch control levers pulsate whenever rope drums rotate to

The **swing brake (A)** controlled from operator's position, is spring applied and power hydraulically released (under control of the operator). A mechanical swing lock is also standard equipment.



Swing brake and boomhoist brake

The **boomhoist rope drum brake (B)** (item 8e) is automatically spring applied and power hydraulically released. Also, a manually controlled rope drum locking pawl is standard.

For high-speed hoisting, an exclusive, independent planetary hoist arrangement (optional) is available for mounting on the hoist or lowering side of the extended rear and front drum shafts. Planetaries (item 5) are mounted between the drum gear and clutch drums. These units can provide an increase of 70% or a reduction of 40% in line speed. Planetary engagement is controlled by a push button located on the hoist/lowering drum clutch control levers. Two-shoe hoist clutch engagement provides standard line speed.

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

Luxurious carrier cab insulated and isolated to reduce shock

The model HC-238A 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-238A axle loadings for machine transportability.

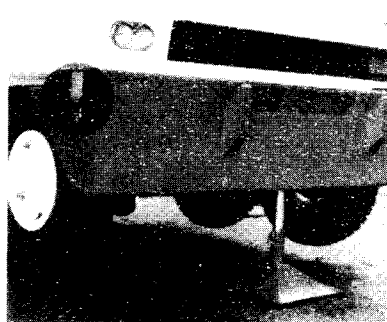
The **carrier cab** interior provides a touch of luxury for the operator. The cab is insulated and isolated from the frame by rubber mounts to reduce shock and sound levels. Upholstered side panels, luxury instrument panel, excellent gauge visibility, floor carpet, large glass area, bucket seat with safety belt, right and left-hand mirrors, windshield washers and wipers, heater, defroster fan, and tachometer are all standard equipment on the HC-238A.



Carrier cab

The carrier diesel engine drives through a Roadranger 15-speed transmission. This allows negotiating steep grades, maneuvering through traffic, and travelling at highway speeds up to 42 m.p.h. (67.58 km/hr). In addition, a 2-speed (direct and low) auxiliary transmission is provided to allow, in the low range, for on-the-job precision travel movement as low as .8 m.p.h. (1.29 km/hr).

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

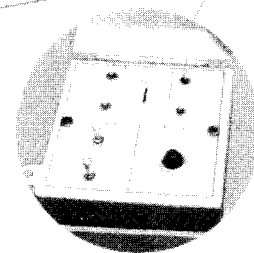
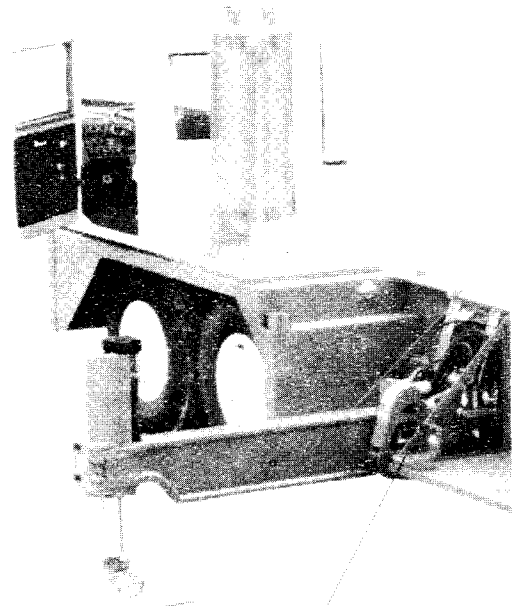


Front center outrigger

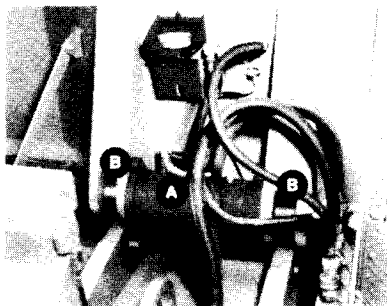
Power for the hydraulic outriggers is from the carrier engine-driven pump, with individual control of beams and jacks. This permits leveling the machine on reasonably uneven terrain. Once the outriggers are set, a **check valve** fixed to the jack cylinder "locks" the oil in the cylinder and the outrigger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

Front center outrigger (standard) allows handling of the over-the-side capacities throughout 360° swing. This gives greater on-the-job working capability. The outrigger control is located on the right front corner of the carrier.

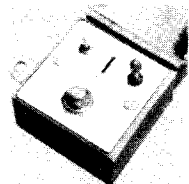
Both front and rear outrigger boxes are pin-connected to the carrier frame for quick removal to reduce over-all weight for highway travel. Removal of four pins in each frees the outrigger from the carrier. Hydraulic lines are equipped with quick disconnects. Also, to facilitate removal of the front outrigger assembly, the jack cylinder can be disassembled from one outrigger beam.



Outrigger control panel

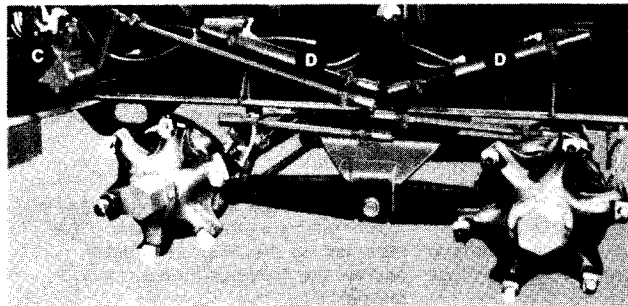


Hydraulic outrigger pin removal



Pin removal panel

A unique FMC design feature is the **hydraulic outrigger assembly pin removal** (optional). Four double-acting hydraulic cylinders (A) with integral cylinder rods/ pins (B) are permanently mounted to the carrier frame lugs. Hoses powering the outrigger beam cylinders are disconnected and the hydraulic



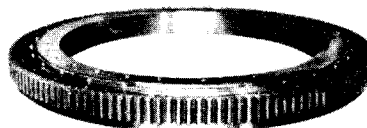
Power assist hydraulic steer

outrigger pin cylinder hoses are connected in their places. When pins are removed, and using caution, the hydraulic outrigger jack cylinders can be used to lower the outrigger assembly.

The **outrigger control** and the **outrigger pin removal panels** are located on each side of

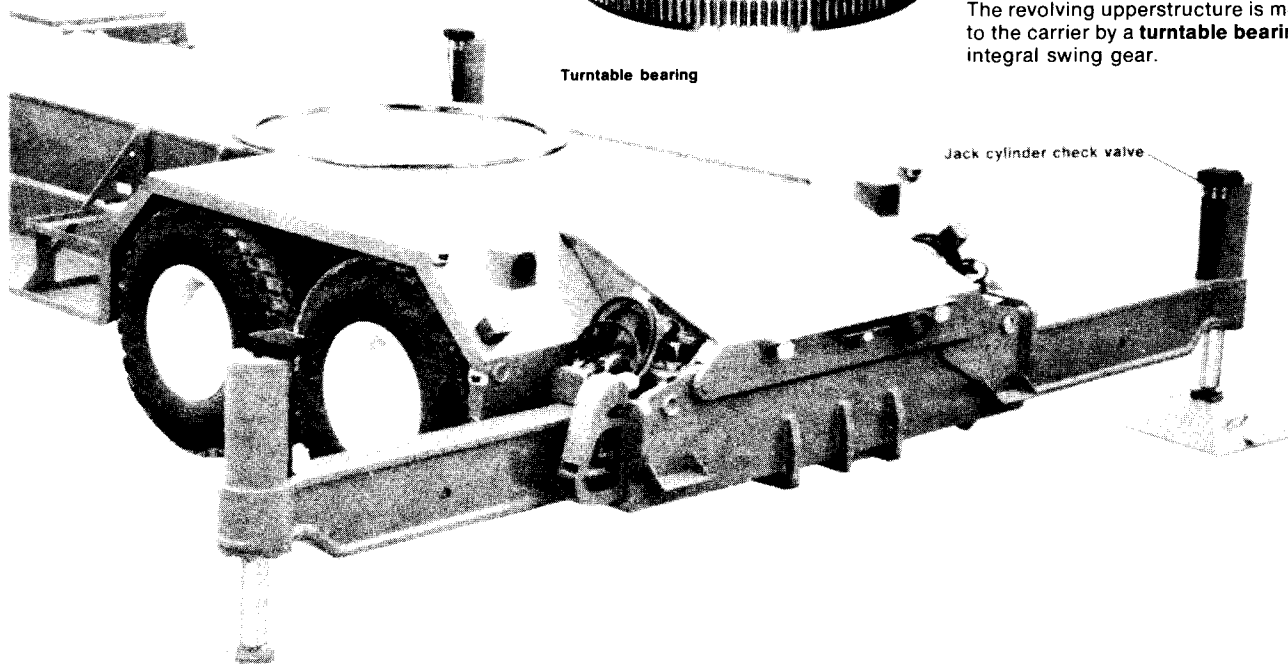
the carrier. Control panels are equipped with an engine "throttle" control.

The **power assist hydraulic steer** components are mounted to the side of the carrier frame for protection. The operator controls steering gear (C) and steer linkage. A hydraulic control valve, activated by the steering gear (C), directs oil from the steering pump to the interconnected, double-acting cylinders (D) for power assist hydraulic steer. This design results in equal power assist force when steering right or left.



Turntable bearing

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



Jack cylinder check valve

Pin-connected tubular boom and jib three types of boom top sections available

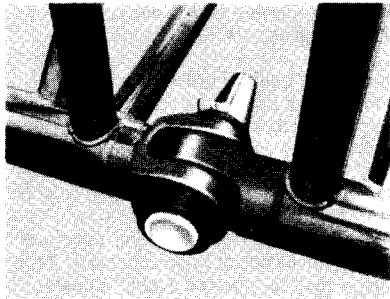
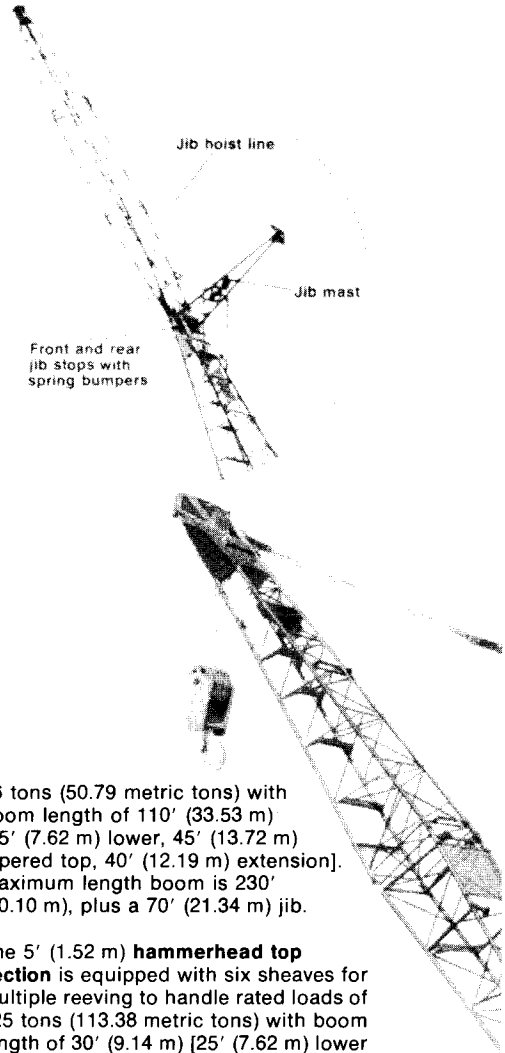
Up to 230' (70.10 m) boom with tapered top plus 70' (21.34 m) jib

The HC-238A 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.

top sections. 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.

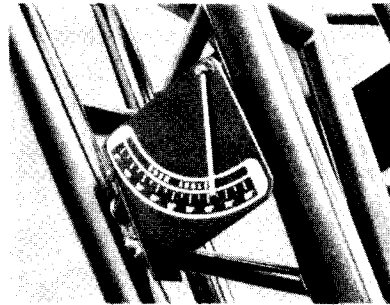
The **boom angle indicator** serves as a handy reference to the operator. It is mounted on the side of the boom nearest the operator for his ready reference.



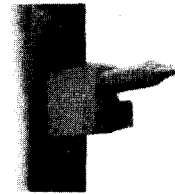
Boom pin-connection

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 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.

The basic jib is 30' (9.14 m) in length, 2-piece, pin-connected with 10' (3.05 m) and 15' (4.57 m) extensions available for a maximum jib length of 70' (21.34 m) with tapered top section; 60' (18.29 m) for hammerhead and open throat boom



Boom angle indicator



Boomhoist limiting device

this mechanism acts to disengage the boom raising clutch and simultaneously engage the boomhoist brake.

To meet user's job requirements, the HC-238A crane boom can be equipped with one of three types of boom top sections — **tapered, hammerhead, or open throat.**

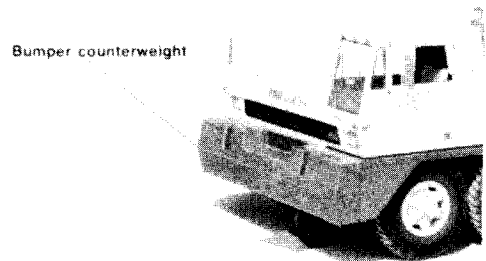
All boom peak sheaves are mounted on anti-friction bearings to eliminate the need for daily lubrication. The lower boom section is 25' (7.62 m) with 10' (3.05 m), 20' (6.10 m), 30' (9.14 m), and 40' (12.19 m) extensions available.

The 45' (13.72 m) long **tapered top section** is equipped with two sheaves for multiple reeving to handle rated loads of

The **boomhoist limiting device** improves close-radius operation. When an attempt is made to raise the boom closer than minimum radius, this mechanism

56 tons (50.79 metric tons) with boom length of 110' (33.53 m) [25' (7.62 m) lower, 45' (13.72 m) tapered top, 40' (12.19 m) extension]. Maximum length boom is 230' (70.10 m), plus a 70' (21.34 m) jib.

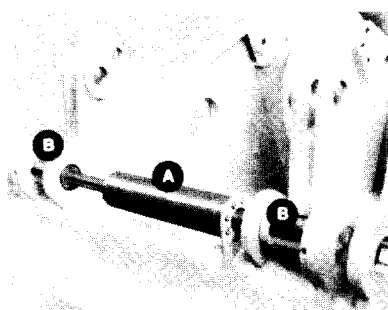
The 5' (1.52 m) **hammerhead top section** is equipped with six sheaves for multiple reeving to handle rated loads of 125 tons (113.38 metric tons) with boom length of 30' (9.14 m) [25' (7.62 m) lower and 5' (1.52 m) top]. Maximum length boom is 230' (70.10 m) and boom and jib is 200' (60.96 m) plus 60' (18.29 m).



Bumper counterweight

The 25' (7.62 m) **open throat top section** is equipped with six sheaves for multiple reeving to handle rated loads of 140 tons (126.98 metric tons) with boom length of 50' (15.24 m) [25' (7.62 m) lower and 25' (7.62 m) top]. Maximum length boom is 230' (70.10 m) and boom and jib is 200' (60.96 m) plus 60' (18.29 m).

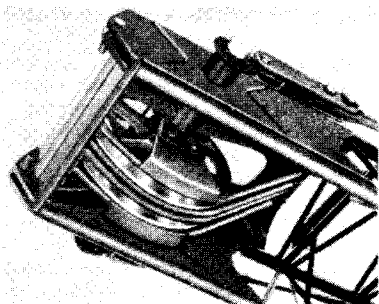
For fast removal (or installation) of the basic boom, the **boomfoot pins are removed (or inserted) with power hydraulics**. A double-acting hydraulic cylinder (A) with integral cylinder



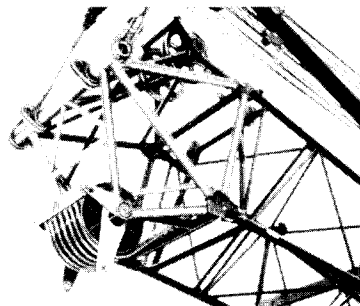
Hydraulic boomfoot pin removal

To reduce the over-all travel height, the boom live mast retracts from 30' (9.14 m) to 25'6" (7.77 m). Controls for hydraulically extending the boom live mast are located on the operator's control console. Open throat boom lengths of 90' (27.43 m) and 110' (33.53 m) can be folded for a travel height of 13'1" (3.99 m).

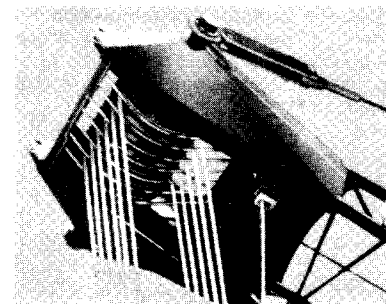
Boom folding with the 25' (7.62 m) open throat top section is possible with the insertion of an optional 10' (3.05 m) boom section equipped with **offset lugs**.



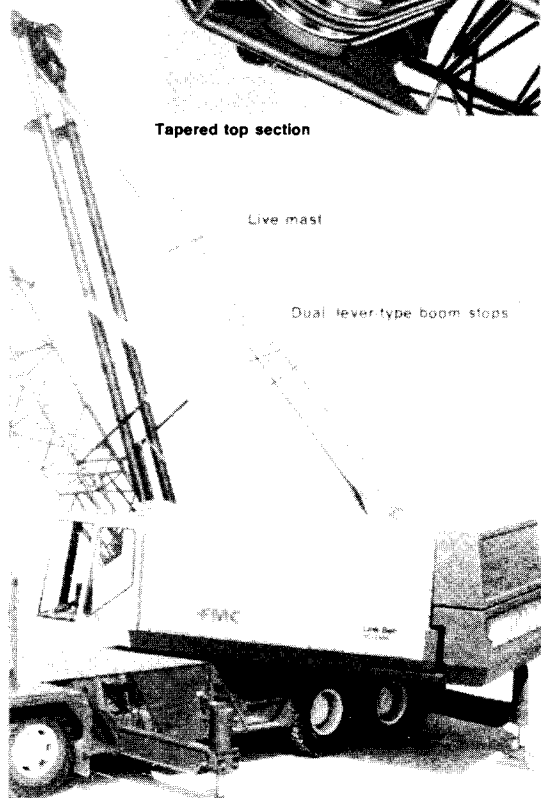
Tapered top section



Hammerhead top section



Open throat top section



Live mast

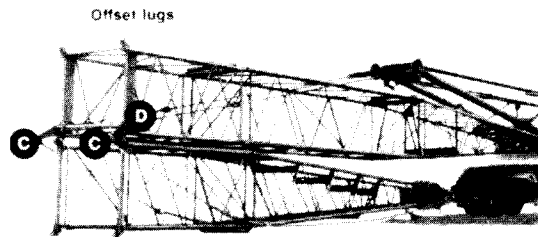
Dual lever-type boom stops

rods/pins (B) is permanently mounted between boomfoot lugs. Cylinder controls are located under the right front corner of the cab to enable operation from the ground.

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.

In addition, tubular **struts with offset lugs** are installed to mate with the offset lugs on the special section. Removal of upper boom connecting pins permit boom folding as shown in photo. Special 10' (3.05 m) section and tubular struts can remain in place when extending the boom. Two links (C) are inserted in the pendant lines and held in place with a shaft (D). Mounted in position shown, they serve to carry the pendants, eliminating the necessity of disconnecting the pendants while boom is folded. Boom folding wheel and tire are mounted to boom peak.



Struts with offset lugs

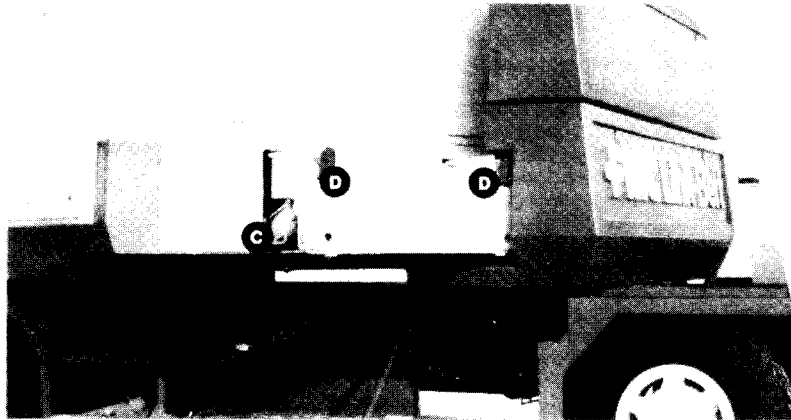
Boom folding with 25' (7.62 m) open throat top section

Designed for fast stripdown of outriggers, boom and counterweight

Tag axle available for greater weight distribution

For job-to-job transportability the Link-Belt® HC-238A is designed for fast stripdown of bumper counterweight (photo pg. 228.00), outriggers (pg. 226.00-227.00) and boom (pg. 229.00).

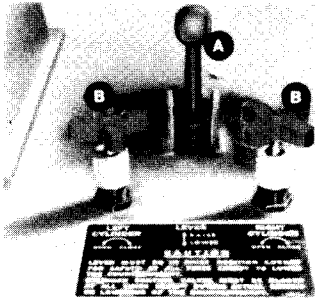
Hydraulic counterweight lowering is standard. Counterweight is held in place by hydraulically controlled frustums. Simply position the directional control lever (A) and turn the control valve (B), directing oil into the hydraulic counterweight lowering cylinders (C). (Only left-hand cylinder is visible.) With frustums (D) the counterweight is lowered to the carrier deck in seconds. Same procedure is followed for mounting the counterweight to the upper. The contoured counterweight allows the upper to be swung away from the counterweight, then with boom or live mast lift the counterweight from the carrier.



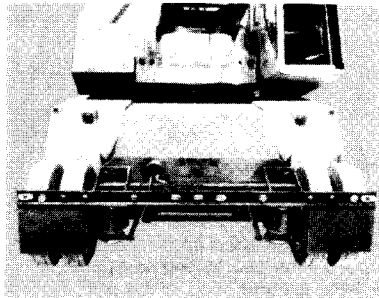
Hydraulic counterweight lowering

The HC-238A can be equipped with a third (non-driving) rear tag axle (available from Transport Trailers, Cedar

Rapids, Iowa), allowing greater over-all payload. With the pin-connected rear outrigger assembly removed from the carrier, the tag axle can then be pinned to the rear of the carrier frame. Air and electrical lines are equipped with quick disconnects. Tag axle suspension is through two air springs. Service brakes and heavy-duty shock absorbers are standard. A control valve, located at the rear of the tag axle, meters air to the air springs for maximum axle loading of up to 18,000# (8,165 kg).



Counterweight lowering/raising control



Rear tag axle

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.
- Power steer mounting.
Benefit – Protected for increased service life.
- Outrigger pins removed hydraulically.
Benefit – Decreases stripdown time.
- Front center outrigger.
Benefit – “Over-the-side” lift capacity through 360° swing.

Upperstructure features

- Operator's cab forward mounted.
Benefit – Greater overall operator visibility.
- Full-Function gear train design.
Benefit – Permits independent or simultaneous crane functions for job flexibility.
- Speed-o-Matic® power hydraulic control system.
Benefit – Proven and dependable. No daily maintenance.
- Interchangeable 2-shoe clutches.
Benefit – Serviceability, accessibility, and performance.
- High speed planetary driven load hoist.
Benefit – More cycles, increases production.

- Hydraulic counterweight lowering.
Benefit – Decreases stripdown time.

Attachment features

- Choice of boom top sections.
Benefit – User job flexibility.
- Hydraulic boom foot pin removal.
Benefit – Decreases stripdown time.
- Tubular boom with 100,000 p.s.i. (689,500 kPa) alloy steel chords.
Benefit – Dependability.

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

FMC Corporation Crane and Excavator Division World Headquarters Cedar Rapids Iowa 52406
Plants in: Cedar Rapids Iowa (2) • Lexington & Bowling Green Kentucky • Ontario Canada • Milan Italy • Queretaro Mexico & Nagoya Japan (under license)

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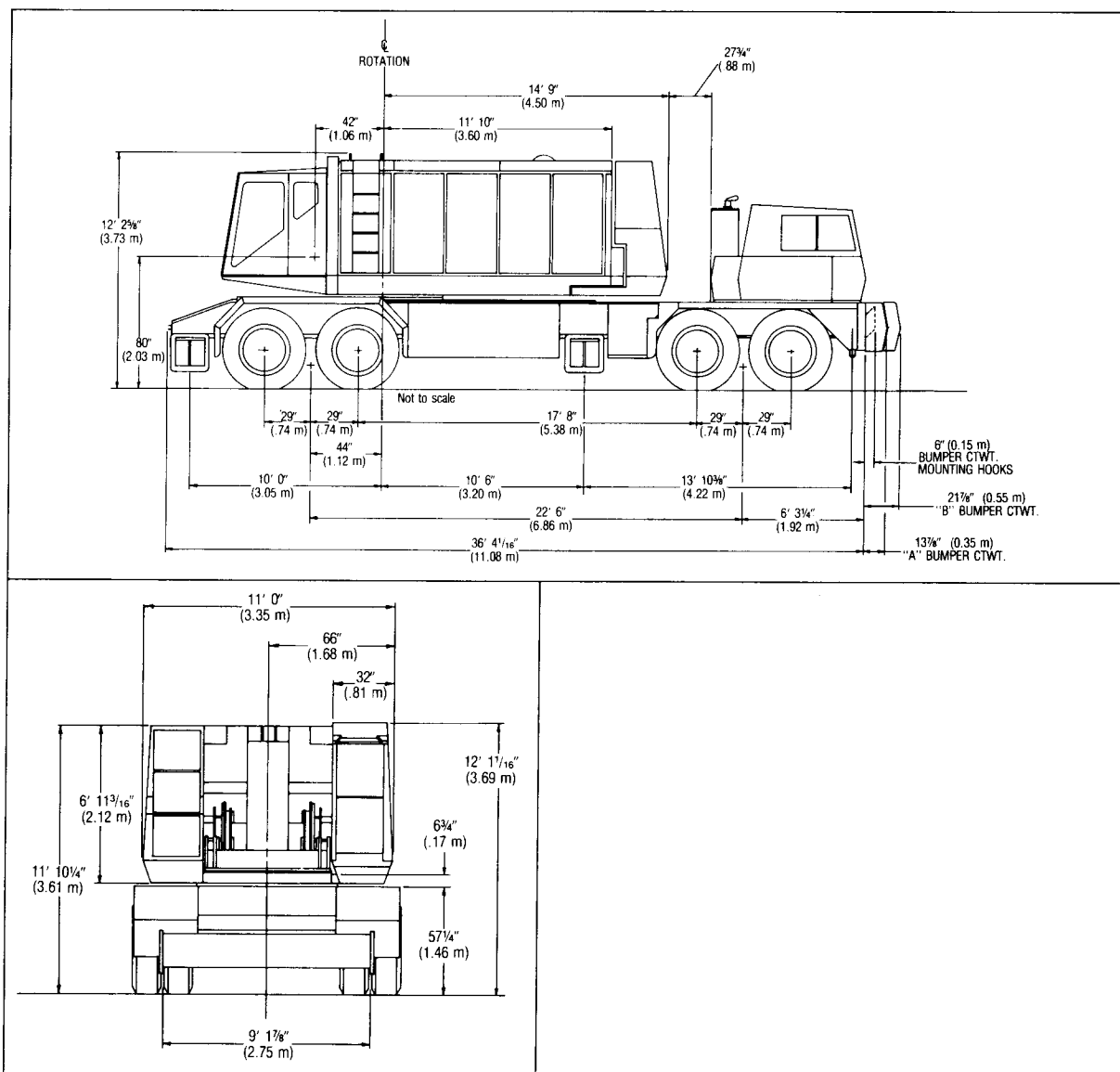
Printed in U.S.A.

General Specifications

Link-Belt® 140-ton (126.98 metric ton)

Wire rope truck crane

HC-238A



General Dimensions	Feet	Meters
Overall width, outriggers extended (over floats)	24' 6"	7.47
Overall width, outriggers extended (center line of jacks)	22' 0"	6.71
Overall width, outriggers retracted (floats removed)	11' 10"	3.60
Minimum ground clearance	9 ⁹ / ₁₆ "	.24
Ground clearance under upper counterweight with machine on tires	4' 11 ¹¹ / ₁₆ "	1.50
Counterweight tailswing, across corners	15' 8 ⁷ / ₈ "	4.79
Overall upper cab width	11' 0"	3.35
Basic boom length — open throat	50' 0"	15.24
— hammerhead	30' 0"	9.14
— tapered tip	110' 0"	33.53
Radius of boom hinge pin	3' 6"	1.07
Height of boom hinge pin	6' 8"	2.03

General Dimensions	Feet	Meters
Overall length with basic boom in travel position over rear of carrier with bumper counterweight — open throat boom	81' 8 ¹ / ₈ "	24.90
— tapered tip boom	→ See note ←	
— hammerhead boom	60' 5 ¹ / ₈ "	18.43
Overall length with basic boom in travel position over front of carrier	—	—
— open throat boom	70' 0"	21.34
— tapered tip boom	→ See note ←	
— hammerhead boom	48' 9"	14.86
Height over boom live mast with basic boom in travel position over rear of carrier	—	—
— open throat boom	12' 3 ¹ / ₄ "	3.74
— tapered tip boom	→ See note ←	
— hammerhead boom	13' 6 ¹ / ₄ "	4.12
Height over boom live mast with basic boom in travel position over front of carrier	—	—
— open throat boom	14' 9 ¹ / ₂ "	4.51
— tapered tip boom	→ See note ←	
— hammerhead boom	16' 9 ¹ / ₂ "	5.12

Note: Boom with tapered tip top section cannot be traveled over the road.

Axle loadings — approximate

	Basic machine Gross weight		Upper facing front				Upper facing rear				
			Front		Rear		Front		Rear		
	Lbs.	kg	Lbs.	kg	Lbs.	kg	Lbs.	kg	Lbs.	kg	
Based on HC-238A crane upper equipped with 27,000# (12,247 kg) counterweight "A", boom lowering planetary, rear drum load lowering clutch, GM 6-71N diesel with single stage torque converter*, mounted on FMC 8 x 4, 11' 10" (3.61 m) wide, 270" (6.86 m) wheelbase carrier with GM 6V-92TA diesel, 14:00 x 24L (20-ply rating) Custom Hi-Miler tires, hydraulic outriggers front and rear and front center hydraulic jack, 5 floats in storage racks, and 11,400# (5,171 kg) front bumper counterweight "A"	A	67,810	30,759	-12,290	-5,575	80,100	36,333	34,390	15,599	33,420	15,159
	B	76,600	34,746	38,985	17,684	37,615	17,062	38,985	17,684	37,615	17,062
	C	144,410	65,504	26,695	12,109	117,715	53,396	73,375	33,283	71,035	32,221
Adjust axle loadings accordingly for the following components:	Component Weights		Front		Rear		Front		Rear		
	Lbs.	kg	Lbs.	kg	Lbs.	kg	Lbs.	kg	Lbs.	kg	
Upper machinery — Boom hoist planetary	+ 790	+ 358	- 90	- 41	+ 880	+ 399	+ 350	+ 159	+ 440	+ 199	
Boom lowering clutch (high speed)	+ 420	+ 191	- 50	- 23	+ 470	+ 214	+ 180	+ 82	+ 240	+ 109	
Boomhoist wire rope — 67 ⁵ / ₈ " (205.74 m), 7/8" (22.23 mm) diameter, Type "T"	+ 970	+ 440	- 110	- 50	+ 1,080	+ 490	+ 420	+ 191	+ 550	+ 249	
Front drum load lowering clutch	+ 620	+ 281	+ 70	+ 32	+ 550	+ 249	+ 130	+ 59	+ 490	+ 222	
Front drum load hoist or lowering planetary	+ 790	+ 358	+ 80	+ 36	+ 710	+ 322	+ 170	+ 77	+ 620	+ 281	
Front drum wire rope — 1,050' (320.04 m), 1" (25.40 mm) diameter, Type "N"	+ 1,940	+ 880	+ 210	+ 95	+ 1,730	+ 785	+ 420	+ 191	+ 1,520	+ 689	
Rear drum load hoist or lowering planetary	+ 790	+ 358	- 20	- 9	+ 810	+ 367	+ 270	+ 122	+ 520	+ 236	
Rear drum wire rope — 1,050' (320.04 m), 1" (25.40 mm) diameter, Type "N"	+ 1,940	+ 880	- 40	- 18	+ 1,980	+ 898	+ 670	+ 304	+ 1,270	+ 576	
Third drum (with front drum load lowering clutch and gear to power third drum)	+ 2,360	+ 1,070	+ 420	+ 190	+ 1,940	+ 880	+ 350	+ 158	+ 2,010	+ 912	
Third drum — as above, but with load lowering clutch	+ 590	+ 268	+ 120	+ 54	+ 470	+ 214	+ 70	+ 32	+ 520	+ 236	
Third drum wire rope — 460' (140.21 m), 7/8" (22.23 mm) diameter, Type "N"	+ 660	+ 299	+ 140	+ 64	+ 520	+ 235	+ 80	+ 36	+ 580	+ 263	
Upper counterweight "A"	-27,000	-12,247	+11,600	+5,262	-38,600	-17,509	-20,400	-9,253	-6,600	-2,994	
Upper counterweight "B"	+20,000	+ 9,072	- 8,590	-3,896	+28,590	+12,968	+15,110	+6,854	+ 4,890	+2,218	
Optional Cummins N855-P220 diesel with three-stage torque converter	+ 830	+ 376	- 240	- 109	+ 1,070	+ 485	+ 510	+ 231	+ 320	+ 145	
Crane booms and auxiliary equipment — 50' (15.24 m) basic open throat boom with accessories	+ 6,720	+ 3,048	+12,700	+5,762	- 5,980	- 2,714	-10,500	-4,763	+17,220	+7,811	
25' (7.62 m) open throat boom top section only	- 4,610	- 2,091	-10,720	-4,862	+ 6,110	+ 2,771	+ 9,220	+4,182	-13,830	-6,273	
30' (9.14 m) basic hammerhead boom with accessories	+ 5,060	+ 2,295	+ 6,530	+2,962	- 1,470	- 667	- 4,880	-2,214	+ 9,940	+4,509	
5' (1.52 m) hammerhead boom top section only	- 2,950	- 1,338	- 4,550	-2,064	+ 1,600	+ 726	+ 3,590	+1,628	- 6,540	-2,966	
Boom stops	+ 660	+ 299	+ 200	+ 91	+ 460	+ 208	+ 10	+ 5	+ 650	+ 294	
Boom live mast (retracted and horizontal), bridle and spreader bar	+ 7,000	+ 3,175	+ 7,960	+3,610	- 960	- 435	- 5,680	-2,576	+12,680	+5,751	
Carrier — Front outrigger box, beams and jacks	- 7,500	- 3,402	- 4,720	-2,141	- 2,780	- 1,261	- 4,720	-2,141	- 2,780	-1,261	
Rear outrigger box, beams and jacks	- 7,500	- 3,402	- 2,110	- 957	- 9,610	- 4,359	+ 2,110	+ 957	- 9,610	-4,359	
Front and rear outrigger floats (4)	- 680	- 308	- 190	- 86	- 490	- 222	- 190	- 86	- 490	- 222	
Front center jack float (1)	- 130	- 59	- 50	- 23	- 80	- 36	- 50	- 23	- 80	- 36	
Bumper counterweight "A"	-11,400	- 5,171	-14,850	-6,736	+ 3,450	+ 1,565	-14,850	-6,736	+ 3,450	+1,565	
Bumper counterweight "B"	+ 7,300	+ 3,311	- 9,780	-4,436	- 2,480	- 1,125	+ 9,780	+4,436	- 2,480	-1,125	
Optional Cummins NTC-290 diesel	+ 745	+ 338	+ 795	+ 361	- 50	- 23	+ 745	+ 338	- 50	- 23	
Optional 14:00 x 24L (20-ply rating) HCT rock lug tires	+ 970	+ 440	+ 320	+ 145	+ 650	+ 295	+ 320	+ 145	+ 650	+ 295	
Optional 14:00 x 24L (20-ply rating) non-directional mud/snow tires	+ 400	+ 181	+ 130	+ 59	+ 270	+ 122	+ 130	+ 59	+ 270	+ 122	
Optional 14:00 x 24L (20-ply rating) Goodyear SRL-1	+ 1,330	+ 603	+ 440	+ 200	+ 890	+ 403	+ 440	+ 200	+ 890	+ 403	

*GM 6-71N diesel with three-stage converter — weight approximately same as GM 6-71N with single-stage converter.

**A — Upper, B — Carrier, C — Total.

General specifications

Carrier —

Type — FMC; 8 x 4 drive, 270" (6.86 m) wheelbase, 11'10" (3.61 m) wide.

Frame — Main members heat treated alloy steel; machined surface for mounting outer race of turntable bearing.

Front axles — Eaton FTCA-34L; bogie beam mounted tandem axles, single wheels. Track - 114" (2.89 m).

Bogie — Hendrickson; rubber mounted equalizer beams, rubber bushed torque rods.

Rear axles — Clark Planetary BD-71000, double reduction, bogie mounted tandem axles, dual wheels. Track - 109 $\frac{7}{8}$ " (2.79 m).

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

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

Tires — Single tires front; dual tires rear.

Standard — 14:00 x 24L (20-ply rating), transport type tread.

Optional — 14:00 x 24N (24-ply rating), General HCT Nygen; 14:00 x 24L (20-ply rating) Goodyear non-directional military type, all service; 14:00 x 24L (20-ply rating) super road lug.

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

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

Hydraulic removal of outrigger box pins — Optional.

Floats — Low profile, alloy steel, lightweight; 30" (.76 m) square base.

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"	Over outside of front bumper counterweight "AB"
114' 10" (35.00 m)	116' 0" (35.36 m)	120' 0" (36.58 m)	121' 2" (36.93 m)	121' 10" (37.13 m)

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

Brakes — 8-wheel air brakes.

Service — Dual diaphragm air chambers on four rear wheels, single diaphragm air chambers on four front wheels.

Size and area — Rear wheels — 20" x 7" (.51 x .18 m); total effective lining area, 574 square inches (3 703 cm²) per axle. Front wheels — 17 $\frac{1}{4}$ " x 4" (.44 x .10 m); total effective lining area; 248 square inches (1 601 cm²) per axle.

Parking — Brakes on four rear wheels applied and air chamber push rods automatically and mechanically locked with air control valve on dash.

Emergency — Brakes on four rear wheels apply and mechanically lock automatically if air pressure drops to 40 p.s.i. (275.80 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 HPS70; 18" (.46 m) diameter steering wheel.

Engines — Diesel; 12-volt alternator, starter, pressure lubrication, hydraulic pump, dry type air cleaner, and 14.5 c.f.m. (.41 m³/min) air compressor.

Standard — GM 6V-92TA diesel, 6 cylinder, 2 cycle, 4.84" (.12 m) bore, 5" (.13 m) stroke, 552 cu. in. (9 047 cm³) displacement, 318 brake horsepower at 2,100 r.p.m. governed load speed. Peak torque 914 ft. lbs. (126.41 kgm) at 1,400 r.p.m. Electric shutdown.

Optional — Cummins NTC-290 diesel, 6 cylinder, 4 cycle, 5 $\frac{1}{2}$ " (.14 m) bore, 6" (.15 m) stroke, 855 cu. in. (14 013 cm³) displacement, 290 brake horsepower at 2,100 r.p.m. governed load speed. Peak torque 930 ft. lbs. (128.62 kgm) at 1,300 r.p.m. Electric shutdown.

Clutch — Lipe-Rollway, 14" (.36 m), 2-plate, dry disc.

Transmissions —

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

Auxiliary — Eaton AT-1202; 2-speed, midship mounting.

Universals — Mechanics type drive tubes; needle bearings.

Cab — One-man, offset, fully enclosed. Air 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, fire extinguisher, heater and defroster, 2-speed electric windshield wiper, and windshield washer.

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.

Standard auxiliary equipment — West Coast rear view mirrors, boom guide, lug wrench, 2-way reading bubble levels at 4 positions on carrier frame, tire gauge and tire inflation hose. High pressure lube fittings at all bearing points. Two 45 gallon (170.31 liter) capacity fuel tanks, hand grab rails, carrier deck access ladder, back-up alarm, skid-resistant finish on carrier deck.



Carrier speeds —

Based on GM 6V-92TA (or Cummins NTC-290) engine at 2,100 r.p.m. governed full load speed.						
Gear		Main-Eaton RTO-915	Auxiliary — Eaton AT-1202			
			1.00:1.00		2.036:1.00	
			M.p.h.	km/hr	M.p.h.	km/hr
High	10th	.81	42.0	67.58	20.6	33.15
	9th	1.00	34.0	54.71	16.7	26.87
	8th	1.26	27.0	43.44	13.3	21.40
	7th	1.59	21.4	34.43	10.5	16.89
	6th	2.04	16.7	26.87	8.1	13.03
	Rev.	2.21	15.4	24.78	7.6	12.23
Low	5th	2.59	13.1	21.08	6.5	10.46
	4th	3.20	10.6	17.06	5.2	8.37
	3rd	4.04	8.4	13.52	4.1	6.60
	2nd	5.10	6.7	10.78	3.3	5.31
	1st	6.51	5.2	8.37	2.6	4.18
	Rev.	7.06	4.8	7.72	2.4	3.86
Deep Reduction	5th	3.87	8.8	14.16	4.3	6.92
	4th	4.78	7.1	11.42	3.5	5.63
	3rd	6.03	5.6	9.01	2.8	4.51
	2nd	7.62	4.5	7.24	2.2	3.54
	1st	9.73	3.5	5.63	1.7	2.74
	Rev.	10.55	3.2	5.15	1.6	2.57

Creep speed in deep reduction low (1st) based on peak engine torque of 1,400 r.p.m. for GM or 1,300 r.p.m. for Cummins. Creep speed is 1.1 m.p.h. (1.77 km/hr). Rear axle ratio 9.00 to 1.00.

Bumper counterweight — Mounts on front bumper counterweight hooks; easily removable. Refer to capacity charts for counterweight requirements.

Bumper counterweight "A" — 11,400# (5 171 kg).

Bumper counterweight "AB" — 18,700# (8 482 kg).

Revolving upperstructure —

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

Turntable bearing with integral swing gear — Outer bearing race with integral, external swing (ring) gear, bolted to carrier deck; inner race bolted to upper revolving frame.

Upper machinery gear train — "Full-Function" design, two-directional power available to all operating shafts; shafts mounted in line bores on anti-friction bearings. All operating functions independent of one another.

Clutches — Speed-o-Matic® power hydraulic actuated for all clutch-controlled functions (except engine master clutch). Internal expanding, 2-shoe type, aluminum alloy shoes; clutch drums bolted to spur gears — units mounted on shafts on anti-friction bearings; clutch spiders involute splined to shafts.

Transmission — Quadruple roller chain enclosed in oil tight chain case with integral lubricant sump; pump driven oil steam lubrication.

Engines — Full pressure lubrication, oil filter, air cleaner, hour meter, foot and optional hand throttles, 75 gal. (283.88 liters) capacity fuel tank with fuel gauge and flame arrester fill unit, and manual (General Motors) control cable shutdown or electrical (Cummins) shutdown.

Specifications	GM 6-71N with single stage torque converter ^①	GM 6-71N with three stage torque converter ^②	Cummins N855-P220 with three stage torque converter ^②
Number cylinders	6	6	6
Bore and stroke (inches)	4¼ x 5 (.108 x .13 m)	4¼ x 5 (.108 x .13 m)	5⅞ x 6 (.13 x .152 m)
Piston displacement (cu. in.)	425.6 (6 975.6 cm³)	425.6 (6 975.6 cm³)	855 (14 013.5 cm³)
High idle speed — r.p.m.	2,040	2,020	1,980
Engine r.p.m. at full load speed	1,900	1,880	1,800
Net engine horsepower at full load speed	171	168	168
Peak torque — ft. lbs.	1,400 (193.6 kgm)	2,360 (326.4 kgm)	2,402 (307.0 kgm)
Peak torque r.p.m.	(output stall)	(output stall)	(output stall)
Electrical system	12-volt	12-volt	12-volt
Batteries	1/12-volt	1/12-volt	2/12-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	171	171	171
Number engine pinion teeth	21	22	22

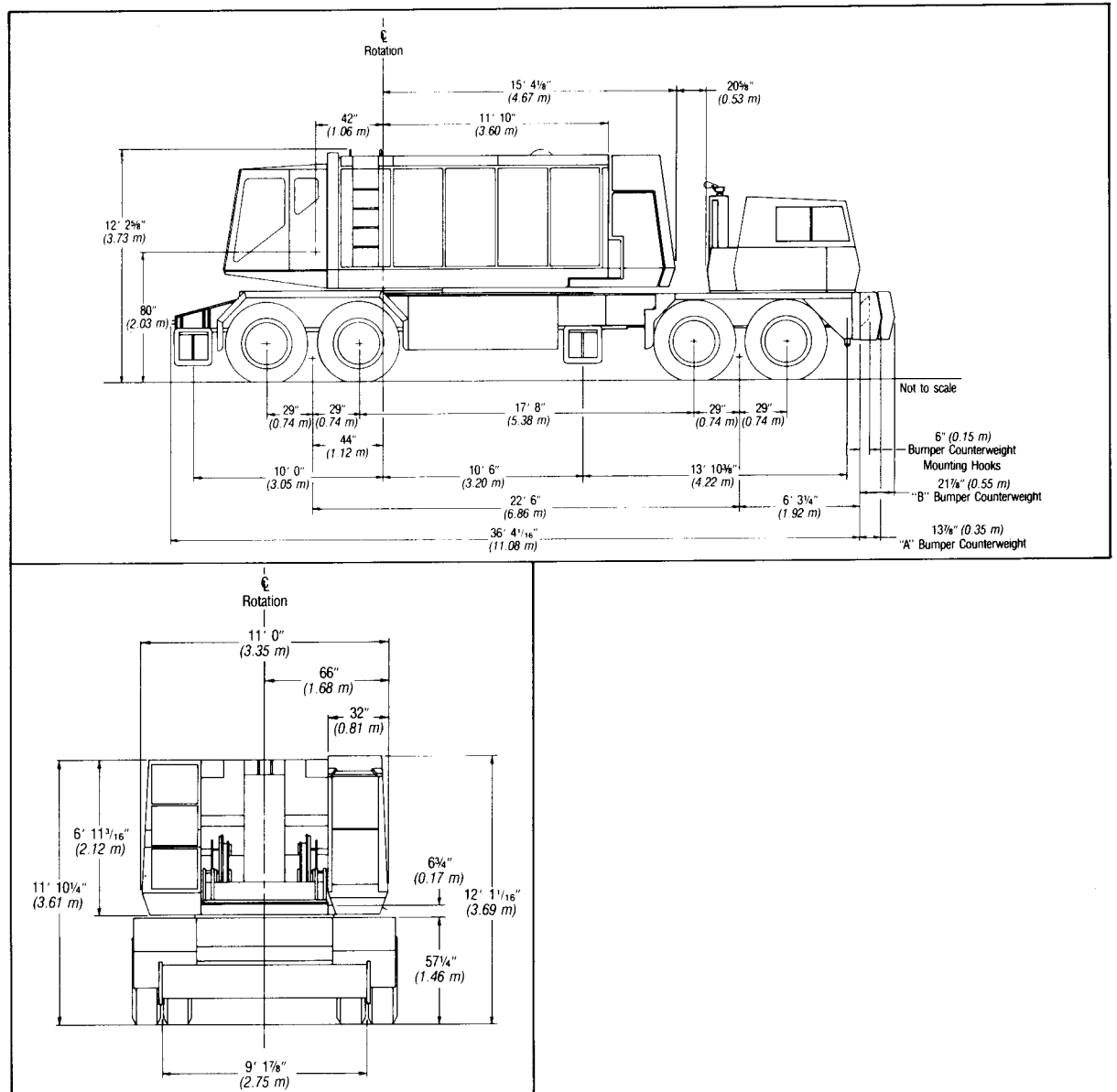
① Allison TCDO 475
② Twin Disc CO-10066TC-1

General Specifications

Link-Belt® 140-ton (126.98 metric ton)

Wire rope truck crane

HC-238A



General Dimensions	Feet	meters
Overall width, outriggers extended (over floats)	24' 6"	7.47
Overall width, outriggers extended (center line of jacks)	22' 0"	6.71
Overall width, outriggers retracted (floats removed)	11' 10"	3.60
Minimum ground clearance	9 ⁹ / ₁₆ "	0.24
Ground clearance under upper counterweight with machine on tires	4' 11 ¹ / ₁₆ "	1.50
Counterweight tailswing, across corners	16' 3 ⁹ / ₁₆ "	5.15
Overall upper cab width	11' 0"	3.35
Basic boom length — open throat	50' 0"	15.24
— hammerhead	30' 0"	9.14
— tapered tip	110' 0"	33.53
Radius of boom hinge pin	3' 6"	1.07
Height of boom hinge pin	6' 8"	2.03

General Dimensions	Feet	meters
Overall length with basic boom in travel position over rear of carrier with bumper counterweight — open throat boom	81' 8 ¹ / ₂ "	24.90
— tapered tip boom	→ See note ←	
— hammerhead boom	60' 5 ¹ / ₂ "	18.43
Overall length with basic boom in travel position over front of carrier — open throat boom	70' 0"	21.34
— tapered tip boom	→ See note ←	
— hammerhead boom	48' 9"	14.86
Height over boom live mast with basic boom in travel position over rear of carrier — open throat boom	12' 3 ¹ / ₄ "	3.74
— tapered tip boom	→ See note ←	
— hammerhead boom	13' 6 ¹ / ₄ "	4.12
Height over boom live mast with basic boom in travel position over front of carrier — open throat boom	14' 9 ¹ / ₂ "	4.51
— tapered tip boom	→ See note ←	
— hammerhead boom	16' 9 ¹ / ₂ "	5.12

Note: Boom with tapered tip top section cannot be traveled over the road.

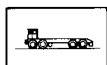
Axle loadings — approximate

Based on HC-238A crane upper equipped with 30,000# (13,608 kg) counterweight "A", boom lowering planetary, rear drum load lowering clutch, GM 6-71N diesel with single stage torque converter*, mounted on FMC 8 x 4, 11' 10" (3.61 m) wide, 270" (6.86 m) wheelbase carrier with GM 6V-92TAC diesel, 14-00 x 24L (20-ply rating) Custom Hi-Miler tires, hydraulic outriggers front and rear and front center hydraulic jack, 5 floats in storage racks, and 11,400# (5,171 kg) front bumper counterweight "A".	Basic machine Gross weight		Upper facing front				Upper facing rear			
			Front		Rear		Front		Rear	
	**	Lbs.	kg	Lbs.	kg	Lbs.	kg	Lbs.	kg	Lbs.
A	70,810	32,119	-13,585	-6,162	84,395	38,282	36,670	16,633	34,140	15,486
B	70,565	32,008	37,305	16,922	33,260	15,087	37,305	16,922	33,260	15,087
C	141,375	64,128	23,720	10,759	117,655	53,368	73,975	33,555	67,400	30,573
	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 hoist planetary	+ 790	+ 358	- 90	- 41	+ 880	+ 399	+ 350	+ 159	+ 440	+ 199
Boom lowering clutch (high speed)	+ 420	+ 191	- 50	- 23	+ 470	+ 214	+ 180	+ 82	+ 240	+ 109
Boomhoist wire rope — 675' (205.74 m), 7/8" (22 mm) diameter, Type "T"	+ 970	+ 440	- 110	- 50	+ 1,080	+ 490	+ 420	+ 191	+ 550	+ 249
Front drum load lowering clutch	+ 620	+ 281	+ 70	+ 32	+ 550	+ 249	+ 130	+ 59	+ 490	+ 222
Front drum load hoist or lowering planetary	+ 790	+ 358	+ 80	+ 36	+ 710	+ 322	+ 170	+ 77	+ 620	+ 281
Front drum wire rope — 900' (274.32 m), 1" (25 mm) diameter, Type "N"	+ 1,665	+ 755	+ 180	+ 81	+ 1,485	+ 674	+ 360	+ 163	+ 1,305	+ 592
Rear drum load hoist or lowering planetary	+ 790	+ 358	- 20	- 9	+ 810	+ 367	+ 270	+ 122	+ 520	+ 236
Rear drum wire rope — 900' (274.32 m), 1" (25 mm) diameter, Type "N"	+ 1,665	+ 755	- 35	- 4	+ 1,700	+ 771	+ 575	+ 55	+ 1,090	+ 107
Third drum (with front drum load lowering clutch and gear to power third drum)	+ 2,360	+ 1,070	+ 420	+ 190	+ 1,940	+ 880	+ 350	+ 158	+ 2,010	+ 912
Third drum — as above, but with load lowering clutch	+ 590	+ 268	+ 120	+ 54	+ 470	+ 214	+ 70	+ 32	+ 520	+ 236
Third drum wire rope — 460' (140.21 m), 7/8" (22 mm) diameter, Type "N"	+ 660	+ 299	+ 140	+ 64	+ 520	+ 235	+ 80	+ 36	+ 580	+ 263
Upper counterweight "A"	-30,000	-13,608	+12,895	+5,849	-42,895	-19,457	-22,680	-10,288	-7,320	-3,320
Upper counterweight "B"	+30,000	+13,608	-13,945	-6,325	+43,945	+19,933	+23,735	+10,766	+6,265	+2,842
Optional Cummins N855-P220 diesel with three-stage torque converter	+ 830	+ 376	- 240	- 109	+ 1,070	+ 485	+ 510	+ 231	+ 320	+ 145
Crane booms and auxiliary equipment —										
50' (15.24 m) basic open throat boom with accessories	+ 6,720	+ 3,048	+12,700	+5,762	- 5,980	- 2,714	-10,500	- 4,763	+17,220	+7,811
25' (7.62 m) open throat boom top section only	- 4,610	- 2,091	-10,720	-4,862	+ 6,110	+ 2,771	+ 9,220	+ 4,182	-13,830	-6,273
30' (9.14 m) basic hammerhead boom with accessories	+ 5,060	+ 2,295	+ 6,530	+ 2,962	- 1,470	- 667	- 4,880	- 2,214	+ 9,940	+ 4,509
5' (1.52 m) hammerhead boom top section only	- 2,950	- 1,338	- 4,550	- 2,064	+ 1,600	+ 726	+ 3,590	+ 1,628	- 6,540	- 2,966
Boom stops	+ 660	+ 299	+ 200	+ 91	+ 460	+ 208	+ 10	+ 5	+ 650	+ 294
Boom live mast (retracted and horizontal), bridle and spreader bar	+ 7,000	+ 3,175	+ 7,960	+ 3,610	- 960	- 435	- 5,680	- 2,576	+12,680	+5,751
Carrier —										
Front outrigger box, beams and jacks	- 7,500	- 3,402	- 4,720	-2,141	- 2,780	- 1,261	- 4,720	- 2,141	- 2,780	-1,261
Rear outrigger box, beams and jacks	- 7,500	- 3,402	- 2,110	- 957	- 9,610	- 4,359	+ 2,110	+ 957	- 9,610	- 4,359
Front and rear outrigger floats (4)	- 680	- 308	- 190	- 86	- 490	- 222	- 190	- 86	- 490	- 222
Front center jack float (1)	- 130	- 59	- 50	- 23	- 80	- 36	- 50	- 23	- 80	- 36
Bumper counterweight "A"	-11,400	- 5,171	-14,850	- 6,736	+ 3,450	+ 1,565	-14,850	- 6,736	+ 3,450	+1,565
Bumper counterweight "B"	+ 7,300	+ 3,311	- 9,780	- 4,436	- 2,480	- 1,125	+ 9,780	+ 4,436	- 2,480	- 1,125
Optional Cummins NTC-290 or NTCC-350 diesel	+ 745	+ 338	+ 795	+ 361	- 50	- 23	+ 745	+ 338	- 50	- 23
Optional 14-00 x 24L (20-ply rating) HCT highway type	+ 970	+ 440	+ 320	+ 145	+ 650	+ 295	+ 320	+ 145	+ 650	+ 295
Optional 14-00 x 24L (20-ply rating) Goodyear SRL-1	+ 1,330	+ 603	+ 440	+ 200	+ 890	+ 403	+ 440	+ 200	+ 890	+ 403

*GM 6-71N diesel with three-stage converter — weight approximately same as GM 6-71N with single-stage converter.
 **A — Upper, B — Carrier, C — Total.

