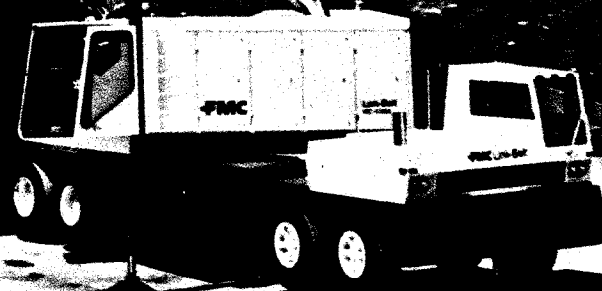


Link-Belt®

Wire Rope Truck Crane

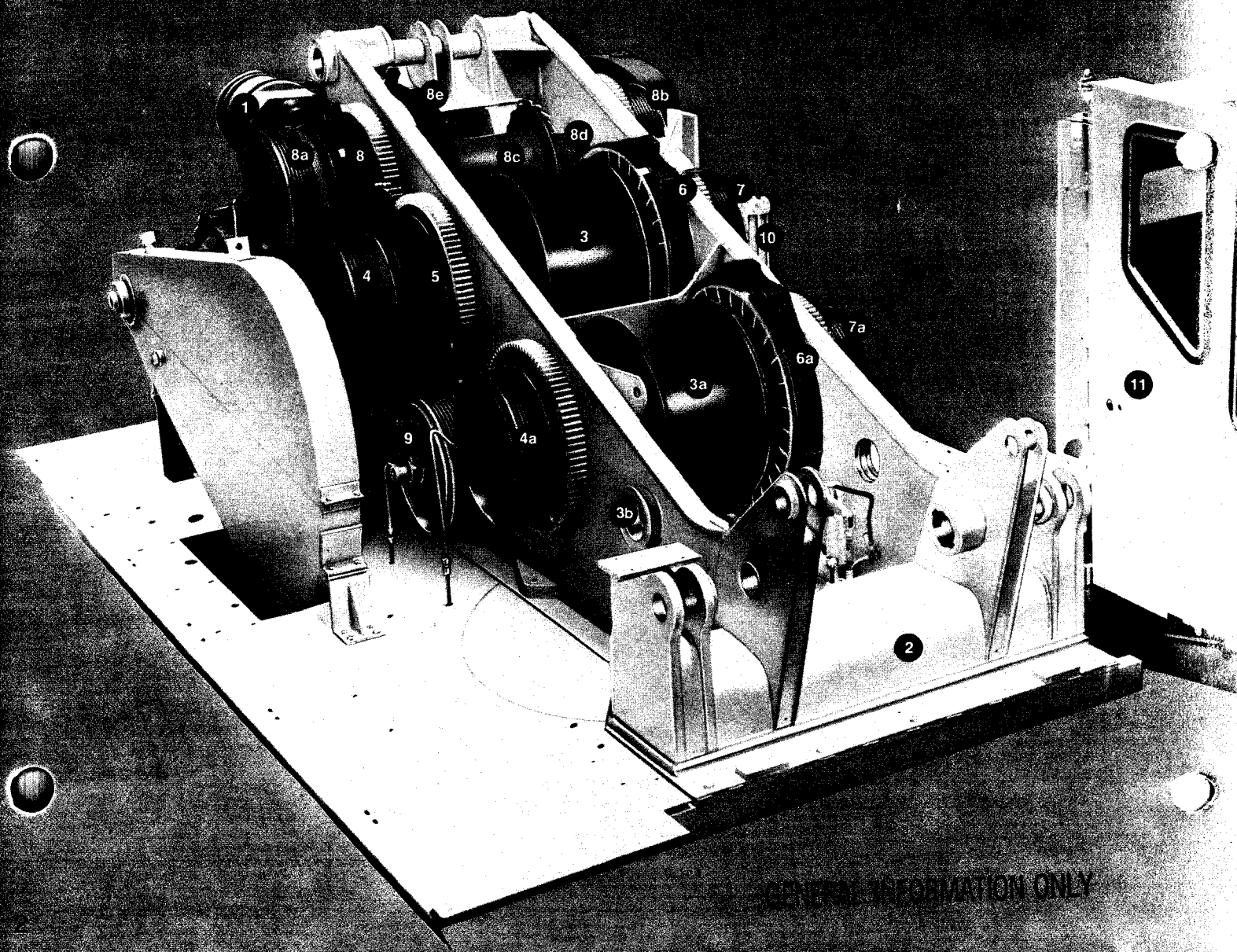
75-ton (68.02 metric ton)



GENERAL INFORMATION ONLY

EMC's exclusive low-profile Function Machinery Design

1. Input shaft
2. Output shaft
3. Input gear
4. Output gear
5. Input gear
6. Output gear
7. Input gear
8. Output gear
9. Input gear
10. Output gear
11. Input gear

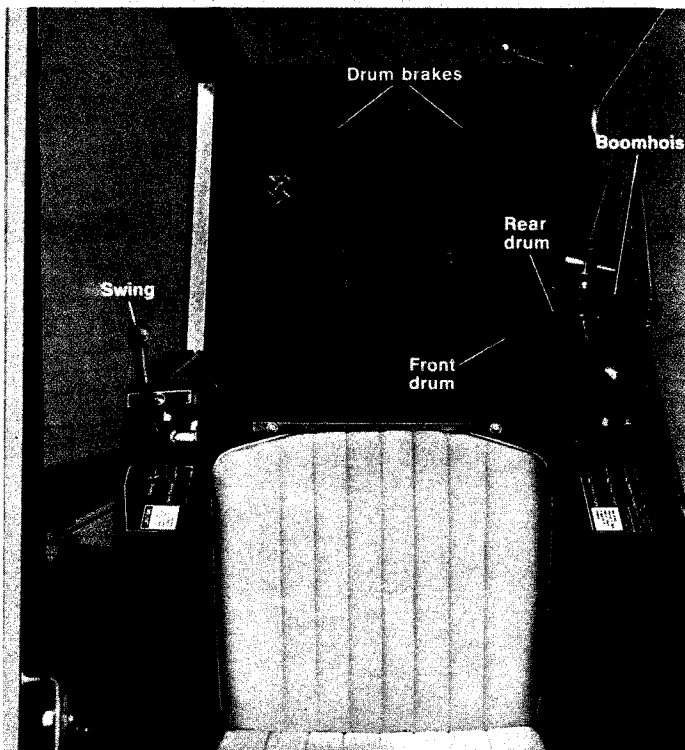


GENERAL INFORMATION ONLY

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

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

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



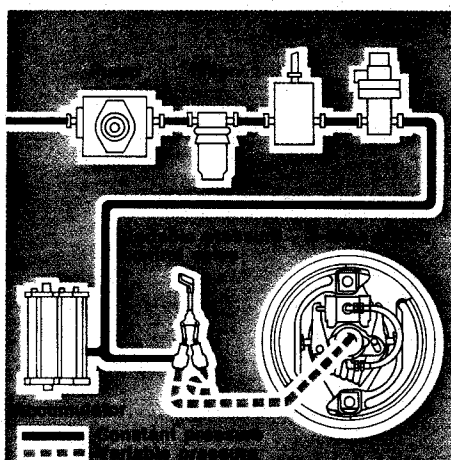
Operator cab

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

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



Drum rotation indicator buttons



Speed-o-Matic power hydraulic control system

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

GENERAL INFORMATION ONLY

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

Carrier cab insulated and isolated for sound level reduction

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

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

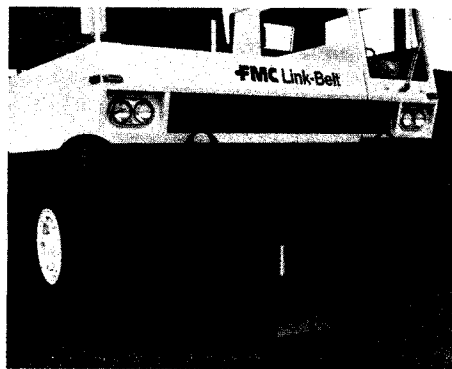
The carrier **diesel engine** drives through a **Roadranger 15-speed transmission**, into a **2-speed** (direct and low) **auxiliary transmission**, powering the rear axle **planetaries**. This **power train** allows for negotiating steep grades, maneuvering through traffic, and travelling at highway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

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



Carrier cab

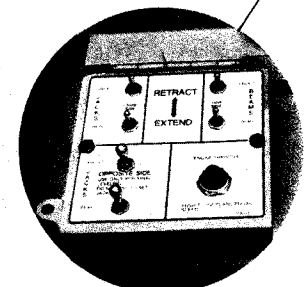
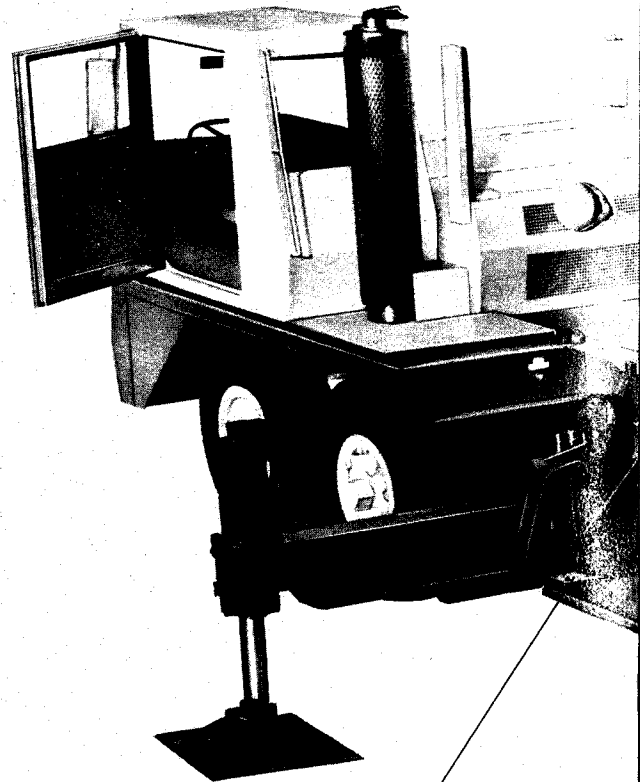
Hydraulic **front center jack** (optional) allows handling of the over-the-side outrigger capacities throughout 360° swing (refer to page #6). The control is located on the right front corner of the carrier.



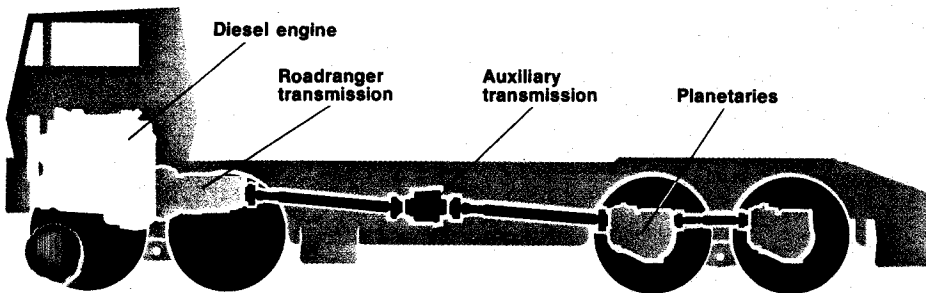
Front center jack

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

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

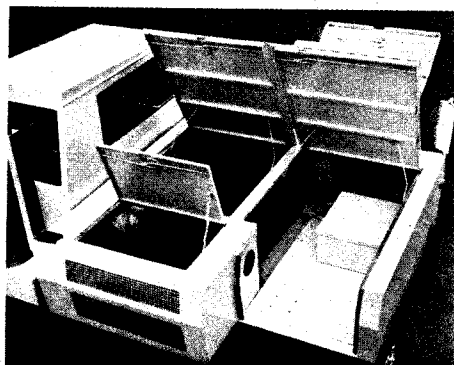


Outrigger control panel



Carrier power train

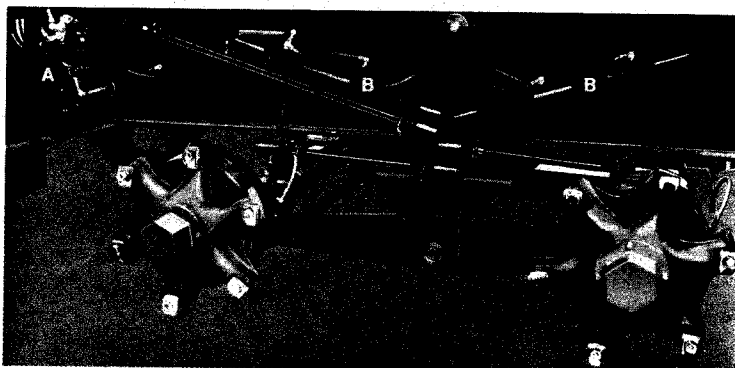
GENERAL INFORMATION ONLY



Engine accessibility

carrier. Hydraulic lines are equipped with quick disconnects. Also, to facilitate removal of the front outrigger assembly, the jack cylinder can be disassembled from one outrigger beam. (See page #8)

