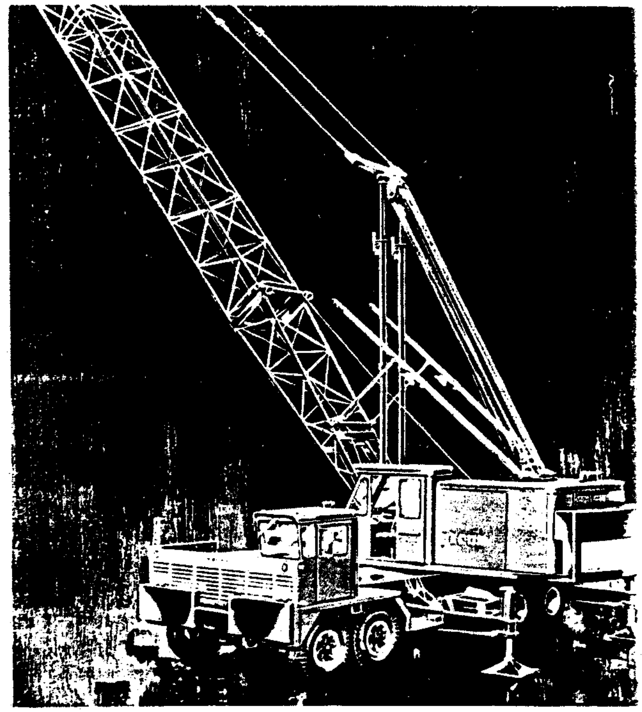
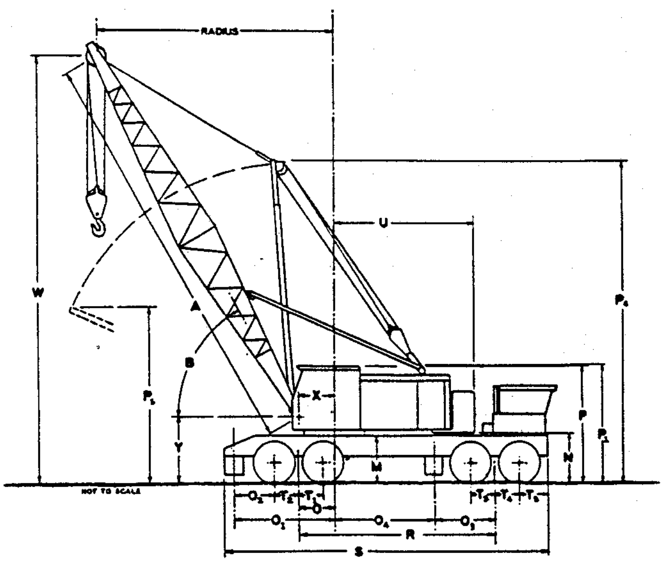
GENERAL INFORMATION ONLY

FLYSHEET HC-138 TRUCK MOUNTED CRANE

Dimensions
Working ranges
Lifting capacities
Specifications



DIMENSIONS AND WORKING RANGES



CARRIER — 8 x 4 11′ 0″ WIDE

Basic boom length	A	40′ 0″
Boom angle	B	
Overall height, top of turntable bearing plate	M	4′ 6″
Ground clearance under counterweight	N	4′ 9″
Centerline rotation to rear axle bogie	O	4′ 0″
Centerline rotation to rear outrigger center	O^1	9′ 9″
Center rear axle to rear outrigger center	O^2	3′ 7″
Centerline rotation to front outrigger center	O^4	6′ 6″
Overall height, boomhoist bail sheave	P^1	11′ 3″
Overall height, boom mast vertical	P^4	30′ 11″
Overall height boom mast, with 40′ boom horizontal	P^5	17′ 11″
Wheelbase	R	19′ 8″
Overall length over rear outrigger box, with front bumper ctwt.	S	32′ 6″
without front bumper ctwt.	S	32′ 2″
Center rear axle to pivot of bogie	T^1 & T^2	2′ 3″
Center front axle to pivot of bogie	T^3 & T^4	2′ 3″
Center front axle to front bumper	T^5	3′ 0″
Center front axle to front bumper counterweight	T^5	3′ 4″
Tailswing of counterweight	U	13′ 5″
Radius of boom hinge pin	X	3′ 2″
Height of boom hinge pin	Y	6′ 11″
Overall height, 40′ boom in travel position over front with boom mast retracted and linked to boom		13′ 0″
Overall width outriggers extended (c/l of jacks)		19′ 6″
Overall width outriggers retracted (floats removed)		11′ 0″

DRUM ROPE CAPACITIES LINE-SPEEDS AND LINE PULL

Wire Rope Dia.	FRONT DRUM						REAR DRUM					
	Lagging		Line Pull and Speed		Drum Capacities		Lagging		Line Pull and Speeds		Drum Capacities	
	Root Dia.	Groove	F.P.M. 1st Layer	Pull, lbs. 1st Layer	1st Layer Capacity	Total Capacity	Root Dia.	Groove	F.P.M. 1st Layer	Pull, lbs. 1st Layer	1st Layer Capacity	Total Capacity
3/4″	14″	Smooth	162	20,200	77′	1071′	14″	Smooth	162	20,200	77′	1071′
	BOOMHOIST DRUM						THIRD DRUM					
3/4″	10 1/2″	Smooth	131	22,800	60′	370′	10 1/2″	Smooth	131	22,800	60′	370′

Flysheet CRF 19008-3-70

Printed in U.S.A.

GENERAL INFORMATION ONLY

HC-138 CAPACITIES WITH TUBULAR BOOM

PCSA Class 12-320
Refer to ALL notes on page 2.

Capacities are based on machine equipped with boom mast (fully extended), 8 x 4 drive carrier, 11′ 0″ wide, 14:00 x 20 18-ply rating tires, front and rear power hydraulic outriggers, 18,000# ctwt. and 4,300# bumper ctwt.

BOOM				ON OUTRIGGERS		ON TIRES	
Length	Radius	Angle	Point Ht. W.	Rear	Side	Rear	Side
	12′	78°	45′ 11″	130,000*	130,000*	76,700*	62,310*
	13′	76°	45′ 7″	128,040*	127,140*	73,870*	58,450*
	14′	74°	45′ 4″	119,790*	119,080*	71,250*	55,010*
40′	15′	73°	45′ 0″	112,500*	111,960*	68,790*	51,930*
	20′	65°	43′ 1″	86,000*	85,930*	47,760	35,510
	25′	57°	40′ 5″	67,530*	66,680	35,540	26,140
	30′	48°	36′ 6″	54,380*	49,320	28,010	20,370
	35′	37°	31′ 1″	44,890*	38,810	22,880	16,460
	40′	23°	22′ 5″	37,240*	31,730	19,150	13,600
	13′	79°	55′ 11″	127,360*	127,110*	73,630*	58,370*
	14′	78°	55′ 8″	119,760*	119,050*	71,010*	54,930*
	15′	76°	55′ 5″	112,480*	111,930*	68,560*	51,850*
	20′	70°	53′ 11″	85,980*	85,900*	47,890	35,650
50′	25′	64°	51′ 10″	67,600*	66,990	35,650	26,250
	30′	58°	48′ 11″	54,490*	49,560	28,100	20,470
	35′	50°	45′ 5″	45,000*	39,030	22,980	16,560
	40′	43°	40′ 7″	38,150*	31,960	19,270	13,730
	50′	21°	24′ 4″	28,390	23,030	14,220	9,870
	15′	79°	65′ 10″	112,630*	112,070*	68,410*	51,920*
	20′	74°	64′ 5″	86,080*	85,990*	48,170	35,930
	25′	69°	62′ 8″	67,770*	67,420	35,850	26,450
	30′	63°	60′ 6″	54,670*	49,880	28,250	20,630
60′	35′	58°	57′ 8″	45,150*	39,270	23,100	16,680
	40′	52°	54′ 2″	38,270*	32,160	19,380	13,830
	50′	39°	44′ 4″	28,580	23,220	14,330	9,980
	60′	19°	26′ 1″	22,060	17,760	11.020	7,440
	20′	76°	74′ 10″	85,930*	85,840*	48,150	35,920
	25′	72°	73′ 4″	67,680*	67,530	35,810	26,410
	30′	68°	71′ 6″	54,600*	49,930	28.200	20,580
70′	35′	63°	69′ 2″	45,080*	39,300	23.050	16.630
	40′	58°	66′ 5″	38,190*	32,170	19,320	13,780
	50′	48°	58′ 11″	28,580	23,220	14.280	9,930
	60′	36°	47′ 10″	22,100	17,800	11,010	7,430
	70′	17°	27′ 7″	17,710	14,130	8.690	5,650
	20′	78°	85′ 0″	85,750*	85,660*	48,100	35,870
	25′	74°	83′ 10″	67,560*	67,560*	35,730	26,340
	30′	70°	82′ 2″	54,500*	49,940	28,120	20,490
	35′	67°	80′ 2″	44,980*	39,280	22,960	16,540
80′	40′	63°	77′-11″	38,090*	32,140	19,220	13,690
	50′	54°	71′ 10″	28,530	23,170	14,180	9,840
	60′	45°	63′ 1″	22,050	17,760	10,930	7,350
	70′	33°	50′ 10″	17,700	14,120	8.640	5,600
	80′	16°	29′ 1″	14,540	11,470	6.920	4,270
	20′	79°	95′ 4″	81,510*	81,510*	48,030	35,800
	25′	76°	94′ 2″	67,420*	67,420*	35,640	26,250
	30′	73°	92′ 8″	54,380*	49,920	28,010	20,390
	35′	69°	91′ 0″	44,840*	39,240	22,840	16,430
	40′	66°	89′ 0″	37,950*	32,080	19,110	13,570
90′	50′	59°	83′ 2″	28,460	23,090	14,060	9,720
	60′	51°	76′ 7″	21,970	17,670	10,810	7,240
	70′	42°	67′ 1″	17,620	14,040	8,530	5,500
	80′	31°	53′ 8″	14,500	11,420	6.840	4,200
	90′	15°	30′ 6″	12,110	9,420	5.510	3,170
	25′	77°	104′ 5″	67,260*	67,260*	35,530	26,140
	30′	74°	103′ 2″	54,240*	49,890	27.890	20,270
	40′	68°	99′ 10″	37,790*	32,010	18,980	13,440
100′	50′	62°	95′ 2″	28,360	23,000	13,930	9,590
	60′	55°	89′ 1″	21,870	17,570	10.680	7,100
	70′	48°	81′ 2″	17,520	13,940	8,400	5,360
	80′	40°	70′ 10″	14,400	11,320	6,720	4,080
	90′	30°	56′ 5″	12,040	9,350	5,410	3,070
	100′	14°	31′ 10″	10,170	7,780	4,350	2.250
	25′	79°	114′ 8″	64,820*	64,820*	35.410	26,030
	30′	76°	113′ 6″	54,090*	49,840	27,760	20,150
	40′	70°	110′ 6″	37,630*	31,920	18,840	13,300
	50′	65°	106′ 5″	28,260	22,890	13,790	9,440
110′	60′	59°	101′ 0″	21,750	17,460	10,530	6,960
	70′	53°	94′ 2″	17,400	13,820	8,260	5,220
	80′	46°	85′ 7″	14,280	11,200	6,580	3,930
	90′	38°	74′ 5″	11,930	9,240	5.280	2,940
	100′	28°	59′ 0″	10,080	7,690	4,240	2,140
	110′	14°	33′ 0″	8,580	6,430	3,370	1,470