General specifications

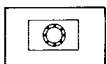
Mounting



Type

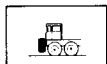
FMC, rubber tire, mobile base; 8 x 4 drive, 270" (6.86 m) wheelbase, 11' 10" (3.61 m) wide.

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.



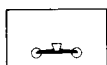
Bumper counterweight

Easily removed, mounts on front bumper hooks. Refer to lifting capacity charts for counterweight requirements. *Standard:* 11,400 lb. (5 171 kg) counterweight "A". *Optional:* 7,300 lb. (3 311 kg) counterweight "B".



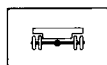
Front axles

Eaton FTCA-34L; bogie beam mounted tandem axles, single wheels. Track — 114" (2.89 m).



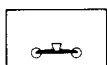
Bogie

Hendrickson; rubber bushed equalizer beams and torque rods.



Rear axles

Clark Planetary BD-71000, bogie mounted tandem axles, dual wheels. Track — 109 $\frac{1}{8}$ " (2.79 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.

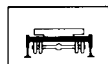


Tires

Single tires front; dual tires rear.

Standard — 14:00 x 24L (20-ply rating) Goodyear Custom Hi-Miler.

Optional — General HCT Nygen; 14:00 x 24L (20-ply rating). Goodyear SRL-1 lug-type; 14:00 x 24L (20-ply rating).

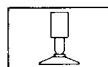


Outriggers

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.

Hydraulic removal of outrigger box pins — *Optional.*

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



Front center hydraulic jack with float

Standard: Required for handling 360° swing rated capacities. Warning horn sounds if ground surface allows front center jack to settle.

Trailer hitch — *Optional.*

Air and electric connections — *Optional:* At rear of mounting for trailer/tag axle lights and air brakes.

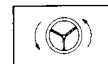
Brakes — 8-wheel air brakes.

Service — Dual diaphragm air chambers on four rear wheels; single diaphragm air chambers on four front wheels.

Size and area — Rear wheels; 20" x 7" (0.51 x 0.18 m); total effective lining area, 574 square inches (3 703 cm²) per axle. Front wheels; 17- $\frac{1}{4}$ " x 4" (0.44 x 0.10 m); total effective lining area, 248 square inches (1 601 cm²) per axle.

Parking — Brakes on four rear wheels applied and air chamber push rods automatically and mechanically locked with air control valve on dash.

Emergency — Brakes on four rear wheels apply and mechanically lock automatically if air pressure drops to 40 p.s.i. (275.80 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 15.5 c.f.m. (0.44 m³/min) air compressor. *Standard:* GM 6V-92TAC. *Optional:* — Cummins NTC 290 or Cummins NTCC-350.

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

Transmissions

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

Auxiliary — Eaton AT-1202; 2-speed, midship mounting.

Universals — Mechanics-type drive tubes; needle bearings.

Cab — One-man, offset, fully enclosed. Air 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, fire extinguisher, heater and defroster, 2-speed electric windshield wiper, and windshield washer.



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.



Fuel tanks

Two 45-gallon (170 L) capacity fuel tanks mounted under carrier with filler spout on each side of carrier.

Standard auxiliary equipment — West Coast type rear view mirrors, boom guide, lug wrench, 2-way reading bubble levels at four positions on carrier frame. 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.

Engine specifications	GM 6V-92TAC	Cummins NTC-290	Cummins NTCC-350
Number of cylinders	6	6	6
Bore and stroke — inches — (mm)	4.84 x 5 (123 x 127)	5½ x 6 (140 x 152)	5½ x 6 (140 x 152)
Piston displacement — cubic inches — (cm ³)	552 (9 047)	855 (14 013)	855 (14 013)
Engine r.p.m. at governed load speed	2,100	2,100	2,100
Brake horsepower (kW) at governed load speed	305 (227 kW)	290 (216 kW)	350 (261 kW)
Peak torque — foot pounds — (J)	921 (1 249)	930 (1 261)	1,065 (1 444)
Peak torque r.p.m.	1,300	1,300	1,400
Shutdown	Electric	Electric	Electric
Alternator	12-volt, 65 amp	12-volt, 65 amp	12-volt, 65 amp

Carrier speeds

Based on GM 6V-92TAC (or Cummins NTC-290 or NTCC-350) engine at 2,100 r.p.m. governed full load speed						
Gear		Main — Eaton RTO-915	Auxiliary — Eaton AT-1202			
			1.00:1.00		2.036:1.00	
			M.p.h.	km/h	M.p.h.	km/h
High	10th	.81	42.0	67.58	20.6	33.15
	9th	1.00	34.0	54.71	16.7	26.87
	8th	1.26	27.0	43.44	13.3	21.40
	7th	1.59	21.4	34.43	10.5	16.89
	6th	2.04	16.7	26.87	8.1	13.03
	Rev.	2.21	15.4	24.78	7.6	12.23
Low	5th	2.59	13.1	21.08	6.5	10.46
	4th	3.20	10.6	17.06	5.2	8.37
	3rd	4.04	8.4	13.52	4.1	6.60
	2nd	5.10	6.7	10.78	3.3	5.31
	1st	6.51	5.2	8.37	2.6	4.18
	Rev.	7.06	4.8	7.72	2.4	3.86
Deep reduction	5th	3.87	8.8	14.16	4.3	6.92
	4th	4.78	7.1	11.42	3.5	5.63
	3rd	6.03	5.6	9.01	2.8	4.51
	2nd	7.62	4.5	7.24	2.2	3.54
	1st	9.73	3.5	5.63	1.7	2.74
	Rev.	10.55	3.2	5.15	1.6	2.57

Note: Creep speed in deep reduction low (1st), based on peak engine torque of 1,300 r.p.m. for GM 6V-92TAC and Cummins NTC-290, and 1,400 r.p.m. for Cummins NTCC-350. Creep speed is 1.1 m.p.h. (1.77 km/h). Rear axle ratio 9.00 to 1.00.

Turning ability

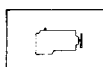
Turning circle diameter	Curb clearance circle diameter	Vehicle clearance circle diameter		
		Centerline of outer front tire	Over outside of front bumper	Over outside of front bumper counterweight "A"
114' 10" (35.00 m)	116' 0" (35.36 m)	120' 4" (36.68 m)	120' 6" (37.03 m)	122' 2" (37.24 m)

Revolving upperstructure



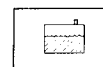
Frame

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



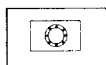
Engines

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.



Fuel tank

75-gallon (284 L) capacity fuel tank equipped with fuel gauge, fill pipe with flame arrester unit, and locking eye for padlock.



Turntable bearing

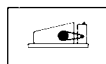
Inner race of bearing bolted to machined surface on under side of frame.

Engine Specifications	GM 6-71N with single stage torque converter ^①	GM 6-71N with three stage torque converter ^②	Cummins N855-C220 with three stage torque converter ^②
Number of cylinders	6	6	6
Bore and stroke — inches — (mm)	4¼ x 5 (108 x 127)	4¼ x 5 (108 x 127)	5½ x 6 (140 x 152)
Piston displacement — cubic inches — (cm ³)	426 (6 976)	426 (6 976)	855 (14 013)
Engine r.p.m. @ full load speed	1,900	1,880	1,800
Engine r.p.m. @ high idle speed	2,040	2,020	1,980
Net engine horsepower @ full load speed	171 (127 kW)	168 (125 kW)	168 (125 kW)
Peak torque — foot pounds — (J)	1,400 (1 898)	2,360 (3 200)	2,400 (3 254)
Peak torque r.p.m.	Output shaft stall	Output shaft stall	Output shaft stall
Electric system	12-volt	12-volt	12-volt
Batteries	1 12-volt	1 12-volt	2 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	171	171	171
— Number engine pinion teeth	21	22	22

① Allison #TCD0475

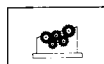
② Twin Disc #CO-10066TC-1

Power train



Transmission

Four-strand 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

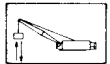
clutch spiders involute splined to shafts. Drum gear/clutch drum assemblies bolted together and mounted on shafts on anti-friction bearings. Machine-cut teeth on drum gears, pinions, spur gears, and chain wheel. Chain wheel and pinion fully enclosed and running in oil.

Principal operating functions



Control system

Speed-o-Matic® power hydraulic control system; a variable pressure system requiring no bleeding. Operating pressure transmitted to all two-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, 17¼" (0.44 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 drum — *Optional:* mounts forward of front main operating drum. One-piece, 12¼" (0.31 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.



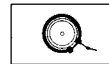
Drum clutches

Speed-o-Matic® power hydraulic two-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.

Load hoist clutches — Front and rear main, and optional third, operating drums — 23" (0.58 m) diameter, 6" (0.15 m) face width.

Load lowering clutches — Standard on rear main drum; optional on front main, and optional third, operating drums. Clutches 23" (0.58 m) diameter, 6" (0.15 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 two-shoe clutch drums. Available for either increased or decreased load hoist or lowering line speeds. Two-shoe clutches control standard line speeds. Planetary drive units controlled by external contracting band brakes through push button located on control lever.

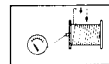


Drum brakes

Two-piece, external contracting band; mechanically foot pedal operated. Foot pedals equipped with latch to permit locking brakes in applied position. *Optional:* automatic brakes for front and rear main operating drums.

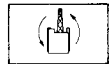
Front and rear main drums — Brakes 34" (0.86 m) diameter, 5" (0.13 m) face width.

Optional third drum — Brake 28" (0.71 m) diameter, 5" (0.13 m) 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.



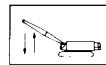
Swing clutches

23" (0.58 m) diameter, 6" (0.15 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 20" (0.51 m) diameter, 3¼" (83 mm) face width.

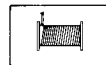
Swing lock — Mechanically controlled pawl engages external teeth of turntable bearing swing (ring) gear.

Maximum swing speed — 2.8 r.p.m.



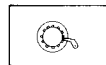
Boom hoist/lowering system

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



Boomhoist drum

12¼" (0.31 m) root diameter, smooth; involute splined to shaft.



Boomhoist drum locking pawl

Operator controlled; spring applied, mechanically released.



Boom hoist clutch

23" (0.58 m) diameter, 6" (0.15 m) face width.

Boom lowering planetary — Mounts on outer end of shaft; planetary external contracting band brake hydraulically controlled by boom hoist/lowering control lever.



Boom lowering clutch

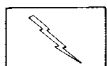
Optional: in addition to planetary boom lowering. Two-shoe clutch permits higher speed boom lowering mounted on shaft outside planetary unit, clutch drum bolted to outer face of planetary housing. Clutch power hydraulically controlled by depressing solenoid push button located on boom hoist/lowering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



Boom hoist/lowering brake

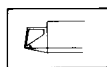
External contracting band; spring applied, hydraulically released as hoist clutch or lowering planetary are engaged. Brake drum involute splined to shaft; brake 28" (0.71 m) diameter, 5" (0.13 m) face width.

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



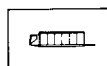
Electrical system

Battery, 12-volt, 225 ampere hour, either one or two batteries depending on engine; 12-volt, 60 ampere alternator. *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

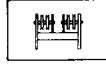
Environmental cab, modular type isolated from upper machinery cab. Tinted tempered glass panels in all windows, hand grab rail, adjustable, cushioned seat with head rest, arm rests on control consoles, dry chemical fire extinguisher. *Optional:* cab heater/defroster (propane or hot water type) and windshield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



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

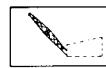
Contains seven 15" (0.38 m) root diameter sheaves, mounted on anti-friction bearings, for 16-part boomhoist wire rope reeving.



Counterweight

Total "AB" counterweight — 60,000 lbs. (27 216 kg). Counterweight "A" — 30,000 lbs. (13 608 kg); counterweight "B" — 30,000 lbs. (13 608 kg). Total "A" or "AB" counterweight power hydraulically raised from, or lowered to, carrier deck in seconds. Two hydraulically controlled frustums hold counterweight "A" in place; counterweight "B" bolts to top of "A".

Boom and jib



Boom

Tubular; two-piece basic boom. Boom 60" (91.52 m) wide, 54" (1.37 m) deep at centerline of connections. Alloy steel, round tubular chords 3 $\frac{3}{8}$ " (92 mm) outside diameter.

Base section — 25' (7.62 m) long. Boom feet 2 $\frac{3}{4}$ " (70 mm) wide on 60" (1.52 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 10' (3.05 m), 20' (6.10 m), 30' (9.14 m), and 40' (12.19 m) lengths, with appropriate pendants, and one hoist line deflector roller per extension.

Boom connections — In-line, tapered pins.

Boom top section — Open throat; 25' (7.62 m) long. Permissible boom lengths without jib — minimum 50' (15.24 m); maximum 230' (70.10 m). Maximum boom length with jib — 200' (60.96 m).

—**Boompoin machinery.** Six 21" (0.53 m) root diameter head sheaves mounted on anti-friction bearings.

Boom top section — Hammerhead; 5' (1.52 m) long. Permissible boom lengths without jib — minimum 30' (9.14 m), maximum 230' (70.10 m). Maximum boom length with jib — 200' (60.96 m).

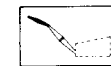
—**Boompoin machinery.** Six 21" (0.53 m) root diameter head sheaves; heat treated, mounted on anti-friction bearings.

Boom top section — Tapered tip; 45' (13.72 m) long, open throat on under side. Tapers from 60" x 54" (1.52 x 1.37 m) to 36" x 17" (0.91 m x 0.43 m) cross section. Permissible boom lengths with or without jib — minimum 110' (33.53 m), maximum 230' (70.10 m).

—**Boompoin machinery.** Two 28 $\frac{3}{8}$ " (0.72 m) root diameter sheaves; heat treated, mounted on anti-friction bearings.

—**Pendant spreader bar.** *Standard:* for tapered tip top section only. Mounts between boom suspension pendants to maintain "straight line" pendant spread from boomhoist bridle/spreader bar to point near base of tapered tip section, and to prevent interference between boom pendants and jib backstay lines. Use required for booms 210' (64.01 m) through 230' (70.10 m) long when equipped with jib; use optional for all other boom lengths.

Boom folding equipment — *Optional:* for folding 90' (27.43 m) or 110' (33.53 m) long booms equipped with open throat top section. Includes folding links, folding shaft, special 10' (3.05 m) long pin-connected boom extension with pendants, one hoist line deflector roller, and one boom peak wheel with 6.5 x 16 (6-ply rating) tire with tube. Special 10' (3.05 m) extension equipped with lifting lugs to accommodate boom folding shaft. (Combination of boom sections must be of such length that portion folded under is 20' (6.10 m) shorter than that above it.) *Note:* Folding equipment not available for booms equipped with hammerhead or tapered tip top sections.



Jib

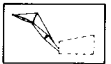
Tubular; two-piece basic jib 28' (8.61 m) long (effective length 30'—9.14 m); 36" (0.91 m) wide, 30" (0.76 m) deep at centerline of connections. Alloy steel tubular chords 2 $\frac{1}{4}$ " (57 mm) outside diameter.

Base section — 13' 3" (4.04 m) long.

Jib extensions — Available in 10' (3.05 m) and 15' (4.57 m) lengths with appropriate length pendants. Maximum boom/jib lengths permitted: open throat and hammerhead booms — 200' (60.96 m) boom plus 60' (18.29 m) jib; tapered tip boom — 230' (70.10 m) boom plus 70' (21.34 m) jib.

Jib connections — In-line, tapered pins.

Tip section — 15' (4.57 m) long; equipped with single peak sheave, 21" (0.53 m) root diameter, heat treated, and mounted on anti-friction bearings. Anchor provided at peak of jib tip section for two-part load hoist wire rope (whipline).



Jib mast

13' 6" (4.11 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.

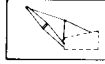
Jib stops — Telescoping type; pinned from jib mast to boom top section and from jib mast to jib base section.

Items applicable to boom and jib



Boom stops

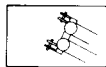
Dual lever-type; connected to bail shaft and top of boom base section; spring-loaded bumper ends.



Boom live mast

Supports boomhoist bridle and boom midpoint suspension pendants. Required for all boom lengths. Hydraulically extends from 25' 6" (7.77 m) to 30' 0" (9.14 m) working position, mechanically retracts to 25' 6" (7.77 m) position. **Note:** Retracted 25' 6" (7.77 m) position required for 30' (9.14 m) hammerhead boom maximum capacities, and used to reduce overall height for travel.

Boom live mast stops — Incorporated with boom stops; manually positioned when using live mast as short boom.



Boomhoist bridle and spreader bar

Serves as connection for boom suspension system. Bridle contains eight 15" (0.38 m) root diameter sheaves, (for 16-part boomhoist reeving) mounted on anti-friction bearings, and two 15" (0.38 m) root diameter auxiliary load hoist sheaves, mounted on bronze bushings, which enable boom live mast to be used for machine assembly or disassembly. Spreader bar provides attachment point for boom main pendants.

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

Boom midpoint suspension pendants — Required for all boom lengths exceeding 160' (48.77 m). Pendants connected at 85' (25.91 m) point of boom.

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, two with open throat boom top, and three with tapered tip top section.

Hydraulic boomfoot pin removal — **Standard:** a double acting hydraulic cylinder with integral cylinder rods/pins is permanently mounted between boomfoot lugs.

Auxiliary equipment



Boom angle indicator

Pendulum type; mounted on boom base section.

Anti-two block warning device — **Optional:** available for main load hoist line, or main load hoist line and jib line.

Load moment device — **Optional:** audio/visual warning device for main load hoist line, or main load hoist line and jib line.

Automatic function kick-out system — **Optional:** for use with anti-two block warning device and/or load moment device. **Note:** requires optional automatic brakes.

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)

Principal function systems —

Swing, load hoisting/lowering and boom hoisting/lowering systems independent of one another.

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 — 23" (.58 m) diameter x 6" (.15 m) face width; aluminum alloy shoes.

Swing brake — External contracting band; spring applied, hydraulically released by operator controlled lever. Brake drum involute splined to horizontal swing shaft; brake 20" (.51 m) diameter, 3¼" (82.6 mm) face width.

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

Maximum swing speed — 2.8 r.p.m.

Load hoisting/lowering system —

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

Front and rear drums — One-piece, 17¼" (.44 m) root diameter smooth drums; involute splined on shafts.

Third drum — Optional; mounts forward of front main operating drum. Available for use as third load drum, controlled tagline, etc.; design and control similar to main operating drums. One-piece, 12¼" (.31 m) root diameter smooth drum; involute splined to shaft.

Drum clutches — Control load hoist and power load lowering. Clutches for front and rear main, and optional third, operating drums — 23" (.58 m) diameter, 6" (.15 m) face width.

Power load lowering clutches — Standard on rear main operating drum; optional on front and optional third 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 brakes 34" (.86 m) diameter, 5" (.13 m) face width; optional third drum brake 28" (.71 m) diameter, 5" (.13 m) face width.

Drum rotation indicators — Standard for front and rear main operating drums. Solenoid operated indicator buttons, recessed in drum clutch control lever handles, pulsate whenever rope drums rotate in either direction. Three to five pulsations represent approximately 1" (25.40 mm) rope travel on or off drum.

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 hoist/lowering drum clutch control levers. **Note:** Installation of optional third operating drum includes required installation of power load lowering clutch/gear unit on front main operating drum shaft.

Boom hoist/lowering system —

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

Wire rope drum — 12¼" (.31 m) root diameter, smooth; involute splined to shaft.

Drum locking pawl — Operator controlled; spring applied, hydraulically released.

Boom hoist clutch — 23" (.58 m) diameter, 6" (.15 m) face width.

Planetary (lowering) — Mounts on outer end of shaft; planetary external contracting band brake hydraulically controlled by boom hoist/lowering control lever.

Clutch (lowering) — 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 28" (.71 m) diameter, 5" (.13 m) face width.

Boomhoist limiting device — Provided to restrict hoisting boom above recommended minimum radius; located on exterior right-hand side of operator's cab. When

mechanical device is contacted by boom in near vertical position, it acts to return the boom hoist control lever to the neutral position, thus disengaging boom hoist clutch and applying boom hoist brake.

Gantry — Mounted to upper frame; supports boom suspension system.

Bail — Integral part of machinery side housings with cross-over sheave frame pinned to bail; supports boom suspension system. Contains 7 sheaves, mounted on anti-friction bearings for 16-part boomhoist rope reeving.

Control system —

Speed-o-Matic® power hydraulics; a variable pressure control system. Variable pressure is transmitted through oil to all operating cylinders. The system includes a pump to provide a constant flow of oil, an accumulator to maintain operating pressure, oil filter, relief valve, unloader valve, and variable pressure operator controlled valves to regulate the pressure to each hydraulic cylinder. Oil sump tank—FMC, 12 gal. (45.42 liters) capacity with filter and strainer assembly.

Clutches — Speed-o-Matic® power hydraulic actuated, 2-shoe type, for all clutch actuated functions except engine master clutch.

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.

Upper 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.

Counterweight — Total "AB" counterweight — 47,000# (21 319 kg). "A" counterweight — 27,000# (12 247 kg) — held in place on two hydraulically controlled frustums; frustum control valves located at rear of upper machinery cab. "B" counterweight — 20,000# (9 072 kg) — bolted in position on top of "A" counterweight for ease in mounting or dismounting. Total "A" or "AB" counterweight power hydraulically raised from, or lowered to, carrier deck in seconds.



Attachment —

Boom — Tubular; two section basic boom; main chords, alloy steel; round tubular steel lattice, fully coped.

Base section — 25' (7.62 m) long; (1.52 m) wide by 54" (1.37 m) deep, with main chords 3 $\frac{3}{8}$ " (92.08 mm) outside diameter. Section equipped with basic pendants.

Boomfeet — 2 $\frac{3}{4}$ " (69.85 mm) wide on 60' (1.52 m) centers.

Boomfoot pin removal — Standard; pins manually installed/removed with threaded rod. Optional: double-acting hydraulic cylinder mounted between boomfoot lugs for pin installation/removal.

Extensions — Available in 10' (3.05 m), 20' (6.10 m), 30' (9.14 m), and 40' (12.19 m) lengths with appropriate length pendants, and one hoist line deflector roller per extension.

Top sections — Choice of 3; each equipped with basic pendants and head sheaves mounted on anti-friction bearings.

Open throat — 25' (7.62 m) long; six 21" (.53) root diameter head sheaves, 2 hoist line deflector rollers, and backstay lines for jib (if ordered). Permissible boom lengths without jib — minimum 50' (15.24 m); maximum 230' (70.10 m). Maximum boom length when using jib — 200' (60.96 m).

Boom folding equipment — Optional; for folding 90' (27.43 m) or 110' (33.53 m) long booms equipped with open throat top section. Includes folding line, folding shaft, special 10' (3.05 m) long pin-connected boom extension with pendants, one hoist line deflector roller and one boom peak wheel with 6.5 x 16 (6-ply rating) tire with tube. Special 10' (3.05 m) extension equipped with lifting lugs to accommodate boom folding shaft. (Combination of boom sections must be of such length that portion folded under is 20' (6.10 m) shorter than that above it.) **Note:** Folding equipment not available for booms equipped with hammerhead or tapered tip top sections.

Hammerhead — 5' (1.52 m) long; six 21" (.53 m) root diameter head sheaves, and backstay lines for jib (if ordered). Permissible boom lengths without jib — minimum 30' (9.14 m); maximum 230' (70.10 m). Maximum boom length when using jib - 200' (60.96 m).

Tapered tip — 45' (13.72 m) long, tapered from 60" x 54" (1.52 x 1.37m) to 36" x 17" (.91 x .43 m) cross section; tapered tip section's upper half has open throat on underneath side. Equipped with two 28 $\frac{3}{8}$ " (.72 m) root diameter sheaves, 3 hoist line

deflector rollers, pendant spreader bar, and backstay lines for jib (if ordered). Boom minimum length — 110' (33.53 m); maximum main boom length — 230' (70.10 m), with or without jib.

Pendant spreader bar — For tapered tip top section only. Mounted between boom suspension pendants to maintain "straight line" pendant spread from boomhoist bridle/spreader bar to point near base of tapered tip top section, and to prevent interference between boom pendants and jib backstay lines. Standard equipment — use required for booms 210' (64.01 m) through 230' (70.10 m) long when equipped with jib; use optional for booms 110' (33.53 m) through 230' (70.10 m) long without jib.

Connections — In-line pin connections.

Items applicable to open throat, hammerhead, and tapered tip booms —

Boom stops — Dual, lever type, with spring-loaded bumper ends.

Boomhoist bridle and spreader bar — Serves as connection for boom suspension system. Bridle contains eight 15" (.38 m) root diameter sheaves (for 16-part boomhoist reeving) mounted on anti-friction bearings, and two 15" (.38 m) root diameter auxiliary load hoist sheaves, mounted on bronze bushings, which enable boom live mast to be used for machine assembly or disassembly.

Boom live mast — Supports boomhoist bridle and boom midpoint suspension pendants. Required for all boom lengths. Hydraulically extends from 25'6" (7.77 m) to 30'0" (9.14 m) working position, mechanically retracts to 25'6" (7.77 m) position. **Note:** Retracted 25'6" (7.77 m) position required for 30' (9.14 m) hammerhead boom maximum capacities, and used to reduce overall height for travel.

Boom live mast stops — Incorporated with boom stops; manually positioned when using live mast as short boom.

Boom angle indicator — Pendulum type; mounted on boom base section.

Load hoist line deflector rollers — To minimize hoist line chafing on top side of boom. Rollers mounted on anti-friction bearings. One roller furnished with each extension, 2

furnished with open throat top section; 3 rollers furnished with tapered tip top section.

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

Boom midpoint suspension pendants — Required for all boom lengths exceeding 160' (48.77m). Pendants connected at 85' (25.91m) point of boom.

Jib — Two-piece, 28'3" (8.61 m) long (effective length 30'0" — 9.14 m); 30" (.76 m) deep by 36" (.91 m) wide at connections; alloy steel tubular chords 2 $\frac{1}{4}$ " (57.15 mm) outside diameter.

Base section — 13'3" (4.04 m) long.

Extensions — Available in 10' (3.05 m) and 15' (4.57 m) lengths with appropriate length pendants. Maximum boom/jib lengths permitted: — Open throat boom; 200' (60.96 m) boom plus 60' (18.29 m) jib. — Hammerhead boom; 200' (60.96 m) boom plus 60' (18.29 m) jib. — Tapered tip boom; 230' (70.10 m) boom plus 70' (21.34 m) jib.

Tip section — 15'0" (4.57 m) long; equipped with single sheave, 21" (.53 m) root diameter, mounted on anti-friction bearings. Anchor provided at peak of jib for 2-part load hoist wire rope (whipline); jib frontstay line anchors are suspended from head shaft.

Connections — In-line pin connections.

Jib mast — 13'6" (4.11 m) high, mounted on jib base section. Two deflector sheaves mounted within jib mast, on anti-friction bearings, for jib whipline. Two equalizer sheaves mounted at top of mast — one for jib frontstay line, one for jib backstay line.

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

Auxiliary equipment —

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

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

Hand throttle — Twist grip type on swing control lever, optional.

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FMC Corporation Crane and Excavator Division World Headquarters Cedar Rapids Iowa 52406
Plants in: Cedar Rapids Iowa (2) • Lexington & Bowling Green Kentucky • Ontario Canada • Milan Italy • Queretaro Mexico & Nagoya Japan (under license)





Link-Belt® HC-238A 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 14	3.05 to 4.27	47,000	21 319	47,000	21 319	47,000	21 319
14 to 27	4.27 to 8.23	11,400	5 171	47,000	21 319	47,000	21 319

① Boom live mast must be fixed in extended 30' (9.14 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 47,000 lbs. (21 319 kg) capacity requires 3-parts 7/8" (22 mm) diameter wire rope.

Wire rope and rope drum data

Main load hoist wire rope length — for tubular booms using 1" (26 mm) diameter wire rope. ①②③

Parts of line	Boom lengths													
	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
1	80	24.38	100	30.48	120	36.58	140	42.67	160	48.77	180	54.86	200	60.96
2	120	36.58	150	45.72	180	54.86	210	64.01	240	73.15	270	82.30	300	91.44
3	160	48.77	200	60.96	240	73.15	280	85.34	320	97.54	360	109.73	400	121.92
4	200	60.96	250	76.20	300	91.44	350	106.68	400	121.92	450	137.16	500	152.40
5	240	73.15	300	91.44	360	109.73	420	128.02	480	146.30	540	164.59	600	182.88
6	280	85.34	350	106.68	420	128.02	490	149.35	560	170.69	630	192.02	700	213.36
7	320	97.54	400	121.92	480	146.30	560	170.69	640	195.07	720	219.46	800	243.84
8	360	109.73	450	137.16	540	164.59	630	192.02	720	219.46	810	246.89	900	274.32
9	400	121.92	500	152.40	600	182.88	700	213.36	800	243.84	900	274.32	1,000	304.80
10	440	134.11	550	167.64	660	201.17	770	234.70	880	268.22	990	301.75		
11	480	146.30	600	182.88	720	219.46	840	256.03	960	292.61				
12	520	158.50	650	198.12	780	237.74	910	277.37	1,020	310.90				

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)	
	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters
1	220	67.06	240	73.15	260	79.25	280	85.34	300	91.44	320	97.54	340	103.63
2	330	100.58	360	109.73	390	118.87	420	128.02	450	137.16	480	146.30	510	155.45
3	440	134.11	480	146.30	520	158.50	560	170.69	600	182.88	640	195.07	680	207.26
4	550	167.64	600	182.88	650	198.12	700	213.36	750	228.60	800	243.84	850	259.08
5	660	201.17	720	219.46	780	237.74	840	256.03	900	274.32	960	292.61	1,020	310.90
6	770	234.70	840	256.03	910	277.37	980	298.70						
7	880	268.22	960	292.61										
8	990	301.75												

Parts of line	Boom lengths													
	170' (51.82 m)		180' (54.86 m)		190' (57.91 m)		200' (60.96 m)		210' (64.01 m)		220' (67.06 m)		230' (70.10 m)	
	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters
1	360	109.73	380	115.82	400	121.92	420	128.02	440	134.11	460	140.21	480	146.30
2	540	164.59	570	173.74	600	182.88	630	192.02	660	201.17	690	210.31	720	219.46
3	720	219.46	760	231.65	800	243.84	840	256.03	880	268.22	920	280.42	960	292.61
4	900	274.32	950	289.56	1,000	304.80	1,050	320.04						

① Hammerhead boom lengths: 30' to 230' (9.14 to 70.10 m)
 ② Open throat boom lengths: 50' to 230' (15.24 to 70.10 m)
 ③ Tapered boom length: 110' to 230' (33.53 to 70.10 m)

HC-238A performance specifications

Wire rope and rope drum data — (continued)

Jib load hoist rope lengths (whipline) — using 7/8" (22 mm) diameter wire rope.

Jib length	Parts of line	Boom lengths															
		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)		120' (36.58 m)	
		Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters
30' (9.14 m)	1	180	54.86	200	60.96	220	67.06	240	73.15	260	79.25	280	85.34	300	91.44	320	97.54
	2	265	80.77	295	89.92	325	99.06	355	108.20	385	117.35	415	126.49	445	135.64	475	144.78
40' (12.19 m)	1	200	60.96	220	67.06	240	73.15	260	79.25	280	85.34	300	91.44	320	97.54	340	103.63
	2	295	89.92	325	99.06	355	108.20	385	117.35	415	126.49	445	135.64	475	144.78	505	153.92
50' (15.24 m)	1	220	67.06	240	73.15	260	79.25	280	83.34	300	91.44	320	97.54	340	103.63	360	109.73
	2	325	99.06	355	108.20	385	117.35	415	126.49	445	135.64	475	144.78	505	153.92	535	163.07
60' (18.29 m)	1	240	73.15	260	79.25	280	85.34	300	91.44	320	97.54	340	103.63	360	109.73	380	115.82
	2	355	108.20	385	117.35	415	126.49	445	135.64	475	144.78	505	153.92	535	163.07	565	172.21
70' (21.34 m)	1	Not applicable												380	115.82	400	121.92
	2	Not applicable												565	172.21	595	181.36

Jib length	Parts of line	Boom lengths															
		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)		200' (60.96 m)	
		Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters
30' (9.14 m)	1	340	103.63	360	109.73	380	115.82	400	121.92	420	128.02	440	134.11	450	140.21	480	146.30
	2	505	153.92	535	163.07	565	172.21	595	181.36	625	190.50	655	199.64	685	208.79	715	217.93
40' (12.19 m)	1	360	109.73	380	115.82	400	121.92	420	128.02	440	134.11	460	140.21	480	146.30	500	152.40
	2	535	163.07	565	172.21	595	181.36	625	190.50	655	199.64	685	208.79	715	217.93	745	227.08
50' (15.24 m)	1	380	115.82	400	121.92	420	128.02	440	134.11	460	140.21	480	146.30	500	152.40	520	158.50
	2	565	172.21	595	181.36	625	190.50	655	199.64	685	208.79	715	217.93	745	227.08	775	236.22
60' (18.29 m)	1	400	121.92	420	128.02	440	134.11	460	140.21	480	146.30	500	152.40	520	158.50	540	164.59
	2	595	181.36	625	190.50	655	199.64	685	208.79	715	217.93	745	227.08	775	236.22	805	245.36
70' (21.34 m)	1	420	128.02	440	134.11	460	140.21	480	146.30	500	152.40	520	158.50	540	164.59	560	170.69
	2	625	190.50	655	199.64	685	208.79	715	217.93	745	227.08	775	236.22	805	245.36	835	254.51

Jib length	Parts of line	Boom lengths					
		210' (64.01 m)		220' (67.06 m)		230' (70.10 m)	
		Feet	meters	Feet	meters	Feet	meters
30' (9.14 m)	1	500	152.40	520	158.50	540	164.59
	2	745	227.08	775	236.22	805	245.36
40' (12.19 m)	1	520	158.50	540	164.59	560	170.69
	2	775	236.22	805	245.36	835	254.51
50' (15.24 m)	1	540	164.59	560	170.69	580	176.78
	2	805	245.36	835	254.51	865	263.65
60' (18.29 m)	1	560	170.69	580	176.78	600	182.88
	2	835	264.51	865	263.65	895	272.80
70' (21.34 m)	1	580	176.78	600	182.88	620	188.98
	2	865	263.65	895	272.80	925	281.94

Drum wire rope capacities

Wire rope layer	Front or rear drum — 17 1/4" (0.50 m) root diameter smooth laggings								Third or boomhoist drum — 12 1/4" (0.31 m) root diameter smooth laggings			
	7/8" (22 mm) wire rope				1" (26 mm) wire rope				7/8" (22 mm) wire rope			
	Rope per layer		Total wire rope		Rope per layer		Total wire rope		Rope per layer		Total wire rope	
	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters
1	100	30.48	100	30.48	88	26.82	88	26.82	74	22.56	74	22.56
2	109	33.22	209	63.70	96	29.26	184	56.08	83	25.30	157	47.85
3	118	35.97	327	99.67	105	32.00	289	88.09	92	28.04	249	75.90
4	126	38.40	453	138.07	113	34.44	402	122.53	101	30.78	350	106.68
5	134	40.84	587	178.92	122	37.19	524	159.72	109	33.22	459	139.90
6	142	43.28	729	222.20	129	39.32	653	199.03				
7	151	46.02	880	268.22	137	41.76	790	240.79				
8	158	48.16	1,038	316.38								

HC-238A performance specifications

Wire rope and rope drum data — (continued)

Rope size and type

Wire rope application	Size and type used
Boomhoist	$\frac{7}{8}$ " (22 mm) diameter, Type "T"
Main load hoist	1" (26 mm) diameter, Type "N"
Jib load hoist (1-part)	$\frac{7}{8}$ " (22 mm) diameter, Type "P"
Jib load hoist (2-part)	$\frac{7}{8}$ " (22 mm) diameter, Type "N"
Boom pendants	1 $\frac{1}{2}$ " (38 mm) diameter, Type "N"
Boom midpoint suspension pendants	$\frac{7}{8}$ " (22 mm) diameter, Type "N"
Jib frontstay line	$\frac{1}{4}$ " (19 mm) diameter, Type "N"
Jib backstay line	$\frac{1}{4}$ " (19 mm) diameter, Type "N"

Wire rope types
Type "N" — 6 x 25 (6 x 19) class, filler wire, extra improved plow steel, preformed, independent wire rope center, right lay, regular lay.
Type "P" — 19 x 7 non-rotating, extra improved plow steel, preformed, wire rope center core.
Type "T" — 6 x 30 flattened strand, extra improved plow steel, preformed independent wire rope center, right lay, lang lay.

Available line speed and line pull ^① — developed by machinery with first layer of wire rope, based on GM 6-71N ^② diesel engine with Allison single stage torque converter developing net horsepower based on 70% converter efficiency as defined by P.C.S.A. Standard No. 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	Fp.m.	m/min	Pounds	kilograms		Inches	mm	Fp.m.	m/min	Pounds	kilograms
Crane	17 $\frac{1}{4}$ " (0.50 m)	$\frac{7}{8}$ "	22	85	25.91	41,000	18,597	12 $\frac{1}{4}$ " (0.31 m)	$\frac{7}{8}$ "	22	68	20.73	47,100	21,364

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	Fp.m.	m/min	Pounds	kilograms		Inches	mm	Fp.m.	m/min	Pounds	kilograms
Crane	17 $\frac{1}{4}$ " (0.44 m)	$\frac{7}{8}$ "	22	197	60.05	22,700	10,297	12 $\frac{1}{4}$ " (0.31 m)	$\frac{7}{8}$ "	22	175	53.34	22,700	10,297

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.

Single line load ^①		Front or rear drum — 17 $\frac{1}{4}$ " (0.44 m) root diameter smooth laggings — $\frac{7}{8}$ " (22 mm) rope											
		Line speed											
		First layer rope				Fifth layer rope				Eighth layer rope			
		Standard		High speed ^②		Standard		High speed ^②		Standard		High speed ^②	
Pounds	kilograms	Fp.m.	m/min	Fp.m.	m/min	Fp.m.	m/min	Fp.m.	m/min	Fp.m.	m/min	Fp.m.	m/min
1,000	454	336	102.41	562	171.30	462	140.82	769	234.39	556	169.47	921	280.72
5,000	2,268	312	95.10	488	148.74	416	126.80	627	191.11	488	148.74	713	217.32
10,000	4,536	281	85.65	394	120.09	358	109.12	424	129.24	403	122.83		
15,000	6,804	251	76.50	262	85.95	293	89.31			300	91.44		
20,000	9,072	217	66.14										
22,700	10,297	197	60.05										

^①Maximum permissible load on single part of line using Type "N" wire rope — 22,700 lbs. (10,297 kg) for $\frac{7}{8}$ " (22 mm), 29,500 lbs. (13,381 kg) for 1" (26 mm) per part of line. Type "P" wire rope — 18,500 lbs. (8,392 kg) for $\frac{7}{8}$ " (22 mm) single line only.

^②Machine equipped with optional high speed planetary drum drive units



HC-238A performance specifications

Wire rope and 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 Allison single stage torque converter.

Single line load [ⓐ]		Third drum — 12¼" (0.31 m) root diameter smooth lagging — using ¾" (22 mm) wire rope					
		Line speed					
		First layer		Third layer		Fifth layer	
Pounds	kilograms	F.p.m.	m/min	F.p.m.	m/min	F.p.m.	m/min
1,000	454	270	82.30	341	103.94	411	125.27
5,000	2,268	253	77.11	313	95.40	371	113.08
10,000	4,536	232	70.71	278	84.73	321	97.84
15,000	6,804	210	64.00	245	74.68	265	80.77
20,000	9,072	189	57.61	204	62.18	206	62.79
22,700	10,297	175	53.34	181	55.17		

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.

Single line load [ⓐ]		Front or rear drum — 17¼" (0.44 m) root diameter smooth laggings — 1" (25 mm) rope											
		Line speed											
		First layer rope		Fourth layer rope				Seventh layer rope					
Pounds	kilograms	Standard		High speed [ⓑ]		Standard		High speed [ⓑ]		Standard		High speed [ⓑ]	
		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	338	103.02	566	172.52	446	135.94	744	226.77	554	168.86	917	279.50
5,000	2,268	314	95.71	491	149.66	403	122.83	611	186.23	486	148.13	711	216.71
10,000	4,536	283	86.26	395	120.40	349	106.38	423	128.93	403	122.83		
15,000	6,804	252	76.81	282	85.95	290	88.39			300	91.44		
20,000	9,072	218	66.45			225	68.58						
25,000	11,340	180	54.86										
29,500	13,381	149	45.42										

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 — 17¼" (0.44 m) root diameter smooth laggings — ¾" (22 mm) rope											
		Line speed											
		First layer rope		Fifth layer rope				Eighth layer rope					
Pounds	kilograms	Standard		High speed [ⓑ]		Standard		High speed [ⓑ]		Standard		High speed [ⓑ]	
		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	257	78.33	434	132.28	355	108.20	597	181.97	427	130.15	716	218.24
5,000	2,268	244	74.37	391	119.18	328	99.97	511	155.75	388	118.26	536	163.37
10,000	4,536	226	68.88	324	98.76	292	89.00	378	115.21	329	100.28		
15,000	6,804	206	62.79	254	77.42	248	75.59			263	80.16		
20,000	9,072	182	55.47										
22,700	10,297	171	52.12										

[ⓐ]Maximum permissible load on single part of line using Type "N" wire rope — 22,700 lbs. (10,297 kg) for ¾" (22 mm); 29,500 lbs. (13,381 kg) for 1" (26 mm) per part of line. Type "P" wire rope — 18,500 lbs. (8,392 kg) for ¾" (22 mm) single line only

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



HC-238A 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 ^①		Front or rear drum — 17¼" (0.44 m) root diameter smooth laggings — 1" (25 mm) rope											
		Line speed											
		First layer rope				Fourth layer rope				Seventh 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	259	78.94	437	133.20	343	104.55	577	175.87	426	129.84	714	217.63
5,000	2,268	246	74.98	393	119.79	318	96.93	497	151.49	387	117.96	585	178.31
10,000	4,536	227	69.19	325	99.06	286	87.17	376	114.60	328	99.97		
15,000	6,804	207	63.09	255	77.72	243	74.07			268	81.69		
20,000	9,072	183	55.78			202	61.57						
25,000	11,340	161	49.07										
29,500	13,381	140	42.67										

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

Single line load ^①		Front or rear drum — 17¼" (0.44 m) root diameter smooth laggings — ¾" (22 mm) rope											
		Line speed											
		First layer rope				Fifth layer rope				Eighth 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	250	76.20	422	128.63	345	105.16	579	176.48	415	126.49	695	211.84
5,000	2,268	236	71.93	377	114.91	317	96.62	490	149.35	375	114.30	561	170.99
10,000	4,536	217	66.14	312	95.10	280	85.34	361	110.03	317	96.92		
15,000	6,804	197	60.05	245	76.68	237	72.24			256	78.03		
20,000	9,072	174	53.04										
22,700	10,297	163	49.68										

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

Single line load ^①		Front or rear drum — 17¼" (0.44 m) root diameter smooth laggings — 1" (25 mm) rope											
		Line speed											
		First layer rope				Fourth layer rope				Seventh 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	252	76.81	425	129.54	333	101.50	560	170.69	414	126.19	692	210.92
5,000	2,268	238	72.54	379	115.52	308	93.88	477	145.39	373	113.69	559	170.38
10,000	4,536	219	66.75	313	95.40	278	84.73	357	108.81	316	96.32		
15,000	6,804	198	60.35	245	74.68	233	70.02			256	78.03		
20,000	9,072	175	53.34			195	59.44						
25,000	11,340	154	46.94										
29,500	13,381	135	41.15										

① Maximum permissible load on single part of line using Type "N" wire rope — 22,700 lbs. (10,297 kg) for ¾" (22 mm); 29,500 lbs. (13,381 kg) for 1" (26 mm) per part of line. Type "P" wire rope — 18,500 lbs. (8,392 kg) for ¾" (22 mm) single line only.

② 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-238A lifting crane capacities — open throat boom PCSA Class 12-720

Boom — tubular: 60" (1.52 m) wide, 54" (1.37 m) deep with open throat top section, 1 3/8" (35 mm) boom pendants, boom live mast, and boom midpoint suspension pendants as required.

Jib — tubular: 36" (0.91 m) deep, 30" (0.76 m) wide.

Counterweights — Refer to charts below.

Mounting — rubber tire mobile base: FMC, 8 x 4 drive, 270" (6.86 m) wheelbase, 11' 10" (3.61 m) wide.

Counterweights					
"A" upper		"AB" upper		"A" bumper	
Pounds	kilograms	Pounds	kilograms	Pounds	kilograms
27,000	12 247	47,000	21 319	11,400	5 171

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

Standard HC-238A must be equipped with the counterweight combinations below when 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	50	15.24	← Not applicable →				50	15.24	← Not applicable →	
	Maximum	180	54.86					180	54.86		
"AB" upper and "A" bumper	Minimum	50	15.24	50 - 30	15.24 - 9.14	50	15.24	50 + 30	15.24 + 9.14		
	Maximum	230	70.10	200 - 60	60.96 + 18.29	220	67.06	190 + 60	57.91 + 18.29		
On tires²											
"A" upper and "A" bumper	Minimum	50	15.24	← Not applicable →				50	15.24	← Not applicable →	
	Maximum	150	45.72					130	39.62		

① Limited to 95% of available stability with machine standing level on firm supporting surface.
 ② Air pressure in tires to be 115 p.s.i. (793 kPa).

Machine travel with open throat boom or boom + jib, with no load^③.

Standard HC-238A 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 ^④									
		Jobsite moves at 1 m.p.h. (1.61 km/h), boom at 80° boom angle, upper facing rear only.				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 pinned in 30' (9.14 m) extended position.					
		Boom		Boom + jib		Boom		Boom + jib			
		Feet	meters	Feet	meters	Feet	meters	Feet	meters		
"A" upper and "A" bumper	Minimum	50	15.24	← Not applicable →				50	15.24	← Not applicable →	
	Maximum	180	54.86					130	39.62		
"AB" upper and "A" bumper	Minimum	50	15.24	← Not applicable →				50	15.24	← Not applicable →	
	Maximum	230	70.10					130	39.62		

③ Limited to 85% of available stability with machine on firm, level supporting surface.
 ④ Air pressure in front and rear tires to be 100 p.s.i. (690 kPa) for travel at 1 and 5 m.p.h. (1.61 and 8.05 km/h).
 Note: Hook block may be carried only when attached to mounting.

HC-238A lifting crane capacities — open throat boom

PCSA Class 12-720

Refer to **Notes**

Page 243.00

Boom — tubular; 60" (1.57 m) wide, 54" (1.37 m) deep with open throat top section, 1 3/8" (35 mm) boom pendants, boom live mast, and boom midpoint suspension pendants as required.

Mounting — rubber tire mobile base: FMC, 8 x 4 drive, 270" (6.86 m) wheelbase, 11' 10" (3.61 m) wide.