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



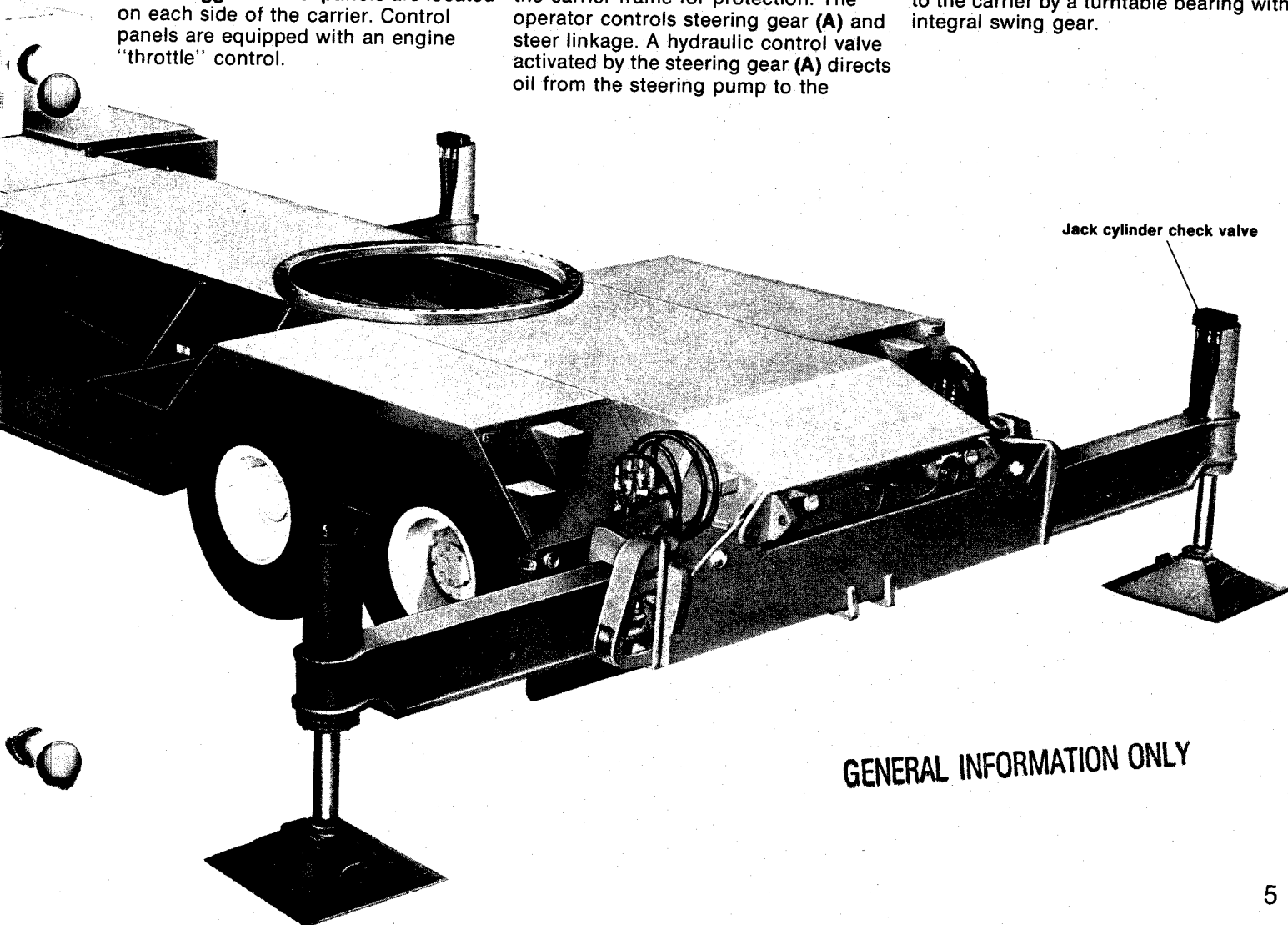
Power assist hydraulic steer

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

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

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

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



GENERAL INFORMATION ONLY

Pin-connected tubular boom and jib

Two types of boom top sections available

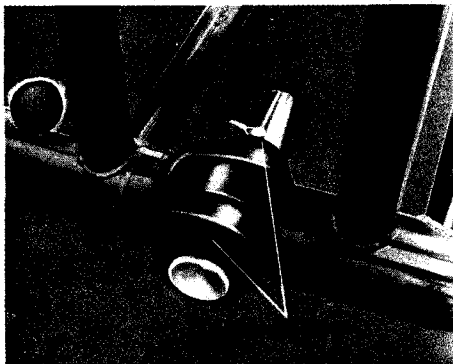
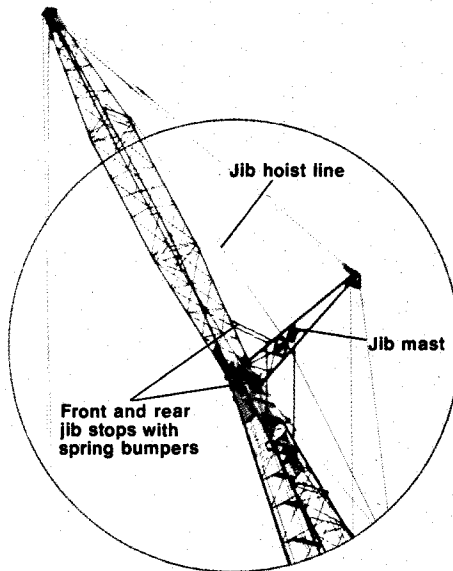
Up to 200' (60.96 m) main boom, or 190' (57.91 m) boom plus 50' (15.24 m) jib

GENERAL INFORMATION ONLY

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

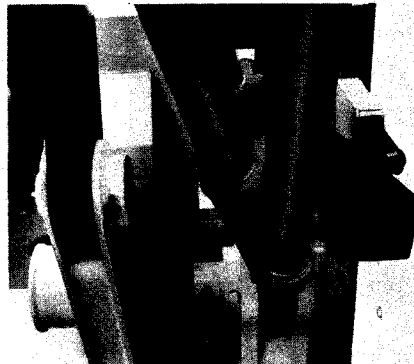
The tubular boom represents the latest advances in boom design and is precision built with special automatic machine tools and fixtures. Machine-coped lattice ends match the contour of the round, alloy steel, tubular chords and are carefully welded in place with 360° welds.

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



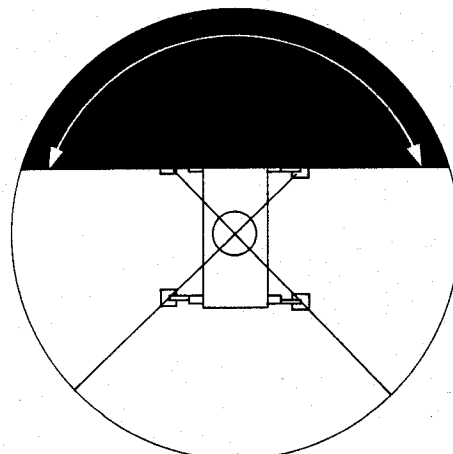
Boom pin-connection

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



Boom hoist limiting device

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



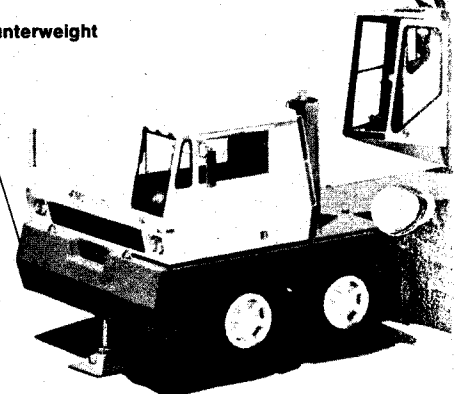
Over-the-side outrigger capacities throughout 360° swing with front center jack

The boomhoist limiting device

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

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

Front bumper counterweight

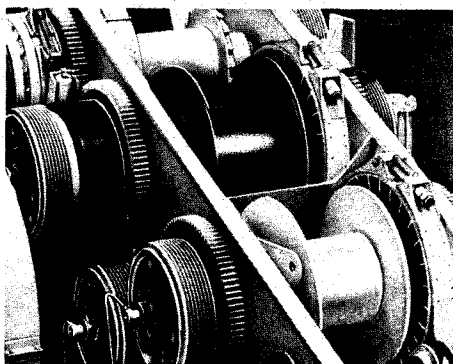


GENERAL INFORMATION ONLY

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

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

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



Independent planetary driven 2-speed drums

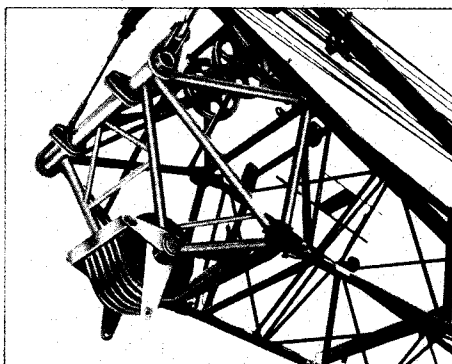
mounted on anti-friction bearings to eliminate the need for daily lubrication. The lower boom section is 20' (6.10 m) with various length boom extensions available.

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

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

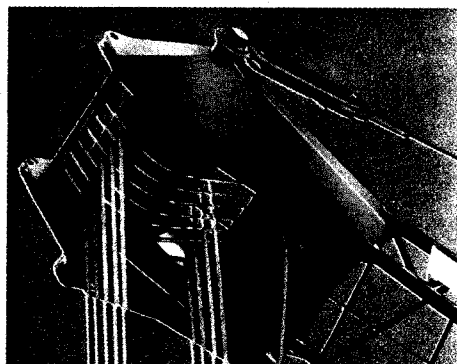
Dual, lever-type boom stops, each with spring-loaded bumpers, are standard. When the **live mast** is used for assembly purposes, the boom stops can be arranged to serve as mast stops.

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



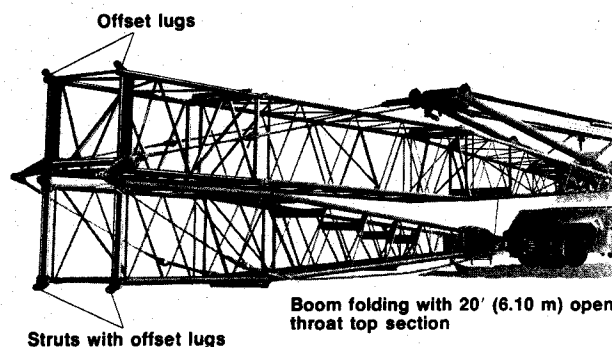
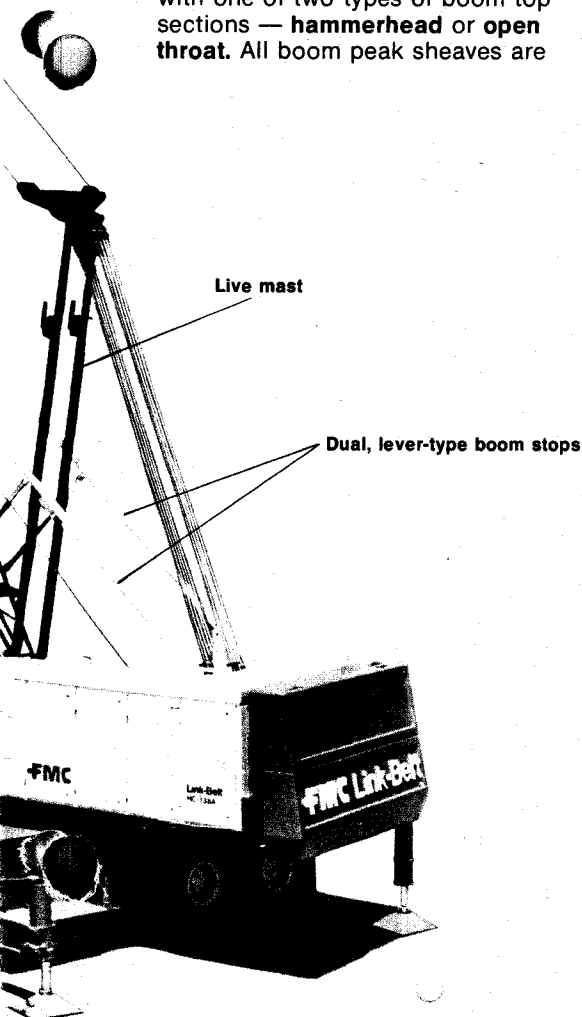
Hammerhead top section

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



Open throat top section

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



Struts with offset lugs

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

Designed for fast stripdown of outriggers, boom and counterweight

The HC-138A is available for greater weight distribution

GENERAL INFORMATION ONLY

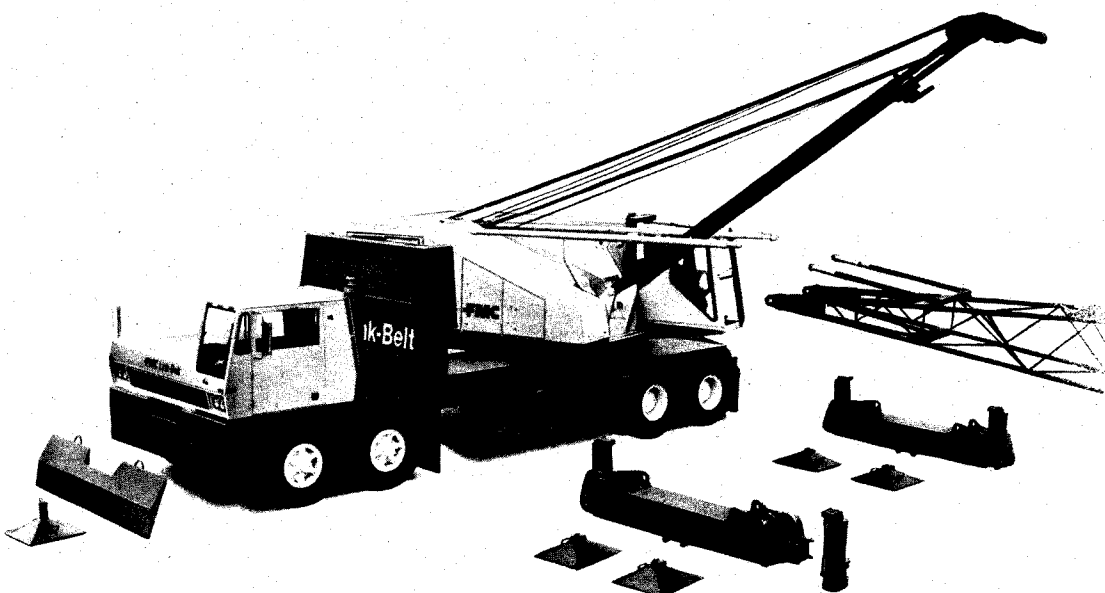
The HC-138A upperstructure machinery is fully enclosed within FMC's exclusive, distinguished and stylized cab. The cab is equipped with multiple side doors for accessibility to the machinery.