BOOM				ON OUTRIGGERS		ON TIRES	
Length	Radius	Angle	Point Ht. W.	Rear	Side	Rear	Side
	30′	77°	123′ 10″	53,930*	49,780	27,630	20,010
	40′	72°	121′ 1″	37,460*	31,820	18,690	13,160
	50′	67°	117′ 4″	28,140	22,780	13,630	9,290
	60′	62°	112′ 6″	21,620	17,330	10,380	6,800
120′	70′	56°	106′ 6″	17,270	13,680	8,100	5,060
	80′	50°	99′ 0″	14,140	11,070	6,420	3,780
	90′	44°	89′ 8″	11,790	9,100	5,130	2,790
	100′	36°	77′ 8″	9,960	7,560	4,090	2,000
	110′	27°	61′ 6″	8,470	6,320	3,250	1,350
	120′	13°	34′ 2″	7,240	5,280	2,520	——
	30′	78°	134′ 0″	52,380*	49,720	27,490	19,870
	40′	74°	131′ 6″	37,280*	31,720	18,540	13,010
	50′	69°	128′ 1″	27,960*	22,660	13,470	9,130
	60′	64°	123′ 10″	21,490	17,200	10,210	6,640
130′	70′	59°	118′ 4″	17,130	13,550	7,940	4,900
	80′	54°	111′ 8″	14,000	10,930	6,260	3,620
	90′	48°	103′ 7″	11,650	8,960	4,960	2.630
	100′	42°	93′ 7″	9,810	7,420	3,940	1,840
	110′	35°	80′ 11″	8,340	6,190	3.090	1,200
	120′	26°	63′ 10″	7,120	5,160	2,390	——
	130′	13°	35′ 4″	6,080	4,290	1,770	——
	30′	79°	144′ 2″	47,730*	47,730*	27,340	19,730
	40′	75°	141′ 11″	37,090*	31,610	18,380	12,850
	50′	71°	138′ 10″	27,760*	22,530	13,310	8.970
	60′	66°	134′ 10″	21,360	17,060	10,050	6,480
	70′	62°	129′ 11″	16,980	13,400	7,770	4,740
140′	80′	57°	123′ 11″	31,850	10,780	6.090	3,450
	90′	52°	116′ 8″	11,500	8,810	4,800	2,460
	100′	46°	107′ 11″	9,660	7,270	3.770	1,680
	110′	40°	97′ 4″	8,190	6,040	2.930	1,040
	120′	33°	84′ 0″	6,980	5,020	2.230	——
	130′	25°	66′ 1″	5,960	4,160	1,640	——
	140′	12°	36′ 5″	5,070	3,420	1,110	——
	35′	78°	153′ 5″	39,180*	38,750	21.980	16,580
	40′	76°	152′ 4″	34,890*	31,500	18.220	12,690
	50′	72°	149′ 4″	27,320*	22,400	13.150	8,800
	60′	68°	145′ 8″	21,210*	16,920	9.880	6,310
	70′	64°	141′ 1″	16,840*	13,250	7,600	4.560
	80′	59°	135′ 8″	13,700*	10,630	5.920	3.280
150′	90′	55°	129′ 2″	11,350*	8,660	4.620	2,290
	100′	50°	121′ 5″	9,510*	7,120	3.600	1,510
	110′	45°	112′ 1″	8,030*	5,880	2,760	——
	120′	39°	100′ 11″	6,820*	4,870	2.070	——
	130′	32°	86′ 11″	5,770*	4,010	1,470	——
	140′	24°	68′ 4″	4,810*	3,290	——	——
	150′	12°	37′ 6″	4,060*	2,640	——	——
	35′	79°	163′ 7″	36,070*	36,070*	21.830	15,420
	40′	77°	162′ 6″	31,450*	31,380	18.060	12,530
	50′	73°	159′ 10″	25,070*	22,270	12,980	8,640
	60′	69°	156′ 5″	20,110*	16,770	9,710	6,140
	70′	65°	152′ 2″	16,680*	13,100	7,430	4,390
	80′	61°	147′ 2″	12,760*	10,470	5,740	3,100
160′	90′	57°	141′ 2″	10,520*	8,500	4,450	2,120
	100′	53°	134′ 5″	8,660*	6,960	3.420	1,330
	110′	48°	125′ 11″	7,110*	5,720	2,590	——
	120′	43°	116′ 2″	5,830*	4,710	1.890	——
	130′	38°	104′ 5″	4,770*	3,860	1.300	——
	150′	23°	70′ 5″	3,130*	2,500	——	——
	160′	11°	38′ 6″	2,540*	1,940	——	——

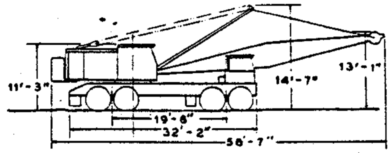
NOTES — *Lifting Crane*

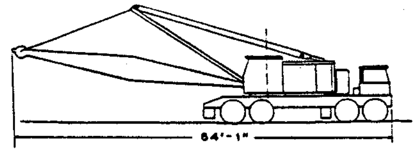
1. For lifting 130,000 lbs., ten parts of 3/4″ hoist rope is required.
2. Capacities shown are in pounds, and unless indicated by an asterisk (*), are based on 85% of minimum tipping loads, with machine standing on firm level ground. Deduction must be made for weight of hook block, hook, sling, grapple, etc.
3. For boom lengths exceeding 140 feet, the boom mast with mid-point suspension pendants is required.
4. When boom mast is used as a short boom, maximum lifting capacity is 18,000 lbs. from 10′ 0″ minimum to 23′ maximum radius, with mast extended, on outriggers side and rear.

*These capacities are the maximum capacities, and are based on factors other than the machine's tipping condition.

GENERAL INFORMATION ONLY

AXLE LOADINGS (approximate)

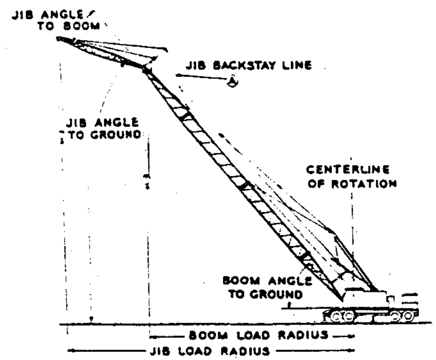




DESCRIPTION	Component Weight	Total Weight	Upper Facing Front		Upper Facing Rear	
			Front	Rear	Front	Rear
Standard carrier complete with 40' tubular "Hi-Lite" boom, boom mast, bumper ctwt., hoist lines, backstops.		100,750	24,680	76,070	42,140	58,610
Removable Components						
40' tubular "Hi-Lite" boom with pendants	− 4,300		+ 7,200	− 2,900	+ 5,445	− 9,745
20' top section with pendants	− 2,740		− 5,580	+ 2,840	+ 4,435	− 7,175
Boom mast spreader bar and bridle	− 2,570		− 2,290	− 280	+ 1,240	− 3,810
Upper counterweight	− 18,000		+ 7,600	− 25,600	− 15,050	− 2,950
Bumper counterweight	− 4,300		− 5,530	+ 1,230	− 5,530	+ 1,230
Front outrigger box complete	− 5,000		− 2,670	− 2,330	− 2,670	− 2,330
Front outrigger beams only	− 3,500		− 1,870	− 1,630	− 1,870	− 1,630
Rear outrigger box complete	− 5,000		+ 1,460	− 6,460	+ 1,460	− 6,460
Rear outrigger beams only	− 3,500		+ 1,020	− 4,520	+ 1,020	− 4,520
Added Components						
Third drum	+ 1,400		+ 390	+ 1,010	+ 185	+ 1,215
Fr. Drum lowering clutch	+ 350		+ 50	+ 300	+ 90	+ 260
Front drum planetary, either side	+ 450		+ 65	+ 385	+ 120	+ 330
Rear drum planetary, either side	+ 450		0	+ 450	+ 180	+ 270
Detroit Diesel — 8V71-N (carrier)	+ 750		+ 770	− 20	+ 770	− 20
GM6082, with torque converter (upper)	+ 2,006		− 536	+ 2,542	+ 1,355	+ 651

HC-138 JIB CAPACITIES

Jib Angle To Ground	JIB LENGTH			
	20'	30'	40'	50'
80°	20,000	16,000	12,000	8,000
65°	16,000	13,000	10,000	6,000
50°	13,000	10,000	8,000	5,000
35°	10,500	8,000	6,000	4,000
20°	9,500	7,000	5,000	3,000



1. Capacities shown are in pounds and are based on a Link-Belt Speeder jib with a cross section 30" wide by 24" deep and used with a 10' 0" high jib mast in the proper working position.
2. For jib angle to ground, deduct jib angle to boom from the boom angle to ground.
3. The jib backstay line (A) is anchored to the boom upper section.
4. The jib angle to boom must not exceed 30°.
5. Determining machine jib capacities
   a. Add the length of boom plus length of jib used.
   b. Determine the jib load radius.
   c. Refer to lifting crane capacity chart and select the boom length that corresponds to the total length of boom and jib in (a) and the radius in (b).
      (1) The jib capacity is equal to the lifting crane capacity unless restricted by the maximum jib capacities shown above.
   d. If the total length of boom and jib exceeds the longest boom length listed in the lifting capacity chart deduct 600 lbs. from the capacity shown for the longest boom length for the radius required in (b).
      (1) The jib capacity is the resulting figure unless restricted by the maximum jib capacities shown above.
6. Determining lifting crane capacities with jib on boom:
   a. when operating off the main boom peak sheaves with a jib on the boom, the following reductions in machine lifting capacities must be made.
      (1) 20' jib — 1,600 lbs. (3) 40' jib — 2,200 lbs.
      (2) 30' jib — 1,900 lbs. (4) 50' jib — 2,500 lbs.

MAXIMUM BOOM—JIB MACHINE CAN LIFT OFF GROUND UNASSISTED

	Boom	Boom + Jib
On tires and travel*		
Over rear	140'	120' + 50'
Over Side	120'	100' + 50'
On outriggers		
Over rear	160'	160' + 50'
Over side	160'	150' + 50'

*Reduced travel speeds are recommended with long booms; safe speeds depend on road conditions.

GENERAL SPECIFICATIONS GENERAL INFORMATION ONLY

CARRIER (Truck-type – 8x4 – Link-Belt Speeder).

FRAME — Main members alloy steel channel. Machined turntable mounting surface.

FRONT AXLES — Tandem, bogie beam mounted, Shuler Tubular Model FTKC; 110¼" track.

REAR AXLES — Tandem, Clark Planetary Model BD50-70, double reduction, bogie beam mounted; 100" track.

WHEELS AND RIMS — Cast spoke type, front. Integral with planetary hub, rear. 20" wheels, 10" rims.

TIRES — Single tires, front, dual tires rear.

Standard — 14:00 x 20, 18-ply rating, transport type tread.

Optional — 14:00 x 20, 18-ply rating, Custom Hi-Miler.

Optional — 14:00 x 20, 18-ply rating, HCT Rock type tread.

Optional — 14:00 x 20, 18-ply rating, Super Road Lug.

OUTRIGGERS — Full width, double-box front and rear, pin connected to carrier frame. Hydraulically operated beam and jack cylinders are individually controlled from either side of the carrier. Optional control from carrier cab, upper or from any combination available. Hydraulic power is supplied by carrier engine driven hydraulic pump. Check valve at each jack cylinder. Pontoons are alloy steel, lightweight.

BRAKES — (Air)

Service — Eight wheel air brakes standard. MAXI-BRAKE on rear wheels, and single diaphragm air chambers on front wheels. Internal expanding.

Size and Area —

Rear Wheels — 16½" x 17", total effective lining area 910 sq. in.

Front Wheels — 17" x 4", total effective lining area 500 sq. in.

Digging — Eight-wheel service brake applied with air valve on carrier dash.

Parking — Four-wheel rear brakes applied with air valve on carrier dash.

Emergency — Brakes on four rear wheels apply when air pressure drops below 45 p.s.i. in the system. Emergency brake may be manually applied at any time by hand control of dash mounted air valve.

STEERING — Power hydraulic, Ross Model HPS70; 20" diameter wheel.

TURNING RADIUS — 50' 10" over outside of front bumper.

ENGINES — Gasoline or diesel, 12-volt alternator or generator, starter, pressure lubrication, radiator, air cleaner, 15 c.f.m. air compressor, hydraulic pump.

Standard — Waukesha F817-G gasoline engine, six cylinder, four cycle, 5⅜" bore, 6" stroke, 817 cu. in. displacement, 272 maximum brake horsepower at 2,400 r.p.m. full load speed. Peak torque 721 ft. lbs. at 1200 r.p.m.

Optional — GM 6V-71N diesel engine, six cylinder, two cycle, 4¼" bore, 5" stroke, 426 cu. in. displacement, 252 maximum brake horsepower at 2,300 r.p.m. full load speed. Peak torque 649 ft. lbs. at 1,400 r.p.m.

Optional — GM 8V-71N diesel engine, eight cylinder, two cycle, 4¼" bore, 5" stroke, 568 cu. in. displacement, 280 maximum brake horsepower at 2,300 r.p.m. governed load speed. Peak torque 760 ft. lbs. at 1,200 r.p.m.

CLUTCH — Lipe Rollway, 14" 2-plate.

TRANSMISSIONS —

Main — Fuller RTO 915 with fifteen speeds forward and three reverse.

Auxiliary — Fuller 2A92, 2 speed, midship mounted, for creeping only.

UNIVERSALS — Rockwell Standard or Mechanics Universal.

CAB — One-man, fully enclosed.

ELECTRICAL SYSTEM — 12 volt system, including dual sealed beam headlights, directional signals with four-way flashing system, stop and tail lights, clearance lights, horn, two-speed windshield wiper, lighting of instrument panel, dome light, headlight dimmer switch. Two 12-volt 200 ampere batteries.