Counterweights — refer to charts Page 237.00

Length	HC-238A open throat boom						"A" upper and "A" bumper ^① counterweights								"AB" upper and "A" bumper counterweights			
	Radius		Angle	Boom point height ^②		On outriggers				On tires (static)				On outriggers only				
	Feet	meters				Over rear		Over side and 360° swing ^③		Over rear		Over side		Over rear		Over side and 360° swing ^③		
			Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms				
50' ^④ (15.24 m)	12	3.66	80.2	55' 11"	17.05	233,900*	106 095*	233,900*	106 095*	90,500*	41 050*	75,000*	34 019*	280,000*	127 005*	280,000*	127 005*	
	13	3.96	79.0	55' 9"	16.99	217,600*	98 701*	217,600*	98 701*	87,300*	39 598*	70,200*	31 842*	260,200*	118 024*	260,200*	118 024*	
	14	4.27	77.9	55' 7"	16.93	203,600*	92 351*	203,600*	92 351*	84,300*	38 237*	65,900*	29 891*	242,700*	110 086*	242,700*	110 086*	
	15	4.57	76.7	55' 4"	16.86	191,100*	86 681*	191,100*	86 681*	81,500*	36 967*	62,100*	28 168*	227,600*	103 237*	227,600*	103 237*	
	20	6.10	70.7	53' 10"	16.42	145,900*	66 179*	145,900*	66 179*	70,500*	31 978*	47,800*	21 681*	170,200*	77 201*	170,200*	77 201*	
	25	7.62	64.5	51' 10"	15.79	117,400*	53 251*	117,400*	53 251*	61,200*	27 759	38,300*	17 372*	131,300*	59 556*	131,300*	59 556*	
	30	9.14	58.0	49' 1"	14.96	95,500*	43 318*	92,000	41 730	48,300	21 908	31,400*	14 242*	106,400*	48 262*	106,400*	48 262*	
	35	10.67	50.9	45' 6"	13.87	79,800*	36 196*	71,300	32 341	39,400	17 871	26,500*	12 020*	88,900*	40 324*	88,900*	40 324*	
	40	12.19	43.1	40' 10"	12.45	68,100*	30 889*	57,800	26 217	32,900	14 923	22,500*	10 205*	76,200*	34 563*	72,000	32 658	
	50	15.24	21.6	25' 1"	7.63	49,400	22 407	40,900	18 551	24,100	10 931	15,900	7 212	57,900*	26 263*	51,500	23 360	
60' ^④ (18.29 m)	13	3.96	80.9	65' 11"	20.09	209,600*	95 072*	209,600*	95 072*	87,300*	39 598*	70,200*	31 842*	209,600*	95 072*	209,600*	95 072*	
	14	4.27	79.9	65' 9"	20.04	203,700*	92 396*	203,700*	92 396*	84,200*	38 192*	66,000*	29 937*	203,900*	92 487*	203,900*	92 487*	
	15	4.57	78.9	65' 7"	19.98	191,100*	86 681*	191,100*	86 681*	81,500*	36 967*	62,200*	28 213*	199,700*	90 582*	199,700*	90 582*	
	20	6.10	74.0	64' 4"	19.61	146,000*	66 224*	146,000*	66 224*	70,400*	31 932*	47,900*	21 727*	156,100*	70 805*	156,100*	70 805*	
	25	7.62	69.0	62' 8"	19.11	117,500*	53 297*	117,500*	53 297*	61,600	27 941	38,400*	17 417*	125,700*	57 016*	125,700*	57 016*	
	30	9.14	63.8	60' 6"	18.44	95,700*	43 408*	92,700	42 048	48,700	22 089	31,600*	14 333*	104,800*	47 536*	104,800*	47 536*	
	35	10.67	58.3	57' 9"	17.60	80,100*	36 332*	71,900	32 613	39,700	18 007	26,700*	12 110*	88,600*	40 188*	88,600*	40 188*	
	40	12.19	52.5	54' 3"	16.55	68,400*	31 025*	58,400	26 489	33,300	15 104	22,700*	10 296*	75,400*	34 200*	72,500	32 885	
	50	15.24	39.2	44' 7"	13.59	50,000	22 679	41,500	18 824	24,600	11 158	16,400	7 438	56,600*	25 673*	52,100	23 632	
	60	18.29	19.7	26' 10"	8.19	38,400	17 417	31,400	14 242	18,800	8 527	12,000	5 443	42,600*	19 323*	39,800	18 052	
70' ^④ (21.34 m)	15	4.57	80.5	75' 9"	23.08	181,300*	82 236*	181,300*	82 236*	81,200*	36 831*	62,000*	28 122*	181,300*	82 236*	181,300*	82 236*	
	20	6.10	76.4	74' 8"	22.77	145,900*	66 179*	145,900*	66 179*	70,200*	31 842*	47,900*	21 727*	155,900*	70 715*	155,900*	70 715*	
	25	7.62	72.1	73' 3"	22.34	117,400*	53 251*	117,400*	53 251*	61,800	28 032	38,300*	17 372*	125,500*	56 925*	125,500*	56 925*	
	30	9.14	67.8	71' 5"	21.78	95,800*	43 454*	93,100	42 229	43,800	19 867	31,500*	14 288*	103,400*	46 901*	103,400*	46 901*	
	35	10.67	63.3	69' 2"	21.09	80,100*	36 332*	72,300	32 794	39,900	18 098	26,700*	12 110*	86,100*	39 054*	86,100*	39 054*	
	40	12.19	58.6	66' 5"	20.24	68,400*	31 025*	58,700	26 625	33,400	15 149	22,800*	10 341*	72,400*	32 840*	72,400*	32 840*	
	50	15.24	48.4	59' 0"	17.98	50,300	22 815	41,800	18 960	24,700	11 203	16,600	7 529	54,900*	24 902*	52,400	23 768	
	60	18.29	36.2	48' 0"	14.63	38,700	17 554	31,700	14 378	19,000	8 618	12,200	5 533	42,400*	19 232*	40,200	18 234	
	70	21.34	18.2	28' 6"	8.69	31,000	14 061	25,100	11 385	15,000	6 803	9,100	4 127	33,000*	14 968*	32,000	14 514	
	80' ^④ (24.38 m)	20	6.10	78.1	84' 11"	25.89	145,600*	66 043*	145,600*	66 043*	69,900*	31 706*	47,700*	21 636*	150,300*	68 174*	150,300*	68 174*
25		7.62	74.4	83' 9"	25.52	117,200*	53 161*	117,200*	53 161*	61,800*	28 032*	38,100*	17 281*	124,900*	56 653*	124,900*	56 653*	
30		9.14	70.7	82' 2"	25.04	95,600*	43 363*	93,400	42 365	48,900	22 180	31,400*	14 242*	99,900*	45 313*	99,900*	45 313*	
35		10.67	66.8	80' 2"	24.45	80,100*	36 332*	72,500	32 885	39,900	18 098	26,600*	12 065*	83,300*	37 784*	83,300*	37 784*	
40		12.19	62.9	77' 10"	23.73	68,300*	30 980*	58,700	26 625	33,400	15 149	22,600*	10 251*	70,000*	31 751*	70,000*	31 751*	
50		15.24	54.5	71' 9"	21.87	50,400	22 861	41,900	19 005	24,800	11 249	16,600	7 529	53,400*	24 221*	52,500	23 813	
60		18.29	45.1	63' 4"	19.29	38,800	17 599	31,800	14 424	19,100	8 663	12,300	5 579	41,500*	18 824*	40,300	18 279	
70		21.34	33.8	51' 2"	15.59	31,100	14 106	25,300	11 475	15,100	6 849	9,300	4 218	33,100*	15 013*	32,200	14 605	
80		24.38	17.0	30' 1"	9.17	25,600	11 611	20,400	9 253	12,100	5 488	7,000	3 175	26,800*	12 156*	26,400	11 974	
90' ^④ (27.43 m)		20	6.10	79.4	95' 2"	29.00	144,500*	65 544*	144,500*	65 544*	70,500*	31 978*	48,600*	22 044*	144,500*	65 544*	144,500*	65 544*
	25	7.62	76.2	94' 1"	28.67	117,700*	53 387*	117,700*	53 387*	62,300*	28 258*	38,900*	17 644*	126,100*	57 198*	126,100*	57 198*	
	30	9.14	72.9	92' 8"	28.25	96,600*	43 817*	94,900	43 045	49,800	22 588	32,000*	14 514*	105,200*	47 717*	105,200*	47 717*	
	35	10.67	69.5	91' 0"	27.73	80,800*	36 650*	73,700	33 429	40,700	18 461	27,200*	12 337*	89,800*	40 732*	89,800*	40 732*	
	40	12.19	66.1	88' 11"	27.11	69,000*	31 297*	59,700	27 079	34,100	15 467	23,200*	10 523*	77,100*	34 971*	74,000	33 565	
	50	15.24	58.9	83' 9"	25.52	51,100	23 178	42,600	19 323	25,300	11 475	17,200*	7 801	59,100*	26 807*	53,300	24 176	
	60	18.29	51.1	76' 9"	23.38	39,400	17 871	32,400	14 696	19,500	8 845	12,800	5 805	47,300	21 454	40,900	18 551	

① ② ③ ④ — Refer to Page 242.00

(continued)

HC-238A open throat boom						"A" upper and "A" bumper ^① counterweights								"AB" upper and "A" bumper counterweights			
Length	Radius		Angle Degrees	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	
						Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms
90 (27.43 m)	70	21.34	42.4	67' 4"	20.52	31,500	14 288	25,800	11 702	15,400	6 985	9,600	4 354	38,200	17 327	32,600	14 787
	80	24.38	31.8	54' 1"	16.48	26,000	11 793	20,900	9 480	12,400	5 624	7,300	3 311	31,600	14 333	26,900	12 201
	90	27.43	16.0	31' 6"	9.61	21,700	9 842	17,200	7 801	10,000	4 535	5,500	2 494	26,700	12 110	22,400	10 160
100 (30.48 m)	20	6.10	80.5	105' 4"	32.09	131,800	59 783	131,800	59 783	70,100	31 796	48,300	21 908	131,800	59 783	131,800	59 783
	25	7.62	77.6	104' 4"	31.80	117,400	53 251	117,400	53 251	61,900	28 077	38,600	17 508	124,600	56 517	124,600	56 517
	30	9.14	74.6	103' 1"	31.42	96,300	43 680	95,000	43 091	49,800	22 588	31,700	14 378	104,900	47 581	104,900	47 581
	35	10.67	71.6	101' 7"	30.96	80,600	36 559	73,800	33 475	40,600	18 415	27,000	12 246	89,400	40 551	89,400	40 551
	40	12.19	68.6	99' 9"	30.41	68,800	31 207	59,700	27 079	34,000	15 422	23,000	10 432	76,900	34 881	74,000	33 565
	50	15.24	62.3	95' 2"	29.02	51,100	23 178	42,600	19 323	25,200	11 385	16,900	7 665	58,900	26 716	53,200	24 131
	60	18.29	55.6	89' 2"	27.18	39,300	17 826	32,400	14 696	19,400	8 799	12,700	5 760	47,300	21 454	40,800	18 506
	70	21.34	48.3	81' 4"	24.80	31,500	14 288	25,800	11 702	15,400	6 985	9,600	4 354	38,100	17 281	32,600	14 787
	80	24.38	40.1	71' 1"	21.66	26,000	11 793	20,900	9 480	12,400	5 624	7,300	3 311	31,600	14 333	26,900	12 201
	90	27.43	30.1	56' 10"	17.33	21,800	9 888	17,300	7 847	10,000	4 535	5,500	2 494	26,700	12 110	22,500	10 205
100	30.48	15.2	32' 11"	10.03	18,400	8 346	14,400	6 531	8,100	3 674	4,000	1 814	22,800	10 341	19,000	8 618	
110 (33.53 m)	25	7.62	78.7	114' 7"	34.91	112,200	50 893	112,200	50 893	61,400	27 850	38,300	17 372	112,200	50 893	112,200	50 893
	30	9.14	76.1	113' 5"	34.57	96,000	43 544	95,000	43 091	49,600	22 498	31,400	14 242	104,600	47 445	104,600	47 445
	35	10.67	73.4	112' 1"	34.16	80,400	36 468	73,800	33 475	40,500	18 370	26,700	12 110	89,100	40 415	89,100	40 415
	40	12.19	70.6	110' 5"	33.66	68,500	31 071	59,700	27 079	33,900	15 376	22,700	10 296	76,600	34 745	74,000	33 565
	50	15.24	65.0	106' 4"	32.42	51,200	23 133	42,600	19 323	25,100	11 385	16,900	7 665	58,700	26 625	53,200	24 131
	60	18.29	59.1	101' 1"	30.80	39,300	17 826	32,300	14 651	19,300	8 754	12,600	5 715	47,200	21 409	40,800	18 506
	70	21.34	52.8	94' 3"	28.74	31,400	14 242	25,700	11 657	15,300	6 939	9,500	4 309	38,000	17 236	32,500	14 741
	80	24.38	45.9	85' 9"	26.12	26,000	11 793	20,900	9 480	12,200	5 533	7,200	3 265	31,500	14 288	26,800	12 156
	90	27.43	38.2	74' 7"	22.74	21,700	9 842	17,200	7 801	9,900	4 490	5,400	2 449	26,700	12 110	22,500	10 205
	100	30.48	28.7	59' 6"	18.12	18,400	8 346	14,400	6 531	8,000	3 628	4,000	1 814	22,800	10 341	19,000	8 618
110	33.53	14.5	34' 2"	10.42	15,700	7 121	12,000	5 443	6,500	2 948	2,800	1 270	19,700	8 935	16,200	7 348	
120 (36.58 m)	25	7.62	79.7	124' 9"	38.02	102,600	46 538	102,600	46 538	61,000	27 669	38,000	17 372	102,600	46 538	102,600	46 538
	30	9.14	77.2	123' 8"	37.70	95,700	43 408	95,000	43 091	49,500	22 452	31,100	14 106	98,000	44 452	98,000	44 452
	35	10.67	74.8	122' 5"	37.33	80,100	36 332	73,700	33 429	40,300	18 279	26,400	11 974	88,700	40 233	88,700	40 233
	40	12.19	72.3	126' 0"	36.87	68,200	30 935	59,600	27 034	33,700	15 286	22,400	10 160	76,300	34 609	73,900	33 520
	50	15.24	67.2	117' 3"	35.75	50,900	23 087	42,500	19 277	25,000	11 339	16,600	7 529	58,400	26 489	53,100	24 085
	60	18.29	61.9	112' 6"	34.30	39,100	17 735	32,200	14 605	19,200	8 708	12,400	5 624	47,000	21 318	40,600	18 415
	70	21.34	56.3	106' 7"	32.48	31,300	14 197	25,600	11 611	15,100	6 849	9,300	4 218	37,900	17 191	32,400	14 696
	80	24.38	50.4	99' 1"	30.21	25,900	11 748	20,800	9 434	12,100	5 488	7,100	3 220	31,400	14 242	26,700	12 110
	90	27.43	43.9	89' 10"	27.38	21,600	9 797	17,100	7 756	9,800	4 445	5,300	2 404	26,600	12 065	22,400	10 160
	100	30.48	36.5	78' 0"	23.77	18,300	8 300	14,300	6 486	7,900	3 583	3,900	1 769	22,700	10 296	18,900	8 572
110	33.53	27.4	62' 0"	18.89	15,700	7 121	12,000	5 443	6,400	2 902	2,700	1 224	19,600	8 890	16,200	7 348	
120	36.58	13.9	35' 5"	10.80	13,500	6 123	10,100	4 581	5,100	2 313	—	—	17,100	7 756	13,900	6 304	
130 (39.62 m)	30	9.14	78.2	133' 11"	40.82	87,700	39 780	87,700	39 780	49,300	22 362	30,700	13 925	87,700	39 780	87,700	39 780
	35	10.67	76.0	132' 10"	40.47	79,800	36 196	73,600	33 384	40,200	18 234	26,100	11 838	84,100	38 147	84,100	38 147
	40	12.19	73.7	131' 5"	40.06	67,900	30 798	59,500	26 988	33,500	15 195	22,100	10 024	76,000	34 473	73,800	33 475
	50	15.24	69.0	128' 1"	39.03	50,800	23 042	42,400	19 232	24,800	11 249	16,300	7 393	58,500	26 535	53,000	24 040
	60	18.29	64.2	123' 9"	37.72	39,000	17 690	32,100	14 560	19,000	8 618	12,200	5 533	46,700	21 182	40,500	18 370
	70	21.34	59.2	118' 4"	36.08	31,100	14 106	25,500	11 566	14,900	6 758	9,200	4 173	37,700	17 100	32,300	14 651
	80	24.38	54.0	111' 9"	34.07	25,700	11 657	20,600	9 344	11,900	5 397	6,900	3 129	31,200	14 152	26,600	12 065
	90	27.43	48.3	103' 9"	31.61	21,500	9 752	17,000	7 711	9,600	4 354	5,100	2 313	26,500	12 020	22,200	10 069
	100	30.48	42.1	93' 9"	28.58	18,200	8 255	14,200	6 441	7,800	3 538	3,700	1 678	22,600	10 251	18,800	8 527
	110	33.53	35.0	81' 3"	24.75	15,600	7 076	11,900	5 397	6,300	2 857	2,600	1 179	19,500	8 845	16,100	7 302
	120	36.58	26.3	64' 4"	19.61	13,400	6 078	10,000	4 535	5,000	2 267	—	—	17,000	7 711	13,800	6 259
	130	39.62	13.3	36' 8"	11.16	11,500	5 216	8,400	3 810	3,900	1 769	—	—	14,800	6 713	11,900	5 397

①②③ — Refer to Page 242.00

(continued)



HC-238A open throat boom					"A" upper and "A" bumper counterweights								"AB" upper and "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
140' (42.67 m)	30	9.14	79.1	144' 2"	43.93	80,300*	36 423*	80,300*	36 423*	49,100	22 271	30,400*	13 789*	80,300*	36 423*	80,300*	36 423*
	35	10.67	77.0	143' 1"	43.61	77,200*	35 017*	73,500	33 339	40,000	18 143	25,800*	11 702*	77,200*	35 017*	77,200*	35 017*
	40	12.19	74.9	141' 10"	43.23	67,600*	30 662*	59,400	26 943	33,300	15 104	21,800*	9 888*	72,300*	32 794*	72,300*	32 794*
	50	15.24	70.6	138' 9"	42.28	50,600	22 951	42,200	19 141	24,600	11 158	16,000*	7 257*	58,200*	26 399*	52,800	23 949
	60	18.29	66.2	134' 89"	41.07	38,800	17 599	31,900	14 469	18,800	8 527	12,000*	5 443*	46,400*	21 046*	40,400	18 325
	70	21.34	61.6	129' 10"	39.58	31,000	14 061	25,300	11 475	14,700	6 667	9,000	4 082	37,600	17 055	32,100	14 560
	80	24.38	56.9	123' 11"	37.77	25,600	11 611	20,500	9 298	11,700	5 307	6,700	3 039	31,000	14 061	26,500	12 020
	90	27.43	51.8	116' 9"	35.58	21,300	9 661	16,800	7 620	9,400	4 263	4,900	2 222	26,300	11 929	22,100	10 024
	100	30.48	46.4	108' 1"	32.95	18,100	8 210	14,000	6 350	7,600	3 447	3,600	1 632	22,500	10 205	18,700	8 482
	110	33.53	40.5	97' 6"	29.73	15,400	6 985	11,700	5 307	6,100	2 766	2,400	1 088	19,400	8 799	15,900	7 212
	120	36.58	33.7	84' 4"	25.70	13,200	5 987	9,900	4 490	4,800	2 177	—	—	16,800	7 620	13,700	6 214
	130	39.62	25.4	66' 8"	20.31	11,400	5 170	8,300	3 764	3,800	1 723	—	—	14,700	6 667	11,800	5 352
	140	42.67	12.8	37' 9"	11.51	9,800	4 445	7,000	3 175	2,800	1 270	—	—	12,900	5 851	10,200	4 626
	150' (45.72 m)	30	9.14	79.8	154' 4"	47.03	71,900*	32 613*	71,900*	32 613*	48,900	22 180	30,000*	13 607*	71,900*	32 613*	71,900*
35		10.67	77.9	153' 4"	46.73	70,100*	31 796*	70,100*	31 796*	39,800	18 052	25,400*	11 521*	70,100*	31 796*	70,100*	31 796*
40		12.19	75.9	152' 2"	46.38	66,400*	30 118*	59,300	26 898	33,100	15 013	21,500*	9 752*	66,400*	30 118*	66,400*	30 118*
50		15.24	71.9	149' 3"	45.50	50,400	22 861	42,100	19 096	24,400	11 067	15,700*	7 121*	55,000*	24 947*	52,700	23 904
60		18.29	67.9	145' 7"	44.38	38,600	17 508	31,700	14 378	18,600	8 436	11,700*	5 307*	46,100*	20 910*	40,200	18 234
70		21.34	63.7	141' 1"	43.01	30,800	13 970	25,200	11 430	14,500	6 577	8,800	3 991	37,400	16 964	31,900	14 469
80		24.38	59.3	135' 8"	41.36	25,400	11 521	20,300	9 207	11,500	5 216	6,500	2 948	30,800	13 970	26,300	11 929
90		27.43	54.8	129' 3"	39.38	21,200	9 616	16,700	7 574	9,200	4 173	4,700	2 131	26,100	11 838	21,900	9 933
100		30.48	50.0	121' 6"	37.03	17,900	8 119	13,800	6 259	7,400	3 356	3,400	1 542	22,300	10 115	18,500	8 391
110		33.53	44.8	112' 4"	34.23	15,200	6 894	11,600	5 261	5,900	2 676	2,200	997	19,200	8 708	15,800	7 166
120		36.58	39.0	101' 2"	30.83	13,100	5 942	9,700	4 399	4,600	2 086	—	—	16,700	7 574	13,500	6 123
130		39.62	32.5	87' 3"	26.60	11,300	5 125	8,200	3 719	3,600	1 632	—	—	14,600	6 622	11,700	5 307
140		42.67	24.5	68' 10"	20.99	9,700	4 399	6,900	3 129	2,700	1 224	—	—	12,800	5 805	10,100	4 581
150		45.72	12.4	38' 11"	11.85	8,400	3 810	5,700	2 585	—	—	—	—	11,200	5 080	8,700	3 946
160' (48.77 m)	35	10.67	78.6	163' 6"	49.85	62,600*	28 394*	62,600*	28 394*	Not applicable				62,600*	28 394*	62,600*	28 394*
	40	12.19	76.8	162' 5"	49.51	60,000*	27 215*	59,100	26 807					60,000*	27 215*	60,000*	27 215*
	50	15.24	73.1	159' 9"	48.69	50,300	22 815	41,900	19 005					50,600*	22 951*	50,600*	22 951*
	60	18.29	69.3	156' 4"	47.66	38,400	17 417	31,600	14 333					43,900*	19 912*	40,000	18 143
	70	21.34	65.4	152' 2"	46.39	30,600	13 879	25,000	11 339					37,200	16 873	31,700	14 378
	80	24.38	61.4	147' 2"	44.86	25,200	11 430	20,100	9 117					30,600	13 879	26,100	11 838
	90	27.43	57.3	141' 3"	43.06	21,000	9 525	16,500	7 484					25,900	11 748	21,700	9 842
	100	30.48	52.9	134' 3"	40.93	17,700	8 028	13,600	6 168					22,100	10 024	18,300	8 300
	110	33.53	48.3	126' 1"	38.43	15,000	6 803	11,400	5 170					19,000	8 618	15,600	7 076
	120	36.58	43.3	116' 4"	35.46	12,900	5 851	9,500	4 309					16,500	7 484	13,300	6 032
	130	39.62	37.8	104' 8"	31.89	11,100	5 034	8,000	3 628					14,400	6 531	11,500	5 216
	140	42.67	31.4	90' 2"	27.47	9,500	4 309	6,700	3 039					12,600	5 715	9,900	4 490
	150	45.72	23.7	71' 0"	21.64	8,200	3 719	5,600	2 540					11,000	4 989	8,500	3 855
	160	48.77	12.0	39' 11"	12.18	7,000	3 175	4,600	2 086					9,700	4 399	7,300	3 311
170' (51.82 m)	35	10.67	79.3	173' 9"	52.95	53,200*	24 131*	53,200*	24 131*	Not applicable				53,200*	24 131*	53,200*	24 131*
	40	12.19	77.6	172' 8"	52.64	50,700*	22 997*	50,700*	22 997*					50,700*	22 997*	50,700*	22 997*
	50	15.24	74.1	170' 2"	51.87	44,400*	20 139*	41,800	18 960					44,400*	20 139*	44,400*	20 139*
	60	18.29	70.6	167' 0"	50.90	38,200	17 327	31,400	14 242					38,800*	17 599*	38,800*	17 599*
	70	21.34	67.0	163' 1"	49.72	30,300	13 743	24,800	11 249					33,700*	15 286*	31,500	14 288
	80	24.38	63.3	158' 6"	48.30	25,000	11 339	19,900	9 026					27,300*	12 383*	25,900	11 748
	90	27.43	59.4	153' 0"	46.64	20,700	9 389	16,300	7 393					24,300*	11 022*	21,500	9 752
	100	30.48	55.4	146' 7"	44.69	17,400	7 892	13,400	6 078					21,300*	9 661*	18,100	8 210
	110	33.53	51.2	139' 2"	42.42	14,800	6 713	11,200	5 080					18,800	8 527	15,300	6 939
	120	36.58	46.7	130' 6"	39.77	12,600	5 715	9,300	4 218					16,200	7 348	13,100	5 942
	130	39.62	41.9	120' 3"	36.65	10,800	4 898	7,800	3 538					14,100	6 395	11,200	5 080
	140	42.67	36.6	108' 0"	32.92	9,300	4 218	6,500	2 948					12,400	5 624	9,700	4 399
	150	45.72	30.5	92' 11"	28.32	8,000	3 628	5,300	2 404					10,800	4 898	8,300	3 764
	160	48.77	23.0	73' 1"	22.27	6,800	3 084	4,400	1 995					9,500	4 309	7,100	3 220
170	51.82	11.6	41' 0"	12.49	5,800	2 630	3,500	1 587	8,300	3 764	6,100	2 766					

①②③ — Refer to Page 242.00

(continued)

HC-238A open throat boom						"A" upper and "A" bumper ^① ctwts.								"AB" upper and "A" bumper counterweights			
Length	Radius		Angle Degrees	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	
					Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds
180' (54.86 m)	35	10.67	79.9	183' 11"	56.05	47,300*	21 454*	47,300*	21 454*					47,300*	21 454*	47,300*	21 454*
	40	12.19	78.3	182' 11"	55.76	45,100*	20 457*	45,100*	20 457*					45,100*	20 457*	45,100*	20 457*
	50	15.24	75.0	180' 7"	55.03	39,500*	17 916*	39,500*	17 916*					39,500*	17 916*	39,500*	17 916*
	60	18.29	71.7	177' 7"	54.12	34,200*	15 512*	31,200*	14 152					34,200*	15 512*	34,200*	15 512*
	70	21.34	68.3	173' 11"	53.01	29,900*	13 562*	24,600*	11 158					29,900*	13 562*	29,900*	13 562*
	80	24.38	64.8	169' 7"	51.69	24,300*	11 022*	19,700*	8 935					24,300*	11 022*	24,300*	11 022*
	90	27.43	61.3	164' 6"	50.15	20,500	9 298	16,100	7 302					21,300*	9 661*	21,300*	9 661*
	100	30.48	57.6	158' 7"	48.35	17,200	7 801	13,200	5 987					18,900*	8 572*	17,900	8 119
	110	33.53	53.7	151' 9"	46.26	14,600	6 622	10,900	4 944					16,600*	7 529*	15,100	6 849
	120	36.58	49.7	143' 11"	43.85	12,400	5 624	9,100	4 127					14,800*	6 713*	12,900	5 851
	130	39.62	45.3	134' 9"	41.06	10,600	4 808	7,600	3 447					13,400*	6 078*	11,000	4 989
	140	42.67	40.7	124' 0"	37.80	9,100	4 127	6,200	2 812					11,900*	5 397*	9,500	4 309
	150	45.72	35.5	111' 3"	33.91	7,800	3 538	5,100	2 313					10,600	4 808	8,100	3 674
	160	48.77	29.6	95' 7"	29.14	6,600	2 993	4,200	1 905					9,300	4 218	6,900	3 129
170	51.82	22.3	75' 1"	22.88	5,600	2 540	3,300	1 496					8,100	3 674	5,900	2 676	
180	54.86	11.3	42' 0"	12.80	4,700	2 131	2,500	1 133					7,100	3 220	5,000	2 267	
190' (57.91 m)	40	12.19	78.9	193' 2"	58.87									40,100*	18 189*	40,100*	18 189*
	50	15.24	75.8	190' 11"	58.18									35,100*	15 921*	35,100*	15 921*
	60	18.29	72.7	188' 1"	57.32									28,000*	12 700*	28,000*	12 700*
	70	21.34	69.5	184' 8"	56.28									24,500*	11 113*	24,500*	11 113*
	80	24.38	66.3	180' 7"	55.04									21,400*	9 706*	21,400*	9 706*
	90	27.43	62.9	175' 10"	53.59									18,900*	8 572*	18,900*	8 572*
	100	30.48	59.5	170' 4"	51.92									16,500*	7 484*	16,500*	7 484*
	110	33.53	55.9	164' 0"	49.99									14,700*	6 667*	14,700*	6 667*
	120	36.58	52.2	156' 9"	47.78									13,100*	5 942*	12,700	5 760
	130	39.62	48.3	148' 5"	45.24									11,700*	5 307*	10,800	4 898
	140	42.67	44.1	138' 10"	42.32									10,600*	4 808*	9,200	4 173
	150	45.72	39.6	127' 8"	38.91									9,400*	4 263*	7,900	3 583
	160	48.77	34.5	114' 5"	34.87									8,500*	3 855*	6,700	3 039
	170	51.82	28.8	98' 2"	29.93									7,700*	3 492*	5,700	2 585
180	54.86	21.7	77' 0"	23.47									6,900	3 129	4,800	2 177	
190	57.91	11.0	43' 0"	13.10									5,900	2 676	4,000	1 814	
200' (60.96 m)	40	12.19	79.5	203' 4"	61.97									36,300*	16 465*	36,300*	16 465*
	50	15.24	76.6	201' 2"	61.32									28,600*	12 972*	28,600*	12 972*
	60	18.29	73.6	198' 6"	60.51									25,000*	11 339*	25,000*	11 339*
	70	21.34	70.6	195' 3"	59.52									21,900*	9 933*	21,900*	9 933*
	80	24.38	67.5	191' 5"	58.36									19,100*	8 663*	19,100*	8 663*
	90	27.43	64.4	187' 0"	57.00									16,700*	7 574*	16,700*	7 574*
	100	30.48	61.2	181' 10"	55.43									14,900*	6 758*	14,900*	6 758*
	110	33.53	57.8	175' 11"	53.63									13,000*	5 896*	13,000*	5 896*
	120	36.58	54.4	169' 3"	51.58									11,600*	5 261*	11,600*	5 261*
	130	39.62	50.8	161' 7"	49.25									10,300*	4 672*	10,300*	4 672*
	140	42.67	47.0	152' 10"	46.59									9,200*	4 173*	9,000	4 082
	150	45.72	42.9	142' 10"	43.53									8,300*	3 764*	7,700	3 492
	160	48.77	38.5	131' 2"	39.99									7,500*	3 401*	6,500	2 948
	170	51.82	33.6	117' 6"	35.81									6,800*	3 084*	5,500	2 494
180	54.86	28.1	100' 9"	30.70									6,200*	2 812*	4,600	2 086	
190	57.91	21.2	78' 11"	24.05									5,600*	2 540*	3,800	1 723	
200	60.96	10.7	43' 11"	13.39									4,900	2 222	3,000	1 360	

Not applicable

Not applicable

① ② ③ — Refer to Page 242.00

(continued)



HC-238A open throat boom						"A" upper and "A" bumper ^① ctwts.								"AB" upper and "A" bumper counterweights			
Length	Radius		Angle	Boom point height ^②		On outriggers				On tires (static)				On outriggers only			
	Feet	meters	Degrees	Feet	meters	Over rear		Over side and 360° swing ^③		Over rear		Over side		Over rear		Over side and 360° swing ^③	
						Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms
210' (64.01 m)	50	15.24	77.2	211' 5"	64.45									25,700*	11 657*	25,700*	11 657*
	60	18.29	74.4	208' 11"	63.68									22,500*	10 205*	22,500*	10 205*
	70	21.34	71.5	205' 10"	62.75									19,700*	8 935*	19,700*	8 935*
	80	24.38	68.6	202' 3"	61.64									17,200*	7 801*	17,200*	7 801*
	90	27.43	65.7	198' 0"	60.36									15,100*	6 849*	15,100*	6 849*
	100	30.48	62.6	193' 2"	58.88									13,200*	5 987*	13,200*	5 987*
	110	33.53	59.5	187' 8"	57.20									11,700*	5 307*	11,700*	5 307*
	120	36.58	56.3	181' 5"	55.29									10,300*	4 672*	10,300*	4 672*
	130	39.62	53.0	174' 3"	53.12									9,100*	4 127*	9,100*	4 127*
	140	42.67	49.5	166' 3"	50.67									8,300*	3 764*	8,300*	3 764*
	150	45.72	45.8	157' 1"	47.89									7,400*	3 356*	7,400*	3 356*
	160	48.77	41.8	146' 8"	44.71									6,700*	3 039*	6,300*	2 857*
	170	51.82	37.5	134' 8"	41.04									6,000*	2 721*	5,200*	2 358*
	180	54.86	32.8	120' 5"	36.71									5,500*	2 494*	4,300*	1 950*
190	57.91	27.4	103' 2"	31.45									4,900*	2 222*	3,500*	1 587*	
200	60.96	20.7	80' 9"	24.61									4,600*	2 086*	2,800*	1 270*	
210	64.01	10.5	44' 10"	13.67									3,900*	1 769*	2,200*	997*	
220' (67.06 m)	50	15.24	77.8	221' 8"	67.57									23,200*	10 523*	23,200*	10 523*
	60	18.29	75.1	219' 3"	66.84									20,300*	9 207*	20,300*	9 207*
	70	21.34	72.4	216' 4"	65.95									17,800*	8 073*	17,800*	8 073*
	80	24.38	69.7	212' 11"	64.90									15,500*	7 030*	15,500*	7 030*
	90	27.43	66.8	208' 11"	63.39									13,600*	6 168*	13,600*	6 168*
	100	30.48	64.0	204' 4"	62.29									11,900*	5 397*	11,900*	5 397*
	110	33.53	61.0	199' 2"	60.71									10,400*	4 717*	10,400*	4 717*
	120	36.58	58.0	193' 3"	58.91									9,200*	4 173*	9,200*	4 173*
	130	39.62	54.9	186' 8"	56.89									8,100*	3 674*	8,100*	3 674*
	140	42.67	51.7	179' 2"	54.62									7,300*	3 311*	7,300*	3 311*
	150	45.72	48.2	170' 10"	52.06									6,500*	2 948*	6,500*	2 948*
	160	48.77	44.7	161' 3"	49.16									5,900*	2 676*	5,900*	2 676*
	170	51.82	40.8	150' 6"	45.86									5,300*	2 404*	5,000*	2 267*
	180	54.86	36.7	138' 0"	42.06									4,800*	2 177*	4,100*	1 859*
190	57.91	32.0	123' 4"	37.60									4,400*	1 995*	3,300*	1 496*	
200	60.96	26.7	105' 7"	32.19									4,000*	1 814*	2,600*	1 179*	
210	64.01	20.2	82' 7"	25.16									3,600*	1 632*	—	—	
220	67.06	10.2	45' 9"	13.95									3,400*	1 542*	—	—	
230' (70.10 m)	50	15.24	78.3	231' 11"	70.69									21,000*	9 525*	21,000*	9 525*
	60	18.29	75.8	229' 7"	69.99									18,400*	8 346*	18,400*	8 346*
	70	21.34	73.2	226' 10"	69.14									16,100*	7 302*	16,100*	7 302*
	80	24.38	70.6	223' 7"	68.14									13,800*	6 259*	13,800*	6 259*
	90	27.43	67.9	219' 9"	66.99									12,100*	5 488*	12,100*	5 488*
	100	30.48	65.2	215' 5"	65.67									10,600*	4 808*	10,600*	4 808*
	110	33.53	62.4	210' 6"	64.17									9,400*	4 263*	9,400*	4 263*
	120	36.58	59.6	205' 0"	62.48									8,200*	3 719*	8,200*	3 719*
	130	39.62	56.6	198' 9"	60.58									7,300*	3 311*	7,300*	3 311*
	140	42.67	53.6	191' 9"	58.45									6,500*	2 948*	6,500*	2 948*
	150	45.72	50.4	184' 0"	56.07									5,900*	2 676*	5,900*	2 676*
	160	48.77	47.1	175' 3"	53.40									5,200*	2 358*	5,200*	2 358*
	170	51.82	43.6	165' 4"	50.40									4,700*	2 131*	4,700*	2 131*
	180	54.86	39.9	154' 2"	46.98									4,300*	1 950*	3,800*	1 723*
190	57.91	35.8	141' 3"	43.06									3,900*	1 769*	3,100*	1 406*	
200	60.96	31.3	126' 2"	38.46									3,500*	1 587*	2,300*	1 043*	
210	64.01	26.1	107' 11"	32.90									3,200*	1 451*	—	—	
220	67.06	19.7	84' 4"	25.70									2,800*	1 270*	—	—	
230	70.10	10.0	46' 8"	14.22									2,200*	997*	—	—	

①Applicable only to machines with booms 50' (15.24 m) through 180' (54.86 m) long — without jib.

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

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

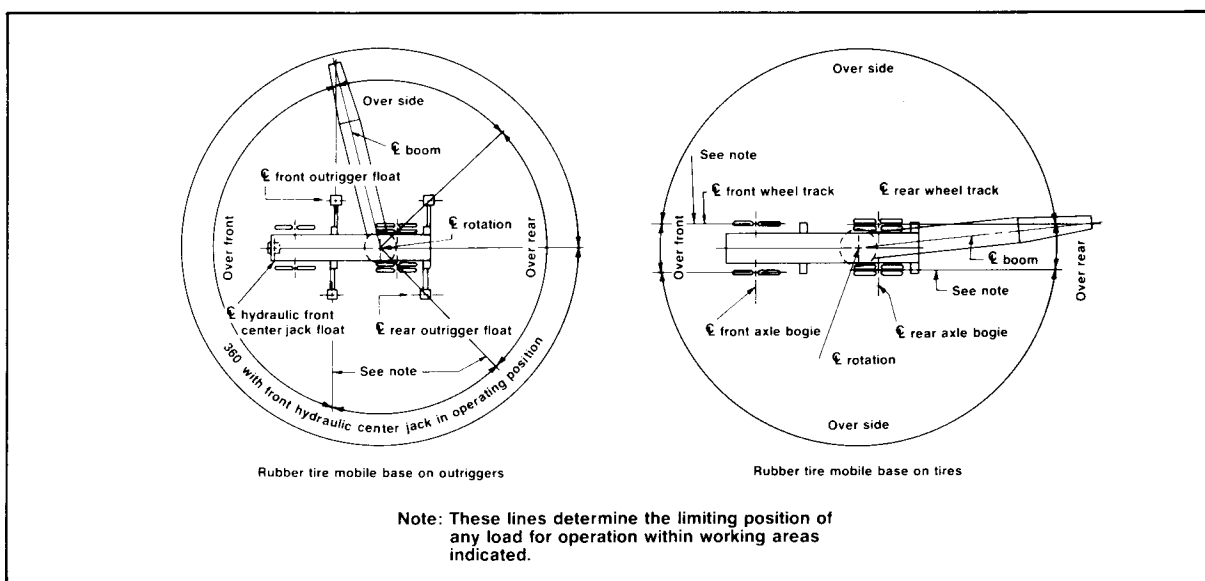
④Capacities on outriggers, **over side**, with 50' (15.24 m) long boom only — applicable **only** when front center jack is set in proper working position.

HC-238A lifting crane capacities

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

1. The capacities included in this chart are the maximum allowable, and are based on machine standing level on firm supporting surface under ideal job conditions. Capacities are based on 85% of minimum tipping loads unless marked with an asterisk (*).
 - 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, 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.
3. Boom lengths exceeding 160' (48.77 m) — boom midpoint suspension pendants required.
4. Main boom lengths must not exceed 230' (70.10 m).
5. For lifting 280,000 lbs. (127 008 kg), 10-part load hoist line (1" diameter — 26 mm, Type "N" wire rope) is required. Check parts of line required for all capacities.
6. Jib cannot be used on boom lengths exceeding 200' (60.96 m).
7. Machine equipped with "AB" upper counterweight — do not swing over side until outriggers have been set.
8. Telescopic boom live mast, pinned in the extended (30' — 9.14 m) position, required for all open throat boom capacities.
9. Capacities apply only to the machine as originally manufactured and normally equipped by FMC Corporation, Cable Crane and Excavator Division.

HC-238A working areas



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





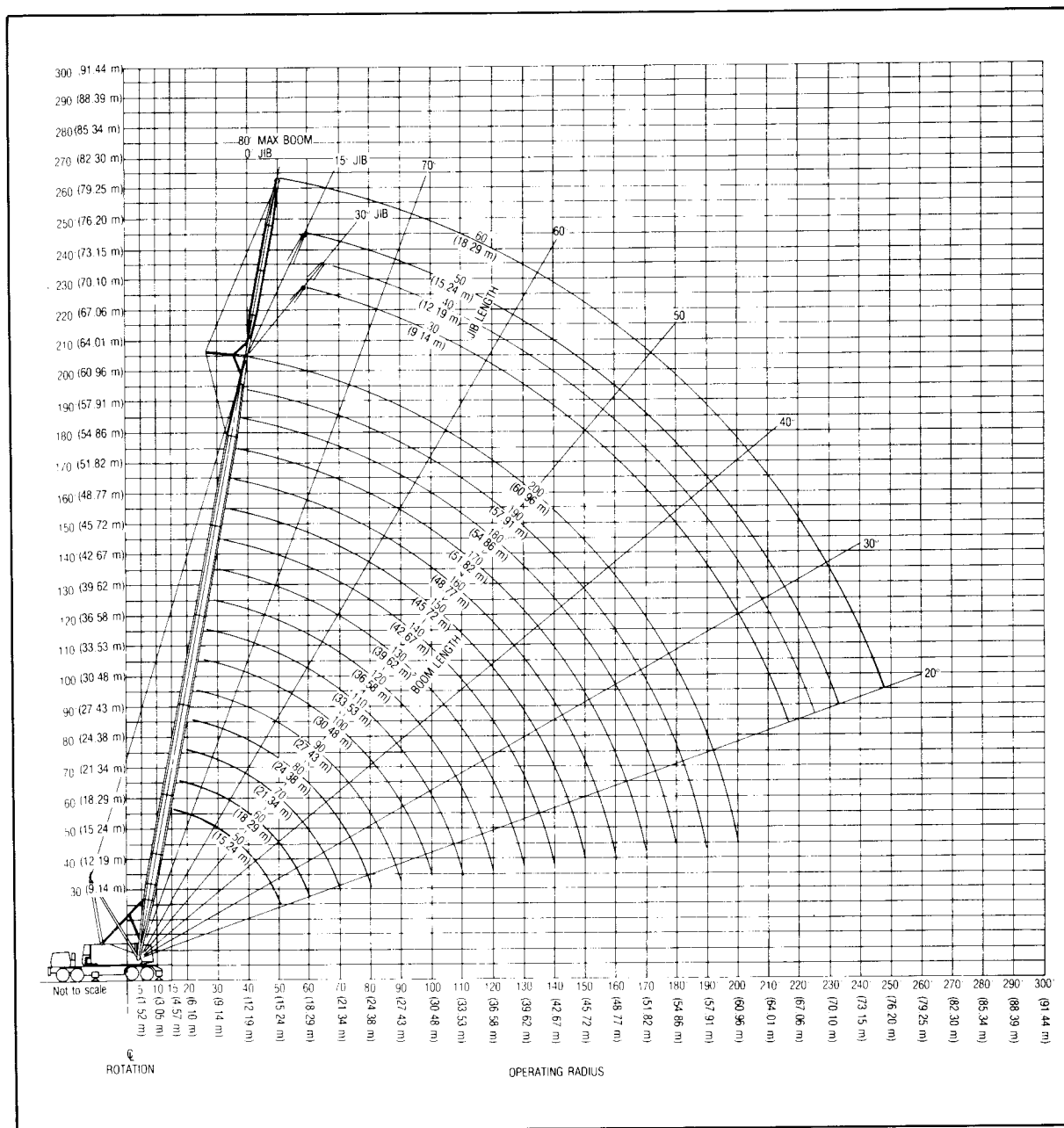
HC-238A boom/jib working ranges — open throat boom

Boom — tubular: 60" (1.52 m) wide, 54" (1.37 m) deep with open throat top section, 13/16" (35 mm) boom pendants, boom live mast, and boom midpoint suspension pendants as required.

Jib — tubular: 36" (0.91 m) deep, 30" (0.76 m) wide.

Counterweight — refer to charts Page 237.00

Mounting — rubber tire mobile base:
FMC, 8 x 4 drive, 270" (6.86 m) wheelbase,
11' 10" (3.61 m) wide.



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-238A jib capacities — open throat boom (U.S. units) Refer to Notes page 251.31

Counterweights — Upper counterweight "AB" — 47,000 lbs. plus bumper counterweight "A" — 11,400 lbs.

Jib — tubular: 30" wide, 36" deep.

Mounting — rubber tire mobile base: FMC, 8 x 4 drive, 270" wheelbase, 11' 10" wide.

Boom — tubular: 60" wide, 54" deep with open throat top section, 1 3/8" diameter boom pendants, boom live mast, and boom midpoint suspension pendants as required.

Boom length	Load radius	Capacities on outriggers — over side and 360° swing											
		30° jib			40° jib			50° jib			60° 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		
50	18	29,600*											
	19	29,400*											
	20	29,200*			25,200*								
	25	28,200*	26,200*		24,400*			21,300*			19,300*		
	30	27,200*	25,200*		23,500*	21,700*		20,500*			18,600*		
	35	26,200*	24,200*	17,900*	22,600*	20,500*		19,800*	18,100*		17,900*		
	40	25,200*	23,100*	16,600*	21,600*	19,300*	14,300*	19,000*	16,900*		17,100*	15,700*	
	50	22,900*	20,300*	14,700*	19,100*	16,700*	12,500*	16,600*	14,200*	11,200*	15,400*	13,000*	9,700*
	60	19,600*	16,500*	13,200*	16,400*	14,200*	11,200*	13,900*	11,800*	9,700*	12,600*	10,200*	8,000*
	70	15,800*	15,300*		13,600*	11,800*	10,300*	11,400*	9,900*	8,200*	9,700*	8,200*	6,700*
	80				11,400*	10,500*		9,300*	8,200*	7,300*	7,900*	6,800*	5,700*
90							7,800*	7,100*		6,300*	5,700*	5,200*	
100										5,400*	5,100*		
60	20	29,600*											
	25	28,700*			24,800*			21,600*			19,500*		
	30	27,800*	25,600*		24,000*			20,900*			18,900*		
	35	26,900*	24,700*	18,900*	23,200*	21,000*		20,200*	18,600*		18,200*		
	40	26,000*	23,800*	17,200*	22,400*	19,900*	14,600*	19,500*	17,400*		17,600*	16,100*	
	50	24,100*	21,800*	15,300*	20,300*	17,700*	13,000*	17,700*	15,100*	11,500*	16,200*	13,800*	
	60	22,000*	18,700*	13,900*	17,900*	15,400*	11,700*	15,300*	12,600*	10,300*	14,000*	11,300*	8,400*
	70	18,600*	15,800*	12,800*	15,500*	13,100*	10,700*	12,700*	10,900*	8,600*	11,400*	8,800*	7,200*
	80	15,700*	15,100*		12,900*	11,400*		10,800*	9,100*	7,800*	8,800*	7,600*	5,900*
	90				11,200*	10,300*		8,900*	7,900*		7,500*	6,300*	5,500*
	100							7,700*			6,000*	5,600*	
110										5,400*			
70	25	29,100*			25,100*			21,900*			19,200*		
	30	28,300*			24,300*			21,200*			18,600*		
	35	27,500*	25,200*		23,600*	21,400*		20,600*			18,000*		
	40	26,700*	24,400*	19,300*	22,900*	20,500*		19,900*	17,900*		18,000*		
	50	25,000*	22,700*	17,800*	21,200*	18,500*		18,600*	15,800*	11,800*	16,700*	14,400*	
	60	23,200*	20,300*	14,500*	19,100*	16,400*	13,300*	18,500*	13,600*	10,700*	15,000*	12,100*	8,600*
	70	20,900*	17,400*	13,400*	16,900*	14,400*	12,100*	16,500*	13,600*	10,700*	15,000*	12,100*	8,600*
	80	17,700*	15,600*		14,700*	12,200*	10,400*	14,200*	11,700*	9,300*	12,700*	9,700*	7,600*
	90	15,600*	15,000*		12,300*	11,100*		12,000*	10,100*	8,200*	10,200*	8,200*	6,500*
	100				11,000*			10,300*	8,500*	7,500*	8,400*	7,100*	5,700*
	110							8,500*	7,700*		7,100*	5,900*	5,300*
120							7,500*			5,900*	5,400*		
80	25	29,400*			25,300*			21,500*			19,400*		
	30	28,700*			24,700*			20,900*			18,800*		
	35	28,000*	25,500*		24,000*	21,800*		20,300*			18,300*		
	40	27,200*	24,800*	18,200*	23,300*	20,900*		20,300*	18,300*		18,300*		
	50	25,700*	23,300*	16,400*	22,000*	19,100*	13,700*	19,100*	16,400*	12,000*	17,100*	14,900*	
	60	24,200*	21,600*	15,000*	20,100*	17,200*	12,500*	17,400*	14,300*	10,900*	16,000*	12,800*	8,800*
	70	22,500*	19,000*	13,900*	18,200*	15,400*	11,500*	15,400*	12,300*	9,800*	13,800*	10,600*	7,900*
	80	20,000*	16,300*	13,000*	16,100*	13,500*	10,800*	13,200*	10,900*	8,500*	11,600*	8,700*	6,900*
	90	16,900*	15,500*		14,100*	11,800*	10,200*	11,400*	9,500*	7,900*	9,300*	7,700*	5,900*
	100				11,900*	10,900*		9,800*	8,300*	7,100*	8,000*	6,600*	5,500*
	110				10,900*			8,300*	7,500*		6,800*	5,800*	5,100*
120							7,400*			5,800*	5,300*		
130										5,200*			

(continued)

Boom length	Load radius	Capacities on outriggers — over side and 360° swing												
		30 jib			40 jib			50 jib			60 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	29,600*			24,900*			21,700*			19,600*			
	30	29,000*			24,300*			21,200*			19,100*			
	35	28,300*	25,800*		24,300*			20,600*			18,500*			
	40	27,700*	25,200*	19,000*	23,700*	21,300*		20,600*	18,600*		18,500*			
	50	26,300*	23,800*	16,900*	22,500*	19,600*	14,000*	19,500*	16,800*		17,500*	15,300*		
	60	24,900*	22,400*	15,500*	21,000*	17,900*	12,800*	18,200*	15,000*		16,400*	13,400*	9,100*	
	70	23,400*	20,400*	14,400*	19,200*	16,200*	11,900*	16,400*	13,100*	11,200*	10,300*	14,800*	11,400*	8,100*
	80	21,800*	18,000*	13,500*	17,300*	14,500*	11,100*	14,400*	11,600*	9,000*	12,800*	9,400*	7,200*	
	90	19,200*	15,800*	12,800*	15,500*	12,700*	10,500*	12,300*	10,300*	8,200*	10,600*	8,200*	6,300*	
	100	16,200*	15,300*		13,500*	11,500*		11,000*	8,900*	7,600*	8,700*	7,200*	5,700*	
	110	15,400*			11,700*	10,700*		9,400*	8,100*		7,700*	6,200*	5,400*	
	120				10,700*			8,200*	7,300*		6,500*	5,600*		
	130							7,300*			5,700*	5,200*		
	140										5,200*			
100	30	29,300*			25,200*			21,900*			19,300*			
	35	28,700*	26,100*		24,600*			21,400*			18,800*			
	40	28,000*	25,500*	19,300*	24,000*	21,600*		20,900*			17,800*			
	50	26,800*	24,200*	17,200*	22,900*	20,100*	14,200*	19,800*	17,300*		15,700*			
	60	25,500*	22,900*	15,900*	21,600*	18,500*	13,100*	18,800*	15,600*	11,400*	16,800*	13,900*	9,500*	
	70	24,200*	21,400*	14,800*	20,000*	16,900*	12,200*	17,200*	13,800*	10,500*	15,600*	12,100*	8,400*	
	80	22,800*	19,300*	13,900*	18,400*	15,400*	11,400*	15,400*	12,100*	9,500*	13,700*	10,200*	7,500*	
	90	20,900*	17,000*	13,100*	16,600*	13,800*	10,800*	13,500*	11,000*	8,400*	11,800*	8,600*	6,700*	
	100	18,400*	15,700*		14,900*	12,000*	10,200*	11,800*	9,700*	7,900*	9,800*	7,800*	5,900*	
	110	15,900*	15,200*		13,000*	11,300*		10,500*	8,500*	7,300*	8,400*	6,800*	5,600*	
	120	14,700*			11,600*	10,500*		9,100*	7,900*		7,400*	5,900*	5,200*	
	130				10,600*			8,100*	7,200*		6,300*	5,500*		
	140							7,200*			5,600*	5,100*		
	150										5,100*			
110	30	29,500*			25,400*			21,600*			19,500*			
	35	28,900*	26,300*		24,800*			21,100*			19,000*			
	40	28,400*	25,700*		24,300*	21,900*		20,200*			18,100*			
	50	27,200*	24,600*	17,600*	23,300*	20,500*	14,400*	19,200*	16,000*		17,100*	16,000*		
	60	26,100*	23,400*	16,300*	22,200*	19,000*	13,300*	18,200*	16,000*	11,600*	17,100*	14,400*		
	70	24,800*	22,200*	15,200*	20,800*	17,500*	12,400*	17,900*	14,400*	10,700*	16,200*	12,700*	8,600*	
	80	23,600*	20,400*	14,300*	19,200*	16,000*	11,700*	16,300*	12,800*	9,900*	14,600*	10,900*	7,800*	
	90	22,200*	18,300*	13,500*	17,600*	14,600*	11,000*	14,600*	11,500*	8,800*	12,800*	9,100*	7,000*	
	100	19,400*	16,200*	12,900*	16,000*	13,100*	10,500*	12,700*	10,400*	8,200*	10,900*	8,200*	6,100*	
	110	16,800*	15,600*		14,400*	11,800*	10,100*	11,400*	9,200*	7,600*	9,000*	7,400*	5,700*	
	120	14,500*	14,700*		12,600*	11,100*		10,200*	8,300*	7,100*	8,100*	6,400*	5,400*	
	130	12,600*			11,400*	10,300*		8,800*	7,700*		7,100*	5,800*	5,100*	
	140				10,500*			8,000*	7,000*		6,000*	5,400*		
	150							7,100*			5,600*	5,000*		
160										5,100*				
120	30	29,700*			25,000*			21,800*			19,600*			
	35	29,200*	26,000*		24,600*			21,300*			19,200*			
	40	28,600*	24,900*		23,600*	20,800*		20,400*			18,300*			
	50	27,600*	24,900*	17,900*	23,600*	20,800*	14,600*	20,400*	17,900*		16,200*			
	60	26,500*	23,800*	16,600*	22,600*	19,400*	13,600*	19,500*	16,500*	11,700*	17,400*	14,700*		
	70	25,400*	22,700*	15,500*	21,400*	18,100*	12,700*	18,600*	15,000*	10,900*	17,400*	14,700*		
	80	24,200*	21,300*	14,600*	20,000*	16,600*	11,900*	17,000*	13,400*	10,200*	16,500*	13,200*	8,700*	
	90	22,600*	19,500*	13,900*	18,500*	15,300*	11,300*	15,400*	12,000*	9,200*	15,300*	11,500*	8,000*	
	100	19,200*	17,500*	13,200*	16,900*	13,900*	10,800*	13,800*	11,000*	8,400*	13,700*	9,800*	7,300*	
	110	16,600*	15,900*	12,700*	15,500*	12,500*	10,300*	12,200*	9,900*	7,900*	10,100*	7,800*	6,500*	
	120	14,300*	14,600*		13,900*	11,600*		11,000*	8,800*	7,400*	8,600*	7,000*	5,900*	
	130	12,400*	12,600*		12,200*	10,900*		9,800*	8,100*		7,800*	6,100*	5,300*	
	140	10,800*			11,100*			8,500*	7,500*		6,800*	5,700*		
	150				9,700*			7,900*			5,900*	5,300*		
160							7,100*			5,500*				
170										5,000*				