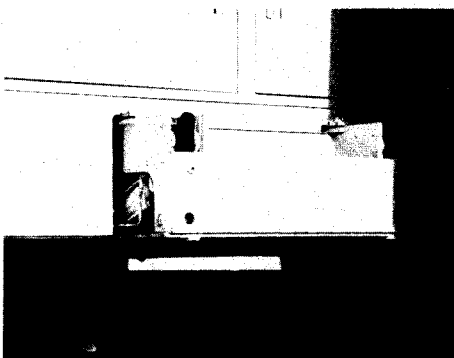
Machinery accessibility

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

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

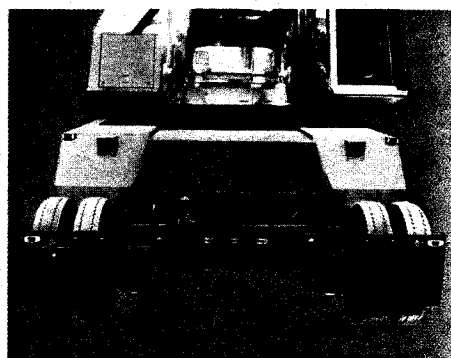


Fast stripdown of outriggers and counterweights



Hydraulic counterweight lowering

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



Rear tag axle

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

Carrier features

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

Upperstructure features

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

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

Attachment features

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

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

FMC Corporation Cable Crane & Excavator Division Cedar Rapids Iowa 52406

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

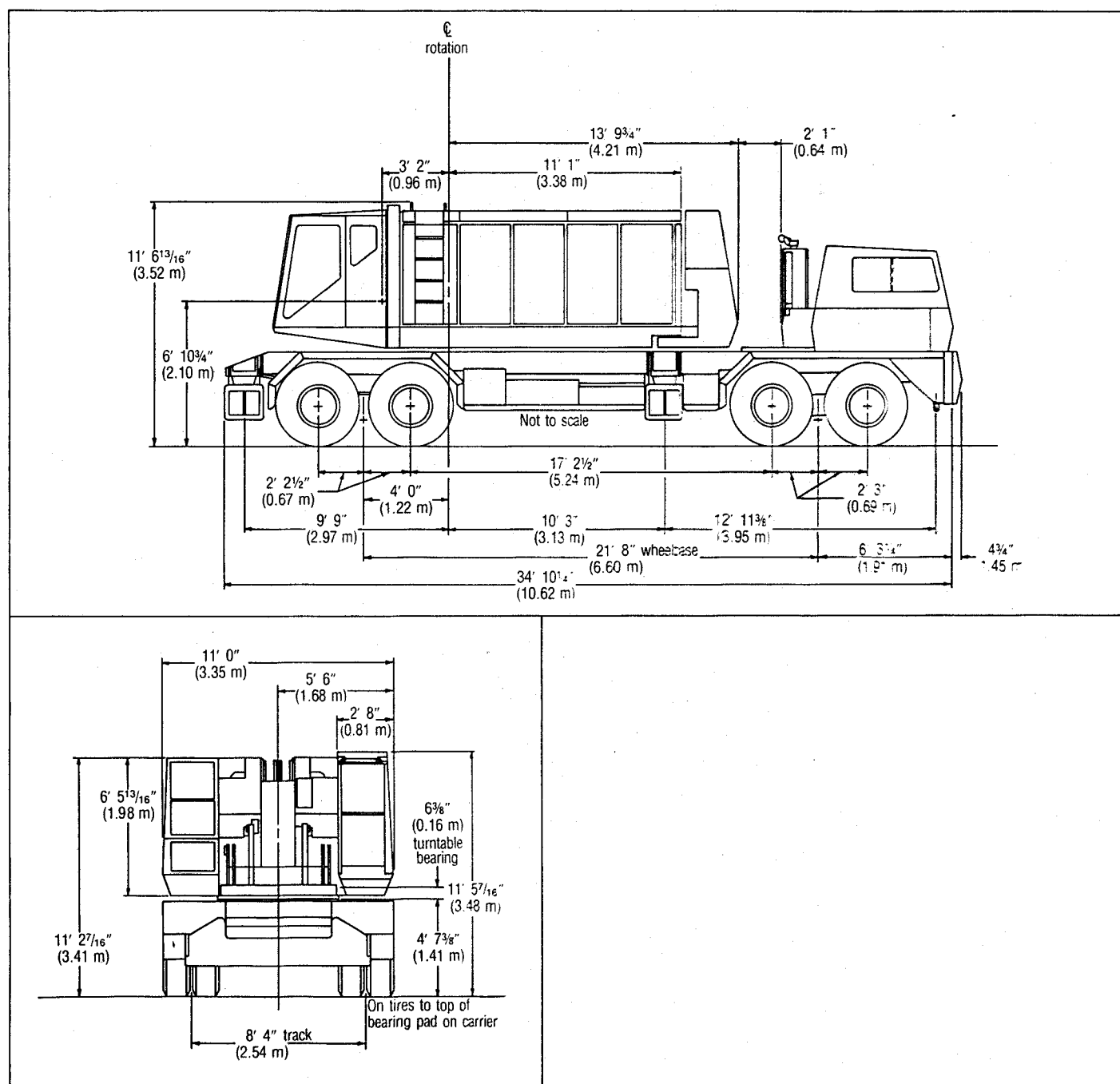
General Specifications

Link-Belt® 75-ton (68.03 metric ton)

Wire rope truck crane

HC-138A

GENERAL INFORMATION ONLY



General dimensions	Feet	meters
Overall width, outriggers extended, (over floats)	22' 0"	6.71
Overall width, outriggers extended, (centerline of jacks)	19' 6"	5.94
Overall width, outriggers retracted, (floats removed)	11' 0"	3.35
Minimum ground clearance	12½"	0.32
Ground clearance under upper counterweight with machine on tires	56½"	1.44
Counterweight tailswing, across corners of counterweight	14' 10½"	4.54
Upper cab overall width	11' 0"	3.35
Basic boom length — open throat	40' 0"	12.19
— hammerhead	25' 0"	7.62
Radius of boomfoot pin	38"	0.97
Height of boomfoot pin	82¾"	2.10

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

GENERAL INFORMATION ONLY

Axle loadings — approximate

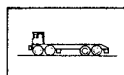
Based on HC-138A crane upper equipped with 18,000 lb. (8 165 kg) counterweight "A", boom lowering planetary, rear drum hoisting and lowering clutches, GM 6-71N with single stage torque converter mounted on FMC 8x4, 11' 0" (3.35 m) wide, 260" (6.60 m) wheelbase carrier with GM 6V-92TA diesel, 14:00x24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

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

① Optional GM 6-71 with three stage torque converter is equivalent in weight to GM 6-71 single stage torque converter.

General specifications

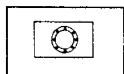
Carrier



Type

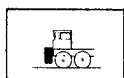
FMC; 8 x 4 drive, 260" (6.60 m) wheelbase, 11' 0" (3.35 m) wide.

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



Turntable bearing

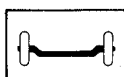
Outer race, with integral swing (ring) gear bolted to carrier.



Bumper counterweight

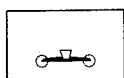
Easily removed, mounts on front bumper hooks. Refer to lifting capacity charts for counterweight requirements.

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



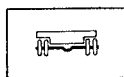
Front axles

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



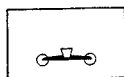
Bogie

Hendrickson; rubber bushed equalizer beams and torque rods.



Rear axles

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



Bogie

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

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

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

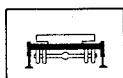


Tires

Single tires front; dual tires rear.

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

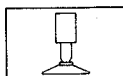
Optional — 14:00 x 20J (18-ply rating) All service Goodyear; 14:00 x 20J (18-ply rating) SRL-1 Goodyear; 14:00 x 20J (18-ply rating) HCT General; 14:00 x 20J (18-ply rating) Goodrich.



Outriggers

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

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



Front center hydraulic jack with float

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

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

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

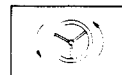
Brakes — 8-wheel air brakes.

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

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

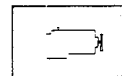
Parking — Brakes on four rear wheels spring applied; air control valve on dash.

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



Steering

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



Engines

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

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

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

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

Transmissions

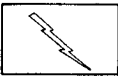
Main — Fuller RTO-915; 15 speeds forward, 3 reverse.

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

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

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

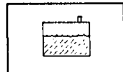
GENERAL INFORMATION ONLY



Electrical system

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

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



Fuel tanks

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

Carrier speeds

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

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

Turning ability

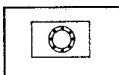
Turning circle diameter	Curb clearance circle diameter	Vehicle clearance circle diameter	
Centerline of outer front tire	Outside of outer front tire	Over outside of front bumper	Over outside of front bumper counterweight "A"
120' 3" (36.66 m)	122' 0" (37.19 m)	126' 0" (38.40 m)	126' 5" (38.53 m)

Revolving upperstructure



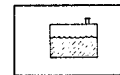
Frame

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



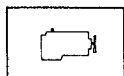
Turntable bearing

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



Fuel tank

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



Engines

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

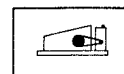
GENERAL INFORMATION ONLY

Engine specifications	GM 6-71N with single stage torque converter ^①	GM 6-71N with three stage torque converter ^①	Cummins N855-C220 with three stage torque converter ^②
Number cylinders	6	6	6
Bore and stroke	4¼" x 5" (0.11 x 0.13 m)	4¼" x 5" (0.11 x 0.13 m)	5½" x 6" (0.14 x 0.15 m)
Piston displacement (cu. in.)	425.6 (6 976 cm ³)	425.6 (6 976 cm ³)	855 (14 013 cm ³)
High idle speed r.p.m.	1,950	1,940	1,980
Engine r.p.m. at full load speed	1,800	1,800	1,800
Net engine horsepower at full load speed	165 (123 041 W)	165 (123 041 W)	137 (102 161 W)
Peak torque (foot pounds)	1,400 (1 898 J)	2,360 (3 200 J)	1,898 (2 574 J)
Peak torque r.p.m.	Output shaft stall	Output shaft stall	Output shaft stall
Electrical system	12-volt	12-volt	12-volt
Batteries	One/12-volt	One/12-volt	Two/12-volt
Clutch or power take-off	Disconnect between engine and converter	Disconnect between engine and converter	Disconnect between engine and converter
Transmission —	—	—	—
Number chain wheel teeth	161	161	161
Number engine pinion teeth	21	28	28

^①Allison #TCDO 475 torque converter.

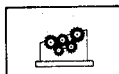
^②Twin Disc #CO-10066 T.C. torque converter.

Power train



Transmission

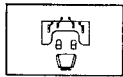
Triple roller chain enclosed in oil tight chain case with integral lubrication system.



Machinery gear train

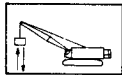
"Full Function" design, two-directional power available to all operating shafts; shafts mounted on anti-friction bearings in precision bored machinery side housings. All load hoist, swing, and boomhoist functions independent of one another. Components such as gears, pinions, chain wheels, brake drums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

Principal operating functions



Control system

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



Load hoisting and lowering

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



Load hoist drums

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

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



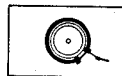
Drum clutches

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

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

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

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

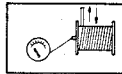


Drum brakes

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

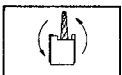
Front and rear main drums – Brakes 32" (0.81 m) diameter, 4" (101.60 mm) face width.

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



Drum rotation indicators

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



Swing system

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



Swing clutches

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

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

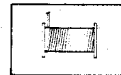
Swing lock – Mechanically controlled pawl engages external teeth of turntable bearing swing (ring) gear.

Maximum swing speed – 3.4 r.p.m.



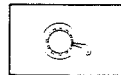
Boom hoist/lowering system

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



Boomhoist drum

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



Boomhoist drum locking pawl

Operator controlled; spring applied, mechanically released.



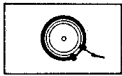
Boom hoist clutch –

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



Boom lowering clutch

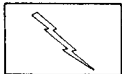
Optional; in addition to planetary boom lowering. Two-shoe clutch permits higher speed boom lowering mounted on shaft outside planetary unit, clutch drum bolted to outer face of planetary housing. Clutch power hydraulically controlled by depressing solenoid push button located on boom hoist/lowering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



Boom hoist/lowering brake

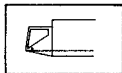
External contracting band; spring applied, hydraulically released as hoist clutch or lowering planetary are engaged. Brake drum involute splined to shaft; brake 26" (0.66 m) diameter, 4" (101.60 mm) face width.