WEIGHT — Standard truck with bumper ctwt., less turntable bearing approximately 48,160 lbs.

STANDARD EQUIPMENT — Bus type rear view mirrors, boom guide, lug wrench, a two way reading bubble level, and tire inflation hose. Instrument panel and dash includes speedometer, ammeter, fuel gauge, engine temperature gauge, air pressure gauge, oil pressure gauge, low air pressure warning buzzer, key start ignition switch, choke and throttle controls, tachometer. High pressure lube fittings at all bearing points; 70-gal. total capacity fuel tanks.

SPEEDS — All speeds are for HC-138 with engines at governed full load r.p.m.; (GM-2,300 r.p.m. — Waukesha-2,400 r.p.m.)

Gear		Main-Fuller RT0915 15 Speed	Auxiliary-Fuller 2A92 — 2 Speed			
			Waukesha F-817-G		GM 6V-71N	
			1.00:1.00	2.298:1.00	1.00:1.00	2.298:1.00
High	10th	.81	46.4 mph	20.3 mph	44.4 mph	19.4 mph
	9th	1.00	37.6 mph	16.4 mph	36.0 mph	15.7 mph
	8th	1.26	29.8 mph	13.0 mph	28.6 mph	12.5 mph
	7th	1.59	23.7 mph	10.3 mph	22.6 mph	9.9 mph
	6th	2.04	18.4 mph	8.0 mph	17.7 mph	7.7 mph
	Rev.	2.21	17.0 mph	7.4 mph	16.3 mph	7.1 mph
Low	5th	2.59	14.5 mph	6.3 mph	13.9 mph	6.1 mph
	4th	3.20	11.8 mph	5.1 mph	11.3 mph	4.9 mph
	3rd	4.04	9.3 mph	4.1 mph	8.9 mph	3.9 mph
	2nd	5.10	7.4 mph	3.2 mph	7.1 mph	3.1 mph
	1st	6.51	5.8 mph	2.5 mph	5.5 mph	2.4 mph
	Rev.	7.06	5.3 mph	2.3 mph	5.1 mph	2.2 mph

Gear		Main-Fuller RT0915 15 Speed	Auxiliary-Fuller 2A92 — 2 Speed			
			Waukesha F-817-G		GM 6V-71N	
			1.00:1.00	2.298:1.00	1.00:1.00	2.298:1.00
Deep Reduction	5th	3.87	9.7 mph	4.2 mph	9.3 mph	4.1 mph
	4th	4.78	7.7 mph	3.4 mph	7.5 mph	3.3 mph
	3rd	6.03	6.2 mph	2.7 mph	6.0 mph	2.6 mph
	2nd	7.62	4.9 mph	2.1 mph	4.7 mph	2.1 mph
	1st	9.73	3.9 mph	1.7 mph	3.7 mph	1.6 mph
	Rev.	10.55	3.6 mph	1.6 mph	3.4 mph	1.4 mph

The deep reduction low (1st) and reverse speed, with the auxiliary in low gear speed, are based on peak engine torque at 1,200 r.p.m., giving a creep speed 0.46 m.p.h.

GENERAL INFORMATION ONLY

UPPER FRAME — All-welded, stress-relieved, precision machined unit. Side housings are welded integral with upper frame.

TURNTABLE BEARING WITH INTEGRAL GEAR — X Roller bearing type. Outer race with external swing gear is bolted to carrier; inner race bolted to upper frame. A machined surface is provided for mounting turntable bearing.

TRANSMISSION — Link-Belt quadruple roller chain enclosed in oil tight chain case with integral sump. Pump driven oil stream lubrication. Engine pinion and chain wheel have machine-cut teeth.

REDUCTION SHAFT — Consist of two shafts with drive pinions. Shafts mounted in line bores on anti-friction bearings. Pinions have machine-cut teeth.

CLUTCHES — Speed-O-Matic power hydraulic actuated for swing, operating drums, boomhoist, third drum and optional load lowering. Internal expanding, two shoe type, aluminum alloy shoes; 18″ diameter, 4½″ face width.

Spiders — Involute splined to horizontal shafts.

DRUMS — Front, rear, and third (optional) operating drums.

Shafts — Mounted in line bores on anti-friction bearings. Extended to accommodate optional load lowering clutches. Special shaft required to accommodate two-speed planetary driven drums on front and rear drums.

Spur Gears — Machine-cut teeth; mounted on anti-friction bearings on shaft.

Clutch Drums — Bolted to spur gears.

Brakes — Two-piece, external contracting band, mechanically foot pedal operated, front and rear drum 32″ diameter 4″ face width; third drum 26″ diameter 4″ face width.

Brake Drums — One-piece, smooth, involute splined to drum shaft.

Drum Laggings — Involute splined to shaft.

DRUM ROTATION INDICATOR (Optional) — Mounted on control stand. Dial actuated by flexible shaft from front and rear main operating drum shafts.

TWO-SPEED FRONT AND REAR DRUMS (Optional) — Planetary driven hoist and lowering. Planetary unit mounts between spur gear and two-shoe clutch drum on extended shaft; available for 70% increase or 40% decrease of standard hoist and load lowering rope speeds. Two-shoe clutch gives standard speed. Planetary controlled by external contracting band through push-button located on clutch control lever.

HORIZONTAL SWING SHAFT — Mounted in line bore on anti-friction bearings.

Spur Gears — Machine-cut teeth. Mounted on shaft on anti-friction bearings.

Bevel Gear — Machine-cut teeth, involute-splined to shaft, fully enclosed and running in oil.

Swing Brake — Two-directional, external contracting band, 18″ diameter 3″ face width; spring applied and power hydraulically released.

Brake Drum — Involute splined to shaft. 18″ diameter 3¼″ face width.

INDEPENDENT BOOMHOIST — Spur gear driven with precision boom raising through a 2-shoe clutch and boom lowering through a planetary. A rope drum locking pawl, manually controlled from operators position, is provided.

Shaft — Mounted in line bore on anti-friction bearings.

Spur Gear — Machine-cut teeth mounted on anti-friction bearings on shaft.

Wire Rope Drum — Involute-splined to shaft, with ratchet wheel cast integral.

Brake Drum — Involute splined to shaft, 26″ diameter 4½″ face width.

Brake — External contracting band, 26″ diameter 4″ face width, spring applied and power hydraulically released.

Planetary Boom Lowering — Unit mounts on outer end of boomhoist shaft. Planetary is activated by external contracting band brake which is controlled by operator from operators control stand.

Boom Lowering Clutch (Optional) — Two-shoe clutch for higher speed boom lowering mounts on shaft outside the planetary unit. Clutch drum bolted to outer face of planetary housing.

BOOMHOIST LIMITING DEVICE — A cab mounted device which, when it comes in contact with the boom, trips a switch and deactivates an electrically energized solenoid valve located in hydraulic boomhoist clutch circuit. The deactivated solenoid valve releases the boomhoist clutch and a spring automatically applies the boomhoist brake. In normal operation. the boom must be lowered before it can be raised again. After solenoid valve is deactivated. an emergency bypass switch mounted on control stand allows hoisting boom for release of drum locking pawl.

VERTICAL SWING SHAFT — Mounted in line bore on anti-friction bearings.

Bevel Gear — Machine-cut teeth, involute-splined to shaft, fully enclosed and running in oil.

Swing Pinion — Involute-splined to shaft; teeth mesh with external teeth of turntable bearing.

SWING LOCK — Mechanically controlled pawl engages with external teeth of turntable bearing.

SWING SPEED — 3.36.

BAIL — Pinned to upper frame, to support boom suspension system. Contains six sheaves, mounted on anti-friction bearings for 14-part boomhoist.

CAB — Operator door swings, rear double doors slide on ball bearing rollers, all other doors hinged; safety glass panels.

COUNTERWEIGHT — 18,000 pounds. Power hydraulic raised or lowered in seconds. Held in place on two hydraulically controlled frustums. Control valves at rear of upper.

CONTROL SYSTEM — Speed-o-Matic power hydraulics; an open system. Operating pressure is transmitted through oil to all operating two-shoe clutch cylinders, swing brake and boomhoist drum brake cylinders. The system includes a pump to provide a constant flow of oil, an accumulator to maintain operating pressure and variable pressure operator-controlled valves to regulate this pressure to each clutch cylinder.

Pump — Vickers; rated at 4.7 g.p.m. at 1,200 r.p.m.

Oil Filter — Link-Belt Speeder; replaceable Skinner ribbon-type filter element.

Relief Valve — Link-Belt Speeder; set to operate at 1,250 p.s.i.

Unloader Valve — Link-Belt Speeder; set to unload pump at a maximum 1,050 p.s.i. and to load pump when pressure drops below 900 p.s.i.

Accumulator — Link-Belt Speeder; piston-type, pre-charged with nitrogen gas to 650 p.s.i.

Sump Tank — Link-Belt Speeder; 7 gal. capacity with filter and strainer assembly.

Control Valves — Link-Belt Speeder; variable pressure type.

ENGINES — Full pressure lubrication, oil filter, air cleaner, hour meter, hand and foot throttles, 74-gal. capacity fuel tanks with fuel gauge.

	Waukesha F-554-G (1)	GM 6-71 Series (Model 6082) with torque converter (2)	GM 4-71 Series (Model 4030N)	GM 4-71 Series (Model 4082) with torque converter (3)	Cummins H-743-P with torque converter (4)
Number of cylinders Bore and stroke (inches) Piston displacement (cu. in.)	6 $5^5/_8 \times 5^1/_2$ 554	6 $4^1/_2 \times 5$ 425.6	4 $4^1/_4 \times 5$ 283.7	4 $4^1/_4 \times 5$ 283.7	6 $5^1/_8 \times 6$ 743
High idle speed, r.p.m. Engine r.p.m. F.L.S.	1,880 1,710	1,940 1,800	1,990 1,850	1,207 @ pinion 1,670 @ crankshaft	1,830 1,740
Net engine H.P. @ F.L.S. Peak torque; Lbs. Ft. Peak torque; r.p.m.	109 427 800	165 1,400 (output stall)	110 351 1,200	112 1,000 (output stall)	144 1,770 (output stall)
Electrical system Batteries	12 volt 2—6-volt	12 volt 1—12-volt	12 volt 2—6-volt	24 volt 2—12-volt	12 volt 2—12-volt
Clutch — Type Make Model	Friction-Hyd. cplg. Twin Disc SP211-HP-1	Disconnect between engine-converter	Friction-Hyd. cplg. Twin Disc SP111-HP-1	Disconnect between engine-converter	Disconnect between engine-converter
Transmission — No. chain wheel teeth No. engine pinion teeth	161 18	161 18	161 17	161 28	161 18

(1) Two-speed Cotta transmission available.
(2) Allison TCDO 475 Single Stage Converter.
(3) 3.4 ratio Torqumatic TDCOA 435 Single Stage Converter.
(4) Twin Disc Model CO-10065-TC-1 three stage converter.

FRONT END CRANE BOOM EQUIPMENT

BOOM — "Hi-Lite" Tubular. Two-piece; 40′ total length, 20′ upper and lower sections, 44″ deep and 54″ wide at connections. Chords alloy steel, 3″ outside diameter. Lacing of round steel tubing fully coped to fit chords.

Boomfoot — $2^3/_8$″ wide on 54″ centers.

Boompoint Machinery — Five heat-treated, 18″ root diameter sheaves mounted on anti-friction bearings on boom peak shaft.

Connections — In-line pin-connections facilitate insertion or removal of boom extensions. Tapered pin (with latch pin) for fast, easy pin-up. Exclusive design in-line pin lugs welded to chord tube. Extended hub on female connection serves as anchor for jib staylines and pendant lines when assembling boom.

BOOM EXTENSIONS — Available in 10′, 15′, 20′ and 30′ lengths with proper length pendants.

BOOM BACKSTOPS — Dual, lever type with spring-loaded bumpers.

BOOMHOIST BRIDLE — Serves as a connection between the pendants and live boomhoist rope. Bridle contains 12″ root diameter sheaves mounted on anti-friction bearings; $6^1/_2$″ root diameter auxiliary hoist sheaves mounted on bronze bushings which enable mast to be used as a short boom.

BOOM MAST — Mounts on front of upper frame; supports boomhoist bridle and mid-point suspension pendants. Required for all boom lengths. Hydraulically extends from 19′ to 23′ long for working position, mechanically retracts to 19′. Controlled by hand valve located on control panel.

Boom Mast Backstops — Mast backstops with spring-loaded bumpers are welded to inner side of each main backstop member for the mast when used as a boom.