(continued)



HC-238A jib capacities — open throat boom (U.S. units)

Refer to Notes page 251.31

Boom length	Load radius	Capacities on outriggers — over side and 360° swing											
		30° jib			40° jib			50° jib			60° 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	29,400*			25,200*			21,900*			19,300*		
	40	28,900*			24,800*			21,500*			18,500*		
	50	27,900*			23,800*	21,100*		20,700*	18,200*		18,500*		
	60	26,900*	24,100*		22,900*	19,800*	13,800*	19,800*	16,800*	11,900*	17,700*	15,100*	
	70	25,800*	23,100*		22,900*	18,500*	12,900*	18,900*	15,400*	11,100*	16,800*	13,600*	8,900*
	80	24,800*	22,000*	15,000*	20,600*	17,200*	12,200*	17,700*	14,000*	10,400*	15,900*	12,100*	8,200*
	90	22,400	20,400*	14,200*	19,200*	15,900*	11,500*	16,200*	12,500*	9,600*	14,400*	10,500*	7,500*
	100	18,900	18,600*	13,500*	17,800*	14,700*	11,000*	14,700*	11,500*	8,600*	12,800*	8,900*	6,800*
	110	16,400	16,700	13,000*	16,400*	13,300*	10,500*	13,100*	10,500*	8,200*	11,200*	8,200*	6,000*
	120	14,100	14,400		14,300	11,900*	10,100*	11,800*	9,500*	7,700*	9,400*	7,400*	5,700*
	130	12,200	12,400		12,500	11,400*		10,700*	8,500*	7,200*	8,400*	6,600*	5,400*
	140	10,600			10,900	10,800*		9,500*	8,000*		7,500*	5,900*	5,200*
	150	9,300			9,500			8,400*	7,400*		6,600*	5,600*	
	160				8,300			7,800*			5,800*	5,300*	
	170							7,000*			5,500*		
180										5,000*			
140	35	29,500*			25,400*			21,700*			19,500*		
	40	29,100*			24,900*			20,900*			18,700*		
	50	28,200*	25,400*		24,100*	21,300*		20,000*	18,500*		17,900*	15,400*	
	60	27,200*	24,400*	17,200*	23,200*	20,200*	14,000*	19,200*	15,800*	12,000*	17,100*	14,000*	9,100*
	70	26,300*	23,500*	16,200*	22,300*	18,900*	13,100*	18,300*	14,500*	10,600*	16,100*	12,600*	8,400*
	80	25,300*	22,500*	15,300*	21,200*	17,700*	12,400*	17,700*	13,100*	9,900*	14,600*	11,100*	7,700*
	90	22,100	21,200*	14,500*	19,900*	16,500*	11,800*	16,800*	13,100*	9,000*	13,400*	9,600*	7,000*
	100	18,700	19,100	13,900*	18,600*	15,300*	11,200*	15,500*	11,900*	8,400*	12,000*	8,500*	6,400*
	110	16,100	16,500	13,300*	16,300	14,100*	10,700*	14,000*	11,000*	8,400*	12,000*	8,500*	6,400*
	120	13,900	14,200	12,800*	14,100	12,800*	10,300*	12,400*	10,100*	7,900*	10,400*	7,800*	5,800*
	130	12,000	12,300		12,200	11,800*	9,800*	11,400*	9,100*	7,400*	8,900*	7,100*	5,600*
	140	10,400	10,600		10,600	10,900		10,400*	8,300*	6,400*	8,100*	6,300*	4,900*
	150	9,100			9,300	9,500		9,200*	7,800*		7,300*	5,800*	4,300*
	160	7,900			8,100			8,300	7,300*		6,400*	5,500*	
	170				7,100			7,300			5,800*	5,200*	
180										5,400*			
150	35	29,700*			25,100*			21,800*			19,600*		
	40	29,300*			24,300*			21,000*			18,900*		
	50	28,400*	25,600*		23,500*	21,600*		20,300*	17,500*		18,100*	15,700*	
	60	27,500*	24,700*	17,500*	23,500*	20,500*	14,200*	20,300*	16,200*	11,400*	17,400*	14,400*	9,300*
	70	26,600*	23,800*	16,500*	22,600*	19,300*	13,300*	19,500*	15,800*	10,700*	16,200*	13,000*	8,500*
	80	25,700*	22,900*	15,600*	21,700*	18,200*	12,600*	18,400*	14,900*	10,700*	16,200*	13,000*	8,500*
	90	21,900	21,900*	14,800*	20,500*	17,000*	12,000*	16,900*	13,600*	10,200*	14,800*	11,600*	7,900*
	100	18,500	18,900	14,100*	18,600	15,800*	11,400*	15,600*	12,300*	9,400*	13,500*	10,200*	7,300*
	110	15,900	16,300	13,600*	16,100	14,700*	11,000*	14,500*	11,500*	8,500*	12,400*	8,800*	6,600*
	120	13,700	14,000	13,100*	13,900	13,500*	10,300*	13,400*	10,600*	7,800*	11,300*	8,200*	6,000*
	130	11,800	12,100	11,900*	12,000	12,300*	8,900*	12,000*	9,600*	6,800*	9,800*	7,500*	5,300*
	140	10,200	10,400		10,400	10,700		10,600	8,700*	5,900*	8,600*	6,800*	4,600*
	150	8,800	9,000		9,000	9,300		9,200	8,200*		7,900*	6,100*	4,100*
	160	7,700			7,900	8,100		8,000	7,700*		7,100*	5,700*	
	170	6,600			6,800			7,000	7,200*		6,200*	5,400*	
180							6,100			5,700*	5,100*		
190										5,400*			
160	40	29,400*			25,300*			21,900*			19,000*		
	50	28,600*	25,800*		24,500*	21,800*		21,200*	17,700*		18,300*	15,900*	
	60	27,800*	24,900*		23,700*	20,700*	14,300*	20,500*	16,500*	11,500*	17,600*	14,700*	9,600*
	70	26,900*	24,100*	16,700*	22,900*	19,600*	13,500*	19,700*	15,300*	10,900*	16,200*	13,400*	8,700*
	80	26,100	23,200*	15,800*	22,100*	18,600*	12,800*	19,000*	15,300*	10,300*	16,200*	13,400*	8,700*
	90	21,600	22,200	15,100*	21,000*	17,400*	12,200*	16,900*	14,100*	10,300*	14,800*	12,100*	8,100*
	100	18,400	18,700	14,400*	18,400	16,300*	11,600*	15,600*	12,800*	9,700*	13,600*	10,700*	7,500*
	110	15,700	16,100	13,600*	15,900	14,900*	10,800*	14,500*	11,800*	8,300*	12,500*	9,300*	6,600*
120	13,400	13,800	12,100*	13,600	13,200*	9,500*	13,500*	11,000*	7,300*	11,500*	8,500*	5,700*	
130	11,500	11,800	10,700*	11,700	11,800*	8,100*	11,900	10,100*	6,300*	10,700*	7,900*	5,000*	

(continued)

Boom length Feet	Load radius Feet	Capacities on outriggers — over side and 360° swing											
		30° jib			40° jib			50° jib			60° 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	140	10,000	10,200		10,200	10,500	7,200*	10,300	9,100*	5,600*	9,200*	7,200*	4,300*
	150	8,600	8,800		8,800	9,100		9,000	8,200*	4,900*	8,400*	6,500*	3,800*
	160	7,400	7,600		7,600	7,900		7,900	7,200*		7,600*	5,900*	3,400*
	170	6,400			6,600	6,800		6,700	6,600*		6,900*	5,500*	
	180	5,500			5,700			5,800	5,900*		6,000*	5,000*	
	190							5,000			5,200	4,500*	
	200										4,400		
170	40	29,600*			25,400*								
	50	28,800*	25,900*		24,700*	22,000*		21,400*			19,200*	16,100*	
	60	28,000*	25,200*	18,000*	23,900*	21,000*	14,500*	20,700*	18,000*		18,500*	15,000*	
	70	27,200*	24,300*	17,000*	23,100*	19,900*	13,700*	20,000*	16,800*	11,700*	17,600*	13,700*	
	80	24,600*	23,200*	16,100*	22,400*	18,900*	13,000*	19,200*	15,700*	11,000*	16,100*	13,700*	8,800*
	90	21,400	20,300*	15,300*	19,800*	17,300*	12,400*	16,800*	14,500*	10,500*	14,700*	12,500*	8,200*
	100	18,200	17,300*	14,000*	16,900*	15,200*	11,300*	15,500*	13,300*	9,000*	13,500*	11,200*	7,200*
	110	15,400	15,100*	12,400*	15,100*	13,400*	9,800*	13,700*	11,700*	7,800*	12,500*	9,900*	6,300*
	120	13,100	13,600	11,000*	13,300	11,900*	8,600*	12,400*	10,300*	6,800*	11,200*	8,800*	5,400*
	130	11,300	11,600	9,600*	11,500	10,600*	7,600*	11,100*	9,100*	5,900*	10,000*	7,900*	4,600*
	140	9,700	10,000	8,600*	9,900	9,500*	6,700*	9,900*	8,200*	5,200*	9,000*	7,000*	4,100*
	150	8,300	8,600		8,500	8,500*	5,900*	8,700	7,200*	4,600*	8,100*	6,200*	3,600*
	160	7,100	7,400		7,300	7,700		7,500	6,500*	4,100*	7,200*	5,500*	3,200*
	170	6,100	6,300		6,300	6,600		6,500	5,800*		6,600	5,000*	2,800*
	180	5,200			5,400	5,600		5,600	5,300*		5,700	4,500*	
190	4,400			4,600			4,700	4,800*		4,900	4,000*		
200							4,000			4,100	3,700*		
210										3,500			
180	40	29,700*			24,800*								
	50	29,000*	26,100*		24,100*	21,200*	14,600*	20,800*	18,200*		19,300*	16,200*	
	60	28,100*	25,300*	18,200*	24,100*	21,200*	13,800*	20,800*	17,100*	11,800*	18,700*	15,200*	
	70	24,500*	23,400*	17,200*	22,600*	20,200*	13,000*	20,200*	17,100*	11,200*	17,400*	15,200*	
	80	21,700*	20,500*	16,300*	20,000*	18,200*	13,100*	17,500*	15,500*	11,200*	15,900*	13,800*	8,900*
	90	19,100*	17,200*	14,600*	16,800*	15,400*	12,000*	15,500*	13,600*	9,900*	14,200*	12,000*	8,000*
	100	16,200*	15,300*	12,700*	14,900*	13,500*	10,400*	13,900*	11,900*	8,500*	12,500*	10,500*	6,900*
	110	14,400*	13,400*	11,200*	13,400*	11,900*	8,900*	12,300*	10,600*	7,300*	11,100*	9,200*	5,800*
	120	12,900	12,100*	10,000*	11,800*	10,600*	7,800*	10,900*	9,300*	6,200*	9,900*	8,100*	5,100*
	130	11,000	10,700*	8,700*	10,700*	9,500*	6,900*	9,700*	8,200*	5,500*	8,900*	7,100*	4,300*
	140	9,400	9,600*	7,800*	9,600	8,500*	6,100*	8,700*	7,400*	4,800*	8,000*	6,300*	3,800*
	150	8,100	8,400	6,900*	8,300	7,500*	5,400*	7,900*	6,500*	4,200*	7,100*	5,600*	3,400*
	160	6,900	7,200		7,100	6,700*		7,000*	5,800*	3,700*	6,400*	5,000*	2,900*
	170	5,900	6,100		6,100	6,100*		6,200	5,200*		5,800*	4,500*	2,600*
	180	5,000	5,100		5,100	5,400		5,300	4,700*		5,200*	4,000*	
190	4,100			4,300			4,500	4,300*		4,600	3,700*		
200				3,600			3,800			3,900	3,300*		
210										3,200			
220							3,100			2,600			
190	50	28,300*	26,200*	18,400*	25,000*	21,400*	14,000*	21,600*	18,400*	11,900*	19,400*	14,500*	8,900*
	60	24,800*	23,900*	17,400*	23,000*	18,900*	13,000*	21,000*	17,800*	10,700*	18,800*	12,600*	7,500*
	70	21,800*	21,000*	15,100*	20,200*	15,600*	12,700*	17,800*	14,100*	9,000*	16,400*	11,000*	6,400*
	80	19,200*	17,500*	13,200*	17,000*	13,800*	11,000*	15,700*	12,200*	7,700*	14,500*	9,500*	5,400*
	90	16,100*	15,300*	11,500*	14,900*	11,700*	8,300*	13,800*	10,900*	6,700*	12,700*	8,300*	4,800*
	100	14,300*	13,600*	10,100*	13,300*	12,200*	9,500*	12,300*	10,900*	7,000*	11,300*	9,500*	4,800*
	110	12,800*	12,000*	9,000*	11,700*	10,100*	7,300*	10,800*	9,400*	5,800*	9,900*	8,300*	4,100*
	120	11,400*	10,600*	8,000*	10,600*	9,400*	6,400*	9,600*	8,400*	5,000*	8,900*	7,300*	3,600*
	130	10,300*	9,600*	7,000*	9,400*	8,400*	5,600*	8,600*	7,400*	4,500*	7,900*	6,400*	3,100*
	140	9,200	8,500*	6,200*	8,500*	7,500*	4,900*	7,700*	6,500*	3,900*	7,000*	5,700*	2,700*
	150	7,800	7,600*		7,500*	6,700*	4,400*	6,800*	5,900*	3,400*	6,200*	5,000*	2,400*
160	6,700	6,900		6,800	6,000*		6,200*	5,100*	3,100*	5,700*	4,500*	2,200*	
170	5,600	5,900		5,800	5,400*		5,500*	4,700*		5,100*	4,000*		
180	4,700	4,900		4,900	4,800*		5,000	4,200*		4,600*	3,600*		
190	3,900			4,100	4,300		4,200	3,800*		4,200*	3,200*		

(continued)



HC-238A jib capacities — open throat boom (U.S. units)

Refer to Notes page 251.31

Boom length Feet	Load radius Feet	Capacities on outriggers — over side and 360° swing											
		30 jib			40 jib			50 jib			60 jib		
		Jib angles to boom (jib offset degrees)											
		0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
Pounds			Pounds			Pounds			Pounds				
190	200	3 200			3 300			3 500			3 600		
	210				2 700			2 800			3 000		
	220							2 200			2 400		
200	50	25 400*			23 600*			21 800*			19 600*		
	60	22 100*			20 700*			18 100*			16 700*		
	70	19 400*			17 100*			15 400*			14 700*		
	80	16 300*			15 200*			14 100*			12 900*		
	90	14 400*			13 400*			12 500*			11 600*		
	100	12 700*			11 800*			10 900*			10 200*		
	110	11 400*			10 400*			9 700*			8 900*		
	120	10 000*			9 300*			8 600*			7 900*		
	130	9 000*			8 500*			7 900*			7 300*		
	140	8 100*			7 500*			7 000*			6 600*		
	150	7 200*			6 600*			6 100*			5 800*		
	160	6 400*			5 900*			5 400*			5 100*		
	170	5 400*			5 000*			4 500*			4 200*		
	180	4 500*			4 200*			3 900*			3 600*		
	190	3 800*			3 600*			3 400*			3 200*		
	200	2 900*			3 100*			2 900*			2 700*		
	210	2 300*			2 400*			2 600*			2 800*		
220							2 000						

Boom — tubular: 60" wide, 54" deep with open throat top section, 1 3/8" diameter boom pendants, boom live mast, and boom midpoint suspension pendants as required.

Jib — tubular: 30" wide, 36" deep.

Mounting — rubber tire mobile base: FMC, 8 x 4 drive, 270" wheelbase, 11' 10" wide.

Counterweights — Upper counterweight "AB" — 47,000 lbs. plus bumper counterweight "A" — 11,400 lbs.

Link-Belt® HC-238A jib capacities — open throat boom (U.S. units) Refer to Notes page 251.31

Boom length Feet	Load radius Feet	Capacities on outriggers — over rear only																
		30' jib			40' jib			50' jib			60' 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	18	29,600*																
	19	29,400*																
	20	29,200*																
	25	28,200*	26,200*		25,200*													
	30	27,200*	25,200*		23,500*	21,700*			21,300*						19,300*			
	35	26,200*	24,200*	17,900*	22,600*	20,500*			19,800*	18,100*					18,600*			
	40	25,200*	23,100*	16,600*	21,600*	19,300*			19,000*	16,900*					17,900*			
	50	22,900*	20,300*	14,700*	19,100*	16,700*	12,500*		16,600*	14,200*	11,200*				15,400*	13,000*		9,700*
	60	19,600*	16,500*	13,200*	16,400*	14,200*	11,200*		13,900*	11,800*					9,700*	12,600*	10,200*	8,000*
	70	15,800*	15,300*		13,600*	11,800*	10,300*		11,400*	9,900*	8,200*				7,900*	9,700*	8,200*	6,700*
	80				11,400*	10,500*			9,300*	8,200*	7,300*				6,300*	7,900*	6,800*	5,700*
90								7,800*	7,100*					5,400*	6,300*	5,700*	5,200*	
100														5,400*	5,100*			
60	20	29,600*																
	25	28,700*																
	30	27,800*	25,600*		24,800*	24,000*			21,600*						19,500*			
	35	26,900*	24,700*	18,900*	23,200*	21,000*			20,900*						18,900*			
	40	26,000*	23,800*	17,200*	22,400*	19,900*			20,200*	18,600*					18,200*			
	50	24,100*	21,800*	15,300*	20,300*	17,700*	14,600*		19,500*	17,400*					17,600*	16,100*		
	60	22,000*	18,700*	13,900*	17,900*	15,400*	11,700*		15,100*	13,000*	11,500*				16,200*	13,800*		
	70	18,600*	15,800*	12,800*	15,500*	13,100*	10,700*		12,700*	10,900*	8,600*				14,000*	11,300*		8,400*
	80	15,700*	15,100*		12,900*	11,400*			12,700*	10,900*	8,600*				11,400*	8,800*		7,200*
	90				11,200*	10,300*			10,800*	9,100*	7,800*				8,800*	7,600*		5,900*
	100								8,900*	7,900*					7,500*	6,300*		5,500*
110								7,700*						5,400*	5,600*			
70	25	29,100*																
	30	28,300*																
	35	27,500*	26,000*		24,300*	23,600*			21,900*						19,200*			
	40	26,700*	24,400*	19,300*	22,900*	20,500*			20,600*						18,600*			
	50	25,000*	22,700*	15,900*	21,200*	18,500*	13,300*		19,900*	17,900*					18,000*			
	60	23,200*	20,300*	14,500*	19,100*	16,400*	12,100*		16,500*	13,600*	11,800*				16,700*	14,400*		
	70	20,900*	17,400*	13,400*	16,900*	14,400*	11,200*		15,500*	12,100*	10,700*				15,000*	12,100*		8,600*
	80	17,700*	15,600*		14,700*	12,200*	10,400*		14,200*	11,700*	9,300*				12,700*	9,700*		7,600*
	90	15,600*	15,000*		12,300*	11,100*			12,000*	10,100*	8,200*				10,200*	8,200*		6,500*
	100				11,000*				10,300*	8,500*	7,500*				8,400*	7,100*		5,700*
	110								8,500*	7,700*					7,100*	5,900*		5,300*
120								7,500*						5,300*	5,400*			
80	25	29,400*																
	30	28,700*																
	35	28,000*	26,300*		24,700*	24,000*			21,500*						19,400*			
	40	27,200*	25,500*		23,300*	23,300*			20,900*						18,800*			
	50	25,700*	23,300*	18,200*	22,000*	20,900*	21,800*		20,300*	18,300*					18,300*			
	60	24,200*	21,600*	16,400*	20,100*	19,100*	19,100*		16,400*	14,300*	12,000*				17,100*	14,900*		
	70	22,500*	19,000*	15,000*	18,200*	17,200*	13,700*		15,400*	12,500*	10,900*				16,000*	12,800*		8,800*
	80	20,000*	16,300*	13,000*	16,100*	15,000*	11,500*		14,400*	12,300*	9,800*				13,800*	10,600*		7,900*
	90	16,900*	15,500*		14,100*	13,500*	10,800*		13,200*	10,900*	8,500*				11,600*	8,700*		6,900*
	100				11,900*	11,800*	10,200*		11,400*	9,500*	7,900*				9,300*	7,700*		5,900*
	110				10,900*	10,900*			9,800*	8,300*	7,100*				8,000*	6,600*		5,500*
120								8,300*	7,500*					6,800*	5,800*		5,100*	
130								7,400*						5,800*	5,300*			

(continued)

HC-238A jib capacities — open throat boom (U.S. units)

Refer to Notes page 251.31



Boom length	Load radius	Capacities on outriggers — over rear only														
		30° jib			40° jib			50° jib			60° 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	29,600*														
	30	29,000*														
	35	28,300*	25,800*		24,900*			21,700*				19,600*				
	40	27,700*	25,200*	19,000*	23,700*	21,300*		20,600*	18,600*			18,500*				
	50	26,300*	23,800*	16,900*	22,500*	19,600*	14,000*	19,500*	16,800*			17,500*	15,300*			
	60	24,900*	22,400*	15,500*	21,000*	17,900*	12,800*	18,200*	15,000*		11,200*	16,400*	13,400*		9,100*	
	70	23,400*	20,400*	14,400*	19,200*	16,200*	11,900*	16,400*	13,100*		10,300*	14,800*	11,400*		8,100*	
	80	21,800*	18,000*	13,500*	17,300*	14,500*	11,100*	14,400*	11,600*		9,000*	12,800*	9,400*		7,200*	
	90	19,200*	15,800*	12,800*	15,500*	12,700*	10,500*	12,300*	10,300*		8,200*	10,600*	8,200*		6,300*	
	100	16,200*	15,300*		13,500*	11,500*		11,000*	8,900*		7,600*	8,700*	7,200*		5,700*	
	110	15,400*			11,700*	10,700*		9,400*	8,100*			7,700*	6,200*		5,400*	
	120				10,700*			8,200*	7,300*			6,500*	5,600*			
	130							7,300*				5,700*	5,200*			
	140											5,200*				
100	30	29,300*			25,200*			21,900*				19,300*				
	35	28,700*	26,100*		24,600*			21,400*				18,800*				
	40	28,000*	25,500*	19,300*	24,000*	21,600*		20,900*				17,800*				
	50	26,800*	24,200*	17,200*	22,900*	20,100*	14,200*	19,800*	17,300*			15,700*				
	60	25,500*	22,900*	15,900*	21,600*	18,500*	13,100*	18,800*	15,600*		11,400*	16,800*	13,900*		9,500*	
	70	24,200*	21,400*	14,800*	20,000*	16,900*	12,200*	17,200*	13,800*		10,500*	15,600*	12,100*		8,400*	
	80	22,800*	19,300*	13,900*	18,400*	15,400*	11,400*	15,400*	12,100*		9,500*	13,700*	10,200*		7,500*	
	90	20,900*	17,000*	13,100*	16,600*	13,800*	10,800*	13,500*	11,000*		8,400*	11,800*	8,600*		6,700*	
	100	18,400*	15,700*		14,900*	12,000*	10,200*	11,800*	9,700*		7,900*	9,800*	7,800*		5,900*	
	110	15,900*	15,200*		13,000*	11,300*		10,500*	8,500*		7,300*	8,400*	6,800*		5,600*	
	120				11,600*	10,500*		9,100*	7,900*			7,400*	5,900*		5,200*	
	130				10,600*			8,100*	7,200*			6,300*	5,500*			
	140							7,200*				5,600*	5,100*			
	150											5,100*				
110	30	29,500*			25,400*			21,600*				19,500*				
	35	28,900*	26,300*		24,800*			21,100*				19,000*				
	40	28,400*	25,700*	17,600*	24,300*	21,900*		20,500*				18,100*				
	50	27,200*	24,600*	16,300*	23,300*	20,500*	14,400*	20,200*	17,600*			16,000*				
	60	26,100*	23,400*	16,300*	22,200*	19,000*	13,300*	19,200*	16,000*		11,600*	17,100*	14,400*			
	70	24,800*	22,200*	15,200*	20,800*	17,500*	12,400*	17,900*	14,400*		10,700*	16,200*	12,700*		8,600*	
	80	23,600*	20,400*	14,300*	19,200*	16,000*	11,700*	16,300*	12,800*		9,900*	14,600*	10,900*		7,800*	
	90	22,200*	18,300*	13,500*	17,600*	14,600*	11,000*	14,600*	11,500*		8,800*	12,800*	9,100*		7,000*	
	100	20,200*	16,200*	12,900*	16,000*	13,100*	10,500*	12,700*	10,400*		8,200*	10,900*	8,200*		6,100*	
	110	17,800*	15,600*		14,400*	11,800*	10,100*	11,400*	9,200*		7,600*	9,000*	7,400*		5,700*	
	120	15,800*	15,100*		12,600*	11,100*		10,200*	8,300*		7,100*	8,100*	6,400*		5,400*	
	130	15,300*			11,400*	10,300*		8,800*	7,700*			7,100*	5,800*		5,100*	
	140				10,500*			8,000*	7,000*			6,000*	5,400*			
	150							7,100*				5,600*	5,000*			
160											5,100*					
120	30	29,700*			25,000*			21,800*				19,600*				
	35	29,200*			24,600*			21,300*				19,200*				
	40	28,600*	26,000*		24,900*			20,400*				18,300*				
	50	27,600*	24,900*	17,900*	23,600*	20,800*	14,600*	20,400*	17,900*			16,200*				
	60	26,500*	23,800*	16,600*	22,600*	19,400*	13,600*	19,500*	16,500*		11,700*	17,400*	14,700*			
	70	25,400*	22,700*	15,500*	21,400*	18,100*	12,700*	18,600*	15,000*		10,900*	16,500*	13,200*		8,700*	
	80	24,200*	21,300*	14,600*	20,000*	16,600*	11,900*	17,000*	13,400*		10,200*	15,300*	11,500*		8,000*	
	90	23,000*	19,500*	13,900*	18,500*	15,300*	11,300*	15,400*	12,000*		9,200*	13,700*	9,800*		7,300*	
	100	21,600*	17,500*	13,200*	16,900*	13,900*	10,800*	13,800*	11,000*		8,400*	11,900*	8,600*		6,500*	
	110	19,500*	15,900*	12,700*	15,500*	12,500*	10,300*	12,200*	9,900*		7,900*	10,100*	7,800*		5,900*	
	120	17,200*	15,500*		13,900*	11,600*		11,000*	8,800*		7,400*	8,600*	7,000*		5,600*	
	130	15,300*	15,000*		12,200*	10,900*		9,800*	8,100*			7,800*	6,100*		5,300*	
	140				11,300*			8,500*	7,500*			6,800*	5,700*			
	150				10,400*			7,900*				5,900*	5,300*			
160											5,500*					
170											5,000*					

(continued)

Boom length	Load radius	Capacities on outriggers — over rear only											
		36° jib			40° jib			50° jib			60° 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	29,400*			25,200*			21,900*			19,300*		
	40	28,900*			24,800*			21,500*			18,500*		
	50	27,900*			23,800*			20,700*			18,500*		
	60	26,900*		18,200*	22,900*		21,100*	19,800*		18,200*	17,700*		15,100*
	70	25,800*		16,900*	21,900*		19,800*	18,900*		16,800*	16,800*		13,600*
	80	24,800*		15,900*	20,600*		18,500*	17,200*		15,400*	15,900*		12,100*
	90	23,700*		14,200*	19,200*		17,200*	16,200*		14,000*	14,400*		10,500*
	100	22,500*		13,500*	17,800*		15,900*	14,700*		12,500*	12,800*		8,900*
	110	19,600*		13,000*	16,400*		14,700*	13,100*		11,500*	11,200*		8,200*
	120	17,300*			15,000*		13,300*	11,800*		10,500*	9,400*		7,400*
	130	15,100*			13,500*		11,900*	10,700*		9,500*	8,400*		6,600*
	140	13,300*			11,900*		10,800*	9,500*		8,500*	7,500*		5,900*
	150	11,800*			11,200*			8,400*		7,400*	6,600*		5,600*
	160				10,400*			7,800*		7,200*	5,800*		5,300*
170							7,000*			5,500*			
180										5,000*			
140	35	29,500*			25,400*			21,700*			19,500*		
	40	29,100*			24,900*			20,900*			18,700*		
	50	28,200*			24,100*			20,000*			17,900*		
	60	27,200*		25,400*	23,200*		21,300*	19,200*		18,500*	17,100*		15,400*
	70	26,300*		18,800*	22,300*		20,200*	18,900*		17,200*	17,100*		14,000*
	80	25,300*		17,200*	21,200*		19,200*	17,200*		15,800*	15,400*		12,600*
	90	24,200*		16,200*	19,900*		18,300*	16,800*		14,500*	14,700*		11,100*
	100	22,500*		15,300*	18,600*		17,700*	16,800*		14,500*	14,700*		9,600*
	110	19,400*		14,500*	17,200*		16,500*	15,500*		13,100*	13,400*		9,600*
	120	17,000*		13,900*	15,900*		15,300*	14,000*		11,900*	12,000*		8,500*
	130	14,900*		13,300*	14,100*		14,000*	12,400*		11,000*	10,400*		7,800*
	140	13,100*		12,800*	12,800*		14,000*	12,400*		11,000*	10,400*		7,800*
	150	11,600*			11,800*		11,400*	9,100*		8,400*	7,300*		6,400*
	160	10,200*			11,200*		10,400*	8,300*		7,800*	6,400*		5,500*
170				10,400*		9,200*	7,800*		7,300*	5,800*		5,200*	
180				9,300*		8,300*	7,700*		7,300*	5,400*			
150	35	29,700*			25,100*			21,800*			19,600*		
	40	29,300*			24,300*			21,000*			18,900*		
	50	28,400*			23,500*			20,300*			18,100*		
	60	27,500*		25,600*	22,700*		21,600*	19,500*		17,500*	18,100*		15,700*
	70	26,600*		19,000*	21,700*		20,500*	18,700*		16,200*	16,100*		14,400*
	80	25,700*		17,500*	20,700*		19,300*	17,200*		14,900*	14,700*		13,000*
	90	24,700*		16,500*	19,300*		18,200*	16,900*		14,900*	14,700*		11,600*
	100	22,200*		15,600*	18,200*		17,000*	16,900*		13,600*	13,500*		10,200*
	110	19,100*		14,800*	17,000*		16,000*	15,600*		12,300*	12,500*		9,400*
	120	16,800*		14,100*	15,800*		15,800*	14,500*		11,500*	11,500*		8,800*
	130	14,700*		13,600*	14,700*		14,700*	13,400*		11,500*	11,300*		8,200*
	140	12,900*		13,100*	13,100*		13,500*	12,000*		10,600*	10,700*		7,500*
	150	11,300*		11,800*	12,300*		12,300*	10,200*		9,600*	9,800*		6,000*
	160	10,000*		11,800*	11,800*		11,600*	9,900*		9,600*	8,200*		5,300*
170	8,800*			10,700*		10,700*	8,700*		8,700*	7,900*		4,700*	
180				9,000*		9,800*	8,200*		7,200*	6,200*		5,400*	
190							7,600*		7,200*	5,700*		5,100*	
160	40	29,400*			25,300*			21,900*			19,000*		
	50	28,600*			24,500*			21,200*			18,300*		
	60	27,800*		25,800*	23,700*		21,800*	20,500*		17,700*	17,600*		15,900*
	70	26,900*		19,300*	22,900*		20,700*	19,700*		16,500*	16,200*		14,700*
	80	26,100*		17,700*	21,700*		19,600*	18,500*		15,300*	15,300*		13,400*
	90	24,600*		16,700*	20,700*		18,600*	17,400*		14,100*	14,700*		12,100*
	100	22,000*		15,800*	19,500*		18,000*	16,900*		13,300*	13,600*		10,700*
	110	18,900*		15,100*	17,400*		16,300*	15,200*		12,800*	12,500*		9,300*
120	16,500*		14,400*	16,300*		15,100*	14,500*		11,800*	11,800*		8,600*	
130	14,400*		13,600*	15,400*		14,800*	13,500*		11,000*	11,500*		8,500*	
			10,700*	13,900*		13,400*	12,500*		10,200*	10,700*		7,900*	

(continued)



HC-238A jib capacities — open throat boom (U.S. units)

Refer to Notes page 251.31

Boom length Feet	Load radius Feet	Capacities on outriggers — over rear only											
		30° jib			40° jib			50° jib			60° 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	140	12,600	12,500*		12,400*	10,700*	7,300*	11,300*	9,000*	5,600*	9,200*	7,200*	4,400*
	150	11,100	11,100*		11,300	9,600*		10,200*	8,100*	5,000*	8,400*	6,500*	3,800*
	160	9,800	9,900		10,000	8,600*		9,100*	7,300*		7,600*	5,900*	3,400*
	170	8,600			8,800	7,800*		8,400*	6,600*		6,900*	5,500*	
	180	7,500			7,700			7,700*	5,900*		6,000*	5,000*	
	190							7,000			5,700*	4,500*	
	200										5,300*		
170	40	29,600*			25,400*						19,200*		
	50	28,800*	25,900*		24,700*	22,000*		21,400*			18,500*	16,100*	
	60	28,000*	25,200*	18,000*	23,900*	21,000*	14,500*	20,700*	18,000*		17,600*	15,000*	
	70	27,200*	24,300*	17,000*	23,100*	19,900*	13,700*	20,000*	16,800*	11,700*	16,100*	13,700*	8,800*
	80	24,700*	23,100*	16,100*	22,400*	18,900*	13,000*	19,200*	15,700*	11,000*	16,100*	13,700*	8,200*
	90	21,700*	20,400*	15,300*	20,000*	17,100*	12,400*	16,800*	14,500*	10,500*	14,700*	12,500*	7,200*
	100	19,300*	17,200*	14,200*	16,900*	15,300*	11,200*	15,500*	13,300*	9,000*	13,500*	11,200*	6,200*
	110	16,500*	15,300*	12,500*	15,100*	13,400*	9,800*	13,900*	11,700*	7,900*	12,400*	9,900*	5,400*
	120	14,700*	13,500*	10,900*	13,600*	11,900*	8,600*	12,400*	10,300*	6,800*	11,100*	8,800*	4,700*
	130	13,300*	12,200*	9,600*	12,100*	10,600*	7,600*	11,000*	9,100*	5,900*	9,900*	7,800*	4,100*
	140	12,000*	10,800*	8,600*	10,900*	9,500*	6,700*	9,900*	8,200*	5,200*	8,900*	7,000*	3,600*
	150	10,800	9,800*		9,800*	8,500*	5,900*	9,000*	7,300*	4,500*	8,000*	6,200*	3,200*
	160	9,500	8,900*		8,900*	7,600*		8,100*	6,500*	4,000*	7,200*	5,600*	2,800*
	170	8,300	8,100*		8,100*	6,900*		7,300*	5,800*		6,500*	4,900*	
	180	7,300			7,500	6,200*		6,600*	5,200*		6,000*	4,500*	
190	6,300			6,500			6,000*	4,800*		5,500*	4,000*		
200							5,600*			5,000*	3,700*		
210										4,600*			
220													
180	40	29,700*			24,800*						19,300*		
	50	29,000*	26,100*		24,100*	21,200*	14,600*	20,800*	18,200*		18,700*	16,200*	
	60	28,100*	25,300*	18,200*	24,100*	20,200*	13,800*	20,200*	17,100*	11,800*	17,400*	15,200*	8,900*
	70	24,600*	23,400*	17,200*	22,800*	20,200*	13,100*	17,500*	15,700*	11,200*	16,000*	13,800*	8,000*
	80	21,600*	20,400*	16,300*	20,000*	17,500*	12,000*	15,700*	13,800*	9,800*	14,300*	12,000*	6,800*
	90	19,200*	17,100*	14,500*	16,800*	15,300*	10,400*	15,700*	13,800*	8,400*	12,700*	10,500*	5,800*
	100	16,200*	15,200*	12,700*	15,000*	13,500*	9,100*	12,300*	10,500*	7,300*	11,200*	9,200*	5,000*
	110	14,500*	13,500*	11,200*	13,400*	12,000*	7,900*	10,900*	9,200*	6,300*	9,900*	8,100*	4,300*
	120	13,000*	12,000*	9,900*	11,800*	10,600*	6,900*	9,700*	8,200*	5,500*	8,800*	7,200*	3,800*
	130	11,700*	10,600*	8,800*	10,700*	9,500*	6,100*	8,600*	7,300*	4,900*	7,900*	6,200*	3,400*
	140	10,400*	9,700*	7,800*	9,500*	8,500*	5,400*	7,900*	6,500*	4,200*	7,100*	5,700*	3,000*
	150	9,400*	8,600*	7,000*	8,700*	7,600*		7,900*	6,500*	3,800*	6,400*	5,000*	2,700*
	160	8,500*	7,800*		7,700*	6,800*		7,100*	5,800*		5,700*	4,500*	
	170	7,800*	7,100*		7,000*	6,100*		6,400*	5,200*		5,700*	4,500*	
	180	7,000	6,500*		6,400*	5,500*		5,800*	4,700*		5,300*	4,100*	
190	6,100			5,900*			5,300*	4,300*		4,700*	3,700*		
200				5,500			4,900*			4,300*	3,300*		
210							4,500*			4,000*			
220										3,700*			
190	50	28,300*	26,200*	18,400*	25,000*	21,400*	14,000*	21,600*	18,400*	11,900*	19,400*	14,500*	8,800*
	60	24,800*	23,900*	17,400*	23,000*	20,100*	12,800*	21,000*	16,300*	10,700*	18,800*	12,700*	7,500*
	70	21,800*	21,000*	15,100*	20,100*	17,800*	11,100*	17,800*	14,100*	9,100*	16,300*	11,000*	6,300*
	80	19,300*	17,400*	13,200*	17,000*	15,600*	9,600*	15,600*	12,400*	7,700*	14,500*	10,000*	5,400*
	90	16,100*	15,300*	11,500*	15,000*	13,900*	8,200*	13,900*	10,900*	6,800*	12,700*	9,500*	4,600*
	100	14,300*	13,500*	10,100*	13,400*	12,100*	7,200*	12,300*	9,400*	5,800*	11,300*	8,300*	4,000*
	110	12,800*	12,000*	8,900*	11,800*	10,700*	6,300*	10,900*	8,300*	5,000*	10,000*	7,300*	3,500*
	120	11,500*	10,700*	8,000*	10,500*	9,400*	5,600*	9,700*	7,400*	4,500*	8,800*	6,400*	3,100*
	130	10,200*	9,600*	7,000*	9,400*	8,400*	4,900*	8,600*	6,500*	3,900*	7,900*	5,700*	2,700*
	140	9,200*	8,500*	6,200*	8,400*	7,500*	4,400*	7,700*	5,800*	3,500*	6,900*	5,100*	2,200*
	150	8,300*	7,600*	6,000*	7,500*	6,700*	4,000*	6,900*	5,200*	3,100*	6,200*	4,500*	
	160	7,500*	6,900*	5,600*	6,800*	6,000*	3,500*	6,100*	4,700*	2,700*	5,600*	4,000*	
170	6,800*	6,200*	5,000*	6,200*	5,400*	3,000*	5,600*	4,200*	2,200*	5,000*	3,600*		
180	6,200*	5,600*	4,500*	5,600*	4,900*	2,500*	5,000*	3,700*	1,800*	4,600*	3,300*		
190	5,700*		4,400*	5,100*	4,400*		4,600*	3,800*		4,100*	3,300*		

(continued)

HC-238A jib capacities — open throat boom (U.S. units)

Refer to Notes page 251.31

Boom length	Load radius	Capacities on outriggers — over rear only												
		30' jib			40' jib			50' jib			60' 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	200	5,000			4,700*			4,200*	3,400*		3,800*	3,000*		
	210				4,300*			3,800*			3,500*	2,700*		
	220							3,600*			3,200*			
	230										3,000*			
200	50	25,400*			23,600*			21,800*			19,600*			
	60	22,100*	21,600*	18,100*	20,700*	18,400*		18,100*	16,900*		16,700*			
	70	19,600*	17,800*	15,700*	17,100*	16,200*		16,000*	14,700*		14,800*			
	80	16,300*	15,500*	13,700*	15,200*	14,000*		14,100*	12,700*		13,000*	11,600*	8,300*	
	90	14,400*	13,800*	12,000*	13,500*	12,300*	13,700*	10,200*	12,300*	11,200*	8,400*	11,500*	10,000*	7,000*
	100	12,800*	12,100*	10,500*	11,900*	10,900*	8,800*	10,900*	9,700*	7,300*	7,300*	10,100*	8,700*	5,900*
	110	11,300*	10,600*	9,100*	10,400*	9,600*	7,600*	9,600*	8,600*	6,200*	8,900*	7,900*	7,600*	5,000*
	120	10,100*	9,500*	8,000*	9,300*	8,500*	6,500*	8,500*	7,500*	5,300*	7,900*	6,600*	6,400*	4,400*
	130	9,000*	8,400*	7,100*	8,300*	7,500*	5,700*	7,500*	6,600*	4,700*	6,900*	5,900*	5,900*	3,800*
	140	8,100*	7,600*	6,300*	7,400*	6,700*	5,100*	6,700*	5,900*	4,100*	6,200*	5,200*	5,200*	3,300*
	150	7,200*	6,700*	5,600*	6,600*	5,900*	4,500*	6,000*	5,200*	3,600*	5,600*	4,500*	4,500*	2,900*
	160	6,500*	6,100*	5,100*	6,000*	5,300*	4,000*	5,400*	4,600*	3,200*	5,000*	4,100*	4,100*	2,600*
	170	6,000*	5,500*		5,300*	4,800*	3,500*	4,900*	4,100*	2,800*	4,500*	3,600*	3,600*	2,200*
	180	5,500*	5,000*		4,800*	4,300*		4,400*	3,700*	2,500*	4,000*	3,200*	3,200*	2,000*
	190	5,000*	4,600*		4,400*	3,900*		4,000*	3,400*					
	200	4,500*			4,100*	3,600*		4,000*	3,700*					
	210	4,000*			3,800*			3,300*	3,100*					
	220				3,500			3,100*						
230							2,800*							

P. 251.30

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LINK-BELT (FMC)

GAY-125

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 over side and rear as described on appropriate plate in crane operator's cab. Capacities for 360° swing applicable only when front center jack, in addition to front and rear outriggers, is set in proper working position.
4. Capacities are limited to an FMC 60" x 54" cross-section tubular boom with a 25' open throat top section, and an FMC 36" x 30" cross-section tubular jib with 13' 6" high jib strut properly assembled.
5. The pinned telescopic boom live mast must be used in the extended 30' position for all capacities on this chart.
6. For boom lengths exceeding 160', boom midpoint suspension pendants are required.
7. Jib cannot be mounted on open throat boom lengths exceeding 200'.
8. Capacities are for 30', 40', 50', and 60' jib lengths only.
9. Machine equipped with upper counterweight "A" and bumper counterweight "A" — maximum boom/jib combination allowed is 180' boom plus 60' jib over rear; 170' boom plus 60' jib over side.
10. "AB" bumper counterweight **must not** be used in conjunction with "AB" upper counterweight, or with booms less than 190' long, due to strength of materials.
11. Machine equipped with "AB" upper counterweight — do not swing over side until outriggers have been set.
12. Least stable rated position is over the side.
13. For lifting loads greater than 6 713 kg up to 13 517 kg 2-part jib hoist line (22 mm diameter Type "N" wire rope) is required. For single part jib hoist line operation, 22 mm diameter Type "P" wire rope is recommended (maximum capacity based on wire rope strength is 6 713 kg).
14. Refer to all notes on applicable lifting crane capacity chart in addition to these notes.
15. Capacities apply only to the machine as originally manufactured and normally equipped by FMC Corporation, Cable Crane and Excavator Division.

HC-238A jib capacities — open throat boom (U.S. units)



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



Link-Belt® HC-238A lifting crane capacities — tapered boom

PCSA Class 11-724

Boom — tubular: 60" (1.52 m) wide, 54" (1.37 m) deep with 45" (1.13 m) tapered top section, 1 3/8" (35 mm) boom pendants, boom live mast, and boom midpoint suspension pendants as required.

Jib — tubular: 36" (0.91 m) deep, 30" (0.76 m) wide.

Counterweights — refer to charts below.

Mounting — rubber tire mobile base: FMC, 8 x 4 drive, 270" (6.86 m) wheelbase, 11' 10" (3.61 m) wide.

Counterweights							
"A" upper		"AB" upper		"A" bumper		"AB" bumper	
Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms
27,000	12 247	47,000	21 319	11,400	5 171	18,700	8 482

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

Standard HC-238A must be equipped with the counterweight combinations below when 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	110	33.53	Not applicable		110	33.53	Not applicable	
	Maximum	180	54.86			180	54.86		
"AB" upper and "A" bumper	Minimum	110	33.53	110 + 30	33.53 + 9.14	110	33.53	110 + 30	33.53 + 9.14
	Maximum	230	70.10	220 + 70	67.06 + 21.34	230	70.10	200 + 70	60.96 + 21.34
"AB" upper and "AB" bumper	Minimum	Not applicable		210 + 30	64.01 + 9.14	Not applicable			
	Maximum			230 + 70	70.10 + 21.34				
On tires^②									
"A" upper and "A" bumper	Minimum	110	33.53	Not applicable		110	33.53	Not applicable	
	Maximum	180	54.86			140	42.67		

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

② Air pressure in tires to be 115 p.s.i. (793 kPa).

Machine travel with tapered boom or boom + jib, with no load^③.

Standard HC-238A must be equipped with the counterweight combinations below when indicated boom or boom + jib lengths are used.	Minimum/maximum boom or boom + jib lengths allowed.	On tires ^④							
		Jobsite moves at 1 m.p.h. (1.61 km/h), boom at 80° boom angle, upper facing rear only.				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 pinned in 30' (9.14 m) extended position.			
		Boom		Boom + jib		Boom		Boom + jib	
		Feet	meters	Feet	meters	Feet	meters	Feet	meters
"A" upper and "A" bumper	Minimum	110	33.53	Not applicable		110	33.53	Not applicable	
	Maximum	180	54.86			150	45.72		
"AB" upper and "A" bumper	Minimum	110	33.53	110 + 30	33.53 + 9.14	110	33.53	110 + 30	33.53 + 9.14
	Maximum	230	70.10	230 + 70	70.10 + 21.34	150	45.72	110 + 70	33.53 + 21.34

③ Limited to 85% of available stability with travel on firm, level supporting surface.

Minimum length for tapered boom — 110' (33.53 m).

④ Air pressure in front and rear tires to be 100 p.s.i. (690 kPa) for travel at 1 and 5 m.p.h. (1.61 and 8.05 km/h).

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

HC-238A lifting crane capacities — tapered boom

PSCA Class 12-724
Refer to Notes 1

Boom — tubular: 60" (1.57 m) wide, 54" (1.37 m) deep with 45' (13.72 m) long tapered top section, 1 $\frac{3}{8}$ " (35 mm) boom pendants, boom live mast, and boom midpoint suspension pendants as required.

Mounting — rubber tire mobile base: FMC, 8 x 4 drive, 270" (6.86 m) wheelbase, 11' 10" (3.61 m) wide.