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



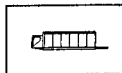
Electrical system —

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



Operator's cab

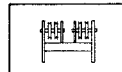
Environmental cab, modular type isolated from upper machinery cab. Tinted tempered glass panels in all windows, hand grab rail, adjustable, cushioned seat with head rest, arm rests on control consoles, dry chemical fire extinguisher. Cab heater/defroster and windshield wiper *optional*.



Machinery cab

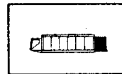
Equipped with warning horn, hinged doors on two sides, rear, and top. Removable panels for machinery access, roof-top access ladder, and skid resistant finish on roof.

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



Gantry rail

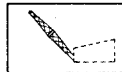
Contains six 12" (0.30 m) root diameter sheaves, mounted on anti-friction bearings, for 14-part boomhoist wire rope reeving.



Counterweight

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

Booms and jibs



Boom

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

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

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

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

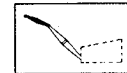
Boom connections — In-line, tapered pins.

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

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

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

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



Jib

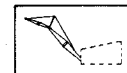
Tubular; basic two-piece 20' (6.10 m) long; 30" (0.76 m) wide, 24" (0.61 m) deep at connections. Alloy steel tubular chords 1 1/2" (38.10 mm) outside diameter.

Base section — 10' 0" (3.05 m) long.

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

Jib connections — In-line, tapered pins.

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



Jib mast

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

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

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

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

PCSA Class 13-407
Refer to **notes** page 6.

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

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

Counterweights — Refer to charts below.

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

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

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

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

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

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

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

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

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

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

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

GENERAL INFORMATION ONLY

HC-138A lifting crane capacities

with open throat bo

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

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

Counterweights — Refer to charts page 1.

Boom				"A" upper & "A" bumper ① counterweights								"AB" upper & "A" bumper counterweights							
Length	Radius		Angle Degrees	Boom point height ②		On outriggers				On tires (static)				On outriggers only					
	Feet	meters		Feet	meters	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			
40' (12.19 m)	12	3.66	77.2	45' 11"	13.99	150,000*	68 038*	78,600*	35 852*	59,600*	27 034*	150,000*	68 038*	150,000*	68 038*	68 038*			
	13	3.96	75.8	45' 8"	13.82	150,000*	68 038*	76,000*	34 473*	55,800*	25 310*	150,000*	68 038*	150,000*	68 038*	68 038*			
	14	4.27	74.3	45' 5"	13.64	143,400*	65 045*	73,600*	33 384*	52,400*	23 768*	149,400*	67 766*	149,400*	67 766*	67 766*			
	15	4.57	72.8	45' 1"	13.75	135,600*	61 507*	71,400*	32 386*	49,500*	22 452*	141,200*	64 047*	141,200*	64 047*	64 047*			
	16	4.88	71.3	44' 9"	13.65	128,600*	58 331*	68,100	30 889	46,800*	20 094*	133,900*	60 736*	133,900*	60 736*	60 736*			
	17	5.18	69.8	44' 5"	13.54	122,200*	55 428*	62,600	28 394	44,300*	20 094*	127,300*	57 742*	127,300*	57 742*	57 742*			
	18	5.49	68.2	44' 1"	13.43	116,500*	52 843*	57,900	26 263	41,100	18 642	121,200*	54 975*	121,200*	54 975*	54 975*			
	19	5.79	66.7	43' 8"	13.30	109,300*	49 577*	53,800	24 403	38,100	16 102	115,800*	52 526*	115,800*	52 526*	52 526*			
	20	6.10	65.1	43' 2"	13.16	103,000*	46 720*	50,200	22 770	35,500	16 102	110,700*	50 212*	110,700*	50 212*	50 212*			
	25	7.62	56.9	40' 5"	12.32	79,700*	36 151*	69,200	31 368	16 918	11 838	87,300*	39 598*	84,200	38 192	38 192			
50' (15.24 m)	30	9.14	47.9	36' 7"	11.14	62,800	28 485	51,100	23 178	29,400	13 335	20,300	9 207	70,900*	32 159*	62,400			
	35	10.67	37.3	31' 1"	9.49	49,600	22 498	40,200	18 234	24,000	10 886	16,400	7 438	58,600	26 580	28,304			
	40	12.19	29.8	22' 6"	6.86	40,600	18 415	32,900	14 923	13,500	6 123	48,200	21 863	49,300	22 362	22 362			
	12	3.66	79.8	56' 1"	17.10	150,000*	68 038*	78,300*	35 516*	59,400*	26 943*	150,000*	68 038*	150,000*	68 038*	68 038*			
	13	3.96	78.7	55' 11"	17.05	150,000*	68 038*	75,700*	34 336*	55,600*	25 219*	150,000*	68 038*	150,000*	68 038*	68 038*			
	14	4.27	77.5	55' 9"	16.98	143,200*	64 954*	73,400*	33 293*	52,300*	23 722*	149,100*	67 630*	149,100*	67 630*	67 630*			
	15	4.57	76.3	55' 6"	16.91	135,300*	61 371*	71,200*	32 295*	49,400*	22 407*	140,900*	63 911*	140,900*	63 911*	63 911*			
	16	4.88	75.1	55' 3"	16.83	128,400*	58 241*	68,300	30 980	46,700*	21 182*	133,700*	60 645*	133,700*	60 645*	60 645*			
	17	5.18	73.9	54' 11"	16.75	122,000*	55 338*	62,800	28 485	44,200*	20 048*	127,100*	57 651*	127,100*	57 651*	57 651*			
	18	5.49	72.7	54' 8"	16.66	116,300*	52 752*	58,100	26 353	41,300	18 733	123,000*	54 884*	123,000*	54 884*	54 884*			
60' (18.29 m)	19	5.79	71.5	54' 4"	16.56	109,300*	49 577*	53,900	24 448	38,300	17 372	115,600*	52 435*	115,600*	52 435*	52 435*			
	20	6.10	70.3	54' 0"	16.45	103,000*	46 720*	50,300	22 815	35,600	16 147	110,600*	50 167*	110,600*	50 167*	50 167*			
	25	7.62	64.1	51' 11"	15.81	79,700*	36 151*	69,500	31 524	26,300	11 929	87,300*	39 598*	84,500	38 328	38 328			
	30	9.14	57.5	49' 1"	14.96	63,100	28 621	51,400	23 314	20,500	9 298	70,900*	32 159*	62,700	28 440	28 440			
	35	10.67	50.5	45' 5"	13.86	49,800	22 588	40,500	18 370	16,600	7 529	58,900	26 716	49,600	22 498	22 498			
	40	12.19	42.6	40' 9"	12.41	40,900	18 551	33,200	15 059	13,700	6 214	48,500	21 999	40,700	18 461	18 461			
	50	15.24	20.5	24' 5"	7.44	29,700	13 471	23,900	10 840	9,800	4 445	35,400	16 057	29,600	13 426	13 426			
	13	3.96	80.6	66' 1"	20.14	147,700*	66 995*	75,700*	34 336*	55,700*	25 265*	147,700*	66 995*	147,700*	66 995*	66 995*			
	14	4.27	79.6	65' 11"	20.09	143,100*	64 909*	73,300*	33 248*	52,300*	23 722*	144,800*	65 680*	144,800*	65 680*	65 680*			
	15	4.57	78.6	65' 9"	20.03	135,300*	61 371*	71,100*	32 250*	49,400*	22 407*	140,900*	63 911*	140,900*	63 911*	63 911*			
16	4.88	77.7	65' 6"	19.97	128,300*	58 195*	68,400*	31 025*	46,700*	21 182*	133,700*	60 645*	133,700*	60 645*	60 645*				
17	5.18	76.7	65' 3"	19.90	121,900*	55 292*	63,200	28 667	44,300*	20 094*	127,000*	57 606*	127,000*	57 606*	57 606*				
18	5.49	75.7	65' 0"	19.82	116,200*	52 707*	58,400	26 489	41,700	18 914	121,000*	54 884*	121,000*	54 884*	54 884*				
19	5.79	74.7	64' 9"	19.74	109,500*	49 668*	54,300	24 630	38,600	17 508	115,600*	52 435*	115,600*	52 435*	52 435*				
20	6.10	73.7	64' 6"	19.66	103,200*	46 810*	50,600	22 951	36,000	16 329	110,500*	50 121*	110,500*	50 121*	50 121*				
25	7.62	68.7	62' 9"	19.14	79,900*	36 242*	70,000	31 751	26,500	12 020	87,400*	39 643*	85,000	38 555	38 555				
30	9.14	63.4	60' 7"	18.46	63,500	28 803	51,800	23 496	20,700	9 389	71,000*	32 205*	63,100	28 621	28 621	28 621			
35	10.67	58.0	57' 9"	17.60	50,100	22 724	40,800	18 506	16,700	7 574	59,200	26 852	49,900	22 634	22 634	22 634			
40	12.19	52.1	54' 3"	16.54	41,200	18 688	33,400	15 149	13,900	6 304	48,800	22 135	41,000	18 597	18 597	18 597			
50	15.24	38.7	44' 5"	13.53	30,000	13 607	24,100	10 931	10,000	4 535	35,600	16 147	29,800	13 517	13 517	13 517			
60	18.29	18.7	26' 2"	7.97	23,100	10 477	18,400	8 346	7,400	3 356	27,700	12 564	23,000	10 432	10 432	10 432			

① ② ③ -- Refer to page 6.