JIB — 20′ two-piece with 10′ upper and lower sections; 10′ extensions available for 30′, 40′ or 50′ jib. Jib is 30″ wide and 24″ deep at the connections; chords are $1^1/_2$″ outside diameter tubing.

Connections — In-line pin connections permit easy removal and addition of sections.

Jib Mast — 10′ high, mounted on jib base section. Two deflector sheaves within the mast, mounted on anti-friction bearings for jib hoist line; two equalizer sheaves for jib frontstay and jib backstay lines mounted to top of mast.

Jib Backstops — Telescoping type, spring loaded; pinned from jib mast to boom upper section and from jib mast to jib lower section.

Peak Sheave — Mounted on anti-friction bearings.

Peak Shaft — Anchor is provided at peak of jib for two-part jib hoist line. Line anchors are suspended from the shaft.

FAIRLEADER — Full-revolving type with barrel, sheaves, and guide rollers mounted on anti-friction bearings.

TAGLINER WINDER — Rud-o-Matic Model 648; spring wound drum type mounted on crane boom. Cable pull off drum — 60′ to 75′ from neutral.

BOOM ANGLE INDICATOR — Mounted near boom base.

ROPE SUPPORTING ROLLERS — To deflect main hoist line over top of boom. Required when third drum rope passes over crane boom. Rollers mounted on anti-friction bearings; following numbers recommended — One through 100′; two through 110′; three through 130′; four through 150′; five through 160′. Requirements increased by one on booms from 50′ through 160′ when using third drum rope over boom head.

BOOM FOLDING EQUIPMENT (Optional) — A special 10′ boom section with lifting lugs is inserted. Upper portion of boom to be folded must be 15′ or 20′ shorter than lower portion. Two links inserted in pendant lines serve to carry folded boom, as well as eliminate the necessity of disconnecting the pendants when the boom is folded. The special section and links can remain in place at all times. A folding wheel and bracket pin-connects at boom top. Wheel has a 6:50 x 16, 6-ply rating grooved implement tire.

WIRE ROPE— GENERAL INFORMATION ONLY

TYPE AND SIZE USED

Live Boomhoist — Type "N", 3/4" dia.
Main Hoist — Type "N", 3/4" dia.
Jib Hoistline — Type "K", 3/4" dia.
Tagline — Type "A", 5/16" dia.
Jib Staylines — Type "N", 3/4" dia.
Boom Pendants — Type "N", 1 1/4" dia.
Mid-Point Suspension Pendants — Type "F", 3/4" dia., Type "N", 7/8" dia.

WIRE ROPE TYPES

Type "A" — 6 x 25 (6 x 19 class), filler wire, improved plow steel, preformed, fiber center, right lay, regular lay.

Type "F" — 6 x 25 (6 x 19 class), filler wire, improved plow steel, preformed, independent wire rope center, right lay, regular lay.

Type "K" — 18 x 7 non-rotating, improved plow steel, fiber center.

Type "N" — 6 x 25 (6 x 19 class), filler wire, extra improved plow steel, preformed, independent wire rope center, right lay, regular lay.

JIB MAST STAYLINES

Backstay — 48' 10" long (39' 3" plus two each 4' 9 1/2" long), for 30° jib to boom angle; removal of 4' 9" lengths allows 15° and in-line jib to boom angle.

Frontstay — For all booms with 20' jib, 46' 5" long. Each 10' jib extension is supplied with two pendants 9' 4" long.

MAIN HOIST LINE LENGTH

Parts of Line	Boom Length (in feet)												
	40	50	60	70	80	90	100	110	120	130	140	150	160
1	125	145	165	185	205	225	245	265	285	305	325	345	365
2	175	200	230	260	290	320	350	380	410	440	470	500	530
3	215	255	295	335	375	415	455	495	535	575	615	655	695
4	260	310	360	410	460	510	560	610	660	710	760	810	860
5	305	365	425	485	545	605	665	725	785	845	905	965	—
6	350	420	490	560	630	700	770	840	910	980	—	—	—
7	395	475	555	635	715	795	875	955	—	—	—	—	—
8	440	530	620	710	800	890	980	—	—	—	—	—	—
9	485	585	685	785	885	985	—	—	—	—	—	—	—
10	530	640	750	860	970	—	—	—	—	—	—	—	—

LIVE BOOMHOIST ROPE LENGTH .... **530'**

JIB HOISTLINE LENGTH

Jib Length (in ft.)	Parts of Line	Boom Length (in feet)												
		40	50	60	70	80	90	100	110	120	130	140	150	160
20	1	135	155	175	195	215	235	255	275	295	315	335	355	375
20	2	200	230	260	290	320	350	380	410	440	470	500	530	560
30	1	155	175	195	215	235	255	275	295	315	335	355	375	395
30	2	230	260	290	320	350	380	410	440	470	500	530	560	590
40	1	175	195	215	235	255	275	295	315	335	355	375	395	415
40	2	260	290	320	350	380	410	440	470	500	530	560	590	620
50	1	195	215	235	255	275	295	315	335	355	375	395	415	435
50	2	290	320	350	380	410	440	470	500	530	560	590	620	650

Link-Belt Speeder
DIVISION OF FMC CORPORATION
Cedar Rapids, Iowa • Woodstock, Ontario, Canada • Queretaro, Mexico • Milan, Italy

Link-Belt® HC-138 lifting crane capacities

PCSA Class 12-319
Refer to **Notes** page 4

Boom — tubular; 54″ (1.37 m) wide, 44″ (1.12 m) deep with 20′ (6.10 m) long open throat top section, 1¼″ (31.75 mm) dia. boom pendants, boom live mast, and boom midpoint suspension pendants as required.

Carrier — FMC; 8 x 4 drive, 236″ (5.99 m) wheelbase, 11′ 0″ (3.35 m) wide.

Counterweights — Upper ctwt. "A" — 18,000# (8,165 kg). Bumper ctwt. "A" — 4,300# (1,950 kg).

Boom						On Outriggers				On Tires (Static)			
	Radius		Angle	Boom Point Height ①		Over Rear		Over Side		Over Rear		Over Side	
Length	Feet	Meters	Degrees	Feet	Meters	Pounds	Kilograms	Pounds	Kilograms	Pounds	Kilograms	Pounds	Kilograms
40′ (12.19 m)	12	3.66	77.2	45′ 11″	13.98	130,000*	58,967*	130,000*	58,967*	93,800*	42,546*	62,100*	28,168*
	13	3.96	75.8	45′ 8″	13.91	128,000*	58,059*	127,100*	57,651*	82,600	37,466	58,200*	26,399*
	14	4.27	74.3	45′ 4″	13.83	119,700*	54,295*	119,000*	53,977*	78,500	35,607	54,800*	24,856*
	15	4.57	72.8	45′ 1″	13.74	112,500*	51,029*	111,900*	50,756*	71,000	32,205	51,700*	23,450*
	20	6.10	65.1	43′ 2″	13.15	86,000*	39,008*	85,900*	38,963*	47,700	21,636	35,500	16,102
	25	7.62	56.9	40′ 5″	12.31	67,500*	30,617*	66,600	30,209	35,500	16,102	26,100	11,838
	30	9.14	47.9	36′ 6″	11.13	54,300*	24,630*	49,300	22,362	28,000	12,700	20,300	9,207
	35	10.67	37.3	31′ 1″	9.47	44,800*	20,320*	38,800	17,599	22,800	10,341	16,400	7,438
	40	12.19	23.0	22′ 6″	6.85	37,200*	16,873*	31,700	14,378	19,100	8,663	13,600	6,168
50′ (15.24 m)	13	3.96	78.7	55′ 11″	17.03	127,300*	57,742*	127,100*	57,651*	87,800	39,825	58,100*	26,353*
	14	4.27	77.5	55′ 8″	16.97	119,700*	54,295*	119,000*	53,977*	78,700	35,697	54,700*	24,811*
	15	4.57	76.3	55′ 5″	16.90	112,400*	50,983*	111,900*	50,756*	71,200	32,295	51,600*	23,405*
	20	6.10	70.3	53′ 11″	16.44	85,900*	38,963*	85,900*	38,963*	47,800	21,681	35,600	16,147
	25	7.62	64.1	51′ 10″	15.80	67,600*	30,662*	66,900	30,345	35,600	16,147	26,200	11,884
	30	9.14	57.5	49′ 1″	14.95	54,400*	24,675*	49,500	22,452	28,100	12,745	20,400	9,253
	35	10.67	50.5	45′ 5″	13.84	45,000*	20,411*	39,000	17,690	22,900	10,387	16,500	7,484
	40	12.19	42.6	40′ 8″	12.40	38,100*	17,281*	31,900	14,469	19,200	8,708	13,700	6,214
	50	15.24	20.5	24′ 5″	7.43	28,300	12,836	23,000	10,432	14,200	6,441	9,800	4,445
60′ (18.29 m)	15	4.57	78.6	65′ 8″	20.02	112,600*	51,074*	112,000*	50,802*	71,600	32,477	51,700*	23,450*
	20	6.10	73.7	64′ 5″	19.65	86,000*	39,008*	85,900*	38,963*	48,100	21,817	35,900	16,283
	25	7.62	68.7	62′ 9″	19.13	67,700*	30,708*	67,400	30,572	35,800	16,238	26,400	11,974
	30	9.14	63.4	60′ 6″	18.45	54,600*	24,766*	49,800	22,588	28,200	12,791	20,600	9,344
	35	10.67	58.0	57′ 9″	17.59	45,100*	20,457*	39,200	17,780	23,100	10,477	16,600	7,529
	40	12.19	52.1	54′ 3″	16.53	38,200*	17,327*	32,100	14,560	19,300	8,754	13,800	6,259
	50	15.24	38.7	44′ 4″	13.52	28,500	12,927	23,200	10,523	14,300	6,486	9,900	4,490
	60	18.29	18.7	26′ 1″	7.96	22,000	9,979	17,700	8,028	11,000	4,989	7,400	3,356
70′ (21.34 m)	20	6.10	76.1	74′ 10″	22.80	85,900*	38,963*	85,800*	38,918*	48,100	21,817	35,900	16,283
	25	7.62	71.8	73′ 4″	22.36	67,600*	30,662*	67,500	30,617	35,800	16,238	26,400	11,974
	30	9.14	67.5	71′ 6″	21.80	54,600*	24,766*	49,900	22,634	28,200	12,791	20,500	9,298
	35	10.67	63.0	69′ 2″	21.09	45,000*	20,411*	39,300	17,826	23,000	10,432	16,600	7,529
	40	12.19	58.3	66′ 5″	20.24	38,100*	17,281*	32,100	14,560	19,300	8,754	13,700	6,214
	50	15.24	48.0	58′ 11″	17.95	28,500	12,927	23,200	10,523	14,200	6,441	9,900	4,490
	60	18.29	35.7	47′ 9″	14.55	22,100	10,024	17,800	8,073	11,000	4,989	7,400	3,356
	70	21.34	17.3	27′ 8″	8.44	17,700	8,028	14,100	6,395	8,600	3,900	5,600	2,540
80′ (24.38 m)	20	6.10	77.9	85′ 1″	25.93	85,700*	38,872*	85,600*	38,827*	48,100	21,817	35,800	16,238
	25	7.62	74.2	83′ 10″	25.55	67,500*	30,617*	67,500*	30,617*	35,700	16,193	26,300	11,929
	30	9.14	70.4	82′ 3″	25.06	54,500*	24,720*	49,900	22,634	28,100	12,745	20,400	9,253
	35	10.67	66.6	80′ 3″	24.46	44,900*	20,366*	39,200	17,780	22,900	10,387	16,500	7,484
	40	12.19	62.6	77′ 11″	23.74	38,000*	17,236*	32,100	14,560	19,200	8,708	13,600	6,168
	50	15.24	54.2	71′ 9″	21.86	28,500	12,927	23,100	10,477	14,100	6,395	9,800	4,445
	60	18.29	44.7	63′ 2″	19.25	22,000	9,979	17,700	8,028	10,900	4,944	7,300	3,311
	70	21.34	33.3	50′ 10″	15.49	17,700	8,028	14,100	6,395	8,600	3,900	5,600	2,540
	80	24.38	16.2	29′ 2″	8.89	14,500	6,577	11,400	5,170	6,900	3,129	4,200	1,905
90′ (27.43 m)	20	6.10	79.2	95′ 3″	29.04	81,500*	36,967*	81,500*	36,967*	48,000	21,772	35,800	16,238
	25	7.62	76.0	94′ 2″	28.70	67,400*	30,572*	67,400*	30,572*	35,600	16,147	26,200	11,884
	30	9.14	72.7	92′ 9″	28.28	54,300*	24,630*	49,900	22,634	28,000	12,700	20,300	9,207
	35	10.67	69.3	91′ 1″	27.75	44,800*	20,320*	39,200	17,780	22,800	10,341	16,400	7,438
	40	12.19	65.8	89′ 0″	27.12	37,900*	17,191*	32,000	14,514	19,100	8,663	13,500	6,123
	50	15.24	58.6	83′ 9″	25.52	28,400	12,882	23,000	10,432	14,000	6,350	9,700	4,399
	60	18.29	50.8	76′ 8″	23.36	21,900	9,933	17,600	7,983	10,800	4,898	7,200	3,265
	70	21.34	42.0	67′ 2″	20.46	17,600	7,983	14,000	6,350	8,500	3,855	5,500	2,494
	80	24.38	31.4	53′ 9″	16.38	14,500	6,577	11,400	5,170	6,800	3,084	4,200	1,905
	90	27.43	15.2	30′ 6″	9.31	12,100	5,488	9,400	4,263	5,500	2,494	3,100	1,406
100′ (30.48 m)	25	7.62	77.4	104′ 5″	31.84	67,200*	30,481*	67,200*	30,481*	35,500	16,102	26,100	11,838
	30	9.14	74.4	103′ 2″	31.45	54,200*	24,584*	49,800	22,588	27,800	12,609	20,200	9,162
	35	10.67	71.4	101′ 8″	30.99	44,600*	20,230*	39,100	17,735	22,700	10,296	16,300	7,393
	40	12.19	68.4	99′ 10″	30.43	37,700*	17,100*	32,000	14,514	18,900	8,572	13,400	6,078
	50	15.24	62.1	95′ 3″	29.02	28,300	12,836	23,000	10,432	13,900	6,304	9,500	4,309
	60	18.29	55.4	89′ 2″	27.17	21,800	9,888	17,500	7,937	10,600	4,808	7,100	3,220
	70	21.34	48.1	81′ 3″	24.77	17,500	7,937	13,900	6,304	8,400	3,810	5,300	2,404
	80	24.38	39.8	70′ 10″	21.60	14,400	6,531	11,300	5,125	6,700	3,039	4,000	1,814
	90	27.43	29.7	56′ 6″	17.21	12,200	5,533	9,300	4,218	5,400	2,449	3,000	1,360
	100	30.48	14.5	31′ 10″	9.70	10,100	4,581	7,700	3,492	4,300	1,950	2,200	997