Counterweights — refer to charts Page 253.00

HC-238A tapered boom					"A" upper and "A" bumper counterweights								"AB" upper and "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
110' (33.53 m)	25	7.62	78.7	114' 7"	34.91	113,100*	51 301*	113,100*	51 301*	63,000*	28 576*	39,800*	18 052*	113,100*	51 301*	113,100*	51 301*
	30	9.14	76.1	113' 5"	34.57	97,500*	44 225*	96,300	43 680	50,900	23 087	32,900*	14 923*	106,100*	48 126*	106,100*	48 126*
	35	10.67	73.4	112' 1"	34.16	81,900*	37 149*	75,000	34 019	41,800	18 960	28,200*	12 791*	90,600*	41 095*	90,600*	41 095*
	40	12.19	70.6	110' 5"	33.66	70,000*	31 751*	61,000	27 669	35,100	15 921	24,200*	10 976*	78,100*	35 425*	75,200	34 110
	50	15.24	65.0	106' 4"	32.42	52,300	23 722	43,800	19 867	26,400	11 974	18,300	8 300	60,100*	27 260*	54,400	24 675
	60	18.29	59.1	101' 1"	30.80	40,500	18 370	33,600	15 240	20,600	9 344	13,800	6 259	48,400	21 953	42,000	19 050
	70	21.34	52.8	94' 3"	28.74	32,700	14 832	27,000	12 246	16,500	7 484	10,700	4 853	39,300	17 826	33,800	15 331
	80	24.38	45.9	85' 9"	26.12	27,200	12 337	22,100	10 024	13,500	6 123	8,500	3 855	32,700	14 832	28,100	12 745
	90	27.43	38.2	74' 7"	22.74	23,000	10 432	18,500	8 391	11,200	5 080	6,700	3 039	28,000	12 700	23,700	10 750
	100	30.48	28.7	59' 6"	18.12	19,700	8 935	15,600	7 076	9,300	4 218	5,300	2 404	24,100	10 931	20,300	9 207
	110	33.53	14.5	34' 2"	10.42	17,000	7 711	13,300	6 032	7,700	3 492	4,100	1 859	20,900	9 480	17,500	7 937
120' (36.58 m)	25	7.62	79.7	124' 9"	38.02	103,200*	46 810*	103,200*	46 810*	62,500*	28 349*	39,500*	17 916*	103,200*	46 810*	103,200*	46 810*
	30	9.14	77.2	123' 8"	37.70	97,200*	44 089*	96,300	43 680	50,800	23 042	32,600*	14 787*	98,600*	44 724*	98,600*	44 724*
	35	10.67	74.8	122' 5"	37.33	81,600*	37 013*	75,000	34 019	41,600	18 869	27,900*	12 655*	90,200*	40 914*	90,200*	40 914*
	40	12.19	72.3	121' 0"	36.87	69,800*	31 660*	60,900	27 623	35,000	15 875	23,900*	10 840*	77,800*	35 289*	75,100	34 064
	50	15.24	67.2	117' 3"	35.75	52,200	23 677	43,800	19 867	26,200	11 884	18,100	8 210	59,800*	27 124*	54,300	24 630
	60	18.29	61.9	112' 6"	34.30	40,400	18 325	33,500	15 195	20,400	9 253	13,700	6 214	48,300	21 908	41,900	19 005
	70	21.34	56.3	106' 7"	32.48	32,600	14 787	26,900	12 201	16,400	7 438	10,600	4 808	39,200	17 780	33,700	15 286
	80	24.38	50.4	99' 1"	30.21	27,100	12 292	22,000	9 979	13,400	6 078	8,300	3 764	32,600	14 787	28,000	12 700
	90	27.43	43.9	89' 10"	27.38	22,900	10 387	18,400	8 346	11,000	4 989	6,600	2 993	27,900	12 655	23,600	10 704
	100	30.48	36.5	78' 0"	23.77	19,600	8 890	15,600	7 076	9,200	4 173	5,200	2 358	24,000	10 886	20,200	9 162
	110	33.53	27.4	62' 0"	18.89	16,900	7 665	13,300	6 032	7,700	3 492	4,000	1 814	20,900	9 480	17,400	7 892
120	36.58	13.9	35' 5"	10.80	14,700	6 667	11,400	5 170	6,400	2 902	3,000	1 360	18,300	8 300	15,200	6 894	
130' (39.62 m)	30	9.14	78.2	133' 11"	40.82	88,200*	40 006*	88,200*	40 006*	50,600	22 951	32,300*	14 651*	88,200*	40 006*	88,200*	40 006*
	35	10.67	76.0	132' 10"	40.47	81,300*	36 877*	74,900	33 974	41,400	18 778	27,600*	12 519*	84,600*	38 373*	84,600*	38 373*
	40	12.19	73.7	131' 5"	40.06	69,400*	31 479*	60,800	27 578	34,800	15 785	23,600*	10 704*	77,500*	35 153*	75,000	34 019
	50	15.24	69.0	128' 1"	39.03	52,000	23 586	43,600	19 776	26,100	11 838	17,800*	8 073*	59,500*	26 988*	54,200	24 584
	60	18.29	64.2	123' 9"	37.72	40,300	18 279	33,300	15 104	20,300	9 207	13,500	6 123	48,200	21 863	41,800	18 960
	70	21.34	59.2	118' 4"	36.08	32,400	14 696	26,700	12 110	16,200	7 348	10,400	4 717	39,000	17 690	33,500	15 195
	80	24.38	54.0	111' 9"	34.07	27,000	12 246	21,900	9 933	13,200	5 987	8,100	3 674	32,400	14 696	27,900	12 655
	90	27.43	48.3	103' 9"	31.61	22,800	10 341	18,300	8 300	10,900	4 944	6,400	2 902	27,700	12 564	23,500	10 659
	100	30.48	42.1	93' 9"	28.58	19,500	8 845	15,400	6 985	9,000	4 082	5,000	2 267	23,900	10 840	20,100	9 117
	110	33.53	35.0	81' 3"	24.75	16,800	7 620	13,200	5 987	7,500	3 401	3,900	1 769	20,800	9 434	17,300	7 847
	120	36.58	26.3	64' 4"	19.61	14,600	6 622	11,300	5 125	6,300	2 857	2,900	1 315	18,200	8 255	15,100	6 849
130	39.62	13.3	36' 8"	11.16	12,800	5 805	9,700	4 399	5,200	2 358	2,100	952	16,100	7 302	13,200	5 987	
140' (42.67 m)	30	9.14	79.1	144' 2"	43.93	80,700*	36 604*	80,700*	36 604*	50,400	22 861	31,900*	14 469*	80,700*	36 604*	80,700*	36 604*
	35	10.67	77.0	143' 1"	43.61	77,600*	35 198*	74,800	33 928	41,200	18 688	27,300*	12 383*	77,600*	35 198*	77,600*	35 198*
	40	12.19	74.9	141' 10"	43.23	69,100*	31 343*	60,700	27 533	34,600	15 694	23,300*	10 568*	72,700*	32 976*	72,700*	32 976*
	50	15.24	70.6	138' 9"	42.28	51,900	23 541	43,500	19 731	25,900	11 748	17,500*	7 937*	59,200*	26 852*	54,100	24 539
	60	18.29	66.2	134' 9"	41.07	40,100	18 189	33,200	15 059	20,100	9 117	13,300	6 032	47,900*	21 727*	41,600	18 869
	70	21.34	61.6	129' 10"	39.58	32,200	14 605	26,600	12 065	16,000	7 257	10,200	4 626	38,800	17 599	33,400	15 149
	80	24.38	56.9	123' 11"	37.77	26,800	12 156	21,700	9 842	13,000	5 896	8,000	3 628	32,300	14 651	27,700	12 564

①②③ — Refer to Page 258.00

(continued)

HC-238A tapered boom					"A" upper and "A" bumper ^① counterweights								"AB" upper and "A" bumper counterweights				
Length	Radius		Angle	Boom point height ^②		On outriggers				On tires (static)				On outriggers only			
	Feet	meters	Degrees	Feet	meters	Over rear		Over side and 360° swing ^③		Over rear		Over side		Over rear		Over side and 360° swing ^③	
						Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms
140' (42.67 m)	90	27.43	51.8	116' 9"	35.58	22,600	10 251	18,100	8 210	10,700	4 853	6,200	2 812	27,600	12 519	23,300	10 568
	100	30.48	46.4	108' 1"	32.95	19,300	8 754	15,300	6 939	8,800	3 991	4,800	2 177	23,700	10 750	19,900	9 026
	110	33.53	40.5	97' 6"	29.73	16,700	7 574	13,000	5 896	7,300	3 311	3,700	1 678	20,600	9 344	17,200	7 801
	120	36.58	33.7	84' 4"	25.70	14,500	6 577	11,200	5 080	6,100	2 766	2,700	1 224	18,100	8 210	14,900	6 758
	130	39.62	25.4	66' 8"	20.31	12,700	5 760	9,600	4 354	5,000	2 267	—	—	16,000	7 257	13,100	5 942
	140	42.67	12.8	37' 9"	11.51	11,100	5 034	8,300	3 764	4,100	1 859	—	—	14,200	6 441	11,500	5 216
150' (45.72 m)	30	9.14	79.8	154' 4"	47.03	72,100*	32 704*	72,100*	32 704*	50,200	22 770	31,500*	14 288*	72,100*	32 704*	72,100*	32 704*
	35	10.67	77.9	153' 4"	46.73	70,300*	31 887*	70,300*	31 887*	41,000	18 597	26,900*	12 201*	70,300*	31 887*	70,300*	31 887*
	40	12.19	75.9	152' 2"	46.38	66,800*	30 299*	60,500	27 442	34,400	15 603	23,000*	10 432*	66,800*	30 299*	66,800*	30 299*
	50	15.24	71.9	149' 3"	45.50	51,700	23 450	43,300	19 640	25,700	11 657	17,200*	7 801*	55,400*	25 129*	53,900	24 448
	60	18.29	67.9	145' 7"	44.38	39,900	18 098	33,000	14 968	19,800	8 981	13,100	5 942	47,600*	21 591*	41,400	18 778
	70	21.34	63.7	141' 1"	43.01	32,000	14 514	26,400	11 974	15,800	7 166	10,000	4 535	38,600	17 508	33,200	15 059
	80	24.38	59.3	135' 8"	41.36	26,700	12 110	21,600	9 797	12,800	5 805	7,700	3 492	32,100	14 560	27,500	12 473
	90	27.43	54.8	129' 3"	39.38	22,400	10 160	17,900	8 119	10,500	4 762	6,000	2 721	27,400	12 428	23,100	10 477
	100	30.48	50.0	121' 6"	37.03	19,100	8 663	15,100	6 849	8,600	3 900	4,600	2 086	23,500	10 659	19,700	8 935
	110	33.53	44.8	112' 4"	34.23	16,500	7 484	12,800	5 805	7,100	3 220	3,500	1 587	20,400	9 253	17,000	7 711
	120	36.58	39.0	101' 2"	30.83	14,300	6 486	11,000	4 989	5,900	2 676	2,500	1 133	17,900	8 119	14,800	6 713
130	39.62	32.5	87' 3"	26.60	12,500	5 669	9,400	4 263	4,800	2 177	—	—	15,800	7 166	12,900	5 851	
140	42.67	24.5	68' 10"	20.99	11,000	4 989	8,100	3 674	3,900	1 769	—	—	14,000	6 350	11,300	5 125	
150	45.72	12.4	38' 11"	11.85	9,600	4 354	7,000	3 175	3,100	1 406	—	—	12,500	5 669	9,900	4 490	
160' (48.77 m)	35	10.67	78.6	163' 6"	49.85	62,800*	28 485*	62,800*	28 485*	40,800	18 506	26,600*	12 065*	62,800*	28 485*	62,800*	28 485*
	40	12.19	76.8	162' 5"	49.51	60,200*	27 306*	60,200*	27 306*	34,200	15 512	22,600*	10 251*	60,200*	27 306*	60,200*	27 306*
	50	15.24	73.1	159' 9"	48.69	50,900*	23 087*	43,200	19 595	25,400	11 521	16,800*	7 620*	50,900*	23 087*	50,900*	23 087*
	60	18.29	69.3	156' 4"	47.66	39,700	18 007	32,800	14 877	19,600	8 890	12,900*	5 851*	44,200*	20 048*	41,300	18 733
	70	21.34	65.4	152' 2"	46.39	31,800	14 424	26,300	11 929	15,600	7 076	9,800	4 445	38,400	17 417	33,000	14 968
	80	24.38	61.4	147' 2"	44.86	26,500	12 020	21,400	9 706	12,600	5 715	7,500	3 401	31,900	14 469	27,400	12 428
	90	27.43	57.3	141' 3"	43.06	22,200	10 069	17,700	8 028	10,200	4 626	5,800	2 630	27,200	12 337	23,000	10 432
	100	30.48	52.9	134' 3"	40.93	18,900	8 572	14,900	6 758	8,400	3 810	4,400	1 995	23,300	10 568	19,500	8 845
	110	33.53	48.3	126' 1"	38.43	16,300	7 393	12,600	5 715	6,900	3 129	3,300	1 496	20,300	9 207	16,800	7 620
	120	36.58	43.3	116' 4"	35.46	14,100	6 395	10,800	4 898	5,700	2 585	2,300	1 043	17,700	8 028	14,600	6 622
	130	39.62	37.8	104' 8"	31.89	12,300	5 579	9,300	4 218	4,600	2 086	—	—	15,600	7 076	12,700	5 760
140	42.67	31.4	90' 2"	27.47	10,800	4 898	7,900	3 583	3,700	1 678	—	—	13,800	6 259	11,100	5 034	
150	45.72	23.7	71' 0"	21.64	9,500	4 309	6,800	3 084	2,900	1 315	—	—	12,300	5 579	9,800	4 445	
160	48.77	12.0	39' 11"	12.18	8,300	3 764	5,800	2 630	2,200	997	—	—	10,900	4 944	8,600	3 900	
170' (51.82 m)	35	10.67	79.3	173' 9"	52.95	53,400*	24 221*	53,400*	24 221*	40,600	18 415	26,200*	11 884*	53,400*	24 221*	53,400*	24 221*
	40	12.19	77.6	172' 8"	52.64	50,900*	23 087*	50,900*	23 087*	33,900	15 376	22,300*	10 115*	50,900*	23 087*	50,900*	23 087*
	50	15.24	74.1	170' 2"	51.87	44,500*	20 184*	43,000	19 504	25,200	11 430	16,500*	7 484*	44,500*	20 184*	44,500*	20 184*
	60	18.29	70.6	167' 0"	50.90	38,900*	17 644*	32,600	14 787	19,400	8 799	12,500*	5 669*	38,900*	17 644*	38,900*	17 644*
	70	21.34	67.0	163' 1"	49.72	31,600	14 333	26,100	11 838	15,300	6 939	9,600	4 354	34,100*	15 467*	32,800	14 877
	80	24.38	63.3	158' 6"	48.30	26,300	11 929	21,200	9 616	12,300	5 579	7,300	3 311	29,800*	13 517*	27,200	12 337
	90	27.43	59.4	153' 0"	46.64	22,000	9 979	17,500	7 937	10,000	4 535	5,500	2 494	24,400*	11 067*	22,700	10 296
	100	30.48	55.4	146' 7"	44.69	18,700	8 482	14,700	6 667	8,100	3 674	4,100	1 859	21,800*	9 888*	19,300	8 754
	110	33.53	51.2	139' 2"	42.42	16,100	7 302	12,400	5 624	6,600	2 993	3,000	1 360	19,000*	8 618*	16,600	7 529
	120	36.58	46.7	130' 6"	39.77	13,900	6 304	10,600	4 808	5,400	2 449	2,000	907	17,200*	7 801*	14,300	6 486
	130	39.62	41.9	120' 3"	36.65	12,100	5 488	9,000	4 082	4,400	1 995	—	—	15,400*	6 985*	12,500	5 669
140	42.67	36.6	108' 0"	32.92	10,600	4 808	7,700	3 492	3,500	1 587	—	—	13,600	6 168	10,900	4 944	
150	45.72	30.5	92' 11"	28.32	9,200	4 173	6,600	2 993	2,700	1 224	—	—	12,100	5 488	9,600	4 354	
160	48.77	23.0	73' 1"	22.27	8,100	3 674	5,600	2 540	2,000	907	—	—	10,700	4 853	8,400	3 810	
170	51.82	11.6	41' 0"	12.49	7,100	3 220	4,700	2 131	—	—	—	—	9,500	4 309	7,300	3 311	

①②③ — Refer to Page 258.00

(continued)



HC-238A tapered boom					"A" upper and "A" bumper ^① counterweights								"AB" upper and "A" bumper counterweights					
Length	Radius		Angle	Boom point height ^②		On outriggers				On tires (static)				On outriggers only				
	Feet	meters	Degrees	Feet	meters	Over rear		Over side and 360° swing ^③		Over rear		Over side		Over rear		Over side and 360° swing ^③		
						Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms			
180' (54.86 m)	35	10.67	79.9	183' 11"	56.05	47,600*	21 591*	47,600*	21 591*	40,400	18 325	25,900*	11 748*	47,600*	21 591*	47,600*	21 591*	
	40	12.19	78.3	182' 11"	55.76	45,400*	20 593*	45,400*	20 593*	33,700	15 286	21,900*	9 933*	45,400*	20 593*	45,400*	20 593*	
	50	15.24	75.0	180' 7"	55.03	39,700*	18 007*	39,700*	18 007*	25,000	11 339	16,100*	7 302*	39,700*	18 007*	39,700*	18 007*	
	60	18.29	71.7	177' 7"	54.12	34,400*	15 603*	32,400	14 696	19,100	8 663	12,200*	5 533*	34,400*	15 603*	34,400*	15 603*	
	70	21.34	68.3	173' 11"	53.01	30,100*	13 653*	25,900	11 748	15,100	6 849	9,200*	4 173*	30,100*	13 653*	30,100*	13 653*	
	80	24.38	64.8	169' 7"	51.69	24,500*	11 113*	21,000	9 525	12,100	5 488	7,000*	3 175*	24,500*	11 113*	24,500*	11 113*	
	90	27.43	61.3	164' 6"	50.15	21,400*	9 706*	17,300	7 847	9,700	4 399	5,300*	2 404*	21,400*	9 706*	21,400*	9 706*	
	100	30.48	57.6	158' 7"	48.35	18,500	8 391	14,500	6 577	7,900	3 583	3,900*	1 769*	19,100*	8 663*	19,100*	8 663*	
	110	33.53	53.7	151' 9"	46.26	15,800	7 166	12,200	5 533	6,400	2 902	2,700*	1 224*	17,000*	7 711*	16,400	7 438	
	120	36.58	49.7	143' 11"	43.85	13,700	6 214	10,300	4 672	5,200	2 358	—	—	15,100*	6 849*	14,100	6 395	
	130	39.62	45.3	134' 9"	41.06	11,900	5 397	8,800	3 991	4,100	1 859	—	—	13,400*	6 078*	12,300	5 579	
	140	42.67	40.7	124' 0"	37.80	10,300	4 672	7,500	3 401	3,200	1 451	—	—	12,000*	5 443*	10,700	4 853	
	150	45.72	35.5	111' 3"	33.91	9,000	4 082	6,400	2 902	2,500	1 133	—	—	10,800*	4 898*	9,300	4 218	
	160	48.77	29.6	95' 7"	29.14	7,900	3 583	5,400	2 449	—	—	—	—	9,800*	4 445*	8,200	3 719	
	170	51.82	22.3	75' 1"	22.88	6,900	3 129	4,600	2 086	—	—	—	—	8,900*	4 036*	7,100	3 220	
	180	54.86	11.3	42' 0"	12.80	6,000	2 721	3,800	1 723	—	—	—	—	8,200*	3 719*	6,200	2 812	
	190' (57.91 m)	40	12.19	78.9	193' 2"	58.87	Not applicable				Not applicable				40,300*	18 279*	40,300*	18 279*
		50	15.24	75.8	190' 11"	58.18	Not applicable				Not applicable				35,300*	16 011*	35,300*	16 011*
60		18.29	72.7	188' 1"	57.32	Not applicable				Not applicable				30,800*	13 970*	30,800*	13 970*	
70		21.34	69.5	184' 8"	56.28	Not applicable				Not applicable				24,600*	11 158*	24,600*	11 158*	
80		24.38	66.3	180' 7"	55.04	Not applicable				Not applicable				21,700*	9 842*	21,700*	9 842*	
90		27.43	62.9	175' 10"	53.54	Not applicable				Not applicable				19,000*	8 618*	19,000*	8 618*	
100		30.48	59.5	170' 4"	51.92	Not applicable				Not applicable				16,900*	7 665*	16,900*	7 665*	
110		33.53	55.9	164' 0"	49.99	Not applicable				Not applicable				15,000*	6 803*	15,000*	6 803*	
120		36.58	52.2	156' 9"	47.78	Not applicable				Not applicable				13,100*	5 942*	13,100*	5 942*	
130		39.62	48.3	148' 5"	45.24	Not applicable				Not applicable				11,900*	5 397*	11,900*	5 397*	
140		42.67	44.1	138' 10"	42.32	Not applicable				Not applicable				10,600*	4 808*	10,500	4 762	
150		45.72	39.6	127' 8"	38.91	Not applicable				Not applicable				9,600*	4 354*	9,100	4 127	
160		48.77	34.5	114' 5"	34.87	Not applicable				Not applicable				8,500*	3 855*	8,000	3 628	
170		51.82	28.8	98' 2"	29.93	Not applicable				Not applicable				7,700*	3 492*	6,900	3 129	
180		54.86	21.7	77' 0"	23.47	Not applicable				Not applicable				7,100*	3 220*	6,000	2 721	
190		57.91	11.0	43' 0"	13.10	Not applicable				Not applicable				6,500*	2 948*	5,200	2 358	
200' (60.96 m)		40	12.19	79.5	203' 4"	61.97	Not applicable				Not applicable				36,200*	16 420*	36,200*	16 420*
		50	15.24	76.6	201' 2"	61.32	Not applicable				Not applicable				31,700*	14 378*	31,700*	14 378*
	60	18.29	73.6	198' 6"	60.51	Not applicable				Not applicable				25,200*	11 430*	25,200*	11 430*	
	70	21.34	70.6	195' 3"	59.52	Not applicable				Not applicable				22,100*	10 024*	22,100*	10 024*	
	80	24.38	67.5	191' 5"	58.36	Not applicable				Not applicable				19,300*	8 754*	19,300*	8 754*	
	90	27.43	64.4	187' 0"	57.00	Not applicable				Not applicable				17,000*	7 711*	17,000*	7 711*	
	100	30.48	61.2	181' 10"	55.43	Not applicable				Not applicable				14,900*	6 758*	14,900*	6 758*	
	110	33.53	57.8	175' 11"	53.63	Not applicable				Not applicable				13,300*	6 032*	13,300*	6 032*	
	120	36.58	54.4	169' 3"	51.58	Not applicable				Not applicable				11,800*	5 352*	11,800*	5 352*	
	130	39.62	50.8	161' 7"	49.25	Not applicable				Not applicable				10,500*	4 762*	10,500*	4 762*	
	140	42.67	47.0	152' 10"	46.59	Not applicable				Not applicable				9,400*	4 263*	9,400*	4 263*	
	150	45.72	42.9	142' 10"	43.53	Not applicable				Not applicable				8,500*	3 855*	8,500*	3 855*	
	160	48.77	38.5	131' 2"	39.99	Not applicable				Not applicable				7,700*	3 492*	7,700*	3 492*	
	170	51.82	33.6	117' 6"	35.81	Not applicable				Not applicable				6,900*	3 129*	6,700	3 039	
	180	54.86	28.1	100' 9"	30.70	Not applicable				Not applicable				6,300*	2 857*	5,800	2 630	
	190	57.91	21.2	78' 11"	24.05	Not applicable				Not applicable				5,800*	2 630*	5,000	2 267	
	200	60.96	10.7	43' 11"	13.39	Not applicable				Not applicable				5,300*	2 404*	4,300	1 950	

① ② ③ — Refer to Page 258.00

(continued)

HC-238A tapered boom						"A" upper and "A" bumper counterweights								"AB" upper and "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
210' (64.01 m)	50	15.24	77.2	211' 5"	64.45									25,900*	11 748*	25,900*	11 748*
	60	18.29	74.4	208' 11"	63.68									22,600*	10 251*	22,600*	10 251*
	70	21.34	71.5	205' 10"	62.75									19,800*	8 981*	19,800*	8 981*
	80	24.38	68.6	202' 3"	61.64									17,300*	7 847*	17,300*	7 847*
	90	27.43	65.7	198' 0"	60.36									15,100*	6 849*	15,100*	6 849*
	100	30.48	62.6	193' 2"	58.88									13,500*	6 123*	13,500*	6 123*
	110	33.53	59.5	187' 8"	57.20									11,800*	5 352*	11,800*	5 352*
	120	36.58	56.3	181' 5"	55.29									10,500*	4 762*	10,500*	4 762*
	130	39.62	53.0	174' 3"	53.12									9,300*	4 218*	9,300*	4 218*
	140	42.67	49.5	166' 3"	50.67									8,300*	3 764*	8,300*	3 764*
	150	45.72	45.8	157' 1"	47.89									7,500*	3 401*	7,500*	3 401*
	160	48.77	41.8	146' 8"	44.71									6,800*	3 084*	6,800*	3 084*
	170	51.82	37.5	134' 8"	41.04									6,200*	2 812*	6,200*	2 812*
	180	54.86	32.8	120' 5"	36.71									5,600*	2 540*	5,600*	2 540*
190	57.91	27.4	103' 2"	31.45									5,100*	2 313*	4,800	2 177	
200	60.96	20.7	80' 9"	24.61									4,700*	2 131*	4,000	1 814	
210	64.01	10.5	44' 10"	13.67									4,300*	1 950*	3,400	1 542	
220' (67.06 m)	50	15.24	77.8	221' 8"	67.57									23,400*	10 614*	23,400*	10 614*
	60	18.29	75.1	219' 3"	66.84									20,500*	9 298*	20,500*	9 298*
	70	21.34	72.4	216' 4"	65.95									17,900*	8 119*	17,900*	8 119*
	80	24.38	69.7	212' 11"	64.90									15,700*	7 121*	15,700*	7 121*
	90	27.43	66.8	208' 11"	63.69									13,700*	6 214*	13,700*	6 214*
	100	30.48	64.0	204' 4"	62.29									12,000*	5 443*	12,000*	5 443*
	110	33.53	61.0	199' 2"	60.71									10,700*	4 853*	10,700*	4 853*
	120	36.58	58.0	193' 3"	58.91									9,300*	4 218*	9,300*	4 218*
	130	39.62	54.9	186' 8"	56.89									8,300*	3 764*	8,300*	3 764*
	140	42.67	51.7	179' 2"	54.62									7,500*	3 401*	7,500*	3 401*
	150	45.72	48.2	170' 10"	52.06									6,700*	3 039*	6,700*	3 039*
	160	48.77	44.7	161' 3"	49.16									6,100*	2 766*	6,100*	2 766*
	170	51.82	40.8	150' 6"	45.86									5,500*	2 494*	5,500*	2 494*
	180	54.86	36.7	138' 0"	42.06									5,000*	2 267*	5,000*	2 267*
190	57.91	32.0	123' 4"	37.60									4,500*	2 041*	4,500*	2 041*	
200	60.96	26.7	105' 7"	32.19									4,100*	1 859*	3,800	1 723	
210	64.01	20.2	82' 7"	25.16									3,800*	1 723*	3,200	1 451	
220	67.06	10.2	45' 9"	13.95									3,500*	1 587*	2,600	1 179	
230' (70.10 m)	50	15.24	78.3	231' 11"	70.69									21,200*	9 616*	21,200*	9 616*
	60	18.29	75.8	229' 7"	69.99									18,500*	8 391*	18,500*	8 391*
	70	21.34	73.2	226' 10"	69.14									16,200*	7 348*	16,200*	7 348*
	80	24.38	70.6	223' 7"	68.14									14,200*	6 441*	14,200*	6 441*
	90	27.43	67.9	219' 9"	66.99									12,400*	5 624*	12,400*	5 624*
	100	30.48	65.2	215' 5"	65.67									10,800*	4 898*	10,800*	4 898*
	110	33.53	62.4	210' 6"	64.17									9,500*	4 309*	9,500*	4 309*
	120	36.58	59.6	205' 0"	62.48									8,400*	3 810*	8,400*	3 810*
	130	39.62	56.6	198' 9"	60.58									7,500*	3 401*	7,500*	3 401*
	140	42.67	53.6	191' 9"	58.45									6,700*	3 039*	6,700*	3 039*
	150	45.72	50.4	184' 0"	56.07									6,100*	2 766*	6,100*	2 766*
	160	48.77	47.1	175' 3"	53.40									5,400*	2 449*	5,400*	2 449*
	170	51.82	43.6	165' 4"	50.40									4,900*	2 222*	4,900*	2 222*
	180	54.86	39.9	154' 2"	46.98									4,400*	1 995*	4,400*	1 995*
190	57.91	35.8	141' 3"	43.06									4,000*	1 814*	4,000*	1 814*	
200	60.96	31.3	126' 2"	38.46									3,700*	1 678*	3,500	1 587	
210	64.01	26.1	107' 11"	32.90									3,400*	1 542*	2,900	1 315	
220	67.06	19.7	84' 4"	25.70									3,100*	1 406*	2,300	1 043	
230	70.10	10.0	46' 8"	14.22									2,900*	1 315*	—	—	

Ⓢ — Refer to Page 258.00



Footnotes —

① Applicable only to machines with booms 110' (33.53 m) through 180' (54.86 m) long — without jib. On booms 210' (64.01 m) through 230' (70.10 m) long — with jib — "AB" upper and "AB" bumper counterweights are required.

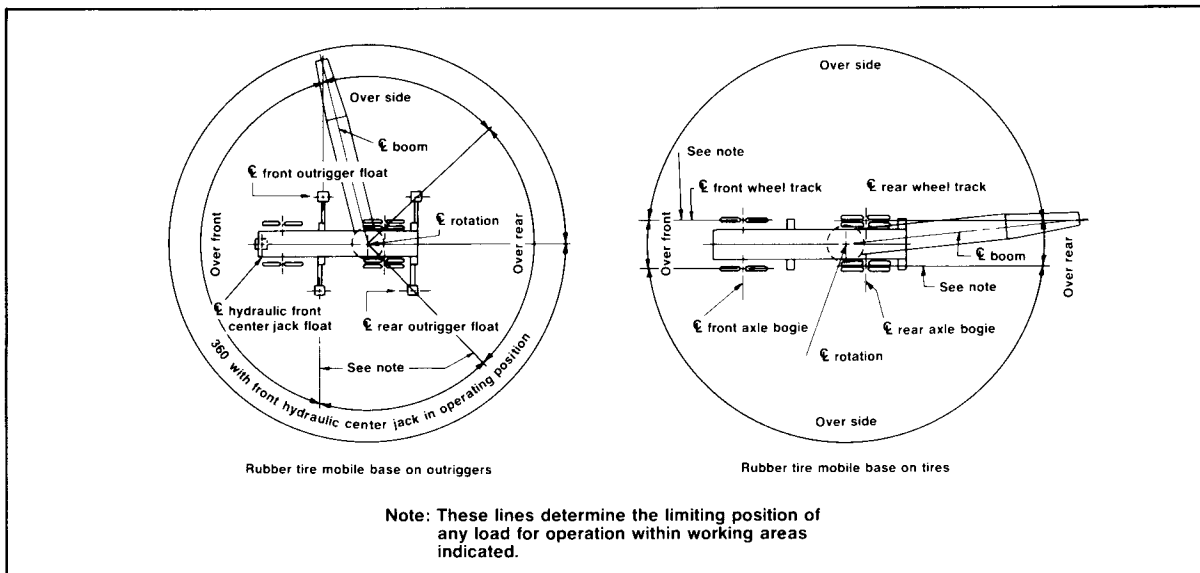
② Measured from center of boom head sheave to ground with machine standing on tires.

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

Notes — lifting crane capacities, tubular boom with tapered top section

1. The capacities included in this chart are the maximum allowable, and are based on machine standing level on firm supporting surface under ideal job conditions. Capacities are based on 85% of minimum tipping loads unless marked with an asterisk (*).
- 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, 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.
3. Boom lengths exceeding 160' (48.77 m) — boom midpoint suspension pendants required.
4. Main boom lengths must not exceed 230' (70.10 m).
5. For lifting 113,110 lbs. (51,438 kg), 4-part load hoist line (1" diameter — 26 mm, Type "N" wire rope) is required. Check parts of line required for all capacities.
6. Jib cannot be used on boom lengths less than 110' (34 mm) or longer than 230' (70.10 m).
7. "AB" bumper counterweight **must not** be used in conjunction with "AB" upper counterweight, except with boom lengths exceeding 200' (60.96 m) plus jib.
8. Machine equipped with "AB" upper counterweight — do not swing over side until outriggers have been set.
9. Telescopic boom live mast, pinned in the extended (30' — 9.14 m) position, required for all tapered tip boom capacities.
10. Capacities apply only to the machine as originally manufactured and normally equipped by FMC Corporation, Cable Crane and Excavator Division.

HC-238A working areas



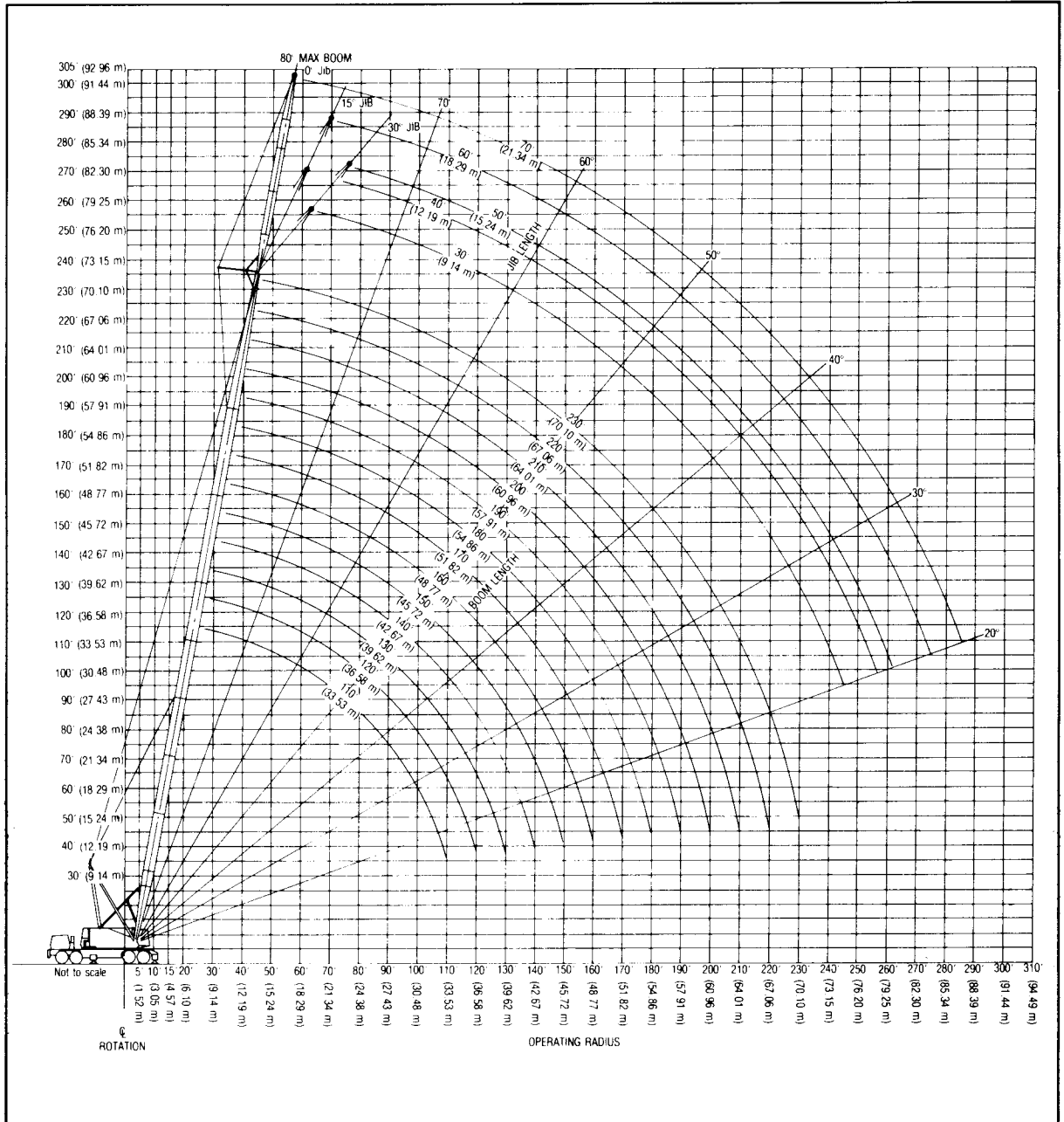
HC-238A boom/jib working ranges — tapered boom

Boom — tubular; 60" (1.52 m) wide, 54" (1.37 m) deep with 45' (13.72 m) long tapered top section, 1 $\frac{3}{8}$ " (35 mm) boom pendants, boom live mast and boom midpoint suspension pendants as required.

Jib — tubular; 36" (0.91 m) deep, 30" (0.76 m) wide.

Counterweights — refer to charts Page 253.00

Mounting — rubber tire mobile base:
FMC, 8 x 4 drive, 270" (6.86 m) wheelbase,
11' 10" (3.61 m) wide.



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





Link-Belt® HC-238A jib capacities — tapered boom (U.S. units)
 Refer to Notes page 265.31

Counterweights — Upper counterweight "AB" — 47,000 lbs. plus bumper counterweight "A" — 11,400 lbs.

Jib — tubular: 30" wide, 36" deep.

Mounting — rubber tire mobile base: FMC, 8 x 4 drive, 270" wheelbase, 11' 10" wide.

Boom — tubular: 60" wide, 54" deep with 45' long tapered top section, 1 3/8" 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														
		30' jib			40' jib			50' jib			60' jib			70' jib		
		Jib angles to boom (jib offset degrees)														
		0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
		Pounds			Pounds			Pounds			Pounds			Pounds		
110	30	29,600*			25,500*			21,700*			19,600*			18,600*		
	35	29,100*			25,000*			21,200*			19,100*			17,700*		
	40	28,500*			24,400*			20,300*			18,200*			17,300*		
	50	27,400*			23,400*	21,200*		19,300*	16,800*		15,100*			16,900*	13,800*	
	60	26,200*		17,500*	22,300*	19,800*	14,500*	18,300*	15,200*	10,800*	17,300*	13,400*		16,900*	13,800*	
	70	25,000*		15,500*	20,900*	18,300*	13,600*	18,100*	13,600*	9,800*	16,300*	11,700*	7,600*	15,500*	12,200*	7,300*
	80	23,700*		14,700*	19,400*	16,800*	12,400*	16,500*	12,100*	8,700*	14,800*	10,000*	6,800*	13,900*	10,500*	6,600*
	90	22,400*		14,100*	17,800*	15,400*	11,600*	14,800*	11,000*	8,200*	13,000*	8,600*	6,000*	12,500*	8,800*	5,900*
	100	20,300*			16,200*	14,000*	11,100*	13,000*	9,900*	7,700*	11,200*	7,800*	5,700*	11,400*	7,600*	5,100*
	110	17,700*			14,500*	11,500*	10,500*	11,500*	8,700*	7,100*	9,200*	7,000*	5,400*	9,900*	6,800*	4,700*
	120	15,500*			12,700*	10,900*		10,300*	8,100*		8,200*	6,100*	5,100*	8,000*	6,000*	4,400*
	130	13,600			11,500*			8,900*	7,500*		7,200*	5,700*		7,100*	5,100*	4,100*
	140				10,600*			8,000*			6,100*	5,300*		6,200*	4,700*	
	150							7,200*			5,600*			5,100*	4,600*	
	160										5,100*			4,100*		
	170													4,100*		
	120	30	29,800*			25,200*			21,900*			19,700*			18,800*	
35		29,300*			24,700*			21,500*			19,300*			18,000*		
40		28,800*			24,200*			20,500*			18,400*			17,100*		
50		27,700*			23,700*	20,100*		19,600*	15,700*	11,000*	17,600*	13,800*		18,000*	14,100*	
60		26,600*		17,700*	22,700*	18,800*	6,622*	19,600*	15,700*	10,000*	16,700*	12,200*	7,800*	15,800*	12,600*	7,500*
70		25,500*		15,800*	21,600*	17,400*	5,806*	17,200*	12,600*	9,100*	15,600*	10,600*	7,100*	14,100*	11,000*	6,800*
80		24,400*		15,000*	20,100*	16,000*	5,352*	15,600*	11,500*	8,300*	13,900*	8,900*	6,300*	12,800*	9,500*	6,100*
90		23,100*		14,400*	18,700*	14,700*	5,125*	14,000*	11,500*	7,900*	12,200*	8,200*	5,800*	11,600*	7,900*	5,400*
100		20,100*		13,900*	17,100*	13,300*	4,898*	12,300*	9,400*	7,400*	10,400*	7,400*	5,500*	10,600*	7,200*	4,800*
110		17,500*			15,600*	11,900*		11,200*	8,400*		8,700*	6,600*		9,200*	6,400*	4,600*
120		15,300*			14,100*	11,300*		9,900*	7,900*		7,900*	5,900*		7,700*	6,900*	4,300*
130		13,400*			12,300*	10,700*		8,600*	7,300*		7,000*	5,600*		6,900*	4,900*	4,000*
140		11,800			11,400*			7,900*			5,900*	5,200*		5,900*	4,600*	4,000*
150					10,500*			7,100*			5,500*			4,900*	4,600*	
160											5,100*			4,900*	4,200*	
170														4,600*		
180														4,100*		
130	35	29,500*			25,400*			22,100*			19,500*			18,900*		
	40	29,000*			24,900*			21,600*			18,700*			18,200*		
	50	28,000*			24,000*			20,800*	17,400*		17,800*			17,400*		
	60	27,000*			23,000*	19,100*		19,900*	14,600*	10,300*	17,000*	12,700*		15,900*	13,000*	
	70	26,000*		18,600*	22,100*	17,800*	13,900*	17,800*	13,200*	9,400*	16,100*	11,200*	7,900*	14,300*	11,500*	6,900*
	80	24,900*		16,900*	20,800*	16,500*	12,000*	17,900*	11,900*	8,500*	14,600*	9,600*	6,600*	12,900*	10,000*	6,300*
	90	23,300*		15,300*	19,400*	15,300*	11,500*	16,400*	11,000*	8,100*	13,100*	8,500*	5,900*	11,800*	8,500*	5,600*
	100	19,900*		14,100*	18,000*	14,100*	11,100*	14,900*	10,000*	7,700*	11,400*	7,800*	5,700*	10,700*	7,500*	4,900*
	110	17,300*		13,400	16,500*	12,700*	10,600*	13,300*	9,000*	7,200*	9,700*	7,100*	5,400*	9,800*	6,800*	4,700*
	120	15,100			15,100*			11,900*	8,300*		8,500*	6,300*	5,100*	8,500*	6,100*	4,400*
	130	13,200			13,400			10,800*	7,800*		7,600*	5,800*		7,400*	5,300*	4,100*
	140	11,600			11,800			9,600*	7,200*		6,700*	5,500*		6,600*	4,800*	
	150	10,200			10,400			8,500*			5,900*	5,100*		5,700*	4,500*	
	160				9,200			7,800*			5,500*			4,900*	4,500*	
	170							7,000*			5,000*			4,900*	4,200*	
	180													4,500*		
	190													4,100*		

(continued)

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TRUCK CRANES

LINK-BELT (FMC)

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HC-238A jib capacities — tapered boom (U.S. units)

Refer to Notes page 265.31

Boom length	Load radius	Capacities on outriggers — over side and 360° swing														
		30' jib			40' jib			50' jib			60' jib			70' jib		
		Jib angles to boom (jib offset degrees)														
		0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
Feet	Pounds			Pounds			Pounds			Pounds			Pounds			
140	35	29,700*			25,500*											
	40	29,200*			25,100*											
	50	28,300*			24,200*											
	60	27,400*	24,900*	18,200*	23,300*	20,600*			21,800*	17,700*						
	70	26,400*	23,000*	16,300*	22,400*	18,300*	14,100*		20,200*	16,400*	11,300*			14,500*		
	80	25,400*	22,000*	15,600*	21,300*	17,000*	12,400*		18,500*	13,700*	9,600*			11,600*	8,100*	
	90	23,100	20,400*	14,900*	20,100*	15,900*	11,700*		16,900*	12,300*	8,700*			10,200*	6,800*	7,100*
	100	19,700	18,800*	14,400*	18,800*	14,700*	11,300*		15,600*	11,400*	8,300*			8,800*	6,100*	5,800*
	110	17,100	17,100*	13,900*	17,300	13,500*	10,800*		14,200*	10,500*	7,900*			8,200*	5,800*	5,200*
	120	14,900	15,100		15,000	12,200*	10,300*		12,700*	9,600*	7,400*			7,500*	5,500*	4,800*
	130	13,000	13,200		13,200	11,500*			11,500*	8,600*	7,000*			9,000*	5,300*	4,500*
	140	11,400	11,600		11,600	11,000*			10,500*	8,100*				6,700*	5,000*	4,000*
	150	10,000			10,200	10,400*			9,300*	7,600*				6,000*	5,700*	4,000*
	160	8,900			9,000				8,300*	7,100*				5,700*	5,400*	3,500*
	170				8,000				7,700*					5,800*	5,000*	
	180								7,000*					5,400*	5,000*	
190													5,800*	5,000*		
200													5,400*	5,000*		
150	35	29,800*			25,200*											
	40	29,400*			24,400*											
	50	28,500*			23,600*											
	60	27,700*	25,100*	19,000*	22,700*	20,900*			21,900*	16,600*						
	70	26,800*	24,200*	17,400*	22,700*	19,800*	14,200*		20,400*	15,400*	10,700*			14,800*		
	80	25,800*	22,400*	15,800*	21,800*	17,500*	12,800*		18,800*	14,100*	9,900*			12,100*	8,200*	7,200*
	90	22,900	21,100*	15,200*	20,700*	16,300*	11,900*		17,000*	12,800*	9,000*			10,700*	7,000*	6,600*
	100	19,400	19,600*	14,600*	19,400*	15,200*	11,500*		15,700*	11,800*	8,400*			9,300*	6,300*	6,000*
	110	16,900	17,200*	14,200*	17,000	14,100*	11,000*		14,600*	11,000*	8,000*			8,000*	5,900*	5,400*
	120	14,600	14,900*	13,700*	14,800	12,900*	10,400*		13,500*	10,100*	7,700*			7,800*	5,600*	4,900*
	130	12,800	13,000		12,900	11,900*			12,200*	9,200*	7,000*			7,100*	5,400*	4,200*
	140	11,200	11,400		11,300	11,400*			11,200*	8,400*	8,700*			6,400*	4,700*	3,700*
	150	9,800	10,000		10,000	10,200			10,100	8,000*	8,000*			5,900*	5,500*	3,200*
	160	8,600			8,800	9,000			8,900	7,500*	7,200*			5,600*	5,300*	2,900*
	170	7,600			7,800				7,800	7,000*	6,300*			5,300*	5,000*	
	180				6,800				7,000		5,800*			5,000*	5,000*	
190										5,400*			5,000*	5,000*		
200										5,400*			5,000*	5,000*		
210										5,400*			5,000*	5,000*		
160	40	29,600*			25,400*											
	50	28,800*			24,600*											
	60	27,900*	25,300*	19,100*	23,800*	21,100*			22,100*	16,900*						
	70	27,100*	24,400*	17,600*	23,000*	20,000*	14,400*		20,600*	15,700*	10,800*			15,000*		
	80	26,200*	23,600*	16,700*	22,200*	19,000*	13,700*		19,900*	15,700*	10,100*			13,800*	8,300*	7,300*
	90	22,600	22,700*	16,000*	22,200*	17,900*	13,100*		19,100*	14,500*	9,300*			12,500*	7,700*	6,800*
	100	19,200	22,700*	16,000*	22,200*	17,900*	13,100*		19,100*	14,500*	9,300*			12,500*	7,700*	6,800*
	110	16,700	22,700*	16,000*	22,200*	17,900*	13,100*		19,100*	14,500*	9,300*			12,500*	7,700*	6,800*
	120	14,400	22,700*	16,000*	22,200*	17,900*	13,100*		19,100*	14,500*	9,300*			12,500*	7,700*	6,800*
	130	12,500	22,700*	16,000*	22,200*	17,900*	13,100*		19,100*	14,500*	9,300*			12,500*	7,700*	6,800*
	140	11,000	22,700*	16,000*	22,200*	17,900*	13,100*		19,100*	14,500*	9,300*			12,500*	7,700*	6,800*
	150	9,600	22,700*	16,000*	22,200*	17,900*	13,100*		19,100*	14,500*	9,300*			12,500*	7,700*	6,800*
	160	8,400	22,700*	16,000*	22,200*	17,900*	13,100*		19,100*	14,500*	9,300*			12,500*	7,700*	6,800*
	170	7,400	22,700*	16,000*	22,200*	17,900*	13,100*		19,100*	14,500*	9,300*			12,500*	7,700*	6,800*
	180	6,500	22,700*	16,000*	22,200*	17,900*	13,100*		19,100*	14,500*	9,300*			12,500*	7,700*	6,800*
	190		22,700*	16,000*	22,200*	17,900*	13,100*		19,100*	14,500*	9,300*			12,500*	7,700*	6,800*
200		22,700*	16,000*	22,200*	17,900*	13,100*		19,100*	14,500*	9,300*			12,500*	7,700*	6,800*	
210		22,700*	16,000*	22,200*	17,900*	13,100*		19,100*	14,500*	9,300*			12,500*	7,700*	6,800*	
220		22,700*	16,000*	22,200*	17,900*	13,100*		19,100*	14,500*	9,300*			12,500*	7,700*	6,800*	

(continued)



HC-238A jib capacities — tapered boom (U.S. units)

Refer to Notes page 265.31

		Capacities on outriggers — over side and 360° swing																	
		30' jib			40' jib			50' jib			60' jib			70' jib					
		Jib angles to boom (jib offset degrees)																	
		0°			15°			30°			0°			15°			30°		
Boom length	Load radius	Pounds			Pounds			Pounds			Pounds			Pounds					
Feet	Feet	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°			
170	40	29,700*			25,500*			21,500*			19,300*			18,800*					
	50	28,900*	25,400*		24,800*	21,300*		20,800*	17,200*		18,600*	15,300*		17,800*					
	60	28,200*	24,600*	17,700*	24,000*	20,300*	14,500*	20,100*	16,000*	11,000*	18,000*	14,100*		17,000*	13,500*				
	70	27,400*	23,800*	16,900*	23,300*	19,300*	13,800*	20,100*	16,000*	11,000*	18,000*	14,100*		17,000*	13,500*	7,400*			
	80	25,500*	23,000*	16,200*	22,500*	18,200*	13,300*	19,400*	14,900*	10,300*	16,300*	12,800*	7,800*	14,600*	12,400*	7,400*			
	90	22,400*	21,100*	15,600*	20,700*	17,200*	12,400*	17,000*	13,700*	9,500*	14,900*	11,600*	7,300*	13,200*	11,400*	6,900*			
	100	18,900*	18,800*	14,700*	17,500*	15,900*	11,800*	15,700*	12,500*	8,800*	13,600*	10,300*	6,700*	12,000*	10,400*	6,000*			
	110	16,400*	15,800*	12,800*	15,800*	13,900*	10,200*	14,500*	11,700*	8,000*	12,600*	9,000*	6,200*	11,000*	9,000*	5,200*			
	120	14,200*	14,100*	11,300*	14,100*	12,400*	8,900*	13,000*	10,700*	6,900*	11,600*	8,400*	5,500*	10,100*	7,900*	4,400*			
	130	12,300*	12,600*	10,000*	12,400*	11,000*	7,700*	11,500*	9,500*	6,100*	10,400*	7,800*	4,800*	9,300*	7,000*	3,900*			
	140	10,700*	11,000*		10,800*	9,800*		10,400*	8,500*	5,400*	9,400*	7,100*	4,200*	8,400*	6,100*	3,400*			
	150	9,300*	9,600*		9,500*	8,900*		9,300*	7,600*		8,400*	6,400*	3,600*	7,500*	5,500*	2,900*			
	160	8,200*	8,400*		8,300*	8,000*		8,400*	6,800*		7,700*	5,800*	3,200*	6,900*	4,800*	2,600*			
	170	7,100*			7,300*	7,300*		7,400*	6,100*		7,000*	5,200*		6,200*	4,400*	2,300*			
	180	6,200*			6,300*			6,500*	5,500*		6,300*	4,700*		5,500*	4,000*				
190	5,400*			5,500*			5,700*			5,700*	4,300*		5,000*	3,600*					
200							4,900*			5,000*			4,700*	3,200*					
210										4,600*			4,300*						
220										4,400*			3,800*						
230													3,800*						
240																			
180	40	29,900*			24,900*			21,600*			19,500*			18,900*					
	50	29,100*	25,600*		24,200*	20,500*		21,000*	17,400*		18,800*	15,500*		17,600*					
	60	28,400*	24,800*	17,900*	23,500*	19,500*	14,600*	20,300*	16,300*	11,100*	18,100*	14,300*		15,900*	13,400*				
	70	25,300*	24,100*	17,100*	23,500*	19,500*	14,000*	20,300*	16,300*	11,100*	18,100*	14,300*		15,900*	13,400*	7,500*			
	80	22,300*	21,600*	16,400*	20,700*	18,500*	13,400*	19,100*	15,200*	10,400*	16,100*	13,100*	7,900*	14,500*	12,400*	7,500*			
	90	19,800*	18,700*	15,300*	17,600*	16,000*	12,400*	16,200*	14,100*	9,700*	14,800*	12,000*	7,400*	13,200*	10,900*	6,700*			
	100	16,900*	15,800*	13,300*	15,500*	14,100*	10,800*	14,300*	12,400*	8,800*	13,200*	10,700*	6,900*	12,000*	9,600*	5,700*			
	110	14,900*	14,000*	11,600*	14,000*	12,600*	9,400*	11,800*	12,700*	11,000*	7,500*	9,500*	6,000*	10,600*	8,300*	4,800*			
	120	13,500*	12,500*	10,200*	12,500*	11,100*	8,200*	11,400*	9,600*	6,600*	10,400*	8,400*	5,200*	9,500*	7,300*	4,100*			
	130	12,000*	11,200*	9,000*	11,200*	9,800*	7,200*	10,300*	8,500*	5,700*	9,400*	7,400*	4,500*	8,400*	6,400*	3,600*			
	140	10,500*	10,100*		9,900*	8,700*	6,300*	9,100*	7,600*	4,900*	8,300*	6,600*	3,900*	7,500*	5,600*	3,100*			
	150	9,100*	9,100*		8,900*	7,900*		8,300*	6,800*	4,400*	7,400*	5,800*	3,500*	6,700*	5,100*	2,700*			
	160	7,900*	8,100*		8,000*	7,000*		7,400*	6,100*		6,800*	5,200*	3,000*	6,100*	4,400*	2,400*			
	170	6,900*	7,100*		7,000*	6,300*		6,700*	5,500*		6,000*	4,700*		5,500*	4,000*	2,100*			
	180	6,000*			6,100*	5,700*		6,100*	4,900*		5,500*	4,200*		5,000*	3,600*				
190	5,200*			5,300*			5,400*			5,000*	3,800*		4,500*	3,200*					
200	4,400*			4,600*			4,700*			4,600*	3,500*		4,100*	3,000*					
210							4,000*			4,100*			3,700*	2,700*					
220										3,500*			3,500*						
230										3,500*			3,000*						
240													3,000*						
190	50	28,900*	25,700*	18,100*	25,100*	20,700*		21,800*	17,600*		19,600*			17,300*					
	60	25,700*	25,000*		23,900*	20,700*		21,100*	18,300*		19,000*			15,500*					
	70	22,500*	22,100*	17,300*	21,100*	19,800*		18,300*	16,500*		18,000*	14,600*		13,400*					
	80	20,000*	19,300*	15,800*	17,500*	16,300*	13,200*	16,300*	14,800*	10,600*	15,000*	13,400*	8,000*	13,800*	11,700*				
	90	16,600*	15,900*	13,700*	15,600*	14,400*	11,400*	14,400*	13,100*	9,500*	13,200*	11,500*	7,600*	12,200*	10,100*	6,400*			
	100	14,900*	14,100*	12,100*	13,800*	12,700*	9,900*	12,900*	11,300*	8,000*	11,800*	10,000*	6,600*	10,700*	8,900*	5,400*			
	110	13,100*	12,500*	10,600*	12,200*	11,100*	8,600*	11,400*	9,900*	7,000*	10,500*	8,700*	5,700*	9,500*	7,700*	4,600*			
	120	11,900*	11,200*	9,400*	10,900*	10,000*	7,500*	10,100*	8,800*	6,000*	9,300*	7,700*	4,900*	8,400*	6,700*	4,000*			
	130	10,700*	9,800*	8,300*	9,800*	8,800*	6,700*	9,100*	7,800*	5,300*	8,200*	6,800*	4,200*	7,500*	5,900*	3,400*			
	140	9,600*	8,800*	7,300*	8,800*	7,800*	5,800*	8,100*	6,900*	4,600*	7,500*	6,000*	3,600*	6,700*	5,100*	2,900*			
	150	8,600*	8,000*		8,000*	6,900*	5,100*	7,300*	6,200*	4,000*	6,600*	5,300*	3,200*	6,100*	4,600*	2,500*			
	160	7,700*	7,100*		7,200*	6,300*		6,600*	5,500*		5,900*	4,700*	2,900*	5,400*	4,000*	2,300*			
	170	6,600*	6,500*		6,500*	5,700*		6,000*	4,900*		5,300*	4,300*	2,500*	4,800*	3,600*	2,000*			
	180	5,700*	5,900*		5,900*	5,100*		5,400*	4,400*		4,800*	3,800*		4,400*	3,200*				
	190	4,900*			5,000*	4,700*		4,900*	4,000*		4,400*	3,400*		4,000*	2,900*				
200	4,200*			4,300*			4,400*	3,700*		4,000*	3,100*		3,600*	2,700*					
210				3,800*			3,800*			3,700*	2,800*		3,300*	2,400*					
220				3,700*			3,200*			3,300*			3,000*	2,200*					
230										2,700*			2,800*						
240													2,300*						

(continued)

HC-238A jib capacities — tapered boom (U.S. units)