GENERAL INFORMATION ONLY

HC-138A open throat boom					"A" upper & "A" bumper counterweights										"AB" upper & "A" bumper counterweights									
Length	Radius		Angle	Boom point height ③		On outriggers				On tires (static)				On outriggers only				On outriggers only						
	Feet	meters		Feet	meters	Pounds	kilograms	Over rear	Over side and 360° swing ③	Pounds	kilograms	Over rear	Over side	Pounds	kilograms	Over rear	Over side	Pounds	kilograms					
70' (21.34 m)	15	4.57	80.3	23.13	128,800*	58,422*	70,700*	128,800*	49,200*	22,316*	32,068*	49,200*	128,800*	58,422*	128,800*	58,422*	128,800*	58,422*	128,800*	58,422*				
	16	4.88	79.4	23.08	126,300*	57,288*	68,100*	126,300*	46,500*	21,092*	30,889*	46,500*	126,300*	57,288*	126,300*	57,288*	126,300*	57,288*	126,300*	57,288*				
	17	5.18	78.6	23.02	121,500*	55,111*	63,200*	121,500*	44,000*	19,958*	28,667*	44,000*	121,500*	55,111*	121,500*	55,111*	121,500*	55,111*	121,500*	55,111*				
	18	5.49	77.8	22.95	115,900*	52,571*	58,400*	115,900*	41,600*	18,869*	26,489*	41,600*	115,900*	52,571*	115,900*	52,571*	115,900*	52,571*	115,900*	52,571*				
	19	5.79	76.9	22.89	109,300*	49,577*	54,200*	109,300*	38,600*	17,508*	24,584*	38,600*	109,300*	49,577*	109,300*	49,577*	109,300*	49,577*	109,300*	49,577*				
	20	6.10	76.1	22.81	102,900*	46,674*	50,600*	102,900*	35,900*	16,283*	22,951*	35,900*	102,900*	46,674*	102,900*	46,674*	102,900*	46,674*	102,900*	46,674*				
	25	7.62	71.8	22.37	79,700*	36,151*	37,600*	79,700*	26,500*	12,020*	17,055*	26,500*	79,700*	36,151*	79,700*	36,151*	79,700*	36,151*	79,700*	36,151*				
	30	9.14	67.5	21.81	63,500*	28,803*	29,700*	63,500*	20,600*	9,344*	13,471*	20,600*	63,500*	28,803*	63,500*	28,803*	63,500*	28,803*	63,500*	28,803*				
	35	10.67	63.0	21.11	50,100*	22,724*	24,300*	50,100*	16,600*	7,529*	11,022*	16,600*	50,100*	22,724*	50,100*	22,724*	50,100*	22,724*	50,100*	22,724*				
	40	12.19	58.3	20.25	41,200*	18,688*	20,300*	41,200*	13,800*	6,259*	9,207*	13,800*	41,200*	18,688*	41,200*	18,688*	41,200*	18,688*	41,200*	18,688*				
80' (24.38 m)	50	15.24	48.0	17.96	30,000*	13,607*	15,100*	30,000*	9,900*	4,490*	6,849*	9,900*	30,000*	13,607*	30,000*	13,607*	30,000*	13,607*	30,000*	13,607*				
	60	18.29	35.7	14.56	23,200*	10,523*	11,600*	23,200*	7,400*	3,356*	5,261*	7,400*	23,200*	10,523*	23,200*	10,523*	23,200*	10,523*	23,200*	10,523*				
	70	21.34	27.3	8.45	18,600*	8,436*	9,200*	18,600*	5,600*	2,540*	4,173*	5,600*	18,600*	8,436*	18,600*	8,436*	18,600*	8,436*	18,600*	8,436*				
	16	4.88	80.8	26.17	114,600*	51,981*	67,800*	114,600*	46,200*	20,955*	30,753*	46,200*	114,600*	51,981*	114,600*	51,981*	114,600*	51,981*	114,600*	51,981*				
	17	5.18	80.0	26.12	112,600*	51,074*	63,100*	112,600*	43,700*	19,821*	28,621*	43,700*	112,600*	51,074*	112,600*	51,074*	112,600*	51,074*	112,600*	51,074*				
	18	5.49	79.3	26.06	110,400*	50,076*	58,300*	110,400*	41,500*	18,824*	26,444*	41,500*	110,400*	50,076*	110,400*	50,076*	110,400*	50,076*	110,400*	50,076*				
	19	5.79	78.6	26.00	108,400*	49,169*	54,100*	108,400*	39,500*	17,463*	24,539*	39,500*	108,400*	49,169*	108,400*	49,169*	108,400*	49,169*	108,400*	49,169*				
	20	6.10	77.9	25.94	102,700*	46,583*	50,500*	102,700*	36,400*	16,238*	22,906*	36,400*	102,700*	46,583*	102,700*	46,583*	102,700*	46,583*	102,700*	46,583*				
	25	7.62	74.2	25.56	79,400*	36,015*	37,500*	79,400*	26,400*	11,974*	17,009*	26,400*	79,400*	36,015*	79,400*	36,015*	79,400*	36,015*	79,400*	36,015*				
	30	9.14	70.4	25.07	63,500*	28,803*	29,600*	63,500*	20,500*	9,298*	13,426*	20,500*	63,500*	28,803*	63,500*	28,803*	63,500*	28,803*	63,500*	28,803*				
90' (27.43 m)	35	10.67	66.6	24.47	50,000*	22,679*	24,100*	50,000*	16,600*	7,529*	10,931*	16,600*	50,000*	22,679*	50,000*	22,679*	50,000*	22,679*	50,000*	22,679*				
	40	12.19	62.6	23.75	41,100*	18,642*	20,200*	41,100*	13,700*	6,214*	9,162*	13,700*	41,100*	18,642*	41,100*	18,642*	41,100*	18,642*	41,100*	18,642*				
	50	15.24	54.2	21.87	29,900*	13,562*	15,000*	29,900*	9,800*	4,445*	6,803*	9,800*	29,900*	13,562*	29,900*	13,562*	29,900*	13,562*	29,900*	13,562*				
	60	18.29	44.7	19.26	23,100*	10,477*	11,500*	23,100*	7,300*	3,311*	5,216*	7,300*	23,100*	10,477*	23,100*	10,477*	23,100*	10,477*	23,100*	10,477*				
	70	21.34	33.3	15.51	18,500*	8,391*	9,100*	18,500*	5,500*	2,494*	4,127*	5,500*	18,500*	8,391*	18,500*	8,391*	18,500*	8,391*	18,500*	8,391*				
	80	24.38	16.2	8.90	15,300*	6,939*	7,300*	15,300*	4,200*	1,905*	3,311*	4,200*	15,300*	6,939*	15,300*	6,939*	15,300*	6,939*	15,300*	6,939*				
	18	5.49	80.5	29.16	101,200*	45,903*	58,200*	101,200*	41,200*	18,688*	26,399*	41,200*	101,200*	45,903*	101,200*	45,903*	101,200*	45,903*	101,200*	45,903*				
	19	5.79	79.9	29.11	98,600*	44,724*	54,000*	98,600*	38,400*	17,417*	24,493*	38,400*	98,600*	44,724*	98,600*	44,724*	98,600*	44,724*	98,600*	44,724*				
	20	6.10	79.2	29.05	96,900*	43,953*	50,400*	96,900*	35,700*	16,193*	22,861*	35,700*	96,900*	43,953*	96,900*	43,953*	96,900*	43,953*	96,900*	43,953*				
	25	7.62	76.0	28.72	79,200*	35,924*	37,400*	79,200*	26,300*	11,929*	16,964*	26,300*	79,200*	35,924*	79,200*	35,924*	79,200*	35,924*	79,200*	35,924*				
100' (30.48 m)	30	9.14	72.7	28.29	63,400*	28,757*	29,500*	63,400*	20,400*	9,253*	13,380*	20,400*	63,400*	28,757*	63,400*	28,757*	63,400*	28,757*	63,400*	28,757*				
	35	10.67	69.3	27.76	50,100*	22,724*	24,000*	50,100*	16,500*	7,484*	10,886*	16,500*	50,100*	22,724*	50,100*	22,724*	50,100*	22,724*	50,100*	22,724*				
	40	12.19	65.8	27.13	41,000*	18,597*	20,100*	41,000*	13,600*	6,168*	9,117*	13,600*	41,000*	18,597*	41,000*	18,597*	41,000*	18,597*	41,000*	18,597*				
	50	15.24	58.6	25.53	29,800*	13,517*	14,800*	29,800*	9,700*	4,399*	6,713*	9,700*	29,800*	13,517*	29,800*	13,517*	29,800*	13,517*	29,800*	13,517*				
	60	18.29	50.8	23.37	23,000*	10,432*	11,400*	23,000*	7,200*	3,265*	5,170*	7,200*	23,000*	10,432*	23,000*	10,432*	23,000*	10,432*	23,000*	10,432*				
	70	21.34	42.0	20.48	18,400*	8,346*	9,000*	18,400*	5,400*	2,449*	4,082*	5,400*	18,400*	8,346*	18,400*	8,346*	18,400*	8,346*	18,400*	8,346*				
	80	24.38	31.4	16.39	15,200*	6,894*	7,200*	15,200*	4,100*	1,859*	3,265*	4,100*	15,200*	6,894*	15,200*	6,894*	15,200*	6,894*	15,200*	6,894*				
	90	27.43	15.2	9.32	12,700*	5,760*	5,800*	12,700*	3,100*	1,406*	2,630*	3,100*	12,700*	5,760*	12,700*	5,760*	12,700*	5,760*	12,700*	5,760*				
	19	5.79	80.9	32.20	90,400*	41,004*	53,900*	90,400*	38,300*	17,372*	24,448*	38,300*	90,400*	41,004*	90,400*	41,004*	90,400*	41,004*	90,400*	41,004*				
	20	6.10	80.3	32.15	89,000*	40,369*	50,200*	89,000*	36,600*	16,147*	22,770*	36,600*	89,000*	40,369*	89,000*	40,369*	89,000*	40,369*	89,000*	40,369*				

H-38A open throat boom				"A" upper & "A" counterweights										"AB" upper & "A" bumper counterweights									
Length	Radius	Angle	Boom point height ③	On outriggers										On tires (static)									
				Over rear					Over side and 360° swing ①					Over rear					Over side				
				Feet	meters	Degrees	Feet	meters	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds
110' (33.53 m)	25	7.62	78.6	114'	9"	34.96	34.155*	75,300*	34,155*	37,100	16,828	26,000	11,793	75,300*	34,155*	69,400*	31,479*	58,000*	26,308*	69,400*	31,479*	58,000*	26,308*
	30	9.14	75.9	113'	7"	34.62	28,667	63,200	28,667	29,100	13,199	20,100	9,117	69,400*	31,479*	58,000*	26,308*	69,400*	31,479*	58,000*	26,308*	58,000*	26,308*
	35	10.67	73.2	112'	2"	34.20	22,588	49,800	22,588	23,700	10,750	16,200	7,348	58,000*	26,308*	48,400	21,953	48,400	21,953	48,400	21,953	48,400	21,953
	40	12.19	70.4	110'	7"	33.70	18,506	40,800	18,506	19,700	8,935	13,300	6,032	48,400	21,953	35,100	15,921	35,100	15,921	35,100	15,921	35,100	15,921
	50	15.24	64.8	106'	5"	32.44	13,426	29,600	13,426	14,500	6,577	9,400	4,263	35,100	15,921	27,300	12,383	29,400	13,335	29,400	13,335	29,400	13,335
	60	18.29	58.9	101'	1"	30.81	10,296	22,700	10,296	11,100	5,034	7,900	3,583	22,700	10,296	18,200	8,255	14,300	6,486	18,200	8,255	14,300	6,486
	70	21.34	52.6	94'	3"	28.73	8,255	18,200	8,255	9,400	4,263	6,900	3,129	18,200	8,255	15,000	6,803	11,600	5,261	15,000	6,803	11,600	5,261
	80	24.38	45.7	85'	7"	26.10	6,803	15,000	6,803	8,200	3,694	5,500	2,494	15,000	6,803	12,500	5,669	9,600	4,354	12,500	5,669	9,600	4,354
	90	27.43	37.9	74'	5"	22.69	5,669	12,500	5,669	6,900	3,129	4,500	2,041	12,500	5,669	10,600	4,808	8,000	3,628	10,600	4,808	8,000	3,628
	100	30.48	28.3	59'	1"	18.01	4,808	10,600	4,808	6,700	3,039	3,600	1,632	10,600	4,808	8,900	4,036	6,500	2,948	8,900	4,036	6,500	2,948
110	33.53	13.8	33'	1"	10.09	3,039	9,000	9,000	6,700	3,039	3,600	1,632	9,000	4,036	11,300	5,125	8,900	4,036	11,300	5,125	8,900	4,036	
120' (36.58 m)	25	7.62	79.5	124'	11"	38.07	31,388*	69,200*	31,388*	36,900	16,737	25,800	11,702	69,200*	31,388*	63,600*	28,848*	63,600*	28,848*	63,600*	28,848*	63,600*	28,848*
	30	9.14	77.1	123'	10"	37.75	28,621	63,100	28,621	29,000	13,154	19,900	9,026	63,100	28,621	57,000*	25,854*	57,000*	25,854*	57,000*	25,854*	57,000*	25,854*
	35	10.67	74.6	122'	7"	37.37	22,543	49,700	22,543	23,500	10,845	16,000	7,257	49,700	22,543	43,400	19,700	43,400	19,700	43,400	19,700	43,400	19,700
	40	12.19	72.1	121'	1"	36.91	18,461	40,700	18,461	19,500	8,845	13,100	5,942	40,700	18,461	35,000	15,875	35,000	15,875	35,000	15,875	35,000	15,875
	50	15.24	67.0	117'	5"	35.78	13,335	29,400	13,335	14,300	6,486	9,200	4,173	29,400	13,335	25,000	11,400	25,000	11,400	25,000	11,400	25,000	11,400
	60	18.29	61.7	112'	7"	34.32	10,251	22,600	10,251	11,100	5,034	7,900	3,583	22,600	10,251	17,900	8,119	17,900	8,119	17,900	8,119	17,900	8,119
	70	21.34	56.2	106'	7"	32.48	8,164	18,000	8,164	9,400	4,263	6,700	3,039	18,000	8,164	14,200	6,441	14,200	6,441	14,200	6,441	14,200	6,441
	80	24.38	50.2	99'	1"	30.20	6,713	14,800	6,713	8,500	3,855	5,200	2,358	14,800	6,713	11,500	5,216	11,500	5,216	11,500	5,216	11,500	5,216
	90	27.43	43.6	89'	9"	27.35	5,579	12,300	5,579	7,600	3,447	4,100	1,859	12,300	5,579	10,400	4,717	7,800	3,538	10,400	4,717	7,800	3,538
	100	30.48	36.2	77'	9"	23.71	4,717	10,400	4,717	6,500	2,948	3,400	1,542	10,400	4,717	8,900	4,036	6,500	2,948	8,900	4,036	6,500	2,948
110	33.53	27.1	61'	7"	18.76	3,447	8,900	8,900	6,500	2,948	3,400	1,542	8,900	4,036	11,200	5,080	8,900	4,036	11,200	5,080	8,900	4,036	
120	36.58	13.2	34'	3"	10.45	2,948	7,600	7,600	6,500	2,948	3,400	1,542	7,600	3,447	9,700	4,399	7,600	3,447	9,700	4,399	7,600	3,447	
130' (39.62 m)	25	7.62	80.3	135'	1"	41.16	28,440*	62,700*	28,440*	36,700	16,646	25,600	11,611	62,700*	28,440*	58,500*	26,535*	58,500*	26,535*	58,500*	26,535*	58,500*	26,535*
	30	9.14	78.1	134'	1"	40.87	26,535*	58,500*	26,535*	28,800	13,063	19,700	8,935	58,500*	26,535*	52,600*	23,858*	52,600*	23,858*	52,600*	23,858*	52,600*	23,858*
	35	10.67	75.8	132'	11"	40.52	22,498	49,600	22,498	23,300	10,568	15,800	7,166	49,600	22,498	40,300	18,279	40,300	18,279	40,300	18,279	40,300	18,279
	40	12.19	73.5	131'	7"	40.10	18,370	40,500	18,370	19,300	8,754	12,900	5,851	40,500	18,370	32,800	14,877	32,800	14,877	32,800	14,877	32,800	14,877
	50	15.24	68.9	128'	2"	39.07	13,290	29,300	13,290	14,100	6,395	9,000	4,082	29,300	13,290	23,400	10,614	23,400	10,614	23,400	10,614	23,400	10,614
	60	18.29	64.1	123'	10"	37.74	10,160	22,400	10,160	11,700	5,200	7,900	3,583	22,400	10,160	17,000	8,028	17,000	8,028	17,000	8,028	17,000	8,028
	70	21.34	59.1	118'	5"	36.09	8,073	17,800	8,073	9,400	4,263	6,500	3,039	17,800	8,073	14,000	6,350	14,000	6,350	14,000	6,350	14,000	6,350
	80	24.38	53.8	111'	9"	34.07	6,622	14,600	6,622	11,300	5,125	5,200	2,358	14,600	6,622	10,700	4,853	10,700	4,853	10,700	4,853	10,700	4,853
	90	27.43	48.1	103'	8"	31.59	5,533	12,200	5,533	7,600	3,447	4,100	1,859	12,200	5,533	9,200	4,173	9,200	4,173	9,200	4,173	9,200	4,173
	100	30.48	41.9	93'	8"	28.54	4,672	10,300	4,672	6,400	2,902	3,200	1,451	10,300	4,672	8,700	3,946	8,700	3,946	8,700	3,946	8,700	3,946
110	33.53	36.0	81'	0"	24.68	3,946	8,700	3,946	6,400	2,902	3,200	1,451	8,700	3,946	7,400	3,356	7,400	3,356	7,400	3,356	7,400	3,356	
120	36.58	26.0	63'	11"	19.48	3,356	7,400	3,356	6,400	2,902	3,200	1,451	7,400	3,356	6,400	2,902	6,400	2,902	6,400	2,902	6,400	2,902	
130	39.62	12.7	35'	5"	10.80	2,902	6,400	6,400	6,400	2,902	3,200	1,451	6,400	2,902	8,300	3,764	8,300	3,764	8,300	3,764	8,300	3,764	
140' (42.67 m)	25	7.62	80.3	144'	4"	43.98	24,448*	53,900*	24,448*	36,700	16,646	25,600	11,611	53,900*	24,448*	50,000*	22,246*	50,000*	22,246*	50,000*	22,246*	50,000*	22,246*
	30	9.14	79.0	144'	4"	43.98	21,636*	47,700*	21,636*	28,800	13,063	19,700	8,935	47,700*	21,636*	43,000*	19,504*	43,000*	19,504*	43,000*	19,504*	43,000*	19,504*
	35	10.67	76.9	143'	3"	43.66	18,279	40,300	18,279	19,100	8,663	12,700	5,760	40,300	18,279	34,600	15,694	34,600	15,694	34,600	15,694	34,600	15,694
	40	12.19	74.7	142'	0"	43.27	14,700	32,700	14,700	15,500	7,076	9,500	4,300	32,700	14,700	28,000	12,556	28,000	12,556	28,000	12,556	28,000	12,556
	50	15.24	70.5	138'	10"	42.32	10,069	22,200	10,069	11,100	5,034	7,900	3,583	22,200	10,069	17,500	7,937	17,500	7,937	17,500	7,937	17,500	7,937
	60	18.29	66.0	134'	10"	41.10	7,983	17,600	7,983	8,300	3,764	4,700	2,131	17,600	7,983	14,000	6,350	14,000	6,350	14,000	6,350	14,000	6,350
	70	21.34	61.5	129'	11"	39.60	6,577	14,500	6,577	9,400	4,263	6,900	3,129	14,500	6,577	12,500	5,669	12,500	5,669	12,500	5,669	12,500	5,669
	80	24.38	56.7	123'	11"	37.77	5,443	12,000	5,443														