① Measured vertically from center of boom head sheave to ground.

(continued)

GENERAL INFORMATION ONLY

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(Supersedes #CRF 19015-2-73, Table A and capacities shown in HC-138 Flysheet #CRF 19011-5-71)

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HC-138 lifting crane capacities

Refer to **Notes** page 4

Boom						On Outriggers				On Tires (Static)			
	Radius		Angle	Boom Point Height ①		Over Rear		Over Side		Over Rear		Over Side	
Length	Feet	Meters	Degrees	Feet	Meters	Pounds	Kilograms	Pounds	Kilograms	Pounds	Kilograms	Pounds	Kilograms
110' (33.53 m)	25	7.62	78.6	114' 8"	34.95	64,800*	29,392*	64,800*	29,392*	35,400	16,057	26,000	11,793
	30	9.14	75.9	113' 6"	34.61	54,000*	24,493*	49,800	22,588	27,700	12,564	20,100	9,117
	35	10.67	73.2	112' 2"	34.19	44,500*	20,184*	39,100	17,735	22,500	10,205	16,100	7,302
	40	12.19	70.4	110' 6"	33.68	37,600*	17,055*	31,900	14,469	18,800	8,527	13,300	6,032
	50	15.24	64.8	106' 5"	32.43	28,200	12,791	22,800	10,341	13,700	6,214	9,400	4,263
	60	18.29	58.9	101' 1"	30.80	21,700	9,842	17,400	7,892	10,500	4,762	6,900	3,129
	70	21.34	52.6	94' 3"	28.72	17,400	7,892	13,800	6,259	8,200	3,719	5,200	2,358
	80	24.38	45.7	85' 7"	26.09	14,200	6,441	11,200	5,080	6,500	2,948	3,900	1,769
	90	27.43	37.9	74' 5"	22.67	11,900	5,397	9,200	4,173	5,200	2,358	2,900	1,315
	100	30.48	28.3	59' 1"	18.00	10,000	4,535	7,600	3,447	4,200	1,905	2,100	952
	110	33.53	13.8	33' 1"	10.08	8,500	3,855	6,400	2,902	3,300	1,496	1,400	635
120' (36.58 m)	30	9.14	77.1	123' 10"	37.74	53,900*	24,448*	49,700	22,543	27,600	12,519	20,010	9,076
	35	10.67	74.6	122' 7"	37.36	44,300*	20,094*	39,000	17,690	22,400	10,160	16,000	7,257
	40	12.19	72.1	121' 1"	36.90	37,400*	16,964*	31,800	14,424	18,600	8,436	13,100	5,942
	50	15.24	67.0	117' 4"	35.77	28,100	12,745	22,700	10,296	13,600	6,168	9,200	4,173
	60	18.29	61.7	112' 7"	34.31	21,700	9,842	17,300	7,847	10,300	4,672	6,800	3,084
	70	21.34	56.2	106' 6"	32.47	17,200	7,801	13,600	6,168	8,100	3,674	5,000	2,267
	80	24.38	50.2	99' 0"	30.19	14,100	6,395	11,000	4,989	6,400	2,902	3,700	1,678
	90	27.43	43.6	89' 8"	27.34	11,700	5,307	9,100	4,127	5,100	2,313	2,700	1,224
	100	30.48	36.2	77' 9"	23.70	9,900	4,490	7,600	3,447	4,000	1,814	2,000	907
	110	33.53	27.1	61' 6"	18.75	8,400	3,810	6,300	2,857	3,200	1,451	1,300	589
	120	36.58	13.2	34' 3"	10.44	7,200	3,265	5,200	2,358	2,500	1,133	—	—
130' (39.62 m)	30	9.14	78.1	134' 1"	40.86	52,300*	23,722*	49,700	22,543	27,400	12,428	19,800	8,981
	35	10.67	75.8	132' 11"	40.51	44,300*	20,094*	38,900	17,644	22,200	10,069	15,800	7,166
	40	12.19	73.5	131' 6"	40.09	37,200*	16,873*	31,700	14,378	18,500	8,391	13,000	5,896
	50	15.24	68.9	128' 2"	39.06	27,900*	12,655*	22,600	10,251	13,400	6,078	9,100	4,127
	60	18.29	64.1	123' 9"	37.73	21,400	9,706	17,200	7,801	10,200	4,626	6,600	2,993
	70	21.34	59.1	118' 4"	36.08	17,100	7,756	13,500	6,123	7,900	3,583	4,900	2,222
	80	24.38	53.8	111' 9"	34.06	14,000	6,350	10,900	4,944	6,200	2,812	3,600	1,632
	90	27.43	48.1	103' 7"	31.58	11,600	5,261	8,900	4,036	4,900	2,222	2,600	1,179
	100	30.48	41.9	93' 7"	28.53	9,800	4,445	7,400	3,356	3,900	1,769	1,800	816
	110	33.53	34.7	80' 11"	24.67	8,300	3,764	6,100	2,766	3,000	1,360	1,200	544
	120	36.58	26.0	63' 10"	19.47	7,100	3,220	5,100	2,313	2,300	1,043	—	—
	130	39.62	12.7	35' 5"	10.79	6,000	2,721	4,200	1,905	1,700	771	—	—
140' (42.67 m)	30	9.14	79.0	144' 3"	43.97	47,700*	21,636*	47,700*	21,636*	27,300	12,383	19,700	8,935
	35	10.67	76.9	143' 2"	43.65	42,500*	19,277*	38,800	17,599	22,100	10,024	15,700	7,121
	40	12.19	74.7	141' 11"	43.26	37,000*	16,782*	31,600	14,333	18,300	8,300	12,800	5,805
	50	15.24	70.5	138' 10"	42.31	27,700*	12,564*	22,500	10,205	13,300	6,032	8,900	4,036
	60	18.29	66.0	134' 10"	41.09	21,300	9,661	17,000	7,711	10,000	4,535	6,400	2,902
	70	21.34	61.5	129' 11"	39.59	16,900	7,665	13,400	6,078	7,700	3,492	4,700	2,131
	80	24.38	56.7	123' 11"	37.76	13,800	6,259	10,700	4,853	6,000	2,721	3,400	1,542
	90	27.43	51.7	116' 8"	35.56	11,500	5,216	8,800	3,991	4,800	2,177	2,400	1,088
	100	30.48	46.2	108' 0"	32.91	9,600	4,354	7,200	3,265	3,700	1,678	1,600	725
	110	33.53	40.3	97' 4"	29.67	8,100	3,674	6,000	2,721	2,900	1,315	1,000	453
	120	36.58	33.4	84' 0"	25.60	6,900	3,129	5,000	2,267	2,200	997	—	—
	130	39.62	25.0	66' 2"	20.16	5,900	2,676	4,100	1,859	1,600	725	—	—
	140	42.67	12.2	36' 6"	11.12	5,000	2,267	3,400	1,542	1,100	498	—	—
150' (45.72 m)	35	10.67	77.7	153' 5"	46.77	39,100*	17,735*	38,700*	17,554*	21,900	9,933	16,500	7,484
	40	12.19	75.8	152' 3"	46.41	34,900*	15,830*	31,500	14,288	18,200	8,255	12,600	5,715
	50	15.24	71.8	149' 4"	45.53	27,700	12,564	22,400	10,160	13,100	5,942	8,800	3,991
	60	18.29	67.7	145' 8"	44.40	21,200	9,616	16,900	7,665	9,800	4,445	6,300	2,857
	70	21.34	63.5	141' 2"	43.02	16,800	7,620	13,200	5,987	7,600	3,447	4,500	2,041
	80	24.38	59.2	135' 8"	41.36	13,700	6,214	10,600	4,808	5,900	2,676	3,200	1,451
	90	27.43	54.6	129' 2"	39.37	11,300	5,125	8,600	3,900	4,600	2,086	2,200	997
	100	30.48	49.8	121' 5"	37.01	9,500	4,309	7,100	3,220	3,600	1,632	1,500	680
	110	33.53	44.6	112' 2"	34.19	8,000	3,628	5,800	2,630	2,700	1,224	—	—
	120	36.58	38.8	100' 11"	30.77	6,800	3,084	4,800	2,177	2,000	907	—	—
	130	39.62	32.3	86' 11"	26.50	5,800	2,630	4,000	1,814	1,400	635	—	—
	140	42.67	24.2	68' 4"	20.82	4,900	2,222	3,200	1,451	—	—	—	—
	150	45.72	11.8	37' 6"	11.44	4,100	1,859	2,600	1,179	—	—	—	—
160' (48.77 m)	35	10.67	78.5	163' 8"	49.89	36,000*	16,329*	36,000*	16,329*	21,800	9,888	15,400	6,985
	40	12.19	76.7	162' 7"	49.55	31,400*	14,242*	31,300	14,197	18,000	8,164	12,500	5,669
	50	15.24	73.0	159' 10"	48.72	26,500*	12,020*	22,200	10,069	12,900	5,851	8,600	3,900
	60	18.29	69.2	156' 5"	47.68	21,000	9,525	16,700	7,574	9,700	4,399	6,100	2,766
	70	21.34	65.3	152' 3"	46.40	16,600	7,529	13,100	5,942	7,400	3,356	4,300	1,950
	80	24.38	61.3	147' 3"	44.87	13,500	6,123	10,400	4,717	5,700	2,585	3,100	1,406
	90	27.43	57.1	141' 3"	43.05	11,100	5,034	8,500	3,855	4,400	1,995	2,100	952
	100	30.48	52.8	134' 3"	40.91	9,300	4,218	6,900	3,129	3,400	1,542	1,300	589
	110	33.53	48.1	126' 0"	38.40	7,800	3,538	5,700	2,585	2,500	1,133	—	—
	120	36.58	43.1	116' 2"	35.41	6,600	2,993	4,700	2,131	1,800	816	—	—
	130	39.62	37.6	104' 5"	31.82	5,600	2,540	3,800	1,723	1,300	589	—	—
	140	42.67	31.2	89' 9"	27.37	4,700	2,131	3,100	1,406	—	—	—	—
	150	45.72	23.4	70' 5"	21.47	4,000	1,814	2,500	1,133	—	—	—	—
	160	48.77	11.4	38' 6"	11.75	3,300	1,496	1,900	861	—	—	—	—

① Measured vertically from center of boom head sheave to ground.