Refer to Notes page 265.31

		Capacities on outriggers — over side and 360° swing														
		30° jib			40° jib			50° jib			60° jib			70° jib		
		Jib angles to boom (jib offset degrees)														
Boom length	Load radius	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
Feet	Feet	Pounds			Pounds			Pounds			Pounds			Pounds		
200	50	26,000*			24,500*			21,900*			19,700*			15,800*		
	60	23,000*	22,400*	18,700*	21,500*	20,700*		20,000*	17,700*		17,200*			14,100*	12,500*	
	70	20,000*	19,600*	16,500*	17,500*	17,000*	14,200*	16,500*	15,500*	11,300*	15,400*	14,100*		8,100*	12,500*	10,800*
	80	16,800*	16,200*	14,400*	15,600*	14,900*	12,300*	14,600*	13,600*	10,300*	13,600*	12,100*		7,300*	11,000*	9,300*
	90	14,800*	14,400*	12,500*	13,800*	12,900*	10,600*	13,000*	11,800*	8,900*	12,000*	10,500*		6,100*	9,700*	8,100*
	100	13,200*	12,700*	10,800*	12,400*	11,400*	9,000*	11,400*	10,300*	7,500*	10,600*	9,100*		5,300*	8,000*	7,000*
	110	11,700*	11,200*	9,500*	11,000*	10,000*	7,900*	10,100*	9,000*	6,500*	9,300*	8,000*		4,600*	7,600*	6,100*
	120	10,400*	9,900*	8,300*	9,600*	8,900*	6,900*	9,000*	7,900*	5,700*	8,200*	7,000*		3,900*	6,700*	5,400*
	130	9,300*	8,900*	7,400*	8,700*	7,900*	6,000*	8,000*	7,000*	4,900*	7,400*	6,100*		3,400*	6,000*	4,700*
	140	8,400*	7,800*	6,600*	7,800*	7,000*	5,300*	7,200*	6,200*	4,300*	6,600*	5,400*		3,000*	5,300*	4,200*
	150	7,500*	7,000*	5,900*	7,000*	6,200*	4,700*	6,400*	5,500*	3,800*	5,900*	4,700*		2,600*	4,800*	3,700*
	160	6,800*	6,300*		6,300*	5,600*		6,300*	5,800*	3,300*	5,300*	4,200*		2,300*	4,300*	3,200*
	170	6,200*	5,800*		5,700*	5,000*		5,200*	4,400*		4,700*	3,800*		2,000*	3,900*	2,900*
	180	5,500*	5,200*		5,100*	4,500*		4,700*	4,000*		4,200*	3,400*		1,900*	3,500*	2,600*
190	4,700*	4,800*		4,700*	4,100*		4,200*	3,600*		3,900*	3,100*		1,800*	3,100*	2,400*	
200	3,900*			4,100*	3,800*		3,900*	3,300*		3,500*	2,800*		1,700*	2,900*	2,100*	
210	3,300*			3,400*			3,500*	2,900*		3,200*	2,500*		1,600*	2,600*	2,000*	
220				2,800*			2,900*	2,400*		2,900*	2,300*		1,500*	2,400*	1,900*	
230							2,400*			2,500*	2,000*		1,400*	2,000*		
240										2,000*			1,300*	2,000*		
210 (A)	50	23,300*			21,800*			20,400*			15,700*			14,500*		
	60	20,500*	20,400*	17,200*	18,100*	17,500*		16,900*	14,100*		13,900*	12,800*		11,500*		
	70	16,900*	16,600*	14,900*	16,000*	15,300*	13,100*	15,000*	12,100*	9,600*	12,200*	11,100*		8,000*	12,700*	11,300*
	80	15,000*	14,600*	13,000*	14,000*	13,300*	11,300*	13,200*	10,600*	8,200*	10,800*	9,600*		6,800*	10,000*	8,600*
	90	13,300*	12,800*	11,300*	12,500*	11,700*	9,700*	11,700*	10,600*	8,200*	10,800*	9,600*		5,700*	8,300*	7,400*
	100	11,800*	11,300*	9,800*	11,000*	10,300*	8,300*	10,200*	9,200*	6,900*	9,500*	8,300*		5,000*	7,200*	6,400*
	110	10,500*	10,000*	8,700*	9,700*	9,000*	7,200*	9,000*	8,100*	6,000*	8,400*	7,200*		4,200*	6,300*	5,600*
	120	9,300*	8,800*	7,500*	8,600*	7,900*	6,300*	8,000*	7,100*	5,200*	7,400*	6,300*		3,600*	5,500*	4,900*
	130	8,200*	7,800*	6,600*	7,700*	7,000*	5,400*	7,100*	6,300*	4,500*	6,500*	5,500*		3,200*	5,300*	4,300*
	140	7,400*	7,000*	5,900*	6,800*	6,200*	4,800*	6,400*	5,500*	3,900*	5,800*	4,800*		2,800*	4,700*	4,300*
	150	6,600*	6,300*	5,300*	6,100*	5,600*	4,300*	5,600*	4,900*	3,400*	5,200*	4,300*		2,400*	4,200*	3,800*
	160	6,000*	5,600*		5,500*	4,900*	3,800*	5,100*	4,400*	3,000*	4,600*	3,800*		2,100*	4,200*	3,400*
	170	5,400*	5,000*		5,000*	4,400*		4,600*	3,900*	2,700*	4,200*	3,400*		1,900*	3,800*	3,000*
	180	5,000*	4,600*		4,500*	4,000*		4,100*	3,500*	2,500*	3,800*	3,000*		1,800*	3,400*	2,600*
190	4,400*	4,200*		4,100*	3,600*		4,100*	3,200*	2,300*	3,400*	2,700*		1,700*	3,100*	2,400*	
200	3,700*	3,800*		3,800*	3,400*		3,700*	3,000*	2,200*	3,000*	2,500*		1,600*	2,800*	2,100*	
210	3,000*			3,200*			3,100*	2,600*		2,800*	2,200*		1,500*	2,500*	1,900*	
220	2,400*			2,600*			2,700*	2,100*		2,500*	2,000*		1,400*	2,300*	1,800*	
230				2,000*			2,100*			2,200*	1,700*		1,300*	2,100*		
220 (A)	50	21,100*			18,300*			15,200*			14,200*			13,200*		
	60	17,200*	16,900*		16,300*	15,800*		15,200*	12,700*		12,600*	11,800*		11,600*		
	70	15,300*	15,000*	13,500*	14,300*	13,900*	11,900*	13,500*	11,100*	8,800*	11,000*	10,100*		9,200*		
	80	13,400*	13,000*	11,800*	12,600*	12,100*	10,300*	11,900*	9,600*	7,600*	9,600*	8,700*		7,500*	10,200*	9,000*
	90	11,900*	11,400*	10,300*	11,100*	10,500*	8,900*	10,500*	8,400*	6,400*	8,500*	7,500*		6,400*	9,000*	7,800*
	100	10,500*	10,000*	8,900*	9,900*	9,300*	7,600*	9,200*	7,400*	5,500*	7,500*	6,600*		5,300*	7,900*	6,800*
	110	9,400*	8,900*	7,800*	8,700*	8,100*	6,500*	8,000*	6,300*	4,800*	6,500*	5,700*		4,600*	6,900*	5,900*
	120	8,300*	7,800*	6,800*	7,600*	7,100*	5,800*	7,100*	5,600*	4,100*	5,800*	5,000*		3,900*	6,100*	5,100*
	130	7,300*	6,900*	6,000*	6,800*	6,200*	5,000*	6,300*	5,000*	3,600*	5,100*	4,400*		3,400*	5,400*	4,500*
	140	6,500*	6,200*	5,300*	6,000*	5,500*	4,400*	5,600*	4,400*	3,100*	4,600*	3,900*		3,000*	4,800*	3,900*
	150	5,900*	5,600*	4,700*	5,400*	4,900*	3,900*	5,000*	4,400*	2,800*	4,400*	3,700*		2,500*	4,200*	3,400*
	160	5,300*	5,000*	4,200*	4,800*	4,400*	3,500*	4,400*	3,900*	2,800*	4,100*	3,500*		2,200*	3,800*	3,000*
	170	4,800*	4,500*		4,400*	4,000*		4,000*	3,500*	2,400*	3,600*	3,100*		1,900*	3,300*	2,700*
	180	4,300*	4,100*		4,000*	3,500*		3,600*	3,100*	2,200*	3,300*	2,700*		1,800*	3,000*	2,400*
190	4,000*	3,700*		3,600*	3,200*		3,300*	2,800*	2,000*	2,900*	2,400*		1,700*	2,600*	2,100*	
200	3,400*	3,400*		3,300*	2,900*		3,000*	2,600*	1,900*	2,700*	2,200*		1,600*	2,400*	1,900*	
210	2,800*	2,900*		2,900*	2,700*		2,700*	2,300*	1,800*	2,500*	2,000*		1,500*	2,200*	1,700*	
220	2,200*			2,300*			2,400*	2,100*		2,200*	1,900*		1,400*	2,000*		
230										1,900*			1,300*	1,900*		

(continued)



HC-238A jib capacities — tapered boom (U.S. units)

Refer to Notes page 265.31

Boom length	Load radius	Capacities on outriggers — over side and 360° swing														
		30' jib			40' jib			50' jib			60' jib			70' jib		
		Jib angles to boom (jib offset degrees)														
		0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
Feet	Feet	Pounds			Pounds			Pounds			Pounds			Pounds		
50		17,600*														
60		15,500*	15,400*		14,700*	14,400*		13,900*			13,000*			12,000*		
70		13,800*	13,500*	12,400*	12,900*	12,500*	11,000*	12,200*	11,600*	10,000*	11,400*	10,600*	9,900*	10,600*	9,300*	8,300*
80		12,100*	11,800*	10,700*	11,400*	10,900*	9,400*	10,700*	10,000*	8,200*	9,900*	9,200*	8,700*	8,000*	8,200*	7,200*
90		10,600*	10,300*	9,300*	10,000*	9,600*	8,100*	9,300*	8,700*	7,000*	8,700*	8,000*	7,600*	6,800*	6,200*	5,100*
100		9,400*	9,100*	8,100*	8,700*	8,300*	6,900*	8,200*	7,500*	6,000*	7,600*	6,800*	6,400*	5,000*	7,100*	6,100*
110		8,200*	7,900*	7,000*	7,700*	7,200*	6,100*	7,200*	6,600*	5,100*	6,700*	6,000*	5,600*	4,300*	6,200*	5,300*
120		7,400*	7,000*	6,200*	6,800*	6,300*	5,200*	6,300*	5,800*	4,400*	5,800*	5,200*	4,800*	3,600*	5,400*	4,600*
130		6,500*	6,200*	5,400*	6,000*	5,600*	4,600*	5,600*	5,000*	3,800*	5,100*	4,500*	4,200*	3,100*	4,800*	4,000*
140		5,800*	5,500*	4,800*	5,400*	4,900*	4,000*	5,000*	4,400*	3,300*	4,500*	3,900*	3,600*	2,700*	4,200*	3,500*
150		5,300*	4,900*	4,200*	4,800*	4,400*	3,500*	4,400*	3,900*	2,900*	4,000*	3,500*	3,200*	2,300*	3,700*	3,000*
160		4,700*	4,500*	3,800*	4,300*	3,900*	3,100*	3,900*	3,400*	2,500*	3,600*	3,000*	2,800*	2,000*	3,000*	2,400*
170		4,200*	4,000*		3,900*	3,500*	2,700*	3,500*	3,100*	2,200*	3,200*	2,700*	2,400*	1,800*	2,700*	2,200*
180		3,800*	3,600*		3,500*	3,200*		3,200*	2,800*	2,000*	2,900*	2,400*	2,100*	1,600*	2,400*	1,900*
190		3,500*	3,300*		3,200*	2,900*		2,900*	2,500*		2,600*	2,100*	1,800*		2,100*	1,600*
200		3,200*	3,000*		2,900*	2,600*		2,600*	2,300*		2,400*	1,900*	1,600*		1,900*	1,400*
210		2,500*	2,700*		2,600*	2,400*		2,400*	2,000*		2,100*	1,600*	1,300*		1,600*	1,100*
220		1,900*			2,000*	2,200*		2,100*	1,900*		1,900*	1,400*	1,100*		1,400*	1,000*

Ⓐ Boom length, when equipped with jib, requires 47,000 lbs. "AB" upper counterweight and 28,700 lbs. "AB" bumper counterweight to enable machine to lift boom/jib combination off ground unassisted.

Boom — tubular: 60" wide, 54" deep with 45' long tapered top section, 1 3/8" diameter boom pendants, boom live mast, and boom midpoint suspension pendants as required.

Jib — tubular: 30" wide, 36" deep.

Counterweights — Upper counterweight "AB" — 47,000 lbs. plus bumper counterweight "A" — 11,400 lbs.

Mounting — rubber tire mobile base: FMC, 8 x 4 drive, 270" wheelbase, 11' 10" wide.

Link-Belt® HC-238A jib capacities — tapered boom (U.S. units) Refer to Notes page 265.31

Boom length	Load radius	Capacities on outriggers — over rear only														
		30' jib			40' jib			50' jib			60' jib			70' jib		
		Jib angles to boom (jib offset degrees)														
		0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
Feet	Feet	Pounds			Pounds			Pounds			Pounds			Pounds		
110	30	29,600*			25,500*			21,700*			19,600*			18,600*		
	35	29,100*	25,800*		25,000*			21,200*			19,100*			18,100*		
	40	28,500*	25,200*		24,400*	21,200*		20,300*	16,800*		18,200*	15,100*		17,700*		
	50	27,400*	24,100*	17,500*	23,400*	19,800*		19,300*	15,200*		17,300*	13,400*		16,900*	13,800*	
	60	26,200*	22,900*	16,400*	22,300*	18,300*	13,600*	18,100*	13,600*	9,800*	16,300*	11,700*	7,600*	15,500*	12,200*	7,300*
	70	25,000*	21,500*	15,500*	20,900*	16,800*	12,400*	16,500*	12,100*	8,700*	14,800*	10,000*	6,800*	13,900*	10,500*	6,600*
	80	23,700*	19,600*	14,700*	19,400*	15,400*	11,600*	14,800*	11,000*	8,200*	13,000*	8,600*	6,000*	12,500*	8,800*	5,900*
	90	22,400*	17,600*	14,100*	17,800*	14,000*	11,100*	13,000*	9,900*	7,700*	11,200*	7,800*	5,700*	11,400*	7,600*	5,100*
	100	20,400*	15,900*		16,200*	12,500*	10,500*	11,500*	8,700*	7,100*	9,200*	7,000*	5,400*	9,900*	6,800*	4,700*
	110	18,000*	15,500*		14,500*	11,500*		10,300*	8,100*		8,200*	6,100*	5,100*	8,000*	6,000*	4,400*
	120	15,800*	15,000*		12,700*	10,900*		8,900*	7,500*		7,200*	5,700*		7,100*	5,100*	4,100*
	130	15,300*			11,500*			8,000*			6,100*	5,300*		6,200*	4,700*	
	140				10,600*			7,200*			5,600*			5,100*	4,300*	
	150										5,100*			4,600*		
	160													4,100*		
170																
120	30	29,800*			25,200*			21,900*			19,700*			18,800*		
	35	29,300*			24,700*			21,500*	17,100*		19,300*	15,400*		18,000*		
	40	28,800*	25,400*		24,700*			20,500*	15,700*	11,000*	18,400*	13,800*		17,100*	14,100*	
	50	27,700*	24,400*	17,700*	23,700*	20,100*	14,600*	19,600*	14,200*	10,000*	17,600*	12,200*	7,800*	15,700*	12,600*	7,500*
	60	26,600*	23,300*	16,700*	22,700*	18,800*	13,800*	18,700*	12,600*	9,100*	16,700*	10,600*	7,100*	14,100*	11,000*	6,800*
	70	25,500*	22,200*	15,800*	21,600*	17,400*	12,800*	17,200*	11,500*	8,300*	15,600*	9,900*	6,300*	12,800*	9,500*	6,100*
	80	24,400*	20,500*	15,000*	20,100*	16,000*	11,800*	15,600*	10,500*	7,900*	13,900*	8,200*	5,800*	11,600*	7,900*	5,400*
	90	23,100*	18,700*	14,400*	18,700*	14,700*	11,300*	14,000*	9,400*	7,400*	12,200*	7,400*	5,500*	10,600*	7,200*	4,800*
	100	21,800*	16,700*	13,900*	17,100*	13,300*	10,800*	12,300*	8,400*		10,400*	6,600*	5,300*	9,200*	6,400*	4,600*
	110	19,700*	15,700*		15,600*	11,900*	10,300*	11,200*	7,900*		8,700*	5,900*	5,000*	7,700*	5,600*	4,300*
	120	17,400*	15,300*		14,100*	11,300*		9,900*	7,300*		7,900*	5,600*		6,900*	4,900*	4,000*
	130	15,800*			12,300*	10,700*		8,600*			7,000*	5,200*		5,900*	4,600*	
	140	15,200*			11,400*			7,900*			5,900*			4,900*	4,200*	
	150				10,500*			7,100*			5,500*			4,600*		
	160										5,100*			4,100*		
170																
180																
130	35	29,500*			25,400*			22,100*	17,400*		19,500*			18,900*		
	40	29,000*	25,600*		24,900*			21,600*	16,000*		18,700*	14,200*		18,200*	14,400*	
	50	28,000*	24,600*	18,600*	24,000*	20,400*		20,800*	14,600*	11,100*	17,800*	12,700*	7,900*	17,400*	13,000*	6,900*
	60	27,000*	23,600*	16,900*	23,000*	19,100*	13,900*	19,900*	13,200*	9,400*	17,000*	11,200*	7,300*	15,900*	11,500*	6,300*
	70	26,000*	22,600*	16,100*	22,100*	17,800*	13,200*	19,000*	11,900*	8,500*	16,100*	9,600*	6,600*	14,300*	10,000*	5,600*
	80	24,900*	21,300*	15,300*	20,800*	16,500*	12,000*	17,900*	11,000*	8,100*	14,600*	8,500*	5,900*	12,900*	8,500*	4,900*
	90	23,800*	19,600*	14,700*	19,400*	15,300*	11,500*	16,400*	10,000*	7,700*	13,100*	7,800*	5,700*	11,700*	7,500*	4,700*
	100	22,600*	17,900*	14,100*	18,000*	14,100*	11,100*	14,900*	9,000*	7,200*	11,400*	7,100*	5,400*	10,700*	6,800*	4,400*
	110	21,100*	16,000*		16,500*	12,700*	10,600*	13,300*	8,300*		9,700*	6,300*	5,100*	9,800*	6,100*	4,400*
	120	19,100*	15,600*		15,100*	11,700*		11,900*	7,800*		8,500*	5,800*		8,500*	5,300*	4,200*
	130	16,900*	15,200*		13,600*	11,200*		10,800*	7,200*		7,600*	5,500*		7,400*	4,800*	
	140	15,600*			12,000*	10,600*		9,600*			6,700*	5,100*		6,600*	4,500*	
	150	14,000*			11,300*			8,500*			5,900*			5,700*	4,200*	
	160				10,400*			7,800*			5,500*			4,900*		
	170							7,000*			5,000*			4,500*		
180													4,100*			

(continued)



HC-238A jib capacities — tapered boom (U.S. units)

Refer to Notes page 265.31

Boom length	Load radius	Capacities on outriggers — over rear only															
		30' jib			40' jib			50' jib			60' jib			70' jib			
		Jib angles to boom (jib offset degrees)															
Feet	Feet	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	
		Pounds			Pounds			Pounds			Pounds			Pounds			
140	35	29,700*			25,500*			21,800*			19,600*			18,300*			
	40	29,200*			25,100*			21,000*			18,900*			17,600*			
	50	28,300*	24,900*	18,200*	24,200*	20,600*		20,200*	17,700*		18,100*	14,500*		18,300*	14,600*		
	60	27,400*	23,900*	17,200*	23,300*	19,500*	14,100*	20,200*	16,400*	11,300*	18,100*	13,100*	8,100*	17,600*	16,100*	13,300*	
	70	26,400*	23,000*	16,300*	22,400*	18,300*	13,400*	19,300*	15,000*	10,500*	17,300*	12,100*	7,400*	16,100*	14,500*	11,900*	7,100*
	80	25,400*	22,000*	15,600*	21,300*	17,000*	12,400*	18,500*	13,700*	9,600*	16,200*	11,600*	6,800*	14,500*	13,100*	10,500*	6,500*
	90	24,400*	20,400*	14,900*	20,100*	15,900*	11,700*	16,900*	12,300*	8,700*	14,800*	10,200*	6,800*	13,100*	10,500*	7,800*	5,200*
	100	23,300*	18,800*	14,400*	18,800*	14,700*	11,300*	15,600*	11,400*	8,300*	13,500*	8,800*	6,100*	11,900*	9,100*	5,800*	4,800*
	110	21,900*	17,100*	13,900*	17,300*	13,500*	10,800*	14,200*	10,500*	7,900*	12,300*	8,200*	5,800*	10,900*	7,800*	5,200*	4,200*
	120	19,300*	15,800*		16,100*	12,200*	10,300*	12,700*	9,600*	7,400*	10,700*	7,500*	5,500*	9,900*	7,200*	4,800*	3,900*
	130	17,300*	15,500*		14,700*	11,500*		11,500*	8,600*	7,000*	9,000*	6,700*	5,300*	9,200*	6,500*	4,500*	3,600*
	140	15,400*	15,200*		13,200*	11,000*		10,500*	8,100*		8,200*	6,000*	5,000*	7,900*	5,800*	3,900*	
	150	13,700*			11,800*	10,400*		9,300*	7,600*		7,400*	5,700*		7,200*	5,000*	3,400*	
	160	12,300*			11,200*			8,300*	7,100*		6,500*	5,400*		6,400*	4,700*		
	170				10,300*			7,700*			5,800*	5,000*		5,500*	4,400*		
	180							7,000*			5,400*			4,800*	4,100*		
	190										5,000*			4,500*			
200										5,000*			4,000*				
150	35	29,800*			25,200*			21,900*			19,800*			18,500*			
	40	29,400*			24,400*			21,200*			19,000*			17,800*			
	50	28,500*	25,100*	19,000*	23,600*	20,900*		20,400*	16,600*		18,300*	14,800*		18,500*	14,800*		
	60	27,700*	24,200*	17,400*	23,600*	19,800*	14,200*	20,400*	16,600*		17,500*	13,400*	8,200*	17,800*	16,100*	13,500*	
	70	26,800*	23,300*	16,500*	22,700*	18,600*	13,600*	19,600*	15,400*	10,700*	16,300*	12,100*	7,600*	16,100*	14,600*	12,300*	7,200*
	80	25,800*	22,400*	15,800*	21,800*	17,500*	12,800*	18,800*	14,100*	9,900*	15,300*	10,700*	7,000*	14,600*	13,100*	11,000*	6,600*
	90	24,900*	21,100*	15,200*	20,700*	16,300*	11,900*	17,000*	12,800*	9,000*	14,900*	10,700*	7,000*	13,200*	11,000*	9,600*	6,000*
	100	23,900*	19,600*	14,600*	19,400*	15,200*	11,500*	15,700*	11,800*	8,400*	13,600*	9,300*	6,300*	12,000*	9,300*	8,000*	6,000*
	110	21,500*	18,100*	14,200*	18,200*	14,100*	11,000*	14,600*	11,000*	8,000*	12,500*	8,500*	5,900*	11,000*	8,300*	7,500*	5,400*
	120	19,000*	16,400*	13,700*	16,200*	12,900*	10,500*	13,500*	10,100*	7,700*	11,600*	7,800*	5,600*	10,000*	7,500*	6,800*	4,900*
	130	17,000*	15,700*		15,300*	11,900*		12,200*	9,200*	7,000*	10,000*	7,100*	5,400*	9,200*	6,800*	6,200*	4,300*
	140	15,100*	14,600*		14,300*	11,400*		11,200*	8,400*		8,700*	6,400*	4,700*	8,500*	6,200*	5,500*	3,700*
	150	13,500*	13,200*		12,900*	10,900*		10,200*	8,000*		8,000*	5,900*		7,700*	5,500*	5,000*	3,300*
	160	12,000*			11,700*	10,000*		9,100*	7,500*		7,200*	5,600*		7,000*	4,900*	4,600*	2,900*
	170	10,700*			10,900*			8,300*	7,000*		6,300*	5,300*		6,200*	4,600*	4,000*	
	180				9,800*			7,700*			5,800*	5,000*		5,400*	4,300*	4,000*	
	190										5,400*			4,800*	4,000*		
200										5,000*			4,400*				
210										4,000*			4,000*				
220										4,000*			4,000*				
160	40	29,600*			25,400*			22,100*			19,200*			18,600*			
	50	28,800*	25,300*	19,100*	24,600*	21,100*		21,300*			18,500*			17,900*			
	60	27,900*	24,400*	17,600*	23,800*	20,000*		20,600*	16,900*		17,700*	15,000*		18,600*	17,100*	14,400*	
	70	27,100*	23,600*	16,700*	23,000*	19,000*	14,400*	19,900*	15,700*		17,000*	13,800*	8,300*	17,100*	16,100*	13,500*	
	80	26,200*	22,700*	16,000*	22,200*	17,900*	13,100*	19,100*	14,500*	10,800*	16,300*	12,500*	7,700*	16,100*	14,600*	12,400*	7,300*
	90	25,300*	21,700*	15,400*	21,200*	16,800*	12,100*	17,100*	13,300*	10,100*	16,300*	12,500*	7,700*	14,600*	13,100*	11,400*	6,800*
	100	22,800*	20,300*	14,800*	19,600*	15,700*	11,600*	15,700*	12,100*	8,500*	13,700*	9,800*	6,500*	12,000*	10,100*	8,800*	6,200*
	110	20,500*	18,600*	14,200*	17,300*	14,700*	11,100*	14,600*	11,400*	8,200*	12,500*	8,700*	5,900*	11,000*	8,500*	7,500*	5,300*
	120	17,500*	15,900*	12,600*	16,100*	13,600*	9,500*	13,500*	10,500*	7,400*	11,600*	8,100*	5,700*	10,100*	7,700*	7,000*	4,700*
	130	15,700*	14,300*		14,400*	12,300*	8,400*	12,600*	9,700*	6,500*	10,800*	7,500*	5,100*	9,300*	7,200*	6,500*	4,000*
	140	14,200*	12,900*		13,100*	11,100*		11,800*	8,800*	5,700*	9,400*	6,800*	4,500*	8,600*	6,500*	3,500*	
	150	12,800*	11,700*		11,600*	9,900*		10,600*	8,200*		8,500*	6,100*	3,900*	8,000*	5,900*	3,100*	
	160	11,700*	10,400*		10,600*	9,000*		9,700*	7,500*		7,700*	5,800*		7,400*	5,200*	2,800*	
	170	10,500*			9,700*			8,700*	6,700*		7,000*	5,500*		6,800*	4,700*		
	180	9,300*			8,900*			8,000*			6,100*	5,100*		6,000*	4,300*		
	190							7,400*			5,700*			5,200*	3,900*		
	200										5,400*			4,700*			
210										5,000*			4,400*				
220										4,000*			4,000*				

(continued)

HC-238A jib capacities — tapered boom (U.S. units)

Refer to Notes page 265.31

Boom length Feet	Load radius Feet	Capacities on outriggers — over rear only														
		30° jib			40° jib			50° jib			60° jib			70° jib		
		Jib angles to boom (jib offset degrees)														
		0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
		Pounds			Pounds			Pounds			Pounds			Pounds		
170	40	29,700*			25,500*			21,500*			19,300*			18,800*		
	50	28,900*	25,400*		24,800*	21,300*		20,800*	17,200*		18,600*	15,300*		17,800*	13,500*	
	60	28,200*	24,600*	17,700*	24,000*	20,300*	14,500*	20,800*	16,000*	11,000*	17,800*	14,100*		16,100*	13,500*	7,400*
	70	27,400*	23,800*	16,900*	23,300*	19,300*	13,800*	20,100*	16,000*	11,000*	17,800*	14,100*		16,100*	13,500*	7,400*
	80	25,600*	23,000*	16,200*	22,500*	18,200*	13,300*	19,400*	14,900*	10,300*	16,300*	12,800*	7,800*	14,500*	12,400*	6,900*
	90	22,500*	21,300*	15,600*	20,700*	17,200*	12,400*	17,000*	13,700*	9,500*	14,900*	11,600*	7,300*	13,200*	11,400*	6,900*
	100	20,100*	17,900*	14,800*	17,600*	15,800*	11,600*	15,700*	12,500*	8,800*	13,700*	10,300*	6,700*	12,100*	10,400*	6,000*
	110	16,900*	15,800*	12,800*	15,600*	13,900*	10,300*	14,500*	11,700*	8,000*	12,600*	9,000*	6,200*	11,000*	9,000*	5,100*
	120	15,100*	14,100*	11,300*	14,000*	12,400*	8,800*	12,800*	10,600*	7,000*	11,600*	8,400*	5,600*	10,100*	7,900*	4,400*
	130	13,800*	12,700*	10,100*	12,600*	10,900*	7,700*	11,500*	9,500*	6,100*	10,500*	7,800*	4,700*	9,300*	6,900*	3,800*
	140	12,500*	11,200*		11,400*	9,900*		10,500*	8,500*	5,400*	9,400*	7,200*	4,200*	8,300*	6,100*	3,300*
	150	11,300*	10,200*		10,300*	8,800*		9,300*	7,600*		8,500*	6,400*	3,700*	7,600*	5,400*	2,900*
	160	10,300*	9,300*		9,400*	7,900*		8,500*	6,800*		7,600*	5,700*	3,300*	6,800*	4,900*	2,600*
	170	9,300*			8,400*	7,200*		7,600*	6,100*		7,000*	5,200*		6,100*	4,300*	2,300*
	180	8,500*			7,700*			7,000*	5,600*		6,300*	4,700*		5,600*	3,900*	
	190	7,900*			7,100*			6,400*	5,900*		5,800*	4,200*		5,100*	3,600*	
	200							5,900*			5,200*			4,700*	3,300*	
	210										4,800*			4,200*	3,000*	
	220													3,900*		
180	40	29,900*			24,900*			21,600*			19,500*			18,900*		
	50	29,100*	25,600*		24,200*	20,500*		21,000*	17,400*		18,800*	15,500*		17,600*		
	60	28,400*	24,800*	17,900*	24,200*	20,500*	14,600*	21,000*	16,300*	11,100*	17,700*	14,300*		15,900*	13,400*	7,500*
	70	25,400*	24,100*	17,100*	23,500*	19,500*	14,000*	20,300*	16,300*	11,100*	17,700*	14,300*		15,900*	13,400*	7,500*
	80	22,400*	21,400*	16,400*	20,800*	18,500*	13,400*	19,200*	15,200*	10,400*	16,100*	13,100*	7,900*	14,500*	12,400*	6,700*
	90	19,800*	19,000*	15,200*	18,400*	16,100*	12,500*	16,200*	14,100*	9,700*	14,700*	12,000*	7,400*	13,200*	11,000*	6,700*
	100	16,800*	15,900*	13,200*	15,600*	14,200*	10,700*	14,500*	12,400*	8,700*	13,100*	10,700*	6,900*	11,900*	9,400*	5,700*
	110	15,000*	14,100*	11,600*	13,900*	12,500*	9,400*	12,700*	11,000*	7,500*	11,700*	9,500*	5,900*	10,600*	8,400*	4,900*
	120	13,400*	12,400*	10,300*	12,400*	11,000*	8,200*	11,400*	9,700*	6,600*	10,500*	8,400*	5,200*	9,400*	7,300*	4,200*
	130	12,000*	11,200*	9,100*	11,000*	9,800*	7,200*	10,300*	8,700*	5,600*	9,200*	7,500*	4,500*	8,400*	6,400*	3,600*
	140	10,900*	10,100*		10,000*	8,800*	6,300*	9,100*	7,700*	4,900*	8,400*	6,600*	3,900*	7,400*	5,600*	3,100*
	150	9,800*	9,000*		9,100*	7,800*		8,300*	6,800*	4,400*	7,500*	5,900*	3,400*	6,700*	5,000*	2,700*
	160	8,900*	8,100*		8,100*	7,100*		7,400*	6,000*		6,700*	5,200*	3,000*	6,100*	4,500*	2,400*
	170	8,100*	7,400*		7,400*	6,400*		6,800*	5,500*		6,100*	4,700*		5,400*	4,000*	2,200*
	180	7,400*			6,700*	5,800*		6,000*	5,000*		5,500*	4,200*		4,900*	3,600*	
	190	6,900*			6,200*			5,500*	4,400*		5,000*	3,800*		4,500*	3,200*	
	200	6,400*			5,600*			5,100*			4,600*	3,500*		4,200*	2,900*	
	210							4,700*			4,200*			3,700*	2,700*	
	220										3,900*			3,400*		
	230													3,200*		
190	50	28,900*	25,700*		25,100*			21,800*			19,600*			17,300*		
	60	25,700*	25,000*		23,900*	20,700*		21,100*	17,600*		19,000*	14,600*		15,400*	13,400*	
	70	22,500*	21,900*	17,300*	21,000*	19,800*	14,100*	18,400*	16,500*	11,200*	16,900*	13,200*	8,000*	13,800*	11,700*	6,400*
	80	19,700*	19,000*	15,700*	18,400*	16,400*	13,300*	16,300*	14,900*	10,600*	15,100*	13,200*	7,600*	12,100*	10,100*	6,400*
	90	16,600*	16,000*	13,700*	15,500*	14,500*	11,500*	14,400*	13,000*	9,400*	13,300*	11,500*	7,600*	12,100*	10,100*	6,400*
	100	14,800*	14,100*	12,100*	13,900*	12,600*	10,000*	12,900*	11,300*	8,000*	11,700*	9,900*	6,600*	10,700*	8,700*	5,400*
	110	13,100*	12,500*	10,600*	12,300*	11,300*	8,600*	11,300*	9,900*	6,900*	10,500*	8,800*	5,700*	9,500*	7,700*	4,600*
	120	11,700*	11,100*	9,400*	10,900*	10,000*	7,500*	10,200*	8,800*	6,000*	9,300*	7,600*	4,900*	8,500*	6,700*	3,900*
	130	10,500*	9,900*	8,200*	9,800*	8,700*	6,500*	9,000*	7,700*	5,200*	8,300*	6,700*	4,200*	7,500*	5,900*	3,300*
	140	9,500*	8,900*	7,200*	8,900*	7,800*	5,800*	8,100*	6,800*	4,600*	7,400*	6,000*	3,700*	6,700*	5,200*	2,900*
	150	8,600*	8,000*		7,900*	7,000*		7,300*	6,100*		6,700*	5,300*	3,200*	6,000*	4,600*	2,600*
	160	7,800*	7,200*		7,200*	6,200*		6,600*	5,400*		5,900*	4,700*	2,900*	5,400*	4,100*	2,300*
	170	7,100*	6,600*		6,500*	5,700*		5,900*	4,900*		5,400*	4,200*	2,500*	4,900*	3,600*	2,000*
	180	6,500*	6,000*		5,900*	5,100*		5,300*	4,400*		4,900*	3,800*		4,400*	3,200*	
	190	6,000*			5,400*	4,600*		4,800*	4,000*		4,500*	3,400*		3,900*	2,900*	
	200	5,600*			5,000*			4,400*	3,600*		4,000*	3,100*		3,600*	2,700*	
	210				4,600*			4,100*			3,700*	2,800*		3,300*	2,400*	
	220							3,800*			3,400*			3,000*	2,200*	
	230													2,800*		
	240													2,600*		

(continued)



HC-238A jib capacities — tapered boom (U.S. units)

Refer to Notes page 285.31

Boom length	Load radius	Capacities on outriggers — over rear only														
		30 jib			40 jib			50 jib			60 jib			70 jib		
		Jib angles to boom (jib offset degrees)														
Feet	Feet	Pounds			Pounds			Pounds			Pounds			Pounds		
		0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
200	50	26,000*			24,500*			21,900*			19,700*			15,800*		
	60	23,000*	10,160*	18,700*	21,500*	20,700*	14,200*	20,000*	17,700*	17,200*	19,700*			15,800*	12,500*	
	70	20,100*	18,400*	16,500*	17,800*	16,900*	14,200*	16,600*	15,400*	11,300*	15,400*	13,900*		14,100*	12,500*	
	80	16,600*	16,200*	14,300*	15,600*	14,900*	12,300*	14,700*	13,500*	10,300*	13,600*	12,000*	8,100*	14,100*	12,500*	
	90	14,900*	14,300*	12,400*	13,800*	13,000*	10,500*	12,900*	11,700*	8,800*	12,000*	10,600*	7,300*	11,100*	9,300*	6,000*
	100	13,100*	12,600*	11,000*	12,300*	11,500*	9,100*	11,400*	10,200*	7,500*	10,600*	9,100*	6,100*	9,600*	8,000*	5,100*
	110	11,800*	11,200*	9,600*	11,000*	10,100*	7,800*	10,200*	8,900*	6,500*	9,300*	7,900*	5,300*	8,600*	7,000*	4,400*
	120	10,400*	9,900*	8,300*	9,700*	8,900*	6,900*	9,000*	7,900*	5,600*	8,300*	6,900*	4,600*	7,700*	6,200*	3,700*
	130	9,300*	8,700*	7,400*	8,600*	7,800*	6,000*	8,000*	6,900*	4,900*	7,300*	6,200*	4,000*	6,700*	5,400*	3,200*
	140	8,400*	7,900*	6,600*	7,800*	7,000*	5,300*	7,100*	6,200*	4,300*	6,600*	5,400*	3,400*	6,000*	4,700*	2,700*
	150	7,600*	7,100*	5,800*	7,000*	6,200*	4,700*	6,400*	5,500*	3,800*	5,900*	4,800*	3,000*	5,300*	4,200*	2,400*
	160	6,800*	6,300*	5,300*	6,300*	5,500*	4,200*	5,200*	4,400*	3,300*	5,200*	4,200*	2,600*	4,800*	3,700*	2,100*
	170	6,200*	5,800*	4,800*	5,700*	5,100*	3,800*	4,400*	3,600*		4,700*	3,800*	2,300*	4,300*	3,300*	1,900*
	180	5,700*	5,300*		5,200*	4,500*		4,700*	4,000*		4,300*	3,400*		3,800*	3,000*	
	190	5,200*	4,800*		4,800*	4,100*		4,300*	3,600*		3,800*	3,100*		3,500*	2,600*	
200	4,800*			4,300*	3,800*		3,900*	3,200*		3,500*	2,800*		2,900*	2,200*		
210	4,500*			4,000*			3,600*	3,000*		3,200*	2,500*		2,600*	2,000*		
220				3,700*			3,300*			2,900*	2,300*		2,400*			
230							3,000*			2,700*	2,100*		2,200*			
240										2,600*			2,100*			
250										2,600*			2,100*			
210 (A)	50	23,300*			21,800*			20,400*			15,700*			14,500*		
	60	20,500*	20,400*	17,200*	18,100*	17,500*	13,100*	16,900*			13,900*			12,700*	11,600*	
	70	16,900*	16,600*	14,900*	16,000*	15,300*	11,200*	14,800*	13,200*	9,600*	13,900*	12,800*	8,100*	11,300*	10,000*	
	80	14,900*	14,500*	13,000*	14,100*	13,400*	9,600*	11,200*	10,300*	6,900*	10,700*	9,500*	6,900*	9,900*	8,600*	5,700*
	90	13,300*	12,800*	11,300*	12,500*	11,700*	8,400*	11,600*	10,600*	8,200*	10,700*	9,500*	8,300*	8,700*	7,300*	4,800*
	100	11,800*	11,300*	9,800*	11,000*	10,200*	7,200*	10,300*	9,300*	6,900*	10,700*	9,500*	8,300*	8,700*	7,300*	4,800*
	110	10,400*	10,000*	8,600*	9,700*	8,900*	6,200*	9,900*	8,100*	5,200*	10,700*	9,500*	8,300*	8,700*	7,300*	4,800*
	120	9,300*	8,800*	7,600*	8,700*	7,900*	5,500*	9,000*	7,100*	4,500*	10,700*	9,500*	8,300*	8,700*	7,300*	4,800*
	130	8,300*	7,800*	6,600*	7,700*	7,000*	4,900*	8,000*	6,300*	3,900*	10,700*	9,500*	8,300*	8,700*	7,300*	4,800*
	140	7,400*	7,000*	5,900*	6,800*	6,300*	4,300*	7,100*	5,500*	3,400*	10,700*	9,500*	8,300*	8,700*	7,300*	4,800*
	150	6,700*	6,200*	5,300*	6,100*	5,500*	3,700*	6,300*	4,900*	3,000*	10,700*	9,500*	8,300*	8,700*	7,300*	4,800*
	160	6,100*	5,700*		5,500*	4,900*		5,600*	4,200*	2,700*	10,700*	9,500*	8,300*	8,700*	7,300*	4,800*
	170	5,500*	5,100*		4,900*	4,400*		5,000*	3,600*		10,700*	9,500*	8,300*	8,700*	7,300*	4,800*
	180	5,000*	4,600*		4,500*	4,000*		4,600*	3,200*		10,700*	9,500*	8,300*	8,700*	7,300*	4,800*
	190	4,500*	4,200*		4,100*	3,700*		4,100*	2,700*		10,700*	9,500*	8,300*	8,700*	7,300*	4,800*
200	4,200*	3,900*		4,000*	3,700*		3,700*	2,400*		10,700*	9,500*	8,300*	8,700*	7,300*	4,800*	
210	3,900*			3,700*	3,300*		3,400*	2,100*		10,700*	9,500*	8,300*	8,700*	7,300*	4,800*	
220	3,600*			3,500*			3,100*	1,800*		10,700*	9,500*	8,300*	8,700*	7,300*	4,800*	
230				3,200*			2,800*	1,500*		10,700*	9,500*	8,300*	8,700*	7,300*	4,800*	
240				3,000*			2,600*	1,300*		10,700*	9,500*	8,300*	8,700*	7,300*	4,800*	
250							2,500*	1,100*		10,700*	9,500*	8,300*	8,700*	7,300*	4,800*	
220 (A)	50	21,100*			18,300*			15,200*			14,200*			13,200*		
	60	17,200*	16,900*	13,700*	16,300*	15,800*	12,000*	16,300*			13,500*			12,600*	9,100*	
	70	15,300*	14,800*	13,000*	14,400*	13,800*	10,300*	14,400*	12,800*	8,800*	13,500*	12,600*	7,600*	11,600*	10,200*	
	80	13,400*	13,000*	11,800*	12,600*	12,100*	8,800*	13,400*	11,100*	7,500*	13,500*	12,600*	7,600*	11,600*	10,200*	
	90	11,900*	11,500*	10,300*	11,100*	10,600*	7,700*	12,000*	9,600*	6,500*	13,500*	12,600*	7,600*	11,600*	10,200*	
	100	10,500*	10,100*	9,000*	9,700*	9,300*	7,000*	10,400*	8,400*	5,500*	13,500*	12,600*	7,600*	11,600*	10,200*	
	110	9,300*	8,900*	7,800*	8,700*	8,100*	6,000*	9,200*	7,300*	4,800*	13,500*	12,600*	7,600*	11,600*	10,200*	
	120	8,200*	7,800*	6,800*	7,600*	7,100*	5,200*	8,000*	6,300*	4,100*	13,500*	12,600*	7,600*	11,600*	10,200*	
	130	7,400*	6,900*	6,000*	6,800*	6,300*	4,500*	7,200*	5,600*	3,600*	13,500*	12,600*	7,600*	11,600*	10,200*	
	140	6,500*	6,200*	5,400*	6,000*	5,600*	4,400*	6,300*	4,900*	3,100*	13,500*	12,600*	7,600*	11,600*	10,200*	
150	5,800*	5,500*	4,700*	5,400*	5,000*	3,900*	5,000*	4,400*	2,800*	13,500*	12,600*	7,600*	11,600*	10,200*		

(continued)

HC-238A jib capacities — tapered boom (U.S. units)

Refer to Notes page 265.31

Boom length Feet	Load radius Feet	Capacities on outriggers — over rear only														
		30° jib			40° jib			50° jib			60° jib			70° jib		
		Jib angles to boom (jib offset degrees)														
		0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
		Pounds			Pounds			Pounds			Pounds			Pounds		
220 Ⓐ	160	5,300*	5,000*	4,200*	4,800*	4,400*	3,400*	4,400*	3,900*	2,800*	4,100*	3,400*	2,200*	3,700*	3,000*	
	170	4,800*	4,500*		4,400*	3,900*		4,000*	3,500*	2,500*	3,600*	3,000*	2,000*	3,300*	2,700*	
	180	4,400*	4,100*		3,900*	3,500*		3,600*	3,100*		3,300*	2,700*		3,000*	2,300*	
	190	4,000*	3,700*		3,600*	3,200*		3,200*	2,800*		2,900*	2,400*		2,700*	2,100*	
	200	3,600*	3,400*		3,300*	2,900*		2,900*	2,500*		2,700*	2,200*		2,400*	1,900*	
	210	3,300*	3,100*		3,000*	2,700*		2,700*	2,300*		2,500*	1,900*		2,200*		
	220	3,100*			2,800*			2,500*	2,100*		2,300*			2,000*		
	230	2,900*			2,600*			2,300*			2,000*					
	240				2,400*			2,100*			1,900*					
	250				2,000*			2,000*								
230 Ⓐ	50	17,600*			14,700*	14,400*		13,900*			13,000*			12,000*		
	60	15,500*	15,400*		12,900*	12,500*		12,200*			11,400*			10,500*		
	70	13,800*	13,500*	12,300*	12,900*	12,500*	11,000*	12,200*	11,600*		11,400*			10,500*		
	80	12,100*	11,700*	10,700*	11,500*	10,900*	9,300*	10,700*	10,000*	8,200*	10,000*	9,200*		9,300*	8,300*	5,000*
	90	10,700*	10,400*	9,300*	10,000*	9,400*	8,000*	9,400*	8,700*	7,000*	8,700*	7,900*	5,900*	8,100*	7,200*	4,200*
	100	9,400*	9,100*	8,100*	8,800*	8,300*	7,000*	8,200*	7,600*	5,900*	7,600*	6,800*	5,000*	7,100*	6,200*	4,200*
	110	8,300*	7,900*	7,100*	7,700*	7,300*	6,000*	7,300*	6,600*	5,100*	6,700*	5,900*	4,300*	6,200*	5,400*	3,600*
	120	7,300*	7,000*	6,200*	6,800*	6,300*	5,200*	6,400*	5,700*	4,300*	5,800*	5,200*	3,600*	5,400*	4,600*	3,000*
	130	6,500*	6,200*	5,400*	6,000*	5,600*	4,600*	5,500*	5,000*	3,800*	5,200*	4,500*	3,100*	4,800*	4,000*	2,600*
	140	5,900*	5,500*	4,800*	5,300*	4,900*	4,000*	4,900*	4,400*	3,300*	4,600*	4,000*	2,700*	4,200*	3,500*	2,200*
	150	5,200*	5,000*	4,200*	4,800*	4,400*	3,500*	4,400*	3,900*	2,900*	4,000*	3,400*	2,300*	3,700*	3,100*	1,900*
	160	4,700*	4,400*	3,700*	4,300*	3,900*	3,100*	3,900*	3,400*	2,500*	3,600*	3,000*	2,000*			
	170	4,300*	4,000*		3,900*	3,500*	2,700*	3,500*	3,100*	2,200*	3,200*	2,700*				
	180	3,900*	3,600*		3,500*	3,200*		3,200*	2,800*	2,000*	2,900*	2,400*				
	190	3,500*	3,300*		3,200*	2,900*		2,900*	2,500*		2,600*	2,100*				
	200	3,200*	3,000*		2,900*	2,600*		2,600*	2,300*		2,300*	2,000*				
	210	2,900*	2,700*		2,700*	2,400*		2,400*	2,100*		2,200*					
	220	2,700*			2,400*	2,200*		2,200*	1,900*		2,000*					
	230	2,500*			2,300*			2,000*								
	240	2,300*			2,100*											
	250				2,000*											

Ⓐ Boom length, when equipped with jib, requires 47,000 lbs. "AB" upper counterweight and 28,700 lbs. "AB" bumper counterweight to enable machine to lift boom/jib combination off ground unassisted.

Notes — tubular jib lifting capacities

1. The capacities included in this chart are the maximum allowable under ideal job conditions and are 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 over side and rear as described on appropriate plate in crane operator's cab. Capacities for 360° swing applicable only when front center jack, in addition to front and rear outriggers, is set in proper working position.
4. Capacities are limited to an FMC 60" x 54" cross-section tubular boom with a 45' tapered top section, and an FMC 36" x 30" cross-section tubular jib with 13' 6" high jib strut properly assembled.
5. The pinned telescopic boom live mast must be used in the extended 30' position for all capacities on this chart.
6. For boom lengths exceeding 160', boom midpoint suspension pendants are required.
7. Jib cannot be mounted on tapered boom lengths shorter than 110' or longer than 230'.
8. Capacities are for 30', 40', 50', 60', and 70' jib lengths only.
9. Machine equipped with upper counterweight "A" and bumper counterweight "A" — maximum boom/jib combination allowed is 180' boom plus 70' jib over rear; 170' boom plus 70' jib over side.
10. "AB" bumper counterweight **must not** be used in conjunction with "AB" upper counterweight, or with booms less than 190' long, due to strength of materials.
11. Machine equipped with "AB" upper counterweight — do not swing over side until outriggers have been set.
12. Least stable rated position is over the side.
13. For lifting loads greater than 6 713 kg up to 13 517 kg 2-part jib hoist line (22 mm diameter Type "N" wire rope) is required. For single part jib hoist line operation, 22 mm diameter Type "P" wire rope is recommended (maximum capacity based on wire rope strength is 6 713 kg).
14. Refer to all notes on applicable lifting crane capacity chart in addition to these notes.
15. Capacities apply only to the machine as originally manufactured and normally equipped by FMC Corporation, Cable Crane and Excavator Division.

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



HC-238A jib capacities — tapered boom (U.S. units)

FMC



Link-Belt® HC-238A lifting crane capacities — hammerhead boom PCSA Class 11-724

Boom — tubular: 60" (1.52 m) wide, 54" (1.37 m) deep with 5' (1.52 m) long hammerhead top section, 1 $\frac{3}{8}$ " (35 mm) boom pendants, boom live mast, and boom midpoint suspension pendants as required.

Jib — tubular: 36" (0.91 m) deep, 30" (0.76 m) wide.

Counterweights — Refer to charts below.

Mounting — rubber tire mobile base: FMC, 8 x 4 drive, 270" (6.86 m) wheelbase, 11' 10" (3.61 m) wide.

Counterweights					
"A" upper		"AB" upper		"A" bumper	
Pounds	kilograms	Pounds	kilograms	Pounds	kilograms
27,000	12 247	47,000	21 319	11,400	5 171

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

Standard HC-238A must be equipped with the counterweight combinations below when 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	30	9.14	Not applicable				30	9.14	Not applicable	
	Maximum	180	54.86					180	54.86		
"AB" upper and "A" bumper	Minimum	30	9.14	50 + 30	15.24 + 9.14	30	9.14	50 + 30	15.24 + 9.14		
	Maximum	230	70.10	200 + 60	60.96 + 18.29	230	70.10	200 + 60	60.96 + 18.29		
On tires ^②											
"A" upper and "A" bumper	Minimum	30	9.14	Not applicable				30	9.14	Not applicable	
	Maximum	150	45.72					130	39.62		

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

② Air pressure in tires to be 115 p.s.i. (793 kPa).

Machine travel with hammerhead boom or boom + jib, with no load^③.

Standard HC-238A 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 ^④									
		Jobsite moves at 1 m.p.h. (1.61 km/h), boom at 80° boom angle, upper facing rear only.				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 pinned in 30' (9.14 m) extended position.					
		Boom		Boom + jib		Boom		Boom + jib			
		Feet	meters	Feet	meters	Feet	meters	Feet	meters		
"A" upper and "A" bumper	Minimum	30	9.14	Not applicable				50	15.24	Not applicable	
	Maximum	180	54.86					130	39.62		
"AB" upper and "A" bumper	Minimum	30	9.14	50 + 30	15.24 + 9.14	60	18.29	50 + 30	15.24 + 9.14		
	Maximum	230	70.10	200 + 60	60.96 + 18.29	140	42.67	100 + 60	30.48 + 18.29		

③ Limited to 85% of available stability with machine on firm, level supporting surface.

④ Air pressure in front and rear tires to be 100 p.s.i. (690 kPa) for travel at 1 and 5 m.p.h. (1.61 and 8.05 km/h).

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

HC-238A lifting crane capacities — hammerhead boom

PCSA Class 11-724
Refer to Notes
Page 277.00

Boom — tubular: 60" (1.57 m) wide, 54" (1.37 m) deep with 5' (1.52 m) long hammerhead top section, 1 3/8" (35 mm) boom pendants, boom live mast, and boom midpoint suspension pendants as required.

Mounting — rubber tire mobile base: FMC, 8 x 4 drive, 270" (6.86 m) wheelbase, 11' 10" (3.61 m) wide.