HC-138A open throat boom				"A" upper & "A" bumper ① counterweights										"AB" upper & "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 Pounds	Over rear kilograms	Over side and 360° swing ③ Pounds	Over side and 360° swing ③ kilograms	Over rear Pounds	Over rear kilograms	Over side Pounds	Over side kilograms	Over rear Pounds	Over rear kilograms	Over side and 360° swing ③ Pounds	Over side and 360° swing ③ kilograms
150' (45.72 m)	90	27.43	54.6	129' 3"	39.38	11,800	5,352	8,800	3,991					14,800	6,622	11,700	5,307
	100	30.48	49.8	121' 5"	37.02	9,900	4,490	7,200	3,265					12,400	5,624	9,800	4,445
	110	33.53	44.6	112' 2"	34.20	8,300	3,764	6,000	2,721					10,800	4,808	8,200	3,719
	120	36.58	38.8	101' 0"	30.78	7,000	3,175	4,900	2,222					9,100	4,127	7,000	3,175
	130	39.62	32.3	87' 0"	26.51	6,000	2,721	4,000	1,814					7,900	3,583	5,900	2,676
	140	42.67	24.2	68' 4"	20.83	5,100	2,313	3,300	1,496					6,800	3,084	5,000	2,267
	150	45.72	11.8	37' 7"	11.45	4,300	1,950	2,600	1,179					5,900	2,676	4,300	1,950
160' (48.77 m)	30	9.14	80.3	164' 8"	50.18	43,800*	19,867*	43,800*	19,867*					43,800*	19,867*	43,800*	19,867*
	35	10.67	78.5	163' 8"	49.90	40,700*	18,461*	39,800	18,052					40,700*	18,461*	40,700*	18,461*
	40	12.19	76.7	162' 7"	49.56	36,900*	16,737*	32,400	14,696					36,900*	16,737*	36,900*	16,737*
	50	15.24	73.0	159' 11"	48.74	28,700	13,018	22,900	10,387					29,500*	13,380*	28,600	12,972
	60	18.29	69.2	156' 6"	47.69	21,800	9,888	17,100	7,756					24,600*	11,158*	21,700	9,842
	70	21.34	65.3	152' 3"	46.41	17,200	7,801	13,500	6,123					20,700*	9,389*	17,100	7,756
	80	24.38	61.3	147' 3"	44.88	14,100	6,395	10,700	4,853					17,600*	7,983*	14,000	6,350
170' (51.82 m)	90	27.43	57.1	141' 3"	43.06	11,600	5,261	8,700	3,946					14,300*	6,486*	11,500	5,216
	100	30.48	52.8	134' 3"	40.93	9,700	4,399	7,100	3,220					12,300*	5,579*	9,600	4,354
	110	33.53	48.1	126' 0"	38.41	8,100	3,674	5,800	2,630					10,400	4,717	8,100	3,674
	120	36.58	43.1	116' 3"	35.42	6,900	3,129	4,700	2,131					8,900	4,036	6,800	3,084
	130	39.62	37.6	104' 5"	31.83	5,800	2,630	3,800	1,723					7,700	3,492	5,700	2,585
	140	42.67	31.2	89' 10"	27.38	4,900	2,222	3,100	1,406					6,700	3,039	4,800	2,177
	150	45.72	23.4	70' 6"	21.48	4,100	1,859	2,400	1,088					5,800	2,630	4,100	1,859
180' (54.86 m)	160	48.77	11.4	38' 7"	11.76	3,500	1,587	—	—					5,000	2,267	3,400	1,542
	30	9.14	80.9	174' 9"	53.27	39,400*	17,871*	39,400*	17,871*					39,400*	17,871*	39,400*	17,871*
	35	10.67	79.2	173' 11"	53.00	36,300*	16,465*	36,300*	16,465*					36,300*	16,465*	36,300*	16,465*
	40	12.19	77.5	172' 10"	52.69	32,100*	14,560*	32,100*	14,560*					32,100*	14,560*	32,100*	14,560*
	50	15.24	74.0	170' 4"	51.91	27,100*	12,292*	22,700	10,296					27,100*	12,292*	27,100*	12,292*
	60	18.29	70.5	167' 1"	50.94	21,700	9,842	17,000	7,711					22,800*	10,341*	21,500	9,752
	70	21.34	66.9	163' 3"	49.75	17,000	7,711	13,300	6,032					19,300*	8,754*	16,900	7,665
180' (54.86 m)	80	24.38	63.1	158' 7"	48.32	13,900	6,304	10,500	4,782					15,600*	7,076*	13,800	6,259
	90	27.43	59.3	153' 1"	46.65	11,400	5,170	8,500	3,855					13,400*	6,078*	11,300	5,125
	100	30.48	55.3	146' 8"	44.69	9,500	4,309	6,900	3,129					11,500*	5,216*	9,400	4,263
	110	33.53	51.1	139' 2"	42.41	7,900	3,583	5,600	2,540					10,100*	4,581*	7,900	3,583
	120	36.58	46.6	130' 5"	39.74	6,700	3,039	4,500	2,041					8,700	3,946	6,600	2,993
	130	39.62	41.7	120' 1"	36.61	5,600	2,540	3,600	1,632					7,500	3,401	5,500	2,494
	140	42.67	36.4	107' 9"	32.85	4,700	2,131	2,900	1,315					6,500	2,948	4,600	2,086
180' (54.86 m)	150	45.72	30.3	92' 7"	28.22	3,900	1,769	2,300	1,043					5,600	2,540	3,900	1,769
	160	48.77	22.7	72' 6"	22.10	3,300	1,496	—	—					4,800	2,177	3,200	1,451
	170	51.82	11.1	39' 7"	12.06	2,700	1,224	—	—					4,100	1,859	2,600	1,179
	35	10.67	79.8	184' 1"	56.10	31,000*	14,061*	31,000*	14,061*					31,000*	14,061*	31,000*	14,061*
	40	12.19	78.2	183' 1"	55.81	28,600*	12,972*	28,600*	12,972*					28,600*	12,972*	28,600*	12,972*
	50	15.24	74.9	180' 8"	55.08	23,700*	10,750*	22,500	10,205					23,700*	10,750*	23,700*	10,750*
	60	18.29	71.6	177' 8"	54.16	20,000*	9,071*	16,800	7,620					20,000*	9,071*	20,000*	9,071*
180' (54.86 m)	70	21.34	68.2	174' 0"	53.05	15,900*	7,212*	13,100	5,942					15,900*	7,212*	15,900*	7,212*
	80	24.38	64.7	169' 8"	51.72	13,700*	6,214*	10,300	4,672					13,700*	6,214*	13,600	6,168
	90	27.43	61.2	164' 7"	50.16	11,200	5,080	8,300	3,764					11,700*	5,307*	11,100	5,034
	100	30.48	57.5	158' 8"	48.35	9,300	4,218	6,700	3,039					10,300*	4,672*	9,200	4,173
	110	33.53	53.6	151' 9"	46.26	7,700	3,492	5,400	2,449					8,800*	3,991*	7,700	3,492
	120	36.58	49.5	143' 10"	43.84	6,500	2,948	4,300	1,950					7,700*	3,492*	6,400	2,902
	130	39.62	45.2	134' 7"	41.03	5,400	2,449	3,400	1,542					6,900*	3,129*	5,300	2,404
180' (54.86 m)	140	42.67	40.5	123' 10"	37.75	4,500	2,041	2,700	1,224					6,100*	2,766*	4,400	1,995
	150	45.72	35.3	111' 0"	33.84	3,700	1,678	2,000	907					5,400*	2,449*	3,700	1,678
	160	48.77	29.4	95' 3"	29.03	3,100	1,406	—	—					4,600	2,086	3,000	1,360
	170	51.82	22.1	74' 6"	22.70	2,500	1,133	—	—					3,900	1,769	2,400	1,088
	180	54.86	10.8	40' 6"	12.35	2,000	907	—	—					3,300	1,496	—	—

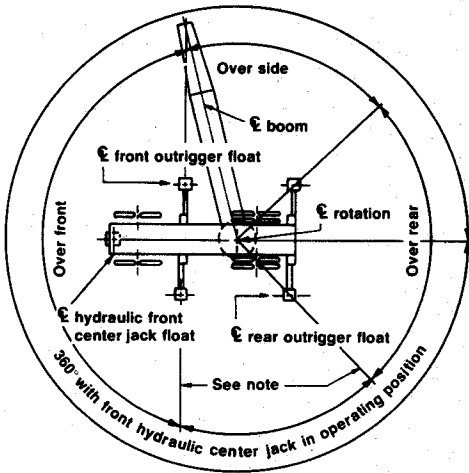
① ② ③ — Refer to page 6.

GENERAL INFORMATION ONLY

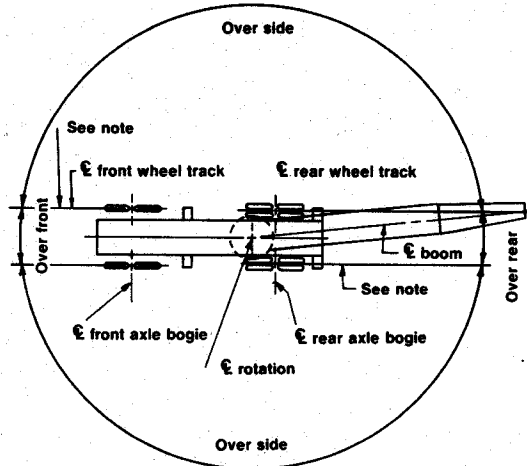
(continued)