(Continued)

GENERAL INFORMATION ONLY

HC-138 lifting crane capacities

Refer to **Notes** page 4

Boom						On Outriggers				On Tires (Static)			
	Radius		Angle	Boom Point Height ①		Over Rear		Over Side		Over Rear		Over Side	
Length	Feet	Meters	Degrees	Feet	Meters	Pounds	Kilograms	Pounds	Kilograms	Pounds	Kilograms	Pounds	Kilograms
170′ (51.82 m)	35	10.67	79.2	173′ 10″	52.99	31,300*	14,197*	31,300*	14,197*	21,600	9,797	15,200	6,894
	40	12.19	77.5	172′ 10″	52.68	28,600*	12,972*	28,600*	12,972*	17,800	8,073	12,300	5,579
	50	15.24	74.0	170′ 3″	51.90	24,100*	10,931*	22,100	10,024	12,800	5,805	8,400	3,810
	60	18.29	70.5	167′ 1″	50.93	20,300*	9,207*	16,600	7,529	9,500	4,309	5,900	2,676
	70	21.34	66.9	163′ 2″	49.74	16,200*	7,348*	12,900	5,851	7,200	3,265	4,200	1,905
	80	24.38	63.1	158′ 6″	48.31	13,300	6,032	10,300	4,672	5,500	2,494	2,900	1,315
	90	27.43	59.3	153′ 0″	46.64	11,000	4,989	8,300	3,764	4,200	1,905	1,900	861
	100	30.48	55.3	146′ 7″	44.68	9,100	4,127	6,700	3,039	3,200	1,451	1,100	498
	110	33.53	51.1	139′ 1″	42.40	7,700	3,492	5,500	2,494	2,400	1,088	—	—
	120	36.58	46.6	130′ 4″	39.73	6,500	2,948	4,500	2,041	1,700	771	—	—
	130	39.62	41.7	120′ 1″	36.59	5,400	2,449	3,600	1,632	1,100	498	—	—
	140	42.67	36.4	107′ 9″	32.84	4,600	2,086	2,900	1,315	—	—	—	—
	150	45.72	30.3	92′ 6″	28.21	3,800	1,723	2,300	1,043	—	—	—	—
	160	48.77	22.7	72′ 6″	22.09	3,200	1,451	1,800	816	—	—	—	—
	170	51.82	11.1	39′ 6″	12.05	2,600	1,179	1,300	589	—	—	—	—
180′ (54.86 m)	40	12.19	78.2	183′ 1″	55.80	25,300*	11,475*	25,300*	11,475*	17,700	8,028	12,200	5,533
	50	15.24	74.9	180′ 8″	55.07	21,300*	9,661*	21,300*	9,661*	12,600	5,715	8,300	3,764
	60	18.29	71.6	177′ 8″	54.15	17,800*	8,073*	16,400	7,438	9,300	4,218	5,700	2,585
	70	21.34	68.2	174′ 0″	53.03	14,200*	6,441*	12,700	5,760	7,000	3,175	4,000	1,814
	80	24.38	64.7	169′ 8″	51.71	12,200*	5,533*	10,100	4,581	5,300	2,404	2,700	1,224
	90	27.43	61.2	164′ 6″	50.15	10,500*	4,762*	8,100	3,674	4,000	1,814	1,700	771
	100	30.48	57.5	158′ 7″	48.34	9,000	4,082	6,600	2,993	3,000	1,360	—	—
	110	33.53	53.6	151′ 9″	46.25	7,500	3,401	5,300	2,404	2,200	997	—	—
	120	36.58	49.5	143′ 10″	43.83	6,300	2,857	4,300	1,950	1,500	680	—	—
	130	39.62	45.2	134′ 7″	41.02	5,300	2,404	3,500	1,587	—	—	—	—
	140	42.67	40.5	123′ 10″	37.74	4,400	1,995	2,800	1,270	—	—	—	—
	150	45.72	35.3	111′ 0″	33.83	3,700	1,678	2,100	952	—	—	—	—
	160	48.77	29.4	95′ 2″	29.02	3,000	1,360	1,600	725	—	—	—	—
	170	51.82	22.1	74′ 5″	22.69	2,500	1,133	1,100	498	—	—	—	—
	180	54.86	10.8	40′ 6″	12.34	1,900	861	—	—	—	—	—	—
190′ (57.91 m)	40	12.19	78.8	193′ 3″	58.91	22,700*	10,296*	22,700*	10,296*	17,500	7,937	12,000	5,443
	50	15.24	75.7	191′ 0″	58.22	18,800*	8,527*	18,800*	8,527*	12,400	5,624	8,100	3,674
	60	18.29	72.6	188′ 2″	57.35	14,700*	6,667*	14,700*	6,667*	9,100	4,127	5,600	2,540
	70	21.34	69.4	184′ 9″	56.30	12,600*	5,715*	12,600*	5,715*	6,800	3,084	3,800	1,723
	80	24.38	66.1	180′ 8″	55.06	10,600*	4,808*	9,900	4,490	5,200	2,358	2,500	1,133
	90	27.43	62.8	175′ 10″	53.60	9,100*	4,127*	8,000	3,628	3,900	1,769	1,500	680
	100	30.48	59.4	170′ 4″	51.92	8,000*	3,628*	6,400	2,902	2,800	1,270	—	—
	110	33.53	55.8	164′ 0″	49.98	7,000*	3,175*	5,200	2,358	2,000	907	—	—
	120	36.58	52.1	156′ 8″	47.76	6,100*	2,766*	4,200	1,905	1,300	589	—	—
	130	39.62	48.1	148′ 4″	45.21	5,100	2,313	3,300	1,496	—	—	—	—
	140	42.67	43.9	138′ 8″	42.27	4,200	1,905	2,600	1,179	—	—	—	—
	150	45.72	39.4	127′ 5″	38.85	3,500	1,587	2,000	907	—	—	—	—
	160	48.77	34.4	114′ 1″	34.78	2,900	1,315	1,400	635	—	—	—	—
	170	51.82	28.6	97′ 9″	29.81	2,300	1,043	—	—	—	—	—	—
	180	54.86	21.5	76′ 4″	23.28	1,700	771	—	—	—	—	—	—
	190	57.91	10.5	41′ 5″	12.62	1,200	544	—	—	—	—	—	—

① Measured vertically from center of boom head sheave to ground.

GENERAL INFORMATION ONLY

HC-138 lifting crane

Notes — lifting crane capacities

1. Capacities included in this chart are maximum allowable, and are based on machine standing level on firm supporting surface under ideal job conditions.
2. Capacities are not more than 85% of minimum tipping load.
   a. Asterisk (*) indicates capacities based on factors other than those which would cause a tipping condition.
3. Capacities are based on freely suspended loads and make no allowance for such factors as the effect of wind, sudden stopping of loads, supporting surface conditions, inflation of tires, and operating speeds. Operator must reduce load ratings to take such conditions into account. Deduction from rated capacities must be made for weight of hook block, weighted ball/hook, sling, spreader bar, or other suspended gear.
4. On tires (static) loads are defined as loads handled without machine travel or with machine travel at creep speeds only.
5. Boom point height dimensions based on machine standing on tires.
6. Least stable rated condition is over the side.
7. 54" x 44" (1.37 x 1.12 m) tubular boom with open throat top section — for lifting 130,000# (58,967 kg) with ¾" (19.05 mm) rope, 10-parts of ¾" (19.05 mm) Type "N" wire rope are required.
8. Boom live mast must be fixed in pinned, extended 23'0" (7.01 m) length — and boom stops must be proper working position — for all capacities on this chart.
9. When using boom live mast as a short boom, maximum lifting capacity of mast is 18,000# (8,165 kg), with 3-parts of ¾" (19.05 mm) Type "N" wire rope, from 10' (3.05 m) minimum radius to 23' (7.01 m) maximum radius. Boom live mast must be in pinned, extended 23' (7.01 m) length, mast stops in proper working position, and carrier on outriggers.

   Note: Use of live mast as short boom is intended for machine assembly or disassembly only. It should not be used for general crane service.
10. Use of boom midpoint suspension pendants are required for boom lengths exceeding 140' (42.67 m).
11. When swinging rated load from rear to side of carrier, allowance must be made for any deflections which cause load radius to increase.
12. Main boom length, without jib, must not exceed 190' (57.91 m).
13. Jib cannot be used on main boom longer than 160' (48.77), and maximum jib length permitted on 160' (48.77 m) boom is 50' (15.24 m).
14. These capacities apply only to the machine as originally manufactured and normally equipped by FMC Corporation, Crane and Excavator Division.

Boom — tubular; 54" (1.37 m) wide, 44" (1.12 m) deep with 20' (6.10 m) long open throat top section, 1¼" (31.75 mm) dia. boom pendants, boom live mast, and boom midpoint suspension pendants as required.

Jib — tubular; 30" (.76 m) wide, 24" (.61 m) deep.

Carrier — FMC; 8 x 4 drive, 236" (5.99 m) wheelbase, 11' 0" (3.35 m) wide

Counterweights — Upper ctwt. "A" — 18,000# (8,165 kg). Bumper ctwt. "A" — 4,300# (1,950 kg).

Maximum boom and boom/jib machine can lift off ① ground unassisted — without load.

Standard machine equipped with ctwts. above and boom live mast.	Over Rear				Over Side			
	Boom		Boom + Jib		Boom		Boom + Jib	
	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
On Outriggers —								
With both upper ctwt. and bumper ctwt.	190	57.91	160 + 50	48.77 + 15.24	170	51.82	150 + 50	45.72 + 15.24
With upper ctwt. and without bumper ctwt.	190	57.91	160 + 50	48.77 + 15.24	170	51.82	140 + 50	42.67 + 15.24
On tires ② —								
With both upper ctwt. and bumper ctwt.	140	42.67	120 + 50	36.58 + 15.24	120	36.58	90 + 50	27.43 + 15.24
With upper ctwt. and without bumper ctwt.	130	36.58	110 + 50	33.53 + 15.24	110	33.53	90 + 50	27.43 + 15.24

Maximum boom and boom/jib machine can lift off ground and travel ② with, with boom horizontal — without load.

Standard machine equipped with ctwts. above and boom live mast.	On Tires Over Rear ②			
	Boom		Boom + Jib	
	Feet	Meters	Feet	Meters
With both upper ctwt. and bumper ctwt.	140	42.67	110 + 50	33.53 + 15.24
With upper ctwt. and without bumper ctwt.	130	39.62	100 + 50	30.48 + 15.24

GENERAL INFORMATION ONLY

① Hook block on ground and machine standing level on firm supporting surface.
② Based on firm, level supporting surface, at speeds up to 5 m.p.h. (8.05 km/hr). Air pressure in tires to be 100 p.s.i. (7.03 kg/cm²).

ITEM	DESCRIPTION
19P0351	JIB CAPACITY BOOK

GENERAL INFORMATION ONLY

JIB CAPACITY BOOK TO CONSIST OF THE FOLLOWING:

COVER SHEET NO. 19P0351

NUMBER OF PAGES 2

CAPACITY SET ITEM NO. 19P0350

NUMBER OF PAGES 18

GENERAL INFORMATION:

1. HC138 - LIGHT SQUARE BASE, 235 W.B., 8 X 4 FMC CARRIER
2. OPEN THROAT BOOM - 40' - 160' BOOMS WITH JIB
3. CAPACITIES FOR MACHINE EQUIPPED WITH COUNTERWEIGHTING ACCORDING TO COUNTERWEIGHT INSTRUCTION PLATE 19P0348
4. COMPUTER PROGRAM 101ZA108

FOREIGN				Date	By	E. O. Number	Revision
C		L					
I		F					
M		R					
J							
G							

Drawn

Checked DMcC

JIB CAPACITY BOOK

Effective With RDF-19-03

Scale NO...

Date 3-8-...

Approved L2J

FMC Crane & Excavator Division

19P0351-A

FMC

Serial Number

HC-138 tubular jib capacities
Open throat boom

GENERAL INFORMATION ONLY

1. Capacities are for an HC-138 on FMC 235" w.b., light square base, 8x4 carrier with specified counterweighting per counterweight instruction plate 19P0348.

2. Capacities are for on outrigger working areas over the side and rear described on plate 18P186 and are based on the machine standing level on firm supporting surface and all tires off the supporting surface.

3. Capacities are limited to an FMC 44" x 54" cross-section boom with a 20' open throat top section and an FMC 24" x 30" cross-section jib with 10'-0" high jib strut properly assembled.

4. The pinned telescopic live mast must be used in the extended 23' position for all capacities on the chart.

5. For boom lengths exceeding 140', the midpoint suspension pendants (properly adjusted) are required.

6. Two parts of 3/4" dia. L-BS Type "N" wire rope are required for maximum lifts. For single part operation, 3/4" L-BS Type "K" wire rope is recommended.