Counterweights — Refer to charts Page 271.00

HC-238A hammerhead boom						"A" upper and "A" bumper ^① counterweights								"AB" upper and "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		
30' (9.14 m)	11	3.35	81.1	33' 7"	10.24	253,700*	115 076*	253,700*	115 076*	95,500*	43 318*	81,400*	36 922*	256,000*	116 119*	256,000*	116 119*		
	12	3.66	79.0	33' 4"	10.15	235,000*	106 594*	235,000*	106 594*	91,700*	41 594*	75,900*	34 427*	251,100*	113 897*	251,100*	113 897*		
	13	3.96	76.8	32' 11"	10.05	218,700*	99 200*	218,700*	99 200*	88,300*	40 052*	71,000*	32 205*	233,800*	106 049*	233,800*	106 049*		
	14	4.27	74.7	32' 7"	9.93	204,500*	92 759*	204,500*	92 759*	85,300*	38 691*	66,700*	30 254*	218,600*	99 155*	218,600*	99 155*		
	15	4.57	72.4	32' 2"	9.80	191,900*	87 044*	191,900*	87 044*	82,500*	37 421*	62,800*	28 485*	205,300*	93 122*	205,300*	93 122*		
	16	4.88	70.2	31' 8"	9.66	180,700*	81 964*	180,700*	81 964*	79,900*	36 242*	59,300*	26 898*	193,300*	87 679*	193,300*	87 679*		
	17	5.18	67.9	31' 2"	9.50	170,800*	77 473*	170,800*	77 473*	77,500*	35 153*	56,200*	25 491*	182,600*	82 825*	182,600*	82 825*		
	18	5.49	65.5	30' 7"	9.33	161,800*	73 391*	161,800*	73 391*	75,300*	34 155*	53,300*	24 176*	173,100*	78 516*	173,100*	78 516*		
	19	5.79	63.1	30' 0"	9.14	153,600*	69 671*	153,600*	69 671*	73,200*	33 202*	50,600*	22 951*	164,400*	74 570*	164,400*	74 570*		
	20	6.10	60.7	29' 3"	8.93	146,300*	66 360*	146,300*	66 360*	71,200*	32 295*	48,100*	21 817*	156,500*	70 987*	156,500*	70 987*		
25	7.62	46.7	24' 8"	7.52	117,400*	53 251*	117,400*	53 251*	60,600*	27 487*	38,300*	17 372*	125,700*	57 016*	125,700*	57 016*			
40' (12.19 m)	13	3.96	80.4	43' 4"	13.21	169,000*	76 657*	169,000*	76 657*	88,300*	40 052*	71,300*	32 341*	169,000*	76 657*	169,000*	76 657*		
	14	4.27	78.8	43' 1"	13.13	169,000*	76 657*	169,000*	76 657*	85,400*	38 736*	66,900*	30 345*	169,000*	76 657*	169,000*	76 657*		
	15	4.57	77.2	42' 9"	13.04	169,000*	76 657*	169,000*	76 657*	82,600*	37 466*	63,000*	28 576*	169,000*	76 657*	169,000*	76 657*		
	16	4.88	75.7	42' 5"	12.94	169,000*	76 657*	169,000*	76 657*	80,000*	36 287*	59,500*	26 988*	169,000*	76 657*	169,000*	76 657*		
	17	5.18	74.1	42' 1"	12.83	169,000*	76 657*	169,000*	76 657*	77,600*	35 198*	56,500*	25 627*	169,000*	76 657*	169,000*	76 657*		
	18	5.49	72.4	41' 8"	12.71	162,000*	73 481*	162,000*	73 481*	75,300*	34 155*	53,600*	24 312*	169,000*	76 657*	169,000*	76 657*		
	19	5.79	70.8	41' 3"	12.58	153,900*	69 807*	153,900*	69 807*	73,300*	33 248*	50,900*	23 087*	164,700*	74 706*	164,700*	74 706*		
	20	6.10	69.1	40' 10"	12.44	146,600*	66 496*	146,600*	66 496*	71,300*	32 341*	48,500*	19 731*	156,700*	71 077*	156,700*	71 077*		
	25	7.62	60.4	37' 11"	11.56	117,700*	53 387*	117,700*	53 387*	61,300*	27 805*	38,700*	17 554*	126,100*	57 198*	126,100*	57 198*		
	30	9.14	50.7	33' 10"	10.31	95,600*	43 363*	91,400*	41 458*	48,200*	21 863*	31,700*	14 378*	105,000*	47 627*	105,000*	47 627*		
35	10.67	38.9	27' 11"	8.50	79,700*	36 151*	70,600*	32 023*	39,100*	17 735*	26,500*	12 020*	88,900*	40 324*	87,900*	39 870*			
50' (15.24 m)	14	4.27	81.2	53' 4"	16.26	155,500*	70 533*	155,500*	70 533*	85,500*	38 782*	67,300*	30 526*	155,500*	70 533*	155,500*	70 533*		
	15	4.57	80.0	53' 2"	16.19	154,600*	70 125*	154,600*	70 125*	82,700*	37 512*	63,400*	28 757*	154,600*	70 125*	154,600*	70 125*		
	16	4.88	78.7	52' 10"	16.11	154,000*	69 853*	154,000*	69 853*	80,100*	36 332*	59,900*	27 170*	154,000*	69 853*	154,000*	69 853*		
	17	5.18	77.5	52' 7"	16.03	153,100*	69 445*	153,100*	69 445*	77,800*	35 289*	56,900*	25 809*	153,100*	69 445*	153,100*	69 445*		
	18	5.49	76.2	52' 3"	15.94	152,500*	69 172*	152,500*	69 172*	75,500*	34 246*	54,000*	24 493*	152,500*	69 172*	152,500*	69 172*		
	19	5.79	75.0	51' 11"	15.84	151,900*	68 900*	151,900*	68 900*	73,400*	33 293*	51,300*	23 269*	151,900*	68 900*	151,900*	68 900*		
	20	6.10	73.7	51' 7"	15.73	146,900*	66 632*	146,900*	66 632*	71,500*	32 431*	48,900*	22 180*	151,300*	68 628*	151,300*	68 628*		
	25	7.62	67.2	49' 5"	15.07	118,100*	53 569*	118,100*	53 569*	62,100*	28 168*	39,200*	17 780*	126,500*	57 379*	126,500*	57 379*		
	30	9.14	60.3	46' 7"	14.19	96,300*	43 680*	92,700*	42 048*	49,000*	22 226*	32,200*	14 605*	105,500*	47 854*	105,500*	47 854*		
	35	10.67	52.8	42' 9"	13.03	80,500*	36 514*	71,900*	32 613*	40,000*	18 143*	27,200*	12 337*	88,100*	39 961*	88,100*	39 961*		
40	12.19	44.3	37' 9"	11.50	68,700*	31 161*	58,200*	26 399*	33,400*	15 149*	23,100*	10 477*	74,000*	33 565*	72,400*	32 840*			
60' (18.29 m)	16	4.88	80.7	63' 2"	19.25	145,100*	65 816*	145,100*	65 816*	80,000*	36 287*	59,900*	27 170*	145,100*	65 816*	145,100*	65 816*		
	17	5.18	79.7	62' 11"	19.18	144,000*	65 317*	144,000*	65 317*	77,600*	35 198*	57,000*	25 854*	144,000*	65 317*	144,000*	65 317*		
	18	5.49	78.7	62' 8"	19.10	142,600*	64 682*	142,600*	64 682*	75,400*	34 200*	54,100*	24 539*	142,600*	64 682*	142,600*	64 682*		
	19	5.79	77.7	62' 5"	19.02	141,500*	64 183*	141,500*	64 183*	73,400*	33 293*	51,400*	23 314*	141,500*	64 183*	141,500*	64 183*		
	20	6.10	76.6	62' 1"	18.93	140,600*	63 775*	140,600*	63 775*	71,400*	32 386*	49,000*	22 226*	140,600*	63 775*	140,600*	63 775*		
	25	7.62	71.4	60' 4"	18.40	118,200*	53 614*	118,200*	53 614*	62,500*	28 349*	39,300*	17 826*	126,300*	57 288*	126,300*	57 288*		
	30	9.14	66.0	58' 1"	17.71	96,600*	43 817*	93,500*	42 410*	49,400*	22 407*	32,400*	14 696*	100,800*	45 722*	100,800*	45 722*		
	35	10.67	60.2	55' 2"	16.83	80,800*	36 650*	72,600*	32 930*	40,400*	18 325*	27,400*	12 428*	83,600*	37 920*	83,600*	37 920*		
	40	12.19	54.1	51' 7"	15.72	69,000*	31 297*	58,800*	26 671*	33,800*	15 331*	23,400*	10 614*	69,900*	31 706*	69,900*	31 706*		
	50	15.24	39.8	41' 2"	12.55	50,400	22 861	41,900	19 005	25,000	11 339	16,800	7 620	51,900*	23 541*	51,900*	23 541*		

①②③ — Refer to Page 277.00

(continued)



HC-238A hammerhead boom						"A" upper and "A" bumper ^① counterweights								"AB" upper and "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	
			Pounds			kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	
70' (21.34 m)	17	5.18	81.2	73' 2"	22.29	137,800*	62 505*	137,800*	62 505*	77,400*	35 108*	56,900*	25 809*	137,800*	62 505*	137,800*	62 505*
	18	5.49	80.4	72' 11"	22.23	136,400*	61 870*	136,400*	61 870*	75,200*	34 110*	54,900*	24 493*	136,400*	61 870*	136,400*	61 870*
	19	5.79	79.5	72' 8"	22.16	135,900*	61 643*	135,900*	61 643*	73,100*	33 157*	51,400*	23 314*	135,900*	61 643*	135,900*	61 643*
	20	6.10	78.6	72' 6"	22.09	134,600*	61 053*	134,600*	61 053*	71,200*	32 295*	48,900*	22 180*	134,600*	61 053*	134,600*	61 053*
	25	7.62	74.2	71' 0"	21.64	118,100*	53 569*	118,100*	53 569*	62,700*	28 440*	39,200*	17 780*	120,200*	54 521*	120,200*	54 521*
	30	9.14	69.7	69' 1"	21.07	96,000*	43 544*	93,900*	42 592*	49,600*	22 498*	32,300*	14 651*	96,000*	43 544*	96,000*	43 544*
	35	10.67	65.1	66' 9"	20.35	79,900*	36 242*	73,000*	33 112*	40,500*	18 370*	27,400*	12 428*	79,900*	36 242*	79,900*	36 242*
	40	12.19	60.2	63' 10"	19.46	67,000*	30 390*	59,200*	26 852*	34,000*	15 422*	23,400*	10 614*	67,000*	30 390*	67,000*	30 390*
50	15.24	49.5	56' 1"	17.10	50,500*	22 906*	42,200*	19 141*	25,200*	11 430*	17,000*	7 711*	50,500*	22 906*	50,500*	22 906*	
60	18.29	36.4	44' 3"	13.50	38,500*	17 463*	32,100*	14 560*	19,400*	8 799*	12,600*	5 715*	38,500*	17 463*	38,500*	17 463*	
80' (24.38 m)	19	5.79	80.9	82' 11"	25.28	130,100*	59 012*	130,100*	59 012*	72,800*	33 021*	51,200*	23 223*	130,100*	59 012*	130,100*	59 012*
	20	6.10	80.1	82' 9"	25.21	128,600*	58 331*	128,600*	58 331*	70,900*	32 159*	48,700*	22 089*	128,600*	58 331*	128,600*	58 331*
	25	7.62	76.3	81' 5"	24.83	117,300*	53 206*	117,300*	53 206*	62,700*	28 440*	39,100*	17 735*	117,300*	53 206*	117,300*	53 206*
	30	9.14	72.5	79' 10"	24.33	92,600*	42 002*	92,600*	42 002*	49,600*	22 498*	32,200*	14 605*	92,600*	42 002*	92,600*	42 002*
	35	10.67	68.5	77' 10"	23.72	77,100*	34 971*	73,200*	33 202*	40,600*	18 415*	27,300*	12 383*	77,100*	34 971*	77,100*	34 971*
	40	12.19	64.4	75' 5"	22.98	64,700*	29 347*	59,300*	26 898*	34,000*	15 422*	23,300*	10 568*	64,700*	29 347*	64,700*	29 347*
	50	15.24	55.7	69' 1"	21.06	49,100*	22 271*	42,400*	19 232*	25,300*	11 475*	17,100*	7 756*	49,100*	22 271*	49,100*	22 271*
	60	18.29	45.9	60' 3"	18.36	37,900*	17 191*	32,300*	14 651*	19,500*	8 845*	12,700*	5 760*	37,900*	17 191*	37,900*	17 191*
70	21.34	33.7	47' 2"	14.38	29,900*	13 562*	25,600*	11 611*	15,400*	6 985*	9,600*	4 354*	29,900*	13 562*	29,900*	13 562*	
90' (27.43 m)	20	6.10	81.3	92' 11"	28.32	131,600*	59 692*	131,600*	59 692*	71,700*	32 522*	50,000*	22 679*	131,600*	59 692*	131,600*	59 692*
	25	7.62	77.9	91' 10"	27.98	119,000*	53 977*	119,000*	53 977*	63,300*	28 712*	40,100*	18 189*	126,000*	57 152*	126,000*	57 152*
	30	9.14	74.5	90' 5"	27.55	97,700*	44 315*	96,100*	43 590*	50,800*	23 042*	33,100*	15 013*	106,300*	48 216*	106,300*	48 216*
	35	10.67	71.1	88' 8"	27.02	81,900*	37 149*	74,700*	33 883*	41,600*	18 869*	28,100*	12 745*	90,700*	41 140*	90,700*	41 140*
	40	12.19	67.5	86' 6"	26.38	69,900*	31 706*	60,600*	27 487*	34,900*	15 830*	24,000*	10 886*	78,000*	35 380*	74,800*	33 928*
	50	15.24	60.1	81' 2"	24.74	51,800*	23 496*	43,300*	19 640*	26,000*	11 793*	17,800*	8 073*	59,900*	27 170*	53,900*	24 448*
	60	18.29	52.1	73' 11"	22.53	39,900*	18 098*	33,000*	14 968*	20,100*	9 117*	13,300*	6 032*	47,900*	21 727*	41,400*	18 778*
	70	21.34	42.9	64' 1"	19.53	32,000*	14 514*	26,200*	11 884*	15,900*	7 212*	10,100*	4 581*	38,600*	17 508*	33,100*	15 013*
80	24.38	31.6	49' 10"	15.20	26,400*	11 974*	21,300*	9 661*	12,800*	5 805*	7,700*	3 492*	32,000*	14 514*	27,300*	12 383*	
100' (30.48 m)	25	7.62	79.2	102' 1"	31.11	117,400*	53 251*	117,400*	53 251*	63,000*	28 576*	39,800*	18 052*	117,400*	53 251*	117,400*	53 251*
	30	9.14	76.2	100' 10"	30.73	97,500*	44 225*	96,200*	43 635*	50,800*	23 042*	32,800*	14 877*	106,000*	48 080*	106,000*	48 080*
	35	10.67	73.1	99' 3"	30.26	81,700*	37 058*	74,800*	33 928*	41,500*	18 824*	27,900*	12 655*	90,500*	41 050*	90,500*	41 050*
	40	12.19	70.0	97' 5"	29.69	69,800*	31 660*	60,600*	27 487*	34,800*	15 785*	23,800*	10 795*	77,800*	35 289*	74,900*	33 974*
	50	15.24	63.5	92' 9"	28.26	51,800*	23 496*	43,300*	19 640*	25,900*	11 748*	17,800*	8 073*	59,700*	27 079*	54,000*	24 493*
	60	18.29	56.6	86' 6"	26.37	39,900*	18 098*	33,000*	14 968*	20,000*	9 071*	13,300*	6 032*	47,900*	21 727*	41,400*	18 778*
	70	21.34	49.1	78' 5"	23.90	32,000*	14 514*	26,300*	11 929*	15,900*	7 212*	10,100*	4 581*	38,700*	17 554*	33,100*	15 013*
	80	24.38	40.5	67' 8"	20.62	26,500*	12 020*	21,400*	9 706*	12,800*	5 805*	7,800*	3 538*	32,000*	14 514*	27,400*	12 428*
90	27.43	29.8	52' 5"	15.97	22,200*	10 069*	17,600*	7 983*	10,400*	4 717*	5,900*	2 676*	27,100*	12 292*	22,900*	10 387*	
110' (33.53 m)	25	7.62	80.2	112' 4"	34.23	108,900*	49 397*	108,900*	49 396*	62,600*	28 394*	39,500*	17 916*	108,900*	49 396*	108,900*	49 396*
	30	9.14	77.5	111' 2"	33.88	97,300*	44 134*	96,200*	43 635*	50,700*	22 997*	32,500*	14 741*	104,600*	47 445*	104,600*	47 445*
	35	10.67	74.7	109' 9"	33.46	81,500*	36 967*	74,800*	33 928*	41,400*	18 778*	27,700*	12 564*	90,100*	40 868*	90,100*	40 868*
	40	12.19	71.9	108' 1"	32.95	69,500*	31 524*	60,600*	27 487*	34,700*	15 739*	23,600*	10 704*	77,600*	35 198*	74,900*	33 974*
	50	15.24	66.2	103' 11"	31.68	51,700*	23 450*	43,300*	19 640*	25,800*	11 702*	17,700*	8 028*	59,500*	26 988*	53,900*	24 448*
	60	18.29	60.1	98' 6"	30.02	39,900*	18 098*	33,000*	14 968*	19,900*	9 026*	13,200*	5 987*	47,800*	21 681*	41,400*	18 778*
	70	21.34	53.6	91' 6"	27.90	32,000*	14 514*	26,300*	11 929*	15,800*	7 166*	10,000*	4 535*	38,600*	17 508*	33,100*	15 013*
	80	24.38	46.5	82' 8"	25.19	26,500*	12 020*	21,300*	9 661*	12,700*	5 760*	7,700*	3 492*	32,000*	14 514*	27,300*	12 383*
90	27.43	38.4	71' 1"	21.65	22,200*	10 069*	17,700*	8 028*	10,400*	4 717*	5,900*	2 676*	27,100*	12 292*	22,900*	10 387*	
100	30.48	28.2	54' 10"	16.70	18,800*	8 527*	14,800*	6 713*	8,400*	3 810*	4,400*	1 995*	23,200*	10 523*	19,400*	8 799*	
120' (36.58 m)	30	9.14	78.6	121' 5"	37.02	97,000*	43 998*	96,300*	43 680*	50,500*	22 906*	32,200*	14 605*	97,000*	43 998*	97,000*	43 998*
	35	10.67	76.1	120' 2"	36.63	81,200*	36 831*	74,800*	33 928*	41,300*	18 733*	27,400*	12 428*	89,800*	40 732*	89,800*	40 732*
	40	12.19	73.5	118' 8"	36.17	69,300*	31 433*	60,600*	27 487*	34,600*	15 694*	23,400*	10 614*	77,300*	35 062*	74,800*	33 928*
	50	15.24	68.3	114' 11"	35.02	51,600*	23 405*	43,200*	19 595*	25,700*	11 657*	17,500*	7 937*	59,200*	26 852*	53,900*	24 448*
	60	18.29	62.9	110' 0"	33.54	39,800*	18 052*	32,900*	14 923*	19,800*	8 981*	13,100*	5 942*	47,700*	21 636*	41,300*	18 733*

① ② ③ — Refer to Page 277.00

(continued)

HC-238A hammerhead boom					"A" upper and "A" bumper ^① counterweights								"AB" upper and "A" bumper counterweights				
Length	Radius		Angle Degrees	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	
					Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	
120' (36.58 m)	70	21.34	57.2	103' 11"	31.67	31,900	14 469	26,200	11 884	15,700	7 121	9,900	4 490	38,500	17 463	33,000	14 968
	80	24.38	51.1	96' 3"	29.34	26,400	11 974	21,300	9 661	12,600	5 715	7,600	3 447	31,900	14 469	27,300	12 383
	90	27.43	44.3	86' 8"	26.41	22,100	10 024	17,600	7 983	10,300	4 672	5,800	2 630	27,100	12 292	22,800	10 341
	100	30.48	36.6	74' 3"	22.64	18,800	8 527	14,700	6 667	8,400	3 810	4,300	1 950	23,200	10 523	19,400	8 799
	110	33.53	26.9	57' 1"	17.40	16,100	7 302	12,400	5 624	6,800	3 084	3,100	1 406	20,000	9 071	16,600	7 529
130' (39.62 m)	30	9.14	79.5	131' 8"	40.14	89,100*	40 415*	89,100*	40 415*	50,400	22 861	31,900*	14 469*	89,100*	40 415*	89,100*	40 415*
	35	10.67	77.2	130' 6"	39.78	80,900*	36 695*	74,700	33 883	41,100	18 642	27,100*	12 292*	86,200*	39 099*	86,200*	39 099*
	40	12.19	74.8	129' 2"	39.36	69,000*	31 297*	60,500	27 442	34,400	15 603	23,100*	10 477*	77,000*	34 926*	74,700	33 883
	50	15.24	70.1	125' 8"	38.31	51,500	23 360	43,200	19 595	25,500	11 566	17,200*	7 801*	58,900*	26 716*	53,800	24 403
	60	18.29	65.2	121' 4"	36.97	39,700	18 007	32,700	14 832	19,600	8 890	12,900	5 851	47,500*	21 545*	41,200	18 688
	70	21.34	60.1	115' 10"	35.30	31,700	14 378	26,100	11 838	15,500	7 030	9,800	4 445	38,300	17 372	32,900	14 923
	80	24.38	54.7	109' 1"	33.24	26,300	11 929	21,200	9 616	12,500	5 669	7,400	3 356	31,700	14 378	27,200	12 337
	90	27.43	48.9	100' 9"	30.71	22,000	9 979	17,500	7 937	10,100	4 581	5,600	2 540	27,000	12 246	22,700	10 296
100	30.48	42.4	90' 6"	27.58	18,700	8 482	14,600	6 622	8,200	3 719	4,200	1 905	23,100	10 477	19,300	8 754	
110	33.53	35.0	77' 4"	23.57	16,000	7 257	12,300	5 579	6,700	3 039	3,000	1 360	20,000	9 071	16,500	7 484	
120	36.58	25.7	59' 3"	18.06	13,800	6 259	10,400	4 717	5,400	2 449	2,000	907	17,400	7 892	14,200	6 441	
140' (42.67 m)	30	9.14	80.2	141' 11"	43.25	82,100*	37 239*	82,100*	37 239*	50,200	22 770	31,500*	14 288*	82,100*	37 239*	82,100*	37 239*
	35	10.67	78.1	140' 10"	42.92	79,600*	36 105*	74,700	33 883	41,000	18 597	26,800*	12 156*	79,600*	36 105*	79,600*	36 105*
	40	12.19	76.0	139' 6"	42.53	68,700*	31 161*	60,400	27 396	34,200	15 512	22,800*	10 341*	74,600*	33 837*	74,600*	33 837*
	50	15.24	71.6	136' 4"	41.57	51,400	23 314	43,000	19 504	25,400	11 521	16,900*	7 665*	58,600*	26 580*	53,600	24 312
	60	18.29	67.1	132' 4"	40.34	39,500	17 916	32,600	14 787	19,500	8 845	12,700*	5 760*	47,200*	21 409*	41,100	18 642
	70	21.34	62.5	127' 4"	38.82	31,600	14 333	25,900	11 748	15,300	6 939	9,600	4 354	38,200	17 327	32,700	14 832
	80	24.38	57.6	121' 3"	36.97	26,100	11 838	21,000	9 525	12,300	5 579	7,300	3 311	31,600	14 333	27,000	12 246
	90	27.43	52.5	113' 11"	34.73	21,900	9 933	17,400	7 892	9,900	4 491	5,500	2 494	26,800	12 156	22,600	10 251
	100	30.48	46.9	105' 1"	32.02	18,500	8 391	14,500	6 577	8,100	3 674	4,000	1 814	22,900	10 387	19,100	8 663
	110	33.53	40.7	94' 2"	28.69	15,900	7 212	12,200	5 533	6,500	2 948	2,900	1 315	19,800	8 981	16,400	7 438
120	36.58	33.6	80' 3"	24.47	13,700	6 214	10,300	4 672	5,300	2 404	—	—	17,300	7 847	14,100	6 395	
130	39.62	24.7	61' 4"	18.70	11,800	5 352	8,700	3 946	4,200	1 905	—	—	15,100	6 849	12,200	5 533	
150' (45.72 m)	35	10.67	78.9	151' 1"	46.04	72,200*	32 749*	72,200*	32 749*	40,800	18 506	26,500*	12 020*	72,200*	32 749*	72,200*	32 749*
	40	12.19	76.9	149' 10"	45.68	68,400*	31 025*	60,300	27 351	34,000	15 422	22,500*	10 205*	68,900*	31 252*	68,900*	31 252*
	50	15.24	72.9	146' 11"	44.79	51,300	23 269	42,900	19 459	25,200	11 430	16,600*	7 529*	58,300*	26 444*	53,500	24 267
	60	18.29	68.8	143' 3"	43.66	39,400	17 871	32,500	14 741	19,300	8 754	12,500*	5 669*	46,900*	21 273*	40,900	18 551
	70	21.34	64.5	138' 8"	42.26	31,400	14 242	25,800	11 702	15,100	6 849	9,400	4 263	38,000	17 236	32,600	14 787
	80	24.38	60.1	133' 1"	40.58	26,000	11 793	20,900	9 480	12,100	5 488	7,100	3 220	31,400	14 242	26,900	12 201
	90	27.43	55.4	126' 6"	38.56	21,700	9 842	17,200	7 801	9,700	4 399	5,300	2 404	26,700	12 110	22,400	10 160
	100	30.48	50.5	118' 7"	36.15	18,400	8 346	14,300	6 486	7,900	3 583	3,900	1 769	22,800	10 341	19,000	8 618
	110	33.53	45.1	109' 2"	33.27	15,700	7 121	12,000	5 443	6,300	2 857	2,700	1 224	19,700	8 935	16,200	7 348
	120	36.58	39.2	97' 8"	29.76	13,500	6 123	10,200	4 626	5,100	2 313	—	—	17,100	7 756	14,000	6 350
130	39.62	32.4	83' 1"	25.34	11,700	5 307	8,600	3 900	4,000	1 814	—	—	15,000	6 803	12,100	5 488	
140	42.67	23.8	63' 5"	19.32	10,100	4 581	7,200	3 265	3,100	1 406	—	—	13,100	5 942	10,400	4 717	
160' (48.77 m)	35	10.67	79.7	161' 3"	49.16	63,100*	28 621*	63,100*	28 621*					63,100*	28 621*	63,100*	28 621*
	40	12.19	77.8	160' 2"	48.82	59,400*	26 943*	59,400*	26 943*					59,400*	26 943*	59,400*	26 943*
	50	15.24	74.0	157' 5"	47.99	51,100	23 178	42,800	19 413					51,500*	23 360*	51,500*	23 360*
	60	18.29	70.2	154' 0"	46.94	39,200	17 780	32,300	14 651					43,500*	19 731*	40,700	18 461
	70	21.34	66.2	149' 9"	45.65	31,200	14 152	25,600	11 611					37,700*	17 100*	32,400	14 696
	80	24.38	62.2	144' 8"	44.10	25,800	11 702	20,700	9 389					31,200	14 152	26,700	12 110
	90	27.43	57.9	138' 8"	42.26	21,500	9 752	17,000	7 711					26,500	12 020	22,300	10 115
	100	30.48	53.5	131' 6"	40.09	18,200	8 255	14,200	6 441					22,600	10 251	18,800	8 527
	110	33.53	48.7	123' 1"	37.52	15,500	7 030	11,900	5 397					19,500	8 845	16,000	7 257
	120	36.58	43.6	113' 1"	34.47	13,300	6 032	10,000	4 535					16,900	7 665	13,800	6 259
130	39.62	37.9	101' 0"	30.79	11,500	5 216	8,400	3 810					14,800	6 713	11,900	5 397	
140	42.67	31.3	85' 10"	26.17	9,900	4 491	7,100	3 220					13,000	5 896	10,300	4 672	
150	45.72	23.0	65' 4"	19.91	8,600	3 900	5,900	2 676					11,400	5 170	8,900	4 036	

①②③ — Refer to Page 277.00

(continued)

HC-238A hammerhead boom						"A" upper and "A" bumper ^① counterweights								"AB" upper and "A" bumper counterweights			
Length	Radius		Angle Degrees	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	
					Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds
170' (51.82 m)	35	10.67	80.3	171' 6"	52.26	56,000*	25 401*	56,000*	25 401*					56,000*	25 401*	56,000*	25 401*
	40	12.19	78.5	170' 5"	51.95	52,500*	23 813*	52,500*	23 813*					52,500*	23 813*	52,500*	23 813*
	50	15.24	75.0	167' 11"	51.17	44,300*	20 094*	42,600*	19 323*					44,300*	20 094*	44,300*	20 094*
	60	18.29	71.4	164' 8"	50.19	38,000*	17 236*	32,100*	14 560*					38,000*	17 236*	38,000*	17 236*
	70	21.34	67.7	160' 9"	48.98	31,000*	14 061*	25,500*	11 566*					33,300*	15 104*	32,200*	14 605*
	80	24.38	64.0	156' 0"	47.55	25,600*	11 611*	20,500*	9 298*					28,800*	13 063*	26,500*	12 020*
	90	27.43	60.1	150' 5"	45.85	21,300*	9 661*	16,800*	7 620*					25,200*	11 430*	22,100*	10 024*
	100	30.48	56.0	143' 11"	43.87	18,000*	8 164*	14,000*	6 350*					20,900*	9 480*	18,600*	8 436*
	110	33.53	51.7	136' 4"	41.55	15,300*	6 939*	11,700*	5 307*					18,800*	8 436*	15,800*	7 166*
	120	36.58	47.1	127' 5"	38.84	13,100*	5 942*	9,800*	4 445*					16,600*	7 529*	13,600*	6 168*
	130	39.62	42.2	116' 11"	35.63	11,300*	5 125*	8,200*	3 719*					14,600*	6 622*	11,700*	5 307*
	140	42.67	36.7	104' 3"	31.78	9,700*	4 399*	6,900*	3 129*					12,800*	5 805*	10,100*	4 581*
150	45.72	30.3	88' 6"	26.97	8,400*	3 810*	5,700*	2 585*					11,200*	5 080*	8,700*	3 946*	
160	48.77	22.3	67' 3"	20.49	7,200*	3 265*	4,700*	2 131*					9,900*	4 490*	7,500*	3 401*	
180' (54.86 m)	40	12.19	79.2	180' 8"	55.06	46,700*	21 182*	46,700*	21 182*					46,700*	21 182*	46,700*	21 182*
	50	15.24	75.9	178' 3"	54.33	39,000*	17 690*	39,000*	17 690*					39,000*	17 690*	39,000*	17 690*
	60	18.29	72.5	175' 3"	53.41	33,800*	15 331*	31,900*	14 469*					33,800*	15 331*	33,800*	15 331*
	70	21.34	69.1	171' 7"	52.29	29,300*	13 290*	25,300*	11 475*					29,300*	13 290*	29,300*	13 290*
	80	24.38	65.6	167' 2"	50.95	25,400*	11 521*	20,300*	9 207*					25,700*	11 657*	25,700*	11 657*
	90	27.43	61.9	162' 0"	49.37	20,800*	9 434*	16,600*	7 529*					20,800*	9 434*	20,800*	9 434*
	100	30.48	58.2	156' 0"	47.54	17,800*	8 073*	13,800*	6 259*					18,500*	8 391*	18,400*	8 346*
	110	33.53	54.2	149' 0"	45.42	15,100*	6 849*	11,500*	5 216*					16,200*	7 348*	15,600*	7 076*
	120	36.58	50.1	141' 0"	42.97	12,900*	5 851*	9,600*	4 354*					14,400*	6 531*	13,400*	6 078*
	130	39.62	45.7	131' 7"	40.11	11,100*	5 034*	8,000*	3 628*					12,900*	5 851*	11,500*	5 216*
	140	42.67	40.9	120' 7"	36.76	9,500*	4 309*	6,700*	3 039*					11,600*	5 261*	9,900*	4 490*
	150	45.72	35.6	107' 5"	32.74	8,200*	3 719*	5,600*	2 540*					10,400*	4 717*	8,500*	3 855*
160	48.77	29.4	91' 1"	27.75	7,000*	3 175*	4,600*	2 086*					9,400*	4 263*	7,300*	3 311*	
170	51.82	21.6	69' 1"	21.05	6,000*	2 721*	3,700*	1 678*					8,500*	3 855*	6,300*	2 857*	
190' (57.91 m)	40	12.19	79.8	190' 10"	58.17									40,200*	18 234*	40,200*	18 234*
	50	15.24	76.6	188' 7"	57.48									34,900*	15 830*	34,900*	15 830*
	60	18.29	73.5	185' 9"	56.61									30,000*	13 607*	30,000*	13 607*
	70	21.34	70.2	182' 3"	55.56									26,200*	11 884*	26,200*	11 884*
	80	24.38	66.9	178' 2"	54.30									21,300*	9 661*	21,300*	9 661*
	90	27.43	63.6	173' 4"	52.83									18,600*	8 436*	18,600*	8 436*
	100	30.48	60.1	167' 9"	51.13									16,300*	7 393*	16,300*	7 393*
	110	33.53	56.4	161' 4"	49.17									14,500*	6 577*	14,500*	6 577*
	120	36.58	52.6	153' 11"	46.92									12,700*	5 760*	12,700*	5 760*
	130	39.62	48.6	145' 5"	44.34									11,500*	5 216*	11,300*	5 125*
	140	42.67	44.4	135' 8"	41.34									10,200*	4 626*	9,700*	4 399*
	150	45.72	39.7	124' 2"	37.84									9,300*	4 218*	8,300*	3 764*
160	48.77	34.5	110' 6"	33.67									8,200*	3 719*	7,100*	3 220*	
170	51.82	28.5	93' 6"	28.51									7,500*	3 401*	6,100*	2 766*	
180	54.86	21.0	70' 10"	21.59									6,900*	3 129*	5,200*	2 358*	
200' (60.96 m)	50	15.24	77.3	198' 11"	60.62									31,300*	14 197*	31,300*	14 197*
	60	18.29	74.3	196' 2"	59.80									26,900*	12 201*	26,900*	12 201*
	70	21.34	71.3	192' 11"	58.81									21,800*	9 888*	21,800*	9 888*
	80	24.38	68.2	189' 1"	57.62									19,100*	8 663*	19,100*	8 663*
	90	27.43	65.0	184' 6"	56.24									16,700*	7 574*	16,700*	7 574*
	100	30.48	61.7	179' 4"	54.65									14,600*	6 622*	14,600*	6 622*
	110	33.53	58.4	173' 4"	52.83									12,800*	5 805*	12,800*	5 805*
	120	36.58	54.8	166' 6"	50.75									11,400*	5 170*	11,400*	5 170*
	130	39.62	51.2	158' 9"	48.37									10,100*	4 581*	10,100*	4 581*
	140	42.67	47.3	149' 10"	45.66									9,000*	4 082*	9,000*	4 082*

Not applicable

Not applicable

①②③ — Refer to Page 277.00

(continued)



HC-238A hammerhead boom						"A" upper and "A" bumper ^① counterweights								"AB" upper and "A" bumper counterweights			
Length	Radius		Angle	Boom point height ^②		On outriggers				On tires (static)				On outriggers only			
	Feet		Degrees	Feet	meters	Over rear		Over side and 360° swing ^③		Over rear		Over side		Over rear		Over side and 360° swing ^③	
	Feet	meters	Degrees	Feet	meters	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms
200' (60.96 m)	150	45.72	43.1	139' 7"	42.54									8,200*	3 719*	8,100	3 674
	160	48.77	38.6	127' 7"	38.90									7,300*	3 311*	6,900	3 129
	170	51.82	33.6	113' 5"	34.58									6,600*	2 993*	5,900	2 676
	180	54.86	27.8	95' 11"	29.24									6,000*	2 721*	5,000	2 267
	190	57.91	20.4	72' 7"	22.12									5,500*	2 494*	4,100	1 859
210' (64.01 m)	50	15.24	78.0	209' 2"	63.76									28,100*	12 745*	28,100*	12 745*
	60	18.29	75.1	206' 7"	62.98									24,200*	10 976*	24,200*	10 976*
	70	21.34	72.2	203' 6"	62.03									19,600*	8 890*	19,600*	8 890*
	80	24.38	69.3	199' 10"	60.91									17,000*	7 711*	17,000*	7 711*
	90	27.43	66.3	195' 7"	59.61									14,900*	6 758*	14,900*	6 758*
	100	30.48	63.2	190' 8"	58.12									13,000*	5 896*	13,000*	5 896*
	110	33.53	60.1	185' 1"	56.41									11,400*	5 170*	11,400*	5 170*
	120	36.58	56.8	178' 9"	54.47									10,100*	4 581*	10,100*	4 581*
	130	39.62	53.4	171' 6"	52.27									9,000*	4 082*	9,000*	4 082*
	140	42.67	49.8	163' 4"	49.78									8,000*	3 628*	8,000*	3 628*
	150	45.72	46.1	154' 0"	46.95									7,100*	3 220*	7,100*	3 220*
	160	48.77	42.0	143' 4"	43.69									6,500*	2 948*	6,500*	2 948*
	170	51.82	37.6	131' 0"	39.92									5,900*	2 676*	5,700	2 585
	180	54.86	32.7	116' 4"	35.46									5,300*	2 404*	4,700	2 131
	190	57.91	27.1	98' 4"	29.96									4,800*	2 177*	3,900	1 769
200	60.96	19.9	74' 3"	22.63									4,400*	1 995*	3,200	1 451	
220' (67.06 m)	50	15.24	78.5	219' 5"	66.88									25,400*	11 521*	25,400*	11 521*
	60	18.29	75.8	217' 0"	66.14									20,200*	9 162*	20,200*	9 162*
	70	21.34	73.1	214' 0"	65.24									17,700*	8 028*	17,700*	8 028*
	80	24.38	70.3	210' 7"	64.18									15,300*	6 939*	15,300*	6 939*
	90	27.43	67.4	206' 6"	62.95									13,400*	6 078*	13,400*	6 078*
	100	30.48	64.5	201' 11"	61.54									11,700*	5 307*	11,700*	5 307*
	110	33.53	61.6	196' 8"	59.93									10,300*	4 672*	10,300*	4 672*
	120	36.58	58.5	190' 8"	58.11									9,100*	4 127*	9,100*	4 127*
	130	39.62	55.3	183' 11"	56.07									8,000*	3 628*	8,000*	3 628*
	140	42.67	52.0	176' 4"	53.76									7,100*	3 220*	7,100*	3 220*
	150	45.72	48.6	167' 10"	51.15									6,400*	2 902*	6,400*	2 902*
	160	48.77	44.9	158' 1"	48.20									5,700*	2 585*	5,700*	2 585*
	170	51.82	41.0	147' 1"	44.82									5,200*	2 358*	5,200*	2 358*
	180	54.86	36.7	134' 3"	40.92									4,700*	2 131*	4,500	2 041
	190	57.91	31.9	119' 2"	36.31									4,200*	1 905*	3,700	1 678
200	60.96	26.4	100' 7"	30.66									3,900*	1 769*	3,000	1 360	
210	64.01	19.4	75' 11"	23.13									3,500*	1 587*	2,300	1 043	
230' (70.10 m)	50	15.24	79.0	229' 8"	69.99									21,000*	9 525*	21,000*	9 525*
	60	18.29	76.4	227' 4"	69.29									18,400*	8 346*	18,400*	8 346*
	70	21.34	73.8	224' 6"	68.43									15,900*	7 212*	15,900*	7 212*
	80	24.38	71.2	221' 3"	67.42									13,900*	6 304*	13,900*	6 304*
	90	27.43	68.5	217' 5"	66.26									12,000*	5 443*	12,000*	5 443*
	100	30.48	65.7	213' 0"	64.92									10,500*	4 762*	10,500*	4 762*
	110	33.53	62.9	208' 0"	63.40									9,300*	4 218*	9,300*	4 218*
	120	36.58	60.0	202' 5"	61.69									8,200*	3 719*	8,200*	3 719*
	130	39.62	57.1	196' 1"	59.77									7,300*	3 311*	7,300*	3 311*
	140	42.67	54.0	189' 0"	57.61									6,500*	2 948*	6,500*	2 948*
	150	45.72	50.8	181' 1"	55.19									5,700*	2 585*	5,700*	2 585*
	160	48.77	47.4	172' 2"	52.48									5,200*	2 358*	5,200*	2 358*
	170	51.82	43.8	162' 1"	49.41									4,600*	2 086*	4,600*	2 086*
	180	54.86	40.0	150' 8"	45.92									4,200*	1 905*	4,200*	1 905*
	190	57.91	35.8	137' 5"	41.90									3,800*	1 723*	3,500	1 587
200	60.96	31.2	121' 11"	37.15									3,400*	1 542*	2,700	1 224	
210	64.01	25.8	102' 10"	31.34									3,200*	1 451*	2,100	952	
220	67.06	18.9	77' 6"	23.62									2,900*	1 315*	—	—	

①②③ — Refer to Page 277.00

Footnotes —

①Applicable only to machines with booms 30' (9.14 m) through 180' (54.86 m) long — without jib.

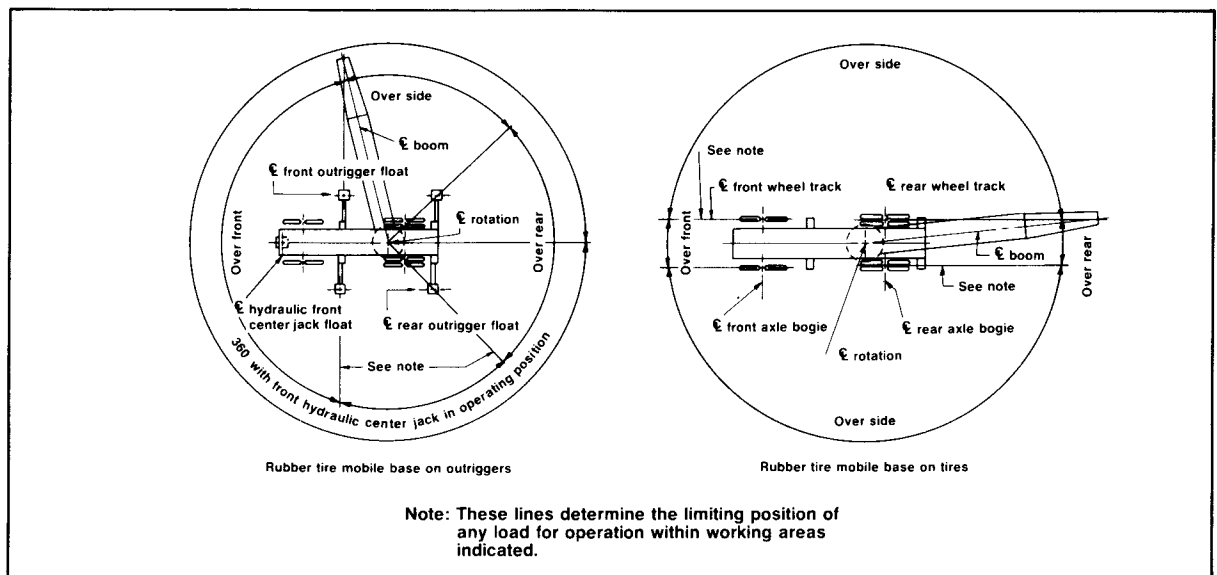
②Measured from center of boom head sheave to ground with machine standing on tires.

③Capacities 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.

1. The capacities included in this chart are the maximum allowable, and are based on machine standing level on firm supporting surface under ideal job conditions. Capacities are based on 85% of minimum tipping loads unless marked with an asterisk (*).
 - 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, 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.
3. Boom lengths exceeding 160' (48.77 m) — boom midpoint suspension pendants required.
4. Main boom lengths must not exceed 230' (70.10 m).
5. For lifting 256,000 lbs. (116 122 kg), 12-part load hoist line (1" diameter — 26 mm, Type "N" wire rope) is required. Check parts of line required for all capacities.
6. Jib cannot be used on boom lengths exceeding 200' (60.96 m).
7. Machine equipped with "AB" upper counterweight — do not swing over side until outriggers have been set.
8. Telescopic boom live mast is required for all boom lengths.
 - a. Mast **must be** used in the pinned, retracted (25' 6" — 7.77 m) position when using 30' (9.14 m) long hammerhead boom.
 - b. Mast **must be** used in the pinned, extended (30' — 9.14 m) position when using hammerhead boom lengths 40' (12.19 m) through 230' (70.10 m).
9. Capacities apply only to the machines as originally manufactured and normally equipped by FMC Corporation, Cable Crane and Excavator Division.

HC-238A working areas



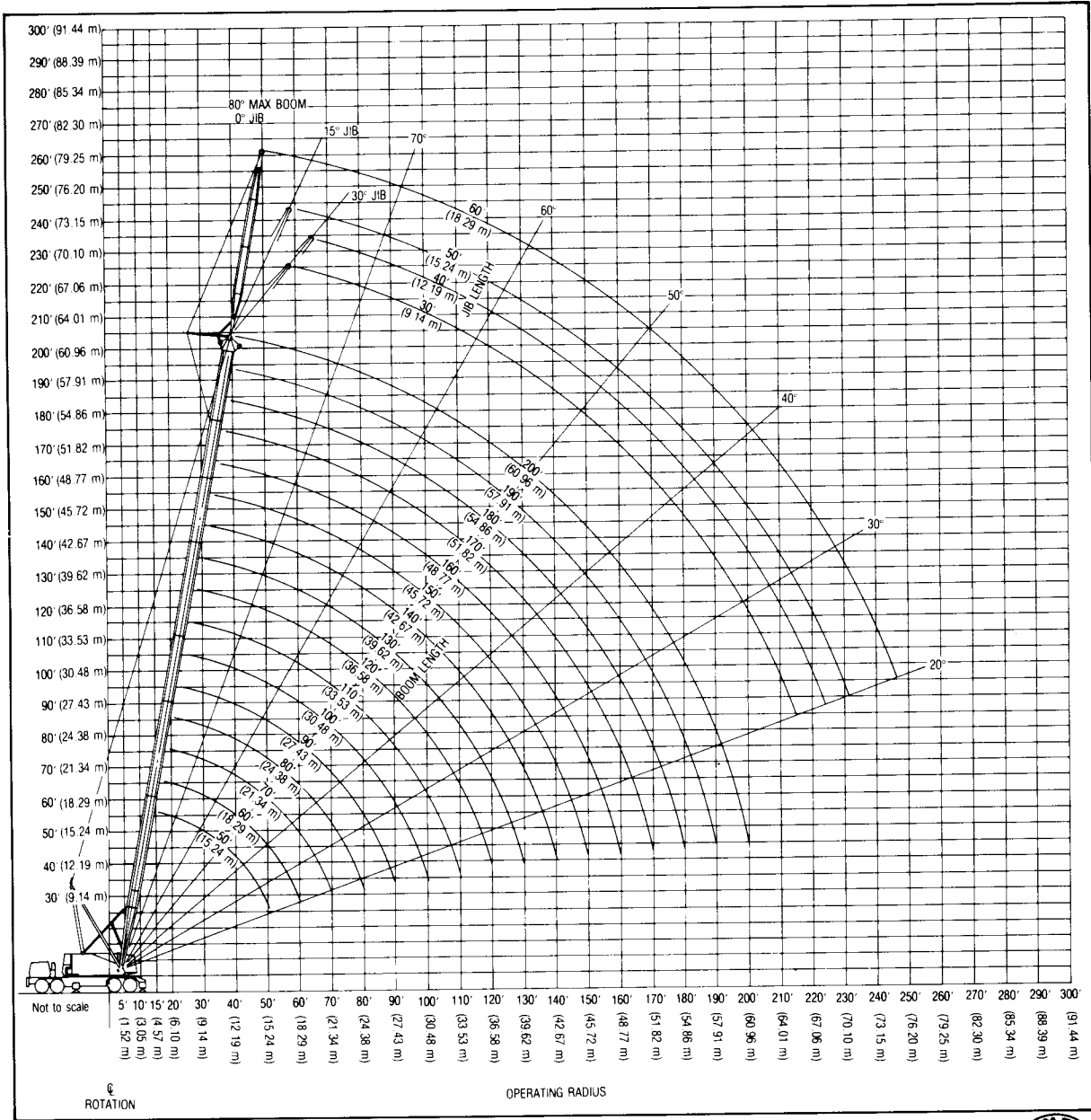


HC-238A boom/jib working ranges — hammerhead boom

Boom — tubular: 60" (1.52 m) wide, 54" (1.37 m) deep with 5' (1.52 m) long hammerhead top section, 1 3/8" (35 mm) boom pendants, boom live mast, and boom midpoint suspension pendants as required.

Jib — tubular: 36" (0.91 m) deep, 30" (0.76 m) wide. **Counterweight** — refer to charts Page 271.00

Mounting — rubber tire mobile base: FMC, 8 x 4 drive, 270" (6.86 m) wheelbase, 11' 10" (3.61 m) wide.



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)

Counterweight — Upper counterweight "AB" — 47,000 lbs. plus bumper counterweight "A" — 11,400 lbs.

Jib — tubular: 30" wide, 36" deep.

Mounting — rubber tire mobile base: FMC, 8 x 4 drive, 270" wheelbase, 11' 10" wide.

Boom — tubular: 60" wide, 54" deep with 5' long hammerhead top section, 1 3/8" diameter boom pendants, boom live mast, and boom midpoint suspension pendants as required.

Boom length	Load radius	Capacities on outriggers — over side and 360° swing											
		30' jib			40' jib			50' jib			60' 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		
50	18	29,600*											
	19	29,400*			25,400*								
	20	29,200*			25,300*								
	25	28,200*	26,200*		24,400*			21,300*			19,300*		
	30	27,200*	25,200*		23,500*	21,700*		20,500*			18,600*		
	35	26,200*	24,100*	17,600*	22,600*	20,400*		19,800*	18,100*		17,900*		
	40	25,100*	23,000*	16,400*	21,500*	19,200*	14,000*	18,900*	16,800*		17,100*	15,700*	
	50	22,800*	20,100*	14,400*	19,000*	16,600*	12,300*	16,500*	14,100*	11,000*	15,300*	13,000*	9,600*
	60	19,400*	16,200*	13,000*	16,200*	14,100*	11,000*	13,700*	11,700*	9,600*	12,500*	10,100*	8,000*
	70	15,700*	15,200*		13,400*	11,700*	10,100*	11,300*	9,800*	8,200*	9,600*	8,200*	6,600*
	100				11,200*	10,400*		9,200*	8,200*	7,200*	6,200*	5,700*	5,100*
							7,700*	7,000*		5,400*	5,000*		
60	19	29,800*											
	20	29,600*			24,800*			21,600*			19,600*		
	25	28,700*			24,000*			20,900*			18,900*		
	30	27,800*	25,600*		23,200*	21,000*		20,200*	18,600*		18,200*		
	35	26,900*	24,700*	18,200*	22,300*	19,900*	14,400*	19,500*	17,400*		17,600*	16,100*	
	40	26,000*	23,800*	17,000*	22,300*	19,900*	15,100*	19,500*	17,400*	15,000*	17,600*	16,100*	
	50	24,000*	21,700*	15,100*	20,200*	17,600*	12,700*	17,700*	15,000*	11,300*	16,200*	13,700*	
	60	21,900*	18,500*	13,700*	17,800*	15,300*	11,500*	15,200*	12,500*	10,200*	13,900*	11,200*	8,300*
	70	18,300*	15,800*	12,600*	15,300*	13,000*	10,500*	12,600*	10,800*	8,500*	11,300*	8,800*	7,100*
	80	15,600*	15,000*		12,700*	11,300*		10,700*	9,000*	7,700*	8,700*	7,500*	5,900*
	100				11,000*			8,700*	7,900*		7,400*	6,200*	5,400*
110							7,600*			5,900*	5,500*		
										5,300*			
70	25	29,100*			25,100*			21,900*					
	30	28,300*	26,000*		24,400*			21,200*			19,200*		
	35	27,500*	25,200*	18,600*	23,600*	21,400*		20,600*			18,600*		
	40	26,700*	24,300*	17,500*	22,900*	20,400*		19,900*	17,900*		18,000*		
	50	25,000*	22,600*	15,700*	21,200*	18,400*	13,100*	18,600*	15,700*	11,600*	16,700*	14,300*	
	60	23,100*	20,200*	14,200*	19,100*	16,300*	11,900*	16,400*	13,500*	10,500*	15,000*	12,000*	8,600*
	70	20,800*	17,200*	13,200*	16,800*	14,300*	11,000*	14,100*	11,600*	9,200*	12,600*	9,600*	7,500*
	80	17,400*	15,600*		14,600*	12,100*	10,200*	11,900*	10,000*	8,100*	10,100*	8,200*	6,400*
	90	15,500*			12,100*	11,100*		10,200*	8,500*	7,400*	8,300*	7,000*	5,700*
	100				10,900*			8,400*	7,600*		7,000*	5,900*	5,200*
	110							7,400*			5,800*	5,400*	
										5,200*			
80	25	29,400*			25,300*			21,500*			19,400*		
	30	28,700*	26,300*		24,700*			20,900*			18,800*		
	35	28,000*	25,500*		24,000*	21,800*		20,300*			18,300*		
	40	27,200*	24,800*	17,900*	23,300*	20,900*		20,300*	18,300*		18,300*		
	50	25,700*	23,200*	16,200*	22,000*	19,100*	13,500*	19,100*	16,300*	11,800*	17,100*	14,900*	
	60	24,100*	21,500*	14,800*	20,100*	17,100*	12,300*	17,400*	14,300*	10,700*	15,900*	12,800*	8,800*
	70	22,400*	18,900*	13,700*	18,100*	15,300*	11,300*	15,300*	12,200*	9,700*	13,800*	10,600*	7,800*
	80	19,800*	16,100*	12,800*	16,000*	13,400*	10,600*	13,100*	10,900*	8,500*	11,500*	8,700*	6,800*
	90	16,600*	15,400*		13,900*	11,700*	10,000*	11,300*	9,400*	7,800*	9,100*	7,600*	5,900*
	100				11,800*	10,800*		9,700*	8,200*	7,100*	7,900*	6,500*	5,500*
	110				10,700*			8,300*	7,400*		6,700*	5,700*	5,100*
120							7,300*			5,700*	5,300*		
										5,200*			

(continued)

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LINK-BELT (FMC)

P. 281.00

Printed in U.S.A.