38A open throat boom				"A" upper & "AB" counterweights				"AB" upper & "A" bumper counterweights					
Length	Radius		Angle Degrees	Boom point height ②		On outriggers				On tires (static)			
	Feet	meters		Over rear		Over side and 360° swing ③		Over rear		Over side			
				Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms		
190' (57.91 m)	35	10.67	80.4	194' 3"	27,700*	12,564*	27,700*	12,564*	27,700*	12,564*	27,700*	12,564*	
	40	12.19	78.8	193' 4"	25,300*	11,475*	25,300*	11,475*	25,300*	11,475*	25,300*	11,475*	
	50	15.24	75.7	191' 0"	21,200*	9,616*	21,200*	9,616*	21,200*	9,616*	21,200*	9,616*	
	60	18.29	72.6	188' 2"	17,800*	8,073*	17,800*	8,073*	17,800*	8,073*	17,800*	8,073*	
	70	21.34	69.4	184' 9"	14,100*	6,395*	14,100*	6,395*	14,100*	6,395*	14,100*	6,395*	
	80	24.38	66.1	180' 8"	10,100*	5,488*	10,100*	5,488*	12,100*	5,488*	12,100*	5,488*	
	90	27.43	62.8	175' 11"	10,400*	4,717*	10,400*	4,717*	10,400*	4,717*	10,400*	4,717*	
	100	30.48	59.4	170' 4"	8,900*	4,036*	8,900*	4,036*	8,900*	4,036*	8,900*	4,036*	
	110	33.53	55.8	164' 0"	7,500*	3,401*	7,500*	3,401*	7,800*	3,538*	7,500*	3,401*	
	120	36.58	52.1	156' 9"	6,300*	2,857*	6,300*	2,857*	6,800*	3,084*	6,200*	2,812	
200' (60.96 m)	35	10.67	80.8	204' 4"	24,800*	11,249*	24,800*	11,249*	24,800*	11,249*	24,800*	11,249*	
	40	12.19	79.4	203' 6"	22,700*	10,296*	22,700*	10,296*	22,700*	10,296*	22,700*	10,296*	
	50	15.24	76.5	201' 4"	18,900*	8,572*	18,900*	8,572*	18,900*	8,572*	18,900*	8,572*	
	60	18.29	73.5	198' 8"	14,800*	6,713*	14,800*	6,713*	14,800*	6,713*	14,800*	6,713*	
	70	21.34	70.5	195' 5"	12,500*	5,669*	12,500*	5,669*	14,800*	6,713*	14,800*	6,713*	
	80	24.38	67.4	191' 7"	10,700*	4,853*	10,700*	4,853*	12,500*	5,669*	12,500*	5,669*	
	90	27.43	64.3	187' 1"	9,200*	4,173*	9,200*	4,173*	10,700*	4,853*	10,700*	4,853*	
	100	30.48	61.0	181' 11"	7,900*	3,583*	7,900*	3,583*	9,200*	4,173*	9,200*	4,173*	
	110	33.53	57.7	176' 0"	6,900*	3,129*	6,900*	3,129*	7,900*	3,583*	7,900*	3,583*	
	120	36.58	54.3	169' 3"	6,000*	2,721*	6,000*	2,721*	6,900*	3,129*	6,900*	3,129*	
	130	39.62	50.6	161' 6"	5,000*	2,267*	5,000*	2,267*	6,000*	2,721*	6,000*	2,721*	
	140	42.67	46.8	152' 9"	4,100*	1,859*	4,100*	1,859*	5,300*	2,404*	4,900*	2,222	
	150	45.72	42.8	142' 8"	3,300*	1,496*	3,300*	1,496*	4,700*	2,131*	4,000*	1,814	
	160	48.77	38.4	131' 0"	2,600*	1,179*	2,600*	1,179*	4,200*	1,905*	3,300*	1,496	
	170	51.82	33.5	117' 2"	2,100*	952*	—	—	3,700*	1,678*	2,600*	1,179	
	180	54.86	21.5	76' 5"	—	—	—	—	3,400*	1,542*	2,000*	907	
	190	57.91	10.5	41' 5"	—	—	—	—	2,600*	1,179*	—	—	
	35	10.67	80.8	204' 4"	24,800*	11,249*	24,800*	11,249*	24,800*	11,249*	24,800*	11,249*	
	40	12.19	79.4	203' 6"	22,700*	10,296*	22,700*	10,296*	22,700*	10,296*	22,700*	10,296*	
	50	15.24	76.5	201' 4"	18,900*	8,572*	18,900*	8,572*	18,900*	8,572*	18,900*	8,572*	
60	18.29	73.5	198' 8"	14,800*	6,713*	14,800*	6,713*	14,800*	6,713*	14,800*	6,713*		
70	21.34	70.5	195' 5"	12,500*	5,669*	12,500*	5,669*	14,800*	6,713*	14,800*	6,713*		
80	24.38	67.4	191' 7"	10,700*	4,853*	10,700*	4,853*	12,500*	5,669*	12,500*	5,669*		
90	27.43	64.3	187' 1"	9,200*	4,173*	9,200*	4,173*	10,700*	4,853*	10,700*	4,853*		
100	30.48	61.0	181' 11"	7,900*	3,583*	7,900*	3,583*	9,200*	4,173*	9,200*	4,173*		
110	33.53	57.7	176' 0"	6,900*	3,129*	6,900*	3,129*	7,900*	3,583*	7,900*	3,583*		
120	36.58	54.3	169' 3"	6,000*	2,721*	6,000*	2,721*	6,900*	3,129*	6,900*	3,129*		
130	39.62	50.6	161' 6"	5,000*	2,267*	5,000*	2,267*	6,000*	2,721*	6,000*	2,721*		
140	42.67	46.8	152' 9"	4,100*	1,859*	4,100*	1,859*	5,300*	2,404*	4,900*	2,222		
150	45.72	42.8	142' 8"	3,300*	1,496*	3,300*	1,496*	4,700*	2,131*	4,000*	1,814		
160	48.77	38.4	131' 0"	2,600*	1,179*	2,600*	1,179*	4,200*	1,905*	3,300*	1,496		
170	51.82	33.5	117' 2"	2,100*	952*	—	—	3,700*	1,678*	2,600*	1,179		
180	54.86	21.5	76' 5"	—	—	—	—	3,400*	1,542*	2,000*	907		
190	57.91	10.5	41' 5"	—	—	—	—	2,600*	1,179*	—	—		

HC-138A working areas



Rubber tire mobile base on outriggers



Rubber tire mobile base on tires

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

GENERAL INFORMATION ONLY

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

FMC Corporation Cable Crane and Excavator Division Cedar Rapids Iowa 52406

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



Link-Belt® HC-138A Performance Specifications

GENERAL INFORMATION ONLY

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

Extended mast only		Upper without counterweight				Upper with "A" or "AB" counterweight	
Load radius		On tires		On outriggers		On outriggers only	
Feet	meters	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms
10' to 13' ②	3.05 to 3.96	30,000	13 608	30,000	13 608	30,000	13 608
13' to 19'	3.96 to 5.79	18,000	8 165	30,000	13 608	30,000	13 608
19' to 25'	5.79 to 7.62	12,000	5 443	18,000	8 165	18,000	8 165

① Boom live mast must be fixed in extended 23' (7.01 m) long position when used as short boom. Use of live mast as short boom is intended for machine assembly or disassembly only. It should not be used for general crane service. Lifting maximum 30,000 lbs. 13 608 kg capacity requires 3-parts ¾" (19 mm) diameter Type "N" wire rope.

② Live mast must never be operated at less than 10' (3.05 m) radius.

Wire rope and rope drum data

Main load hoist wire rope length — for tubular booms using ¾" (19 mm) diameter wire rope. ①②

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

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

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

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

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

③ Hammerhead boom only.

HC-138A performance specifications

GENERAL INFORMATION ONLY

Wire rope and rope drum data — (continued)

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

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

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

Drum wire rope capacities

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

Rope size and type

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

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

HC-138A performance specifications

GENERAL INFORMATION ONLY

Wire rope and rope drum data — (continued)

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

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

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

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

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 — 14" (0.36 m) root diameter smooth laggings — using ¾" (19 mm) wire rope											
		Line speed											
		First layer rope				Fifth layer rope				Tenth layer rope			
		Standard		High speed ^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
1,000	454			225	68.58	377	114.91	314	95.71	525	160.02	425	129.54
5,000	2 268			211	64.31	334	101.80	287	87.48	439	133.81	373	113.69
10,000	4 536			193	58.83	280	85.34	252	76.81			310	94.49
15,000	6 804			176	53.64								
16,800	7 620			169	51.51								

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

① Maximum permissible load on single part of line — 16,800 lbs. (7 620 kg) for ¾" (19 mm) Type "N" wire rope; 12,400 lbs. (5 625 kg) for ¾" (19 mm) Type "K" wire rope.

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

HC-138A performance specifications

GENERAL INFORMATION ONLY

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 — 14" (0.36 m) root diameter smooth laggings — using ¾" (19 mm) wire rope											
		Line speed											
		First layer rope				Fifth layer rope				Tenth layer rope			
		Standard		High speed ^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
1,000	454			271	82.60	460	140.21	381	116.13	646	196.90	518	157.89
5,000	2 268			247	75.29	386	117.65	339	103.39	478	145.69	421	128.32
10,000	4 536			217	66.14	309	94.18	270	82.30			344	104.85
15,000	6 804			189	57.61								
16,800	7 620			185	56.39								

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

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

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

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

① Maximum permissible load on single part of line — 16,800 lbs. (7 620 kg) for ¾" (19 mm) Type "N" wire rope; 12,400 lbs. (5 625 kg) for ¾" (19 mm) Type "K" wire rope.

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.

FMC Corporation Cable Crane and Excavator Division Cedar Rapids Iowa 52406

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



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

Refer to Notes page 11.

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

Jib — tubular: 30" wide, 24" deep.

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

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

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

(continued)

GENERAL INFORMATION ONLY

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

Refer to Notes page 11.

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

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GENERAL INFORMATION ONLY

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

Refer to **Notes** page 11.

Boom length Feet	Load radius Feet	Capacities on outriggers — over side and 360° swing											
		20° jib				30° jib				40° jib			
		Jib angles to boom (jib offset degrees)				Jib angles to boom (jib offset degrees)				Jib angles to boom (jib offset degrees)			
		0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
120	30	19,700*	15,800*	12,700*	15,900*	12,700*	9,600*	11,800*	9,500*	7,900*	7,900*	5,800*	4,900*
	35	19,100*	15,300*	12,000*	15,500*	11,900*	9,100*	11,500*	9,000*	7,400*	7,200*	5,600*	4,600*
	40	18,600*	14,500*	11,300*	14,300*	11,100*	8,500*	11,000*	8,500*	6,900*	6,200*	5,400*	4,400*
	50	17,500*	13,600*	10,500*	13,500*	10,300*	7,900*	10,000*	8,000*	6,400*	5,800*	5,100*	4,100*
	60	16,300*	12,700*	9,800*	12,700*	9,600*	7,600*	9,500*	7,400*	5,900*	5,300*	4,600*	3,800*
	70	15,300*	12,000*	9,500*	12,000*	9,000*	7,300*	8,900*	6,800*	5,600*	5,000*	4,300*	3,500*
	80	14,400*	11,100*	9,500*	11,000*	8,300*	7,300*	8,400*	6,200*	5,300*	4,800*	4,100*	3,200*
	90	12,100	10,300	8,700	10,000	7,800	7,100	7,800	5,700	4,800	4,400	3,700	3,000*
	100	10,200	8,700	7,400	8,800	7,500	6,500	7,100	5,400	4,600	4,100	3,300*	2,800*
	110	8,600	7,400	6,300	7,500	6,500	5,500	6,400	5,000*	4,300*	3,700*	3,000*	2,500*
	120	7,400	6,300	5,500	6,400	5,500	4,600	5,600	4,400	3,700*	3,200*	2,700	2,200*
	130	6,300	5,500	4,600	5,500	4,600	3,700	4,900	3,800	3,200	2,700	2,200*	1,800*
130	30	19,900*	15,900*	12,900*	15,700*	12,900*	9,700*	11,900*	9,600*	7,600*	7,900*	5,900*	4,900*
	35	19,400*	15,500*	12,200*	15,300*	12,100*	9,200*	11,600*	9,200*	7,300*	7,700*	5,700*	4,700*
	40	18,900*	14,700*	11,500*	14,600*	11,400*	8,700*	11,200*	8,700*	6,800*	7,100*	5,400*	4,400*
	50	17,800*	13,900*	10,800*	13,800*	10,600*	8,100*	10,700*	8,200*	6,000*	6,400*	5,000*	4,200*
	60	16,700*	13,100*	10,000*	13,000*	9,800*	7,500*	9,700*	7,100*	5,700*	5,500*	4,700*	3,900*
	70	15,700*	12,300*	9,700*	12,300*	9,300*	7,100*	9,200*	6,600*	5,300*	5,200*	4,200*	3,700*
	80	14,400	11,600	9,700	11,400	9,300	7,500	8,700	6,000*	4,600*	4,900*	4,200*	3,300*
	90	11,900	10,100	8,500	10,000	8,100	7,100	8,100	5,600*	4,700*	4,400*	3,900*	2,800*
	100	10,000	8,600	7,300	9,500	7,500	6,400	7,400	5,300*	4,600*	4,400*	3,600*	2,800*
	110	8,400	7,300	6,100	8,200	6,500	5,500	6,300	4,600	4,000	4,000*	3,300*	2,800*
	120	7,200	6,100	5,200	7,200	6,200	5,300	6,000	4,600	4,000*	3,600*	3,000*	2,800*
	130	6,100	5,200	4,600	6,200	5,300	4,600	5,400	4,600	3,800	3,200	2,700	2,200*
140	35	19,600*	15,700*	12,400*	15,800*	12,400*	9,800*	11,900*	9,700*	7,700*	7,800*	5,900*	4,900*
	40	19,100*	14,900*	11,700*	14,800*	11,600*	9,300*	11,700*	9,300*	7,400*	7,400*	5,700*	4,700*
	50	18,100*	14,200*	11,100*	14,100*	11,000*	8,800*	10,800*	8,400*	6,700*	7,000*	5,500*	4,500*
	60	17,100*	13,400*	10,400*	13,400*	10,200*	8,300*	10,400*	7,900*	6,200*	6,100*	5,100*	4,300*
	70	16,100*	12,700*	9,800*	12,600*	9,600*	7,600*	9,500*	7,400*	5,800*	5,600*	4,600*	4,000*
	80	14,200	11,900	10,200*	11,800	9,900*	7,000*	9,000*	6,900*	5,000*	5,400*	4,600*	3,700*
	90	11,700	10,000	8,500	9,900	8,400	6,000*	8,400	6,300*	4,200*	4,900*	4,100*	2,600*
	100	9,800	8,400	7,100	8,300	7,300	6,200	7,100	5,400	4,300*	4,300*	3,500*	2,300*
	110	8,200	7,100	6,000	7,100	6,200	5,200	6,100	4,600	3,700*	3,800	3,200*	2,300*
	120	5,900	5,000	4,200	6,000	5,100	4,300	5,200	4,400	3,600*	3,600*	3,000*	2,300*
	130	5,000	4,200	3,600	4,300	3,700	3,000	4,400	3,800	3,200	3,200	2,700	2,200*
	140	4,200	3,600	3,000	3,700	3,000	2,400	3,800	3,200	2,700	2,700	2,200*	1,800*
150	35	19,800*	15,800*	12,500*	15,900*	12,500*	9,900*	11,800*	9,800*	7,700*	7,900*	5,800*	4,800*
	40	19,300*	15,100*	11,900*	15,000*	11,400*	9,400*	11,400*	9,400*	7,500*	7,500*	5,600*	4,600*
	50	18,400*	14,400*	11,300*	14,300*	11,100*	8,500*	11,000*	8,500*	6,700*	6,700*	5,200*	4,400*
	60	17,500*	13,700*	10,700*	13,600*	10,400	8,100*	10,600*	8,100*	6,400*	6,300*	5,200*	4,400*
	70	16,500*	13,000*	10,000*	12,900*	10,400	7,500*	10,100*	7,600*	5,500*	5,900*	4,900*	4,100*
	80	15,500*	12,300*	9,300	12,000*	9,800	7,100*	9,700*	6,800*	4,800*	5,700*	4,600*	3,800*
	90	13,900	11,700	9,900	11,600	9,300	6,400*	9,200*	6,500*	4,600*	5,300*	4,500*	3,700*
	100	11,500	9,800	8,300	10,000	8,400	5,500	8,200	6,500*	4,000*	5,000*	4,200*	3,400*
	110	9,500	8,200	6,900	9,600	7,800	6,000	7,100	5,400	4,300*	5,300*	4,500*	3,700*
	120	8,000	6,700	5,700	8,100	6,800	5,500	6,900	5,700*	4,000*	5,000*	4,200*	3,400*
	130	6,700	5,700	4,800	6,800	5,800	4,600	6,000	5,000*	3,400*	4,400*	3,600*	2,900*
	140	5,700	4,800	4,000	5,800	4,800	3,800	5,200	4,400	3,400*	4,400*	3,600*	2,900*