7. Capacities are for 20', 30', 40', and 50' jib lengths only.

8. Jibs can only be used on boom lengths from 40' thru 160'.

9. The least stable rated condition is over the side.

10. All capacities are in pounds and are not more than 85% of the tipping loads. Those capacities followed by an asterisk (*) are governed by factors other than those that would cause a tipping condition.

11. A deduction must be made from the jib capacities for weight of hook block, hook, sling, grapple, load weighing devices, etc.

12. When using main hook, while jib is attached, reduce boom capacities by the following values.

    a. 20' jib - 1,600 lbs.
    b. 30' jib - 1,900 lbs.
    c. 40' jib - 2,200 lbs.
    d. 50' jib - 2,500 lbs.

GENERAL INFORMATION ONLY

COPY OF

COUNTERWEIGHT INSTRUCTION PLATE 19P348

FMC

HC-138 counterweighting instructions

Counterweight Combination (1)	(2) ALLOWABLE BOOM LENGTH					
	20' Open Throat		5' Hammerhead		40' Tapered Tip	
	W/O Jib	W/Jib	W/O Jib	W/Jib	W/O Jib	W/Jib
"A" Upper & "A" Bumper	40'–190'	40'–160'	25'–190'	50'–160'	80'–190'	80'–160'
"A" Upper & "AB" Bumper	None	None	None	None	None	170'–190'

(1) Counterweight combination must be used only as shown on this chart, otherwise machine overturn or other damage may occur.

(2) Maximum jib length – 50'.

FMC Corporation Crane and Excavator Division Cedar Rapids Iowa Reorder 19P348

REFER TO ALL NOTES ON COVER PAGE BEFORE OPERATING MACHINE.

BOOM LGTH	JIB LGTH	LOAD RAD	JIB ANGLE TO BOOM 0° BOOM ANGLE	0° JIB POINT HEIGHT	0° CAPACITY	15° BOOM ANGLE	15° JIB POINT HEIGHT	15° CAPACITY	30° BOOM ANGLE	30° JIB POINT HEIGHT	30° CAPACITY
40	20	14	79.9	67.4	19800*						
40	20	15	78.9	67.2	19600*						
40	20	16	78.0	67.0	19300*						
40	20	17	77.0	66.7	19100*						
40	20	18	76.0	66.5	18800*						
40	20	19	75.1	66.2	18600*	79.8	65.9	16100*			
40	20	20	74.1	66.0	18300*	78.9	65.6	15900*			
40	20	25	69.2	64.3	17000*	73.9	64.0	14900*	78.2	62.4	12700*
40	20	30	64.1	62.1	15700*	68.8	61.8	13900*	72.9	60.2	11800*
40	20	35	58.8	59.4	14700*	63.4	59.1	12800*	67.4	57.4	10900*
40	20	40	53.2	56.0	13500*	57.7	55.7	11900*	61.5	53.8	10200*
40	20	50	40.4	46.6	11300*	44.7	46.2	10200*			
40	20	60	22.4	30.2	9600*						
40	30	16	79.7	76.9	15400*						
[illegible]	30	17	78.8	76.7	15200*						
40	30	18	78.0	76.5	15100*						
40	30	19	77.2	76.3	14900*						
40	30	20	76.4	76.0	14800*						
40	30	25	72.2	74.5	13900*	78.3	74.0	12400*			
40	30	30	68.0	72.6	13100*	74.0	72.1	11500*	79.7	69.9	9700
40	30	35	63.6	70.3	12200*	69.6	69.8	10600*	75.1	67.5	9100
40	30	40	59.0	67.5	11300*	65.0	67.0	9800*	70.3	64.6	8400
40	30	50	49.1	60.0	9500*	54.9	59.6	8400*	59.9	56.8	7500
40	30	60	37.3	49.2	7900*	43.0	48.6	7400*			
40	40	18	79.5	86.7	11600*						
40	40	19	78.8	86.5	11500*						
40	40	20	78.1	86.2	11400*						
40	40	25	74.5	84.9	10900*						
40	40	30	70.8	83.3	10400*	78.0	82.7	9500*			
40	40	35	67.0	81.2	9900*	74.2	80.7	9000*			
40	40	40	63.1	78.8	9400*	70.2	78.3	8500*	76.8	75.6	7300
40	40	50	54.9	72.6	8300*	61.9	72.2	7400*	68.2	69.2	6200
40	40	60	45.8	64.1	7100*	52.7	63.7	6200*	58.5	60.3	5400
40	40	70	34.9	52.2	5800*	41.5	51.6	5300*			

FMC Corporation
Crane and Excavator Division
Cedar Rapids Iowa 52406

GENERAL INFORMATION ONLY

REFER TO ALL NOTES ON COVER PAGE BEFORE OPERATING MACHINE.

BOOM LGTH	JIB LGTH	LOAD RAD	JIB ANGLE TO BOOM 0° BOOM ANGLE	0° JIB POINT HEIGHT	0° CAPACITY	15° BOOM ANGLE	15° JIB POINT HEIGHT	15° CAPACITY	30° BOOM ANGLE	30° JIB POINT HEIGHT	30° CAPACITY
40	50	20	79.4	96.6	7700*						
40	50	25	76.2	95.4	7300*						
40	50	30	72.9	94.0	6900*						
40	50	35	69.6	92.3	6400*	77.7	91.8	5800*			
40	50	40	66.3	90.2	6000*	74.2	89.7	5600*			
40	50	50	59.2	84.9	5500*	67.1	84.5	5100*	74.4	81.4	4500*
40	50	60	51.6	77.9	5000*	59.4	77.5	4600*	66.4	74.1	4000*
40	50	70	43.1	68.6	4400*	50.7	68.1	4000*	57.3	64.2	3400*
40	50	80	32.9	55.6	3700*	40.3	55.0	3300*			
50	20	16	79.7	77.2	19800*						
50	20	17	78.8	77.0	19600*						
50	20	18	78.0	76.8	19300*						
50	20	19	77.2	76.5	19100*						
50	20	20	76.4	76.3	18900*						
[illegible]	20	25	72.2	74.9	17800*	76.3	74.5	15400*	80.0	72.9	13000*
[illegible]	20	30	68.0	73.1	16700*	72.0	72.7	14500*	75.6	71.1	12300*
50	20	35	63.6	70.8	15600*	67.5	70.5	13600*	71.0	68.7	11500*
50	20	40	59.0	68.1	14700*	62.9	67.7	12700*	66.3	65.9	10700*
50	20	50	49.1	60.8	12700*	52.9	60.4	11100*	55.9	58.3	9900*
50	20	60	37.3	50.1	10800*	41.0	49.7	9900*			
50	20	70	20.8	32.1	9500*						
50	30	18	79.5	86.7	15400*						
50	30	19	78.8	86.5	15200*						
50	30	20	78.1	86.3	15100*						
50	30	25	74.5	85.0	14400*	79.8	84.4	12700*			
50	30	30	70.8	83.4	13600*	76.1	82.8	11900*			
50	30	35	67.0	81.4	12900*	72.3	80.8	11200*	77.2	78.4	9300*
50	30	40	63.1	79.0	12100*	68.4	78.4	10400*	73.1	75.9	8800*
50	30	50	54.9	72.8	10500*	60.1	72.3	9100*	64.5	69.6	7800*
50	30	60	45.8	64.4	9100*	50.8	63.8	7900*	54.9	60.7	7200*
50	30	70	34.9	52.4	7800*	39.7	51.7	7200*			
50	40	20	79.4	96.5	11600*						
50	40	25	76.2	95.3	11100*						
50	40	30	72.9	93.8	10700*	79.3	93.2	9700*			
[illegible]	40	35	69.6	92.1	10300*	76.0	91.4	9300*			

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GENERAL INFORMATION ONLY

JIB CAPACITIES
MODEL NO. HC138
ITEM NO. 19P350,

REFER TO ALL NOTES ON COVER PAGE BEFORE OPERATING MACHINE.

BOOM LGTH	JIB LGTH	LOAD RAD	JIB ANGLE TO BOOM								
			0°			15°			30°		
			BOOM ANGLE	JIB POINT HEIGHT	CAPACITY	BOOM ANGLE	JIB POINT HEIGHT	CAPACITY	BOOM ANGLE	JIB POINT HEIGHT	CAPACITY
50	40	40	66.3	89.9	9800*	72.6	89.3	8800*	78.5	86.4	7500*
50	40	50	59.2	84.6	8900*	65.5	84.1	7900*	71.1	80.9	6500*
50	40	60	51.6	77.6	7900*	57.8	77.0	6800*	63.1	73.6	5700*
50	40	70	43.1	68.2	6700*	49.1	67.6	5800*	54.0	63.7	5100*
50	40	80	32.9	55.2	5700*	38.7	54.4	5100*			
50	50	25	77.6	105.7	7500*						
50	50	30	74.7	104.4	7100*						
50	50	35	71.7	102.9	6700*	78.9	102.3	5900*			
50	50	40	68.7	101.0	6300*	75.9	100.5	5700*			
50	50	50	62.5	96.4	5700*	69.6	95.9	5300*	76.2	92.6	4700*
50	50	60	55.9	90.4	5300*	63.0	89.9	4800*	69.3	86.3	4200*
50	50	70	48.8	82.5	4800*	55.8	82.0	4300*	61.8	78.1	3700*
50	50	80	40.8	72.4	4300*	47.6	71.8	3800*	53.2	67.2	3100*
50	50	90	31.2	58.5	3600*	37.7	57.6	3100*			
60	20	18	79.5	87.0	19700*						
60	20	19	78.8	86.8	19600*						
60	20	20	78.1	86.6	19400*						
60	20	25	74.5	85.3	18400*	78.0	85.0	15700*			
60	20	30	70.8	83.8	17400*	74.3	83.4	15000*	77.5	81.7	12600*
60	20	35	67.0	81.8	16400*	70.5	81.5	14200*	73.6	79.7	11900*
60	20	40	63.1	79.5	15500*	66.6	79.1	13400*	69.6	77.3	11300*
60	20	50	54.9	73.5	13900*	58.3	73.1	12000*	61.1	71.1	10200*
60	20	60	45.8	65.2	12200*	49.1	64.8	10400*	51.5	62.4	9600*
60	20	70	34.9	53.4	10400*	38.0	52.8	9700*			
60	30	20	79.4	96.5	15400*						
60	30	25	76.2	95.4	14700*						
60	30	30	72.9	93.9	14100*	77.7	93.3	12200*			
60	30	35	69.6	92.2	13400*	74.4	91.6	11600*	78.7	89.0	9500*
60	30	40	66.3	90.1	12700*	71.0	89.5	10900*	75.2	86.9	9100*
60	30	50	59.2	84.8	11300*	63.9	84.2	9600*	67.9	81.5	8100*
60	30	60	51.6	77.8	9800*	56.2	77.2	8600*	59.9	74.2	7500*
60	30	70	43.1	68.4	8700*	47.5	67.8	7700*			
60	30	80	32.9	55.5	7700*	37.1	54.6	7000*			

FMC
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Crane and Excavator Division
Cedar Rapids Iowa 52406