HC-238A jib capacities — hammerhead boom (U.S. units)

Refer to Notes page 291.00

Boom length	Load radius	Capacities on outriggers — over side and 360° swing											
		30' jib			40' jib			50' jib			60' 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	29,700*			24,900*			21,700*			19,600*		
	30	29,000*			24,300*			21,200*			19,100*		
	35	28,300*	25,800*		23,700*			20,600*	18,600*		18,600*		
	40	27,700*	25,200*	18,300*	22,500*	19,600*	13,700*	19,500*	16,800*		17,500*	15,300*	
	50	26,300*	23,800*	16,600*	22,500*	19,600*	17,900*	18,200*	15,000*		16,400*	13,400*	9,000*
	60	24,900*	22,300*	15,200*	20,900*	17,900*	17,900*	18,200*	15,000*	11,000*	17,500*	15,300*	
	70	23,400*	20,200*	14,100*	19,100*	16,100*	11,700*	16,300*	13,000*	10,100*	14,800*	11,400*	8,100*
	80	21,700*	17,800*	13,300*	17,200*	14,400*	10,900*	14,300*	11,500*	8,900*	12,700*	9,300*	7,200*
	90	19,000*	15,800*	12,600*	15,400*	12,600*	10,300*	12,300*	10,200*	8,100*	10,600*	8,200*	6,200*
	100	16,000*	15,300*		13,400*	11,500*		10,900*	8,800*	7,500*	8,700*	7,200*	5,700*
	110	15,300*			11,600*	10,600*		9,300*	8,000*		7,600*	6,100*	5,300*
	120				10,600*			8,100*	7,200*		6,400*	5,600*	
	130							7,200*			5,700*	5,100*	
	140										5,100*		
100	30	29,300*			25,200*			21,900*			19,300*		
	35	28,700*	26,100*		24,600*			21,400*			18,800*		
	40	28,100*	25,500*	18,700*	24,000*	21,600*		20,900*			17,800*		
	50	26,800*	24,200*	17,000*	22,900*	20,100*	14,000*	19,900*	17,200*		17,800*	15,700*	
	60	25,500*	22,900*	15,700*	21,600*	18,500*	12,900*	18,800*	15,500*	11,200*	16,800*	13,900*	9,400*
	70	24,200*	21,300*	14,600*	20,000*	16,800*	12,000*	17,200*	13,800*	10,300*	15,600*	12,000*	8,300*
	80	22,700*	19,200*	13,700*	18,300*	15,300*	11,200*	15,400*	12,100*	9,400*	13,700*	10,100*	7,500*
	90	20,800*	16,800*	12,900*	16,500*	13,700*	10,600*	13,500*	10,900*	8,400*	11,700*	8,600*	6,600*
	100	18,300*	15,700*		14,800*	11,900*	10,100*	11,800*	9,700*	7,900*	10,100*	9,700*	7,700*
	110	15,900*	15,200*		12,900*	11,200*		10,500*	8,400*	7,300*	8,300*	6,800*	5,500*
	120	15,000*			11,500*	10,400*		9,000*	7,800*		7,300*	5,900*	5,200*
	130				10,500*			8,000*	7,100*		6,200*	5,500*	
	140							7,100*			5,600*	5,100*	
	150										5,100*		
110	30	29,500*			25,400*			21,600*			19,500*		
	35	28,900*	26,300*		24,900*			21,100*			19,000*		
	40	28,400*	25,700*		24,300*			20,200*			18,100*		
	50	27,200*	24,600*	17,400*	23,300*	20,400*	14,200*	19,200*	17,600*		17,100*	16,000*	
	60	26,000*	23,400*	16,000*	22,200*	19,000*	13,100*	18,000*	16,000*	11,400*	16,200*	12,600*	8,500*
	70	24,800*	22,100*	15,000*	20,700*	17,500*	12,200*	17,900*	14,400*	10,500*	16,200*	12,600*	8,500*
	80	23,500*	20,300*	14,100*	19,200*	16,000*	11,500*	16,200*	12,700*	9,800*	14,600*	10,900*	7,700*
	90	22,200*	18,200*	13,300*	17,600*	14,500*	10,900*	14,500*	11,500*	8,700*	12,800*	9,000*	6,900*
	100	19,800*	16,000*	12,700*	15,900*	13,000*	10,300*	12,700*	10,400*	8,100*	10,900*	8,200*	6,100*
	110	17,000*	15,500*		14,300*	11,700*	9,900*	11,400*	9,200*	7,600*	8,900*	7,300*	5,700*
	120	14,800*	15,000*		12,400*	11,000*		10,100*	8,300*	7,000*	8,000*	6,400*	5,400*
	130	12,900*			11,400*	10,300*		8,700*	7,600*		7,000*	5,800*	5,000*
	140				10,400*			7,900*			6,000*	5,400*	
	150							7,000*			5,500*	5,000*	
160										5,000*			
120	30	29,700*			25,100*			21,800*			19,600*		
	35	29,200*			24,600*			21,300*			19,200*		
	40	28,700*	26,000*		24,900*			20,400*			18,300*		
	50	27,600*	24,900*	17,700*	23,600*	20,800*	14,400*	20,400*	17,900*		18,300*	16,200*	
	60	26,500*	23,800*	16,400*	22,600*	19,400*	13,400*	19,500*	16,400*	11,500*	17,400*	14,700*	
	70	25,400*	22,600*	15,300*	21,400*	18,000*	12,500*	18,600*	14,900*	10,700*	16,500*	13,100*	
	80	24,200*	21,200*	14,400*	19,900*	16,600*	11,700*	17,000*	13,400*	10,100*	15,300*	11,500*	8,700*
	90	23,000*	19,400*	13,700*	18,500*	15,300*	11,100*	15,400*	12,000*	9,200*	13,600*	9,800*	7,200*
	100	19,600*	17,400*	13,000*	16,900*	13,900*	10,600*	13,700*	10,900*	8,400*	11,900*	8,600*	6,400*
	110	16,800*	15,800*	12,500*	15,400*	12,400*	10,100*	12,100*	9,900*	7,900*	10,100*	7,800*	5,800*
	120	14,600*	14,800*		13,800*	11,500*		11,000*	8,700*	7,400*	8,600*	6,900*	5,600*
	130	12,700*	12,900*		12,000*	10,900*		9,700*	8,100*		7,700*	6,000*	5,200*
	140	11,100*			11,200*			8,500*	7,500*		6,800*	5,700*	
	150				10,000*			7,800*			5,900*	5,300*	
160							7,000*			5,500*			
170										5,000*			

(continued)

Boom length	Load radius	Capacities on outriggers — over side and 360° swing															
		30' jib			40' jib			50' jib			60' 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	29,400*			25,200*			22,000*									
	40	28,900*	26,200*		24,800*			21,500*				19,400*					
	50	27,900*	25,200*	18,000*	23,800*	21,100*		20,700*	18,200*			18,500*					
	60	26,900*	24,100*	16,700*	22,900*	19,800*		19,800*	16,800*			17,700*					
	70	25,800*	23,100*	15,600*	21,900*	18,500*	13,600*	19,800*	15,400*	11,700*		16,800*	13,600*				8,800*
	80	24,800*	22,000*	14,800*	20,600*	17,200*	12,000*	17,700*	13,900*	10,200*		16,000*	12,000*				8,200*
	90	22,800*	20,300*	14,000*	19,200*	15,900*	11,400*	16,200*	12,400*	9,600*		14,400*	10,500*				7,500*
	100	19,400*	18,500*	13,300*	17,800*	14,600*	10,800*	14,600*	11,500*	8,600*		12,800*	8,900*				6,700*
	110	16,600*	16,600*	12,800*	16,300*	13,300*	10,400*	13,000*	10,500*	8,100*		11,100*	8,200*				6,000*
	120	14,400*	14,600*		14,600*	11,900*	10,000*	11,700*	9,400*	7,700*		9,400*	7,400*				5,700*
	130	12,500*	12,700*		12,700*	11,300*		10,600*	8,400*	7,200*		8,300*	6,600*				5,400*
	140	10,900*			11,200*	10,700*		9,400*	7,900*			7,500*	5,900*				5,100*
	150	9,600*			9,800*			8,400*	7,400*			6,600*	5,600*				
	160				8,600*			7,700*				5,800*	5,200*				
170											5,400*						
140	35	29,600*			25,400*			21,700*				19,500*					
	40	29,100*	26,300*		25,000*			20,900*				18,700*					
	50	28,200*	25,400*	18,200*	24,100*	21,300*		20,100*	18,500*			17,900*					
	60	27,200*	24,400*	17,000*	23,200*	20,100*	13,800*	20,100*	17,200*	11,800*		16,100*	15,400*				
	70	26,300*	23,500*	16,000*	22,300*	18,900*	12,900*	19,200*	15,800*	11,100*		15,100*	14,000*				9,000*
	80	25,300*	22,400*	15,100*	21,200*	17,700*	12,000*	18,300*	14,500*	10,400*		14,500*	12,500*				8,300*
	90	22,600*	21,100*	14,300*	19,800*	16,400*	11,600*	16,900*	13,000*	9,800*		14,700*	11,000*				7,700*
	100	19,100*	19,500*	13,700*	18,400*	15,300*	11,000*	15,400*	11,900*	9,000*		13,500*	9,500*				7,000*
	110	16,400*	16,800*	13,100*	16,600*	14,000*	10,600*	14,000*	11,000*	8,300*		12,000*	8,500*				6,300*
	120	14,200*	14,500*	12,600*	14,400*	12,700*	10,200*	12,400*	10,000*	7,900*		10,400*	7,800*				5,800*
	130	12,300*	12,500*		12,500*	11,700*	9,800*	11,400*	9,000*	7,400*		8,800*	7,100*				5,600*
	140	10,700*	10,900*		10,900*	11,200*		10,300*	8,300*	6,500*		8,100*	6,300*				5,000*
	150	9,400*			9,600*	9,800*		9,100*	7,800*			7,300*	5,800*				4,300*
	160	8,200*			8,400*			8,300*	7,200*			6,400*	5,500*				
170							7,500*				5,800*	5,100*					
180											5,400*						
150	35	29,700*			25,100*			21,800*				19,700*					
	40	29,300*			24,300*			21,100*				18,900*					
	50	28,400*	25,600*	18,500*	23,500*	20,400*		20,300*	17,500*			18,200*	15,700*				
	60	27,500*	24,700*	17,300*	22,600*	19,300*	13,100*	19,300*	16,200*	11,200*		17,400*	14,300*				9,300*
	70	26,600*	23,800*	16,200*	21,400*	18,100*	12,400*	19,500*	16,200*	10,600*		16,200*	13,000*				8,500*
	80	25,700*	22,800*	15,400*	19,800*	16,900*	11,800*	18,400*	14,900*	9,300*		14,800*	11,600*				7,900*
	90	22,400*	21,800*	14,600*	18,400*	15,800*	11,200*	16,900*	13,600*	10,000*		13,500*	10,100*				7,200*
	100	18,900*	19,400*	13,900*	16,400*	14,700*	10,800*	15,600*	12,300*	9,300*		12,400*	8,800*				6,600*
	110	16,200*	16,600*	13,400*	14,100*	13,500*	10,200*	14,500*	11,400*	8,500*		11,300*	8,200*				6,000*
	120	13,900*	14,300*	12,900*	12,300*	12,200*	9,000*	13,300*	10,500*	7,800*		11,300*	8,200*				5,900*
	130	12,100*	12,300*	12,100*	10,700*	11,000*		12,000*	9,600*	7,000*		9,700*	7,500*				5,400*
	140	10,500*	10,700*		9,300*	9,600*		10,800*	8,600*	6,100*		8,600*	6,800*				4,700*
	150	9,100*	9,300*		8,100*	8,400*		9,500*	8,100*			7,800*	6,000*				4,100*
	160	8,000*			7,100*			8,300*	7,600*			7,000*	5,700*				
170	6,900*						7,300*	7,100*			6,200*	5,400*					
180							6,400*				5,700*	5,100*					
190											5,300*						
160	40	29,500*			25,300*			22,000*				19,100*					
	50	28,600*	25,800*	18,700*	24,500*	21,800*		21,200*	17,700*			18,400*	16,000*				
	60	27,800*	24,900*	17,500*	23,700*	20,700*	14,100*	20,500*	16,500*	11,300*		17,600*	14,700*				9,500*
	70	26,900*	24,100*	16,500*	22,900*	19,600*	13,300*	19,800*	15,300*	10,700*		16,200*	13,400*				8,600*
	80	26,100*	23,200*	15,600*	21,300*	18,500*	12,600*	18,400*	15,300*	10,200*		16,200*	13,400*				8,000*
	90	22,100*	22,000*	14,900*	19,800*	17,400*	12,000*	16,900*	14,100*	9,600*		14,800*	12,000*				8,000*
100	18,700*	19,200*	14,200*	18,400*	16,300*	11,400*	15,600*	12,800*	9,600*		13,600*	10,700*				7,400*	
110	15,900*	16,400*	13,600*	16,100*	15,100*	10,900*	14,500*	11,800*	8,400*		12,500*	9,300*				6,700*	

(continued)

HC-238A jib capacities — hammerhead boom (U.S. units)

Refer to Notes page 291.00

Boom length	Load radius	Capacities on outriggers — over side and 360° swing											
		30' jib			40' jib			50' jib			60' 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	120	13,700	14,100	12,300*	13,900	13,500*	9,500*	13,500*	11,000*	7,300*	11,600*	8,500*	5,800*
	130	11,800	12,100	10,800*	12,000	12,000*	8,300*	12,200	10,100*	6,400*	10,700*	7,800*	5,000*
	140	10,300	10,500		10,400	10,800	7,400*	10,600	9,200*	5,600*	9,100*	7,200*	4,400*
	150	8,900	9,100		9,100	9,400		9,200	8,200*	5,000*	8,300*	6,500*	3,800*
	160	7,700	7,900		7,900	8,100		8,100	7,300*		7,600*	5,900*	3,400*
	170	6,700			6,900	7,100		7,000	6,600*		6,800*	5,600*	
	180				6,000			6,100	6,000*		6,000*	5,100*	
	190							5,300			5,400	4,600*	
	200										4,700		
	170	40	29,600*			25,400*							
50		28,800*	25,900*		24,700*	22,000*		21,400*			19,200*		
60		28,000*	25,200*		23,900*	21,000*		20,700*			18,500*	16,100*	
70		26,400*	24,300*	17,700*	22,800*	19,900*	14,300*	19,900*	16,800*	11,500*	17,700*	15,000*	
80		23,600*	22,400*	15,900*	21,200*	18,900*	12,800*	18,300*	15,700*	10,800*	16,100*	13,700*	8,800*
90		21,000*	19,700*	15,100*	19,300*	17,500*	12,200*	16,800*	14,500*	10,300*	14,800*	12,500*	8,200*
100		18,400	17,500*	14,300*	17,100*	15,300*	11,400*	15,600*	13,300*	9,100*	13,500*	11,200*	7,300*
110		15,700	15,600*	12,600*	15,400*	13,600*	10,000*	14,200*	12,000*	7,900*	12,500*	9,900*	6,400*
120		13,400	13,800	11,200*	13,600	12,100*	8,800*	12,700*	10,500*	6,900*	11,400*	8,800*	5,400*
130		11,600	11,900	9,800*	11,700	10,700*	7,700*	11,300*	9,300*	5,900*	10,300*	8,000*	4,700*
140		10,000	10,300	8,800*	10,200	9,600*	6,700*	10,100*	8,200*	5,300*	9,100*	7,100*	4,200*
150		8,600	8,900		8,800	8,600*	5,900*	8,900	7,400*	4,600*	8,200*	6,400*	3,600*
160		7,500	7,700		7,600	7,700*		7,800	6,600*	4,100*	7,400*	5,700*	3,200*
170		6,400	6,600		6,600	6,900		6,700	5,900*		6,700*	5,000*	2,900*
180		5,500			5,700			5,800	5,300*		5,900	4,600*	
190				4,900			5,000			5,100	4,100*		
200							4,300			4,400	3,800*		
210										3,800			
180	40	29,800*			24,800*								
	50	29,000*	26,100*		24,100*	21,200*		21,500*			19,400*		
	60	26,400*	25,300*	17,900*	21,800*	20,200*	14,400*	20,900*	18,200*	11,600*	18,700*	16,200*	
	70	23,500*	22,600*	17,000*	20,200*	18,600*	13,600*	19,700*	17,100*	11,000*	17,500*	15,200*	
	80	20,900*	19,800*	16,100*	19,400*	17,800*	12,900*	17,800*	15,900*	11,000*	16,000*	14,000*	8,900*
	90	18,600*	17,500*	14,900*	17,300*	15,700*	12,300*	15,900*	13,900*	9,900*	14,500*	12,200*	8,200*
	100	16,500*	15,500*	13,000*	15,300*	13,800*	10,700*	14,100*	12,200*	8,500*	13,000*	10,600*	6,900*
	110	14,700*	13,800*	11,400*	13,600*	12,100*	9,200*	12,500*	10,800*	7,400*	11,400*	9,300*	5,900*
	120	13,200	12,300*	10,100*	12,100*	10,800*	8,000*	11,100*	9,400*	6,300*	10,100*	8,200*	5,100*
	130	11,300	10,900*	8,900*	10,900*	9,700*	7,000*	9,900*	8,300*	5,600*	9,100*	7,300*	4,400*
	140	9,700	9,700*	8,000*	9,700*	8,500*	6,200*	8,900*	7,400*	4,800*	8,200*	6,500*	3,900*
	150	8,400	8,700	7,000*	8,600	7,600*	5,500*	8,000*	6,700*	4,300*	7,200*	5,800*	3,400*
	160	7,200	7,400		7,400	7,000*		7,300*	5,900*	3,900*	6,500*	5,100*	3,000*
	170	6,200	6,400		6,300	6,200*		6,500	5,300*		5,900*	4,500*	2,700*
	180	5,300	5,400		5,400	5,700		5,600	4,800*		5,300*	4,100*	
190	4,500			4,600			4,800	4,400*		4,900	3,700*		
200				3,900			4,000			4,100	3,400*		
210							3,400			3,500			
220										2,900			
190	50	26,500*	25,700*		24,700*			21,700*			19,500*		
	60	23,800*	22,800*	18,100*	21,900*	20,800*		20,400*			18,800*	14,700*	
	70	21,000*	20,100*	17,200*	19,600*	18,300*	13,800*	18,200*	16,400*	11,700*	16,700*	12,800*	9,000*
	80	18,700*	17,800*	15,500*	17,400*	15,900*	13,000*	16,000*	14,400*	10,800*	14,800*	11,200*	7,600*
	90	16,700*	15,800*	13,500*	15,400*	14,100*	11,300*	14,100*	12,700*	9,300*	13,200*	9,700*	6,500*
	100	14,700*	13,800*	11,800*	13,500*	12,300*	9,600*	12,600*	11,000*	8,000*	11,600*	10,200*	5,500*
110	13,000*	12,200*	10,400*	12,200*	10,900*	8,400*	11,000*	9,700*	6,900*	10,200*	8,500*	5,500*	
120	11,700*	10,800*	9,100*	10,800*	9,700*	7,400*	9,800*	8,500*	6,000*	9,100*	7,400*	4,800*	

(continued)

HC-238A jib capacities — hammerhead boom (U.S. units)

Refer to Notes page 291.00

Boom length Feet	Load radius Feet	Capacities on outriggers — over side and 360° swing											
		30° jib			40° jib			50° jib			60° jib		
		Jib angles to boom (jib offset degrees)											
		0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
Pounds			Pounds			Pounds			Pounds				
190	130	10,400*	9,600*	8,000*	9,600*	8,600*	6,400*	8,800*	7,600*	5,100*	8,100*	6,600*	4,100*
	140	9,300*	8,700*	7,200*	8,600*	7,700*	5,700*	7,900*	6,700*	4,500*	7,200*	5,800*	3,600*
	150	8,100	7,900*	6,400*	7,800*	6,900*	5,100*	7,100*	5,900*	3,900*	6,400*	5,200*	3,100*
	160	7,000	7,000*		7,000*	6,100*	4,500*	6,300*	5,300*	3,500*	5,800*	4,600*	2,800*
	170	5,900	6,200		6,100	5,600*		5,700*	4,800*	3,100*	5,200*	4,100*	2,500*
	180	5,000	5,200		5,200	5,000*		5,200*	4,300*		4,700*	3,600*	2,200*
	190	4,200			4,400	4,600		4,500	3,900*		4,300*	3,300*	
	200	3,500			3,600			3,800	3,500*		3,900	3,000*	
	210				3,000			3,100			3,200	2,800*	
	220							2,500			2,600		
	230										2,100		
200	50	23,900*			22,300*			20,700*			19,300*		
	60	21,300*	20,600*	18,300*	19,900*	18,900*		18,400*	17,300*		17,200*		
	70	18,900*	18,200*	16,000*	17,500*	16,600*	13,900*	16,300*	15,000*	11,800*	15,100*	13,600*	
	80	16,700*	16,000*	14,100*	15,600*	14,500*	12,000*	14,400*	13,000*	10,000*	13,200*	11,800*	8,400*
	90	14,800*	14,100*	12,100*	13,700*	12,700*	10,300*	12,800*	11,500*	8,600*	11,800*	10,200*	7,100*
	100	13,100*	12,400*	10,800*	12,200*	11,100*	8,900*	11,300*	9,900*	7,400*	10,300*	8,900*	6,100*
	110	11,600*	11,000*	9,300*	10,800*	9,800*	7,800*	9,900*	8,700*	6,400*	9,200*	7,800*	5,200*
	120	10,300*	9,800*	8,200*	9,600*	8,700*	6,700*	8,800*	7,700*	5,400*	8,000*	6,800*	4,500*
	130	9,300*	8,700*	7,300*	8,500*	7,600*	5,800*	7,900*	6,800*	4,700*	7,200*	5,900*	3,800*
	140	8,300*	7,700*	6,400*	7,600*	6,900*	5,100*	6,900*	6,000*	4,100*	6,300*	5,300*	3,400*
	150	7,500*	6,900*	5,700*	6,900*	6,100*	4,500*	6,200*	5,300*	3,700*	5,700*	4,700*	2,600*
	160	6,700	6,200*	5,100*	6,200*	5,500*	4,100*	5,600*	4,800*	3,300*	5,100*	4,200*	2,300*
	170	5,700	5,600*		5,500*	4,900*	3,600*	5,100*	4,300*	2,900*	4,600*	3,700*	2,000*
	180	4,800	5,000		4,900	4,400*		4,500*	3,800*	2,600*	4,100*	3,300*	
	190	4,000	4,100		4,100	4,000*		4,100*	3,400*		3,500	3,200*	
	200	3,200			3,400	3,600		3,500	3,200*		3,200*		
	210	2,600			2,700			2,900	2,900*				
220				2,100			2,300						

GAY-125

TRUCK CRANES

LINK-BELT (FMC)

P. 285.00

Boom — tubular: 60" wide, 54" deep with 5' long hammerhead top section, 1 3/8" diameter boom pendants, boom live mast, and boom midpoint suspension pendants as required.

Jib — tubular: 30" wide, 36" deep.

Mounting — rubber tire mobile base: FMC, 8 x 4 drive, 270" wheelbase, 11' 10" wide.

Counterweight — Upper counterweight "AB" — 47,000 lbs. plus bumper counterweight "A" — 11,400 lbs.

HC-238A jib capacities — hammerhead boom (U.S. units)

Refer to Notes page 291.00

Boom length	Load radius	Capacities on outriggers — over rear only											
		30' jib			40' jib			50' jib			60' 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		
50	18	29,600*			25,400*								
	19	29,400*			25,300*								
	20	29,200*			25,300*								
	25	28,200*	26,200*		24,400*			21,300*			19,300*		
	30	27,200*	25,200*		23,500*	21,700*		20,500*			18,600*		
	35	26,200*	24,100*	17,600*	22,600*	20,400*		19,800*	18,100*		17,900*		
	40	25,100*	23,000*	16,400*	21,500*	19,200*	14,000*	18,900*	16,800*		17,100*	15,700*	
	50	22,800*	20,100*	14,400*	19,000*	16,600*	12,300*	16,500*	14,100*	11,000*	15,300*	13,000*	9,600*
	60	19,400*	16,200*	13,000*	16,200*	14,100*	11,000*	13,700*	11,700*	9,600*	12,500*	10,100*	8,000*
	70	15,700*	15,200*		13,400*	11,700*	10,100*	11,300*	9,800*	8,200*	9,600*	8,200*	6,600*
	80				11,200*	10,400*		9,200*	8,200*	7,200*	7,800*	6,700*	5,700*
90							7,700*	7,000*		6,200*	5,700*	5,100*	
100										5,400*	5,000*		
60	19	29,800*			24,800*			21,600*			19,600*		
	20	29,600*			24,000*			20,900*			18,900*		
	25	28,700*			24,000*			20,900*			18,900*		
	30	27,800*	25,600*		23,200*	21,000*		20,200*	18,600*		18,200*		
	35	26,900*	24,700*	18,200*	22,300*	19,900*		19,500*	17,400*		17,600*		
	40	26,000*	23,800*	17,000*	22,300*	19,900*	14,400*	19,500*	17,400*		16,200*	16,100*	
	50	24,000*	21,700*	15,100*	20,200*	17,600*	12,700*	17,700*	15,000*	11,300*	16,200*	13,700*	
	60	21,900*	18,500*	13,700*	17,800*	15,300*	11,500*	15,200*	12,500*	10,200*	13,900*	11,200*	8,300*
	70	18,300*	15,800*	12,600*	15,300*	13,000*	10,500*	12,600*	10,800*	8,500*	11,300*	8,800*	7,100*
	80	15,600*	15,000*		12,700*	11,300*		10,700*	9,000*	7,700*	8,700*	7,500*	5,900*
	90				11,000*			8,700*	7,900*		7,400*	6,200*	5,400*
100							7,600*			5,900*	5,500*		
110										5,300*			
70	25	29,100*			25,100*			21,900*			19,200*		
	30	28,300*	26,000*		24,400*			21,200*			18,600*		
	35	27,500*	25,200*		23,600*	21,400*		20,600*			18,000*		
	40	26,700*	24,300*	19,000*	22,900*	20,400*		19,900*	17,900*		18,000*		
	50	25,000*	22,600*	15,700*	21,200*	18,400*	13,100*	18,600*	15,700*	11,600*	16,700*	14,300*	
	60	23,100*	20,200*	14,200*	19,100*	16,300*	11,900*	16,400*	13,500*	10,500*	15,000*	12,000*	8,600*
	70	20,800*	17,200*	13,200*	16,800*	14,300*	11,000*	14,100*	11,600*	9,200*	12,600*	9,600*	7,500*
	80	17,400*	15,600*		14,600*	12,100*	10,200*	11,900*	10,000*	8,100*	10,100*	8,200*	6,400*
	90	15,500*			12,100*	11,100*		10,200*	8,500*	7,400*	8,300*	7,000*	5,700*
	100				10,900*			8,400*	7,600*		7,000*	5,900*	5,200*
	110							7,400*			5,800*	5,400*	
120										5,200*			
80	25	29,400*			25,300*			21,500*			19,400*		
	30	28,700*	26,300*		24,700*			20,900*			18,800*		
	35	28,000*	25,500*		24,000*	21,800*		20,900*			18,300*		
	40	27,200*	24,800*	17,900*	23,300*	20,900*		20,300*	18,300*		18,300*		
	50	25,700*	23,200*	16,200*	22,000*	19,100*	13,500*	19,100*	16,300*	11,800*	17,100*	14,900*	
	60	24,100*	21,500*	14,800*	20,100*	17,100*	12,300*	17,400*	14,300*	10,700*	15,900*	12,800*	8,800*
	70	22,400*	18,900*	13,700*	18,100*	15,300*	11,300*	15,300*	12,200*	9,700*	13,800*	10,600*	7,800*
	80	19,800*	16,100*	12,800*	16,000*	13,400*	10,600*	13,100*	10,900*	8,500*	11,500*	8,700*	6,800*
	90	16,600*	15,400*		13,900*	11,700*	10,000*	11,300*	9,400*	7,800*	9,100*	7,600*	5,900*
	100				11,800*	10,800*		9,700*	8,200*	7,100*	7,900*	6,500*	5,500*
	110				10,700*			8,300*	7,400*		6,700*	5,700*	5,100*
120							7,300*			5,700*	5,300*		
130										5,200*			

(continued)

Boom length	Load radius	Capacities on outriggers — over rear only											
		30' jib			40' jib			50' jib			60' 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	29,700*			24,900*			21,700*			19,600*		
	30	29,000*			24,300*			21,200*			19,100*		
	35	28,300*	25,800*		23,700*			20,600*	18,600*		18,600*		
	40	27,700*	25,200*	18,700*	23,000*	21,300*	13,700*	20,000*	18,000*		17,500*	15,300*	9,000*
	50	26,300*	23,800*	16,600*	22,500*	19,600*	13,700*	19,500*	16,800*		17,500*	15,300*	9,000*
	60	24,900*	22,300*	15,200*	20,900*	17,900*	12,600*	18,200*	15,000*	11,000*	16,400*	13,400*	9,000*
	70	23,400*	20,200*	14,100*	19,100*	16,100*	11,700*	16,300*	13,000*	10,100*	14,800*	11,400*	8,100*
	80	21,700*	17,800*	13,300*	17,200*	14,400*	10,900*	14,300*	11,500*	8,900*	12,700*	9,300*	7,200*
	90	19,000*	15,800*	12,600*	15,400*	12,600*	10,300*	12,300*	10,200*	8,100*	10,600*	8,200*	6,200*
	100	16,000*	15,300*		13,400*	11,500*		10,900*	8,800*	7,500*	8,700*	7,200*	5,700*
	110	15,300*			11,600*	10,600*		9,300*	8,000*		7,600*	6,100*	5,300*
	120				10,600*			8,100*	7,200*		6,400*	5,600*	
	130							7,200*			5,700*	5,100*	
	140										5,100*		
100	30	29,300*			25,200*			21,900*			19,300*		
	35	28,700*	26,100*		24,600*			21,400*			18,800*		
	40	28,100*	25,500*	19,000*	24,000*	21,600*		20,900*			18,800*		
	50	26,800*	24,200*	17,000*	22,900*	20,100*	14,000*	19,900*	17,200*		17,800*	15,700*	9,400*
	60	25,500*	22,900*	15,700*	21,600*	18,500*	12,900*	18,800*	15,500*	11,200*	16,800*	13,900*	8,300*
	70	24,200*	21,300*	14,600*	20,000*	16,800*	12,000*	17,200*	13,800*	10,300*	15,600*	12,000*	8,300*
	80	22,700*	19,200*	13,700*	18,300*	15,300*	11,200*	15,400*	12,100*	9,400*	13,700*	10,100*	7,500*
	90	20,800*	16,800*	12,900*	16,500*	13,700*	10,600*	13,500*	10,900*	8,400*	11,700*	8,600*	6,600*
	100	18,300*	15,700*		14,800*	11,900*		11,800*	9,700*	7,900*	9,700*	7,700*	5,900*
	110	15,900*	15,200*		12,900*	11,200*		10,500*	8,400*	7,300*	8,300*	6,800*	5,500*
	120	15,300*			11,500*	10,400*		9,000*	7,800*		7,300*	5,900*	5,200*
	130				10,500*			8,000*	7,100*		6,200*	5,500*	
	140							7,100*			5,600*	5,100*	
	150										5,100*		
110	30	29,500*			25,400*			21,600*			19,500*		
	35	28,900*	26,300*		24,900*			21,100*			19,000*		
	40	28,400*	25,700*		24,300*			20,600*			18,500*		
	50	27,200*	24,600*	17,400*	23,300*	20,400*	14,200*	20,200*	17,600*		18,100*	16,000*	8,500*
	60	26,000*	23,400*	16,000*	22,200*	19,000*	13,100*	19,200*	16,000*	11,400*	17,100*	14,300*	
	70	24,800*	22,100*	15,000*	20,700*	17,500*	12,200*	17,900*	14,400*	10,500*	16,200*	12,600*	
	80	23,500*	20,300*	14,100*	19,200*	16,000*	11,500*	16,200*	12,700*	9,800*	14,600*	10,900*	8,500*
	90	22,200*	18,200*	13,300*	17,600*	14,500*	10,900*	14,500*	11,500*	8,700*	12,800*	9,000*	6,900*
	100	20,100*	16,000*	12,700*	15,900*	13,000*	10,300*	12,700*	10,400*	8,100*	10,900*	8,200*	6,100*
	110	17,600*	15,500*		14,300*	11,700*		11,400*	9,200*	7,600*	8,900*	7,300*	5,700*
	120	15,800*	15,100*		12,400*	11,000*		10,100*	8,300*	7,000*	8,000*	6,400*	5,400*
	130	15,200*			11,400*	10,300*		8,700*	7,600*		7,000*	5,800*	5,000*
	140				10,400*			7,900*			6,000*	5,400*	
	150							7,000*			5,500*	5,000*	
160										5,000*			
120	30	29,700*			25,100*			21,800*			19,600*		
	35	29,200*			24,600*			21,300*			19,200*		
	40	28,700*	26,000*		23,600*			20,400*			18,300*		
	50	27,600*	24,900*	17,700*	22,600*	20,800*	14,400*	19,500*	17,900*		17,400*	16,200*	8,700*
	60	26,500*	23,800*	16,400*	22,600*	19,400*	13,400*	18,600*	16,400*	11,500*	17,400*	14,700*	8,000*
	70	25,400*	22,600*	15,300*	21,400*	18,000*	12,500*	18,600*	14,900*	10,700*	16,500*	13,100*	8,000*
	80	24,200*	21,200*	14,400*	19,900*	16,600*	11,700*	17,000*	13,400*	10,100*	15,300*	11,500*	8,000*
	90	23,000*	19,400*	13,700*	18,500*	15,300*	11,100*	15,400*	12,000*	9,200*	13,600*	9,800*	7,200*
	100	21,500*	17,400*	13,000*	16,900*	13,900*	10,600*	13,700*	10,900*	8,400*	11,900*	8,600*	6,400*
	110	19,400*	15,800*	12,500*	15,400*	12,400*	10,100*	12,100*	9,900*	7,900*	10,100*	7,800*	5,800*
	120	17,100*	15,400*		13,800*	11,500*		11,000*	8,700*	7,400*	8,600*	6,900*	5,600*
	130	15,600*	15,000*		12,000*	10,900*		9,700*	8,100*		7,700*	6,000*	5,200*

(continued)

Boom length	Load radius	Capacities on outriggers — over rear only											
		30° jib			40° jib			50° jib			60° 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	140	13,800			11,200*			8,500*	7,500*		6,800*	5,700*	
	150				10,300*			7,800*			5,900*	5,300*	
	160							7,000*			5,500*		
	170										5,000*		
130	35	29,400*			25,200*			22,000*			19,400*		
	40	28,900*	26,200*		24,800*			21,500*			18,500*		
	50	27,900*	25,200*	18,000*	23,800*	21,100*		20,700*	18,200*		19,400*		
	60	26,900*	24,100*	16,700*	22,900*	19,800*	13,600*	19,800*	16,800*	11,700*	17,700*	15,100*	
	70	25,800*	23,100*	15,600*	21,900*	18,500*	12,700*	18,900*	15,400*	10,900*	16,800*	13,600*	8,800*
	80	24,800*	22,000*	14,800*	20,600*	17,200*	12,000*	17,700*	13,900*	10,200*	16,000*	12,000*	8,200*
	90	23,600*	20,300*	14,000*	19,200*	15,900*	11,400*	16,200*	12,400*	9,600*	14,400*	10,500*	7,500*
	100	22,500*	18,500*	13,400*	17,800*	14,600*	10,800*	14,600*	11,500*	8,600*	12,800*	8,900*	6,700*
	110	19,900	16,600*	12,800*	16,300*	13,300*	10,400*	13,000*	10,500*	8,100*	11,100*	8,200*	6,000*
	120	17,500	15,700*		14,900*	11,900*	10,000*	11,700*	9,400*	7,700*	9,400*	7,400*	5,700*
	130	15,400	15,300*		13,400*	11,300*		10,600*	8,400*	7,200*	8,300*	6,600*	5,400*
	140	13,600			11,900*	10,700*		9,400*	7,900*		7,500*	5,900*	5,100*
	150	12,100			11,100*			8,400*	7,400*		6,600*	5,600*	
	160				10,300*			7,700*			5,800*	5,200*	
170										5,400*			
140	35	29,600*			25,400*			21,700*			19,500*		
	40	29,100*	26,300*		25,000*			20,900*			18,700*		
	50	28,200*	25,400*	18,200*	24,100*	21,300*		21,700*	18,500*		19,500*		
	60	27,200*	24,400*	17,000*	23,200*	20,100*	13,800*	20,100*	17,200*	11,800*	17,900*	15,400*	
	70	26,300*	23,500*	16,000*	22,300*	18,900*	12,900*	19,200*	15,800*	11,100*	17,100*	14,000*	9,000*
	80	25,300*	22,400*	15,100*	21,200*	17,700*	12,200*	18,300*	14,500*	10,400*	16,100*	12,500*	8,300*
	90	24,200*	21,100*	14,300*	19,900*	16,400*	11,600*	16,800*	13,000*	9,800*	14,700*	11,000*	7,700*
	100	22,800	19,500*	13,700*	18,600*	15,300*	11,000*	15,400*	11,900*	9,000*	13,400*	9,500*	7,000*
	110	19,700	17,800*	13,100*	17,200*	14,000*	10,600*	14,000*	11,000*	8,300*	12,000*	8,500*	6,300*
	120	17,300	16,000*	12,600*	15,800*	12,700*	10,200*	12,400*	10,000*	7,900*	10,400*	7,800*	5,800*
	130	15,200	15,400		14,500*	11,700*	9,800*	11,400*	9,000*	7,300*	8,800*	7,100*	5,600*
	140	13,400	13,600		13,000*	11,200*		10,300*	8,300*	6,400*	8,100*	6,300*	4,900*
	150	11,900			11,700*	10,600*		9,100*	7,800*		7,300*	5,800*	4,400*
	160	10,500			10,700			8,300*	7,200*		6,400*	5,500*	
170							7,600*			5,800*	5,100*		
180										5,400*			
150	35	29,700*			25,100*			21,800*			19,700*		
	40	29,300*			24,300*			21,100*			18,900*		
	50	28,400*	25,600*	18,800*	23,500*	21,600*		20,300*	17,500*		18,200*		
	60	27,500*	24,700*	17,300*	23,500*	20,400*	14,000*	20,300*	17,500*	11,200*	18,200*	15,700*	
	70	26,600*	23,800*	16,200*	22,600*	19,300*	13,100*	19,500*	16,200*	10,600*	17,400*	14,300*	9,300*
	80	25,700*	22,800*	15,400*	21,700*	18,100*	12,400*	18,700*	14,900*	10,000*	16,200*	13,000*	8,500*
	90	24,700*	21,800*	14,600*	20,500*	16,900*	11,800*	16,900*	13,600*	10,000*	14,800*	11,600*	7,900*
	100	22,500	20,300*	13,900*	19,300*	15,800*	11,200*	15,600*	12,300*	9,300*	13,600*	10,100*	7,200*
	110	19,400	18,800*	13,400*	17,200*	14,700*	10,800*	14,500*	11,400*	8,500*	12,500*	8,800*	6,600*
	120	17,100	17,100*	12,900*	16,200*	13,500*	10,300*	13,300*	10,500*	7,900*	11,300*	8,200*	5,900*
	130	15,000	15,200	12,000*	15,200	12,200*	9,100*	12,000*	9,600*	6,900*	9,700*	7,500*	5,400*
	140	13,200	13,400		13,400	11,600*		11,000*	8,600*	6,100*	8,600*	6,800*	4,700*
	150	11,600	11,800		11,800	10,900*		10,000*	8,100*		7,800*	6,000*	4,100*
	160	10,300			10,500	9,800*		8,900*	7,600*		7,000*	5,700*	
170	9,100			9,300			8,200*	7,100*		6,200*	5,400*		
180							7,500*			5,700*	5,100*		
190										5,300*			
160	40	29,500*			25,300*			22,000*			19,100*		
	50	28,600*	25,800*	19,000*	24,500*	21,800*		21,200*			18,400*		
	60	27,800*	24,900*	17,500*	23,700*	20,700*	14,100*	20,500*	17,700*		17,600*	16,000*	
	70	26,900*	24,100*	16,500*	22,900*	19,600*	13,300*	19,800*	16,500*	11,300*	17,600*	14,700*	9,500*

(continued)



HC-238A jib capacities — hammerhead boom (U.S. units)

Refer to Notes page 291.00

Boom length Feet	Load radius Feet	Capacities on outriggers — over rear only											
		30° jib			40° jib			50° jib			60° 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	80	26,100*	23,200*	15,600*	22,100*	18,500*	12,600*	19,000*	15,300*	10,700*	16,200*	13,400*	8,600*
	90	25,200*	22,300*	14,900*	21,000*	17,400*	12,000*	16,900*	14,100*	10,200*	14,800*	12,000*	8,000*
	100	22,300*	20,600*	14,200*	19,500*	16,300*	11,400*	15,600*	12,800*	9,600*	13,600*	10,700*	7,400*
	110	19,200*	17,600*	13,600*	17,200*	15,200*	10,800*	14,500*	11,800*	8,400*	12,500*	9,300*	6,700*
	120	16,800*	15,500*	12,200*	15,700*	13,600*	9,400*	13,500*	11,000*	7,400*	11,500*	8,500*	5,800*
	130	14,700*	14,100*	10,900*	14,000*	12,100*	8,300*	12,600*	10,100*	6,300*	10,700*	7,800*	5,000*
	140	12,900*	12,500*		12,700*	10,900*	7,400*	11,600*	9,100*	5,700*	9,100*	7,200*	4,400*
	150	11,400*	11,200*		11,600*	9,600*		10,400*	8,200*	5,000*	8,300*	6,500*	3,900*
	160	10,100*	10,200*		10,200*	8,800*		9,400*	7,300*		7,600*	5,900*	3,400*
	170	8,900*			9,100*	7,900*		8,500*	6,600*		6,800*	5,600*	
	180	7,800*			8,000*			7,800*	6,000*		6,000*	5,000*	
190							7,000*			5,700*	4,600*		
200										5,300*			
170	40	29,600*			25,400*			21,400*			19,200*		
	50	28,800*	25,900*		24,700*	22,000*		20,700*	18,000*		18,500*	16,100*	
	60	28,000*	25,200*	17,700*	23,900*	21,000*	14,300*	20,000*	16,800*	11,500*	17,700*	15,000*	
	70	27,200*	24,300*	16,700*	23,200*	19,900*	13,500*	19,300*	15,700*	10,800*	17,000*	13,700*	
	80	24,900*	23,500*	15,900*	22,400*	18,900*	12,800*	18,900*	15,300*	10,300*	16,200*	12,500*	8,800*
	90	22,100*	20,600*	15,100*	20,200*	17,800*	12,200*	16,900*	14,500*	10,300*	14,800*	12,500*	8,200*
	100	19,500*	18,200*	14,400*	17,300*	15,400*	11,500*	15,600*	13,300*	9,300*	13,500*	11,200*	7,300*
	110	16,700*	15,600*	12,700*	15,300*	13,600*	10,100*	14,200*	11,900*	8,000*	12,500*	9,900*	6,300*
	120	15,000*	13,700*	11,100*	13,800*	12,100*	8,700*	12,600*	10,600*	6,900*	11,400*	8,800*	5,400*
	130	13,500*	12,400*	9,800*	12,300*	10,800*	7,600*	10,200*	9,200*	6,000*	10,100*	8,000*	4,700*
	140	12,300*	11,100*	8,800*	11,200*	9,600*	6,700*	10,100*	8,300*	5,300*	9,100*	7,100*	4,100*
	150	11,100*	9,900*		10,000*	8,700*	6,000*	9,100*	7,300*	4,600*	8,200*	6,300*	3,600*
	160	9,800*	9,000*		9,000*	7,800*		8,200*	6,600*	4,100*	7,400*	5,600*	3,200*
170	8,600*	8,200*		8,200*	7,000*		7,500*	6,000*		6,700*	5,100*	2,900*	
180	7,600*			7,500*			6,800*	5,400*		6,100*	4,600*		
190				6,800*			6,200*			5,500*	4,200*		
200							5,800*			5,100*	3,800*		
210										4,600*			
180	40	29,800*			24,800*			21,500*			19,400*		
	50	29,000*	26,100*		24,100*	21,200*		20,900*	18,200*		18,700*	16,200*	
	60	28,300*	25,300*	17,900*	23,400*	20,200*	14,400*	20,200*	17,100*	11,600*	17,500*	15,200*	
	70	25,200*	24,000*	17,000*	23,400*	20,200*	13,600*	17,900*	15,800*	11,000*	16,000*	14,100*	
	80	22,000*	20,900*	16,100*	20,400*	17,900*	12,900*	16,000*	14,000*	9,900*	16,000*	14,600*	8,900*
	90	19,500*	17,500*	15,100*	17,200*	15,600*	12,100*	15,800*	13,900*	9,900*	14,600*	12,300*	8,000*
	100	16,600*	15,400*	13,000*	15,300*	13,800*	10,500*	14,200*	12,200*	8,600*	12,800*	10,600*	6,900*
	110	14,700*	13,800*	11,300*	13,600*	12,200*	9,200*	12,500*	10,800*	7,400*	11,500*	9,300*	5,900*
	120	13,200*	12,200*	10,000*	12,200*	10,800*	8,000*	11,100*	9,500*	6,400*	10,200*	8,200*	5,100*
	130	11,900*	10,900*	8,900*	10,900*	9,700*	7,000*	9,900*	8,400*	5,500*	9,000*	7,300*	4,400*
	140	10,600*	9,900*	7,900*	9,800*	8,600*	6,200*	8,800*	7,400*	4,800*	8,100*	6,400*	3,800*
	150	9,700*	8,800*	7,000*	8,700*	7,700*	5,500*	7,900*	6,600*	4,300*	7,300*	5,800*	3,400*
	160	8,800*	7,900*		8,000*	6,900*		7,300*	6,000*	3,800*	6,600*	5,100*	3,000*
	170	8,000*	7,200*		8,000*	6,900*		7,300*	6,000*		6,600*	5,100*	3,000*
180	7,300*	6,700*		7,200*	6,300*		6,600*	5,400*		5,900*	4,600*	2,600*	
190	6,400*			6,500*	5,600*		5,900*	4,900*		5,400*	4,100*		
200				6,100*			5,400*	4,400*		4,800*	3,700*		
210				5,600*			4,900*			4,400*	3,300*		
220							4,700*			4,100*	3,000*		
190	50	28,900*	26,200*	18,400*	25,000*	21,400*		21,700*	18,400*		19,500*		
	60	25,400*	24,500*	18,400*	23,600*	21,400*		21,000*	18,400*		18,800*		
	70	22,500*	21,300*	17,200*	20,700*	18,400*	13,800*	18,100*	16,600*	11,700*	16,700*	14,800*	9,000*
	80	19,700*	18,700*	15,400*	17,400*	16,000*	13,000*	16,000*	14,400*	10,800*	16,000*	14,800*	9,000*
	100	16,500*	15,700*	13,500*	15,400*	14,000*	11,200*	14,200*	12,700*	9,200*	13,000*	11,100*	7,700*
				14,700*	13,800*	11,800*	13,600*	12,400*	9,700*	12,600*	11,000*	8,000*	6,500*

(continued)

HC-238A jib capacities — hammerhead boom (U.S. units)

Refer to Notes page 291.00

Boom length	Load radius	Capacities on outriggers — over rear only											
		30' jib			40' jib			50' jib			60' 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	110	13,000*	12,300*	10,300*	12,100*	11,000*	8,400*	11,100*	9,700*	6,800*	10,300*	8,600*	5,500*
	120	11,700*	11,000*	9,100*	10,800*	9,600*	7,400*	9,800*	8,500*	5,900*	9,100*	7,500*	4,800*
	130	10,400*	9,800*	8,100*	9,600*	8,600*	6,400*	8,800*	7,500*	5,100*	8,100*	6,500*	4,100*
	140	9,400*	8,700*	7,200*	8,600*	7,700*	5,700*	7,900*	6,700*	4,500*	7,200*	5,800*	3,600*
	150	8,400*	7,800*	6,300*	7,700*	6,900*	5,100*	7,000*	5,900*	4,000*	6,400*	5,200*	3,200*
	160	7,600*	7,100*		7,000*	6,200*	4,500*	6,300*	5,300*	3,500*	5,800*	4,600*	2,800*
	170	7,100*	6,500*		6,300*	5,500*		5,700*	4,800*	3,100*	5,200*	4,100*	2,500*
	180	6,400*	5,900*		5,700*	5,000*		5,200*	4,300*		4,700*	3,700*	2,200*
	190	5,900*			5,300*	4,500*		4,800*	3,900*		4,300*	3,300*	
	200	5,300			4,900*			4,300*	3,600*		3,900*	3,000*	
	210				4,500*			4,000*			3,500*	2,800*	
	220							3,700*			3,300*		
	230										3,000*		
200	50	26,000*			24,200*			21,800*			19,600*		
	60	22,700*	22,200*	18,500*	21,200*	20,100*		19,600*	17,200*		17,200*		
	70	20,100*	18,100*	16,000*	17,500*	16,600*		16,300*	15,100*		15,100*	13,600*	
	80	16,700*	15,900*	14,000*	15,600*	14,400*	13,800*	14,400*	13,000*	11,800*	13,200*	11,800*	8,400*
	90	14,700*	14,100*	12,100*	13,800*	12,600*	12,000*	14,400*	13,000*	10,100*	13,200*	11,800*	
	100	13,000*	12,300*	10,600*	12,000*	11,100*	8,800*	12,700*	11,300*	8,600*	11,700*	10,200*	7,100*
	110	11,600*	11,000*	9,400*	10,700*	9,800*	7,700*	11,200*	9,900*	7,300*	10,400*	9,000*	6,100*
	120	10,300*	9,800*	8,200*	9,600*	8,700*	6,800*	12,700*	11,200*	8,600*	11,700*	10,200*	7,100*
	130	9,300*	8,700*	7,300*	8,500*	7,700*	5,800*	11,200*	9,900*	7,300*	10,400*	9,000*	6,100*
	140	8,300*	7,700*	6,400*	7,600*	6,800*	5,200*	9,900*	8,700*	6,300*	9,200*	7,700*	5,200*
	150	7,500*	6,900*	5,800*	6,800*	6,000*	4,600*	8,800*	7,700*	5,500*	8,200*	6,700*	4,500*
	160	6,700*	6,200*	5,100*	6,100*	5,400*	4,100*	7,800*	6,800*	4,800*	7,200*	6,000*	3,900*
	170	6,100*	5,600*		5,500*	4,800*	3,600*	7,000*	6,000*	4,100*	6,300*	5,300*	3,400*
180	5,600*	5,100*		5,100*	4,400*		6,200*	5,300*	3,700*	5,700*	4,600*	2,900*	
190	5,100*	4,700*		4,600*	4,000*		5,500*	4,700*	3,200*	5,100*	4,200*	2,500*	
200	4,800*			4,200*	3,700*		5,000*	4,300*	2,900*	4,600*	3,600*	2,300*	
210	4,400			3,900*			4,600*	3,800*	2,500*	4,100*	3,300*	2,000*	
220				3,600*			4,200*	3,200*		3,500*			
230							3,800*	2,900*		3,200*			
							3,500*			3,000*			
							3,200*						
							3,000*						

Notes — tubular jib lifting capacities

1. The capacities included in this chart are the maximum allowable under ideal job conditions and are 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 over side and rear as described on appropriate plate in crane operator's cab. Capacities for 360° swing applicable only when front center jack, in addition to front and rear outriggers, is set in proper working position.
4. Capacities are limited to an FMC 60" x 54" cross-section tubular boom with a 5' hammerhead top section, and an FMC 36" x 30" cross-section tubular jib with 13' 6" high jib strut properly assembled.
5. The pinned telescopic boom live mast must be used in the extended 30' position for all capacities on this chart.
6. For boom lengths exceeding 160', boom midpoint suspension pendants are required.
7. Jib cannot be mounted on boom lengths shorter than 50' or longer than 200'.
8. Capacities are for 30', 40', 50', and 60' jib lengths only.
9. Machine equipped with upper counterweight "A" and bumper counterweight "A" — maximum boom/jib combination allowed is 180' boom plus 60' jib over rear; 170' boom plus 60' jib over side.
10. "AB" upper counterweight **must not** be used in conjunction with "AB" upper counterweight, or with booms less than 190' long, due to strength of materials.
11. Machine equipped with "AB" upper counterweight — do not swing over side until outriggers have been set.
12. Least stable rated position is over the side.
13. For lifting loads greater than 6 713 kg up to 13 517 kg 2-part jib hoist line (22 mm diameter Type "N" wire rope) is required. For single part jib hoist line operation, 22 mm diameter Type "P" wire rope is recommended (maximum capacity based on wire rope strength is 6 713 kg).
14. Refer to all notes on applicable lifting crane capacity chart in addition to these notes.
15. Capacities apply only to the machine as originally manufactured and normally equipped by FMC Corporation, Cable Crane and Excavator Division.

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