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GENERAL INFORMATION ONLY

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

Refer to Notes page 11.

Capacities on outriggers — over side and 360° swing																		
Boom length Feet		Load radius Feet	20' jib				30' jib				40' jib				50' jib			
			Jib angles to boom (jib offset degrees)				Jib angles to boom (jib offset degrees)				Jib angles to boom (jib offset degrees)				Jib angles to boom (jib offset degrees)			
			0°	15°	30°		0°	15°	30°		0°	15°	30°		0°	15°	30°	
			Pounds				Pounds				Pounds				Pounds			
150	140	4,800	4,900			4,900	5,000		4,900	5,000*		4,800*	4,000*					
	150	4,000			4,100	4,200		4,200	4,400		3,500	3,200*						
	160	3,300			3,400			2,900			3,000	2,900*						
	170				2,800			2,400			2,400							
	180																	
	190																	
160	35	19,900*			15,700*	12,600*		11,900*	9,500*		7,900*							
	40	19,500*	15,300*	12,600*	15,100*	11,900*	9,500*	11,500*	9,500*	7,800*	7,600*	5,800*						
	50	18,600*	15,300*	12,100*	14,500*	11,900*	9,100*	11,100*	9,500*	7,400*	7,200*	5,600*						
	60	17,700*	14,800*	11,500*	13,900*	10,700*	8,700*	10,700*	9,100*	7,000*	6,800*	5,400*						
	70	16,900*	13,900*	10,900*	13,200*	10,000*	8,100*	9,900*	8,300*	6,000*	6,000*	5,200*						
	80	13,700	13,300*	10,400*	11,600	10,000*	8,200	9,900*	7,900	5,900*	5,100*	5,800*	4,800*					
170	90	11,300	11,600	9,300	11,400	10,400*	8,900	7,900	6,800*	4,300*	5,400*	4,600*						
	100	9,300	9,600	8,000	9,400	8,200	6,900	6,700	5,900*	3,700*	5,200*	4,200*						
	110	7,800	8,000	6,800	7,900	6,600	5,800	5,600	5,200*	4,500*	4,800	3,700*						
	120	6,500	6,700		6,600	5,800	4,800	4,700	4,500*	3,500	4,000	3,300						
	130	5,400	5,600		5,500	4,800	4,000	3,900	3,500	2,900	3,200*	2,600*						
	140	4,500	4,700		4,600	4,000	3,300	3,300	2,700	2,300*	2,900*	2,300*						
180	150	3,800	3,900		3,900	3,300	2,600	2,600	2,100	1,700	1,800							
	160	3,100			3,200													
	170	2,500			2,100													
	180																	
	190																	
	190	40	19,700*			15,800*	12,700*		11,900*	9,600*		7,900*						
50		18,800*	15,400*	12,200*	14,700*	11,500*	9,200*	11,200*	9,600*	7,900*	7,300*	5,800*						
60		18,000*	14,800*	11,700*	14,100*	10,900*	8,800*	10,800*	9,200*	7,500*	6,900*	5,500*						
70		16,700	14,200*	11,100*	13,500	10,300*	8,400*	10,400*	8,800*	6,800*	6,600*	5,300*						
80		13,500	13,000*	10,600*	12,800*	9,800*	7,400*	9,800*	8,200*	5,700*	5,700*	4,900*						
90		11,100	11,400	9,600*	10,800	8,400*	6,300*	8,400*	7,100*	4,000*	5,900*	5,100*						
190	100	9,100	9,400	8,200*	9,200	7,200*	5,400*	7,300*	6,100*	3,400*	5,500*	4,400*						
	110	7,600	7,800	7,200*	7,700	6,400	4,600*	6,400	5,300*	2,900*	5,000*	4,400*						
	120	6,300	6,500	6,200*	6,400	5,600	4,000*	5,400	4,600*	2,600*	3,900*	3,300*						
	130	5,200	5,400	5,500	5,300	4,400	3,500*	4,500	4,000*	2,200*	3,000*	3,000*						
	140	4,300	4,500		4,400	3,800		3,700	3,600*		3,800	3,000*						
	150	3,600	3,700		3,700	3,100		3,000	3,200*		3,100	2,600*						
190	160	2,900	3,000		3,000	2,500		2,500	2,700		2,500	2,300*						
	170	2,300			2,400			1,900	2,100		2,000	2,100*						
	180	1,800			1,900			1,500			1,500	1,700						
	190																	
190	40	19,800*			15,900*	12,800*		11,700*	9,700*		7,700*							
	50	19,000*	15,500*	12,300*	14,800*	11,700*	9,300*	11,300*	9,300*	7,600*	7,400*	5,900*						
	60	17,400*	15,000*	11,800*	14,300*	11,100*	8,100*	10,900*	9,300*	6,300*	7,000*	5,500*						
	70	14,000*	13,500*	10,000*	12,900*	10,100*	6,700*	8,700*	7,500*	5,200*	6,300*	5,400*						
	80	12,100*	11,500*	8,600*	11,100*	8,700*	5,700*	7,500*	6,400*	4,400*	5,800*	5,200*						
	90	10,500*	9,900*	7,500*	9,500*	7,500*	4,800*	6,500*	5,500*	3,200*	4,400*	4,000*						
190	100	8,900	8,600*	6,400*	8,300*	6,400*	4,200*	6,500*	5,500*	2,700*	5,000*	4,000*						
	110	7,400	7,500*	5,600*	7,200*	5,600*	3,600*	5,600*	4,700*	2,300*	4,400*	3,500*						
	120	6,100	6,300	5,600*	6,200	4,900*	3,200*	5,000*	4,100*	2,000*	3,900*	3,000*						
	130	5,000	5,200	4,900*	5,100	4,300	2,800	4,300	3,600*	1,900	3,400*	2,600*						
	140	4,100	4,300		4,200	3,600		3,500	3,200*		2,900	2,300*						
	150	3,300	3,500		3,400	2,900		2,800	2,500		2,300	2,000*						
190	160	2,700	2,800		2,800	2,300		2,200	1,900		1,800	1,800*						
	170	2,100	2,200		2,200	1,800		1,700										
	180	1,600			1,700													
	190																	
190	40	19,900*			15,500*	12,900*		11,700*	9,800*		7,800*							
	50	18,100*	15,700*	12,400*	14,000*	11,900*	9,800*	11,400*	9,700*	7,900*	7,500*	5,900*						
	60	14,600*	14,000*	10,000*	12,400*	10,000*	7,000*	11,400*	9,800*	6,300*	7,000*	5,500*						
	70																	
	80																	
	90																	

(continued)

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

Refer to **Notes** page 11.

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

GENERAL INFORMATION ONLY

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

Refer to Notes page 11.

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

(continued)

GENERAL INFORMATION ONLY

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

Refer to Notes page 11.

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

(continued)

(continued)

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

Refer to **Notes** page 11.

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

(continued)

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

Refer to Notes page 11.

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

(continued)

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

Refer to **Notes** page 11.

Capacities of triggers — over rear only													
Boom length Feet	Load radius Feet	20' jib			30' jib			40' jib			50' jib		
		Jib angles to boom (jib offset degrees)											
		0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
		Pounds			Pounds			Pounds			Pounds		
180	160	4,300	4,100*		3,900*	3,400*		3,500*	2,800*		3,100*	2,300*	
	170	3,600	3,700		3,500*	3,100*		3,100*	2,500*		2,700*	2,000*	
	180	3,000			3,000			2,800*	2,300*		2,500*	1,800*	
	190	2,400			2,500			2,600			2,200*	1,600*	
	200							2,100			2,000*		
	210										1,700		
190	40	19,900*			15,000*	12,700*		11,400*	9,600*		7,600*	5,900*	
	50	18,100*	15,800*	13,000*	13,400*	12,100*	9,500*	11,100*	9,200*	7,100*	7,300*	5,700*	4,900*
	60	14,600*	14,100*	12,500*	11,400*	10,600*	8,700*	10,500*	9,200*	5,800*	7,000*	5,600*	4,600*
	70	12,500*	12,000*	10,700*	9,800*	9,000*	7,300*	9,000*	7,900*	4,900*	6,700*	5,400*	3,800*
	80	10,700*	10,200*	9,100*	8,400*	7,600*	6,100*	7,600*	6,700*	4,000*	6,300*	4,900*	3,100*
	90	9,300*	8,800*	7,700*	7,200*	6,500*	5,200*	6,600*	5,700*	3,400*	6,000*	4,200*	2,600*
	100	8,100*	7,500*	6,600*	6,300*	5,700*	4,400*	5,700*	4,900*	2,900*	5,200*	3,600*	2,200*
	110	7,100*	6,600*	5,700*	5,500*	4,900*	3,800*	5,000*	4,200*	2,500*	4,500*	3,100*	1,900*
	120	6,200*	5,700*	4,900*	4,900*	4,300*	3,300*	4,300*	3,600*	2,100*	3,900*	2,700*	1,600*
	130	5,500*	5,000*	4,400*	4,300*	3,800*	2,900*	3,800*	3,200*		3,400*	2,300*	
	140	4,800*	4,500*	3,800*	3,800*	3,400*		3,400*	2,800*		3,000*	2,100*	
	150	4,300*	4,000*		3,800*	3,400*		3,000*	2,500*		2,700*	1,800*	
	160	3,800*	3,600*		3,400*	3,000*		2,700*	2,200*		2,300*	1,600*	
	170	3,400	3,200*		3,100*	2,700*		2,400*	2,000*		2,100*	1,500*	
	180	2,700	2,800		2,800*	2,400*		2,200*	1,800*		1,700*		
	190	2,200			2,300			1,900			1,500		
	200	1,700			1,800								
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HC-138A jib capacities — open throat boom (U.S. units)

Refer to **Notes** below.

Notes — tubular jib lifting capacities

1. The capacities included in this chart are the maximum allowable under ideal job conditions based on machine standing level on firm supporting surface on fully extended and set outriggers, with tires free of supporting surface. Capacities are based on 85% of minimum tipping loads unless marked with an asterisk (*).
- a. Asterisk indicates capacities are based on factors other than those which would cause a tipping condition.
2. Capacities are based on freely suspended loads and make no allowance for such factors as the effect of wind, supporting surface conditions, and operating speeds. Operator must reduce load ratings accordingly to take such conditions into account. Deduction from rated capacities must be made for weight of hook block, ball/hook, sling or other suspended gear.

3. All jib capacities are for 'on outrigger' working areas as defined on the working areas drawing in applicable lifting crane capacity chart. Capacities for 360° swing applicable only when power hydraulic front center jack, in addition to front and rear outriggers, is set in proper working position.
4. Capacities are limited to boom and jib described in this chart and with 10' 0" high jib mast properly assembled in working position.
5. The pinned telescopic boom live mast must be used in the extended 23' position for all capacities on this chart.
6. For boom lengths exceeding 140', boom midpoint suspension pendants are required.
7. Jib cannot be mounted on open throat boom length exceeding 190'.
8. Capacities are for 20', 30', 40' and 50' jib lengths only.
9. Machine equipped with "AB" upper counterweight — do not swing over side until outriggers have been set.
10. Least stable rated position is over the side.
11. For lifting loads greater than 16,800 lbs., 2-part jib load hoist line (3/4" Type "N" wire rope) is required. For single part jib hoist line operation, 3/4" Type "P" wire rope is recommended (maximum capacity based on wire rope strength is 16,800 lbs.).
12. Refer to all notes on applicable lifting crane capacity chart in addition to these notes.
13. Capacities apply only to the machine as originally manufactured and normally equipped by FMC Corporation, Cable Crane and Excavator Division.



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

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