GENERAL INFORMATION ONLY

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BOOM LGTH	JIB LGTH	LOAD RAD	JIB ANGLE TO BOOM								
			0°			15°			30°		
			BOOM ANGLE	JIB POINT HEIGHT	CAPACITY	BOOM ANGLE	JIB POINT HEIGHT	CAPACITY	BOOM ANGLE	JIB POINT HEIGHT	CAPACITY
60	40	25	77.6	105.6	11300*						
60	40	30	74.7	104.3	10900*						
60	40	35	71.7	102.7	10600*	77.5	102.0	9500*			
60	40	40	68.7	100.8	10200*	74.4	100.1	9100*	79.7	97.1	7700*
60	40	50	62.5	96.1	9300*	68.2	95.5	8200*	73.3	92.3	6800*
60	40	60	55.9	90.0	8400*	61.5	89.4	7300*	66.4	86.0	5900*
60	40	70	48.8	82.2	7500*	54.3	81.5	6400*	58.9	77.7	5400*
60	40	80	40.8	72.0	6400*	46.1	71.2	5600*			
60	40	90	31.2	58.0	5500*	36.3	57.0	5000*			
60	50	25	78.7	116.0	7600*						
60	50	30	76.1	114.8	7300*						
60	50	35	73.4	113.4	6900*	80.0	112.7	5900*			
60	50	40	70.7	111.7	6600*	77.3	111.1	5800*			
60	50	50	65.2	107.6	5900*	71.7	107.0	5400*	77.6	103.5	4700*
[illegible]0	50	60	59.3	102.2	5500*	65.8	101.6	5000*	71.6	97.9	4300*
[illegible]0	50	70	53.2	95.5	5100*	59.5	94.9	4600*	65.1	90.9	3900*
60	50	80	46.4	86.9	4600*	52.7	86.3	4100*	57.9	81.9	3400*
60	50	90	38.8	76.0	4100*	45.0	75.2	3600*			
60	50	100	29.7	61.2	3500*	35.6	60.1	3000*			
70	20	20	79.4	96.8	19700*						
70	20	25	76.2	95.7	18900*	79.4	95.3	16000*			
70	20	30	72.9	94.3	18000*	76.1	93.9	15300*	79.0	92.2	12800
70	20	35	69.6	92.6	17100*	72.8	92.2	14700*	75.6	90.4	12300
70	20	40	66.3	90.6	16200*	69.4	90.2	14000*	72.1	88.3	11700
70	20	50	59.2	85.4	14700*	62.3	85.0	12600*	64.8	83.0	10500
70	20	60	51.6	78.5	13200*	54.6	78.1	11400*	56.9	75.9	9900
70	20	70	43.1	69.3	11700*	46.0	68.8	10200*			
70	20	80	32.9	56.4	10300*	35.6	55.8	9500*			
70	30	25	77.6	105.7	15000*						
70	30	30	74.7	104.4	14400*	79.0	103.7	12500*			
70	30	35	71.7	102.8	13800*	76.0	102.1	11900*	79.9	99.6	9700
70	30	40	68.7	100.9	13200*	73.0	100.3	11300*	76.8	97.7	9300
70	30	50	62.5	96.3	12000*	66.7	95.7	10000*	70.4	92.9	8400
[illegible]0	30	60	55.9	90.2	10700*	60.1	89.6	9100*	63.6	86.6	7700
[illegible]	30	70	48.8	82.4	9500*	52.9	81.7	8200*	56.1	78.5	7200

FMC Corporation
Crane and Excavator Division
Cedar Rapids Iowa 52406

GENERAL INFORMATION ONLY

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BOOM LGTH	JIB LGTH	LOAD RAD	JIB ANGLE TO BOOM 0° BOOM ANGLE	0° JIB POINT HEIGHT	0° CAPACITY	15° BOOM ANGLE	15° JIB POINT HEIGHT	15° CAPACITY	30° BOOM ANGLE	30° JIB POINT HEIGHT	30° CAPACITY
70	30	80	40.8	72.2	8400*	44.7	71.5	7500*			
70	30	90	31.2	58.3	7500*						
70	40	25	78.7	115.9	11500*						
70	40	30	76.1	114.7	11100*						
70	40	35	73.4	113.2	10800*	78.6	112.4	9600*			
70	40	40	70.7	111.5	10400*	75.9	110.8	9300*			
70	40	50	65.2	107.4	9700*	70.3	106.6	8500*	75.0	103.3	7100*
70	40	60	59.3	102.0	8900*	64.4	101.2	7700*	68.9	97.8	6200*
70	40	70	53.2	95.1	8100*	58.2	94.4	6900*	62.4	90.7	5700*
70	40	80	46.4	86.5	7200*	51.4	85.8	6000*	55.3	81.7	5200*
70	40	90	38.8	75.6	6200*	43.6	74.7	5500*			
70	40	100	29.7	60.7	5400*						
70	50	25	79.6	126.2	7700*						
70	50	30	77.2	125.1	7400*						
70	50	35	74.8	123.8	7100*						
70	50	40	72.3	122.3	6800*	78.4	121.5	5800*			
70	50	50	67.3	118.5	6100*	73.3	117.8	5500*	78.8	114.2	4800*
70	50	60	62.1	113.7	5700*	68.0	113.1	5100*	73.4	109.3	4500*
70	50	70	56.6	107.7	5300*	62.5	107.1	4800*	67.6	103.0	4100*
70	50	80	50.8	100.3	4900*	56.5	99.6	4400*	61.4	95.2	3700*
70	50	90	44.4	91.1	4500*	50.0	90.3	3900*	54.6	85.5	3200*
70	50	100	37.1	79.4	4000*	42.7	78.5	3500*			
70	50	110	28.4	63.8	3400*						
80	20	25	77.6	105.9	19200*						
80	20	30	74.7	104.7	18500*	77.5	104.3	15600*			
80	20	35	71.7	103.2	17700*	74.6	102.8	15000*	77.1	101.0	12500*
80	20	40	68.7	101.4	16900*	71.5	101.0	14400*	74.0	99.1	12000*
80	20	50	62.5	96.8	15400*	65.3	96.5	13200*	67.6	94.5	10900*
80	20	60	55.9	90.9	14100*	58.7	90.5	12000*	60.9	88.4	10200*
80	20	70	48.8	83.2	12700*	51.5	82.7	10800*	53.5	80.4	9700*
80	20	80	40.8	73.1	10800	43.4	72.6	10100*			
80	20	90	31.2	59.3	8900						

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GENERAL INFORMATION ONLY

REFER TO ALL NOTES ON COVER PAGE BEFORE OPERATING MACHINE.

BOOM LGTH	JIB LGTH	LOAD RAD	JIB ANGLE TO BOOM								
			0°			15°			30°		
			BOOM ANGLE	JIB POINT HEIGHT	CAPACITY	BOOM ANGLE	JIB POINT HEIGHT	CAPACITY	BOOM ANGLE	JIB POINT HEIGHT	CAPACITY
80	30	25	78.7	115.9	15200*						
80	30	30	76.1	114.7	14700*	80.0	114.0	12700*			
80	30	35	73.4	113.3	14200*	77.3	112.6	12200*			
80	30	40	70.7	111.6	13600*	74.6	111.0	11600*	78.1	108.3	9500*
80	30	50	65.2	107.5	12500*	69.0	106.8	10500*	72.4	104.0	8700*
80	30	60	59.3	102.1	11300*	63.1	101.5	9500*	66.4	98.5	7900*
80	30	70	53.2	95.3	10100*	56.9	94.7	8700*	59.9	91.5	7500*
80	30	80	46.4	86.8	9200*	50.1	86.1	7900*	52.9	82.6	7000*
80	30	90	38.8	75.8	8100*	42.4	75.0	7400*			
80	30	100	29.7	61.0	7400*						
80	40	25	79.6	126.1	11600*						
80	40	30	77.2	125.0	11300*						
80	40	35	74.8	123.7	11000*	79.6	122.8	9800*			
80	40	40	72.3	122.1	10600*	77.1	121.3	9400*			
80	40	50	67.3	118.3	10000*	72.1	117.5	8700*	76.4	114.2	7200*
80	40	60	62.1	113.5	9300*	66.8	112.7	8000*	70.9	109.2	6500*
80	40	70	56.6	107.4	8500*	61.3	106.7	7300*	65.2	102.9	5900*
80	40	80	50.8	100.0	7800*	55.3	99.2	6500*	59.1	95.2	5400*
80	40	90	44.4	90.7	6900*	48.9	89.9	5800*	52.3	85.4	5000*
80	40	100	37.1	79.0	5900*	41.5	78.0	5300*			
80	40	110	28.4	63.3	5400*						
80	50	30	78.2	135.4	7600*						
80	50	35	76.0	134.2	7300*						
80	50	40	73.7	132.8	7000*	79.3	132.0	5900*			
80	50	50	69.1	129.3	6300*	74.6	128.6	5600*	79.7	124.8	4900*
80	50	60	64.4	125.0	5800*	69.9	124.2	5300*	74.8	120.3	4600*
80	50	70	59.4	119.6	5500*	64.9	118.8	4900*	69.6	114.7	4200*
80	50	80	54.2	112.9	5200*	59.6	112.2	4600*	64.2	107.8	3900*
80	50	90	48.7	104.9	4800*	54.0	104.1	4200*	58.3	99.4	3500*
80	50	100	42.6	95.0	4400*	47.8	94.2	3800*	51.8	88.9	3000*
80	50	110	35.7	82.7	3900*	40.7	81.6	3300*			
80	50	120	27.3	66.3	3400*						
[illegible]	20	25	78.7	116.2	19500*						
[illegible]	20	30	76.1	115.0	18800*	78.7	114.6	15900*			

GENERAL INFORMATION ONLY

REFER TO ALL NOTES ON COVER PAGE BEFORE OPERATING MACHINE.

BOOM LGTH	JIB LGTH	LOAD RAD	JIB ANGLE TO BOOM 0° BOOM ANGLE	0° JIB POINT HEIGHT	0° CAPACITY	15° BOOM ANGLE	15° JIB POINT HEIGHT	15° CAPACITY	30° BOOM ANGLE	30° JIB POINT HEIGHT	30° CAPACITY
90	20	35	73.4	113.7	18100*	76.0	113.3	15300*	78.3	111.4	12700*
90	20	40	70.7	112.1	17400*	73.3	111.6	14800*	75.5	109.8	12200*
90	20	50	65.2	108.0	15900*	67.7	107.6	13700*	69.9	105.6	11300*
90	20	60	59.3	102.7	14800*	61.9	102.3	12600*	63.9	100.2	10400*
90	20	70	53.2	96.0	13100	55.6	95.6	11500*	57.5	93.4	10000*
90	20	80	46.4	87.6	10600	48.8	87.1	10400*	50.6	84.6	9500*
90	20	90	38.8	76.7	8800	41.2	76.1	8800			
90	20	100	29.7	62.0	7300						
90	30	25	79.6	126.1	15400*						
90	30	30	77.2	125.0	14900*						
90	30	35	74.8	123.7	14400*	78.4	123.0	12400*			
90	30	40	72.3	122.2	13900*	75.9	121.5	11900*	79.2	118.8	9600*
90	30	50	67.3	118.5	12900*	70.9	117.7	10900*	74.0	114.9	8900*
90	30	60	62.1	113.6	11900*	65.6	112.9	9900*	68.6	110.0	8200*
[illegible]	30	70	56.6	107.6	10800*	60.1	106.9	9100*	62.9	103.8	7700*
[illegible]	30	80	50.8	100.2	9700*	54.2	99.5	8300*	56.8	96.1	7300*
90	30	90	44.4	90.9	8900*	47.7	90.2	7700*			
90	30	100	37.1	79.2	7400	40.3	78.3	7200*			
90	30	110	28.4	63.6	6300						
90	40	30	78.2	135.2	11400*						
90	40	35	76.0	134.0	11100*						
90	40	40	73.7	132.6	10800*	78.2	131.7	9600*			
90	40	50	69.1	129.1	10200*	73.5	128.3	8900*	77.5	124.8	7400*
90	40	60	64.4	124.7	9600*	68.7	123.9	8300*	72.6	120.3	6700*
90	40	70	59.4	119.3	8900*	63.8	118.5	7600*	67.5	114.7	6100*
90	40	80	54.2	112.6	8200*	58.5	111.8	6900*	62.0	107.8	5600*
90	40	90	48.7	104.5	7500*	52.8	103.7	6200*	56.2	99.4	5200*
90	40	100	42.6	94.6	6700*	46.7	93.7	5700*			
90	40	110	35.7	82.2	5800*	39.6	81.2	5200*			
90	40	120	27.3	65.8	5300*						
90	50	30	79.1	145.6	7700*						
90	50	35	77.0	144.5	7400*						
90	50	40	74.9	143.2	7100*						
[illegible]	50	50	70.7	140.0	6500*	75.8	139.2	5700*			

FMC Corporation
Crane and Excavator Division
Cedar Rapids Iowa 52406

GENERAL INFORMATION ONLY

REFER TO ALL NOTES ON COVER PAGE BEFORE OPERATING MACHINE.

			JIB ANGLE TO BOOM								
			0°			15°			30°		
BOOM LGTH	JIB LGTH	LOAD RAD	BOOM ANGLE	JIB POINT HEIGHT	CAPACITY	BOOM ANGLE	JIB POINT HEIGHT	CAPACITY	BOOM ANGLE	JIB POINT HEIGHT	CAPACITY
90	50	60	66.3	136.0	6000*	71.4	135.2	5400*	76.0	131.2	4600*
90	50	70	61.8	131.1	5700*	66.9	130.3	5100*	71.3	126.1	4300*
90	50	80	57.1	125.1	5300*	62.1	124.3	4800*	66.4	119.9	4000*
90	50	90	52.1	117.9	5000*	57.1	117.1	4400*	61.2	112.4	3700*
90	50	100	46.8	109.3	4700*	51.7	108.5	4100*	55.6	103.4	3300*
90	50	110	41.0	98.8	4300*	45.7	97.9	3700*			
90	50	120	34.3	85.8	3800*	39.0	84.6	3200*			
90	50	130	26.3	68.6	3300*						
100	20	25	79.6	126.3	19800*						
100	20	30	77.2	125.3	19100*	79.6	124.9	16100*			
100	20	35	74.8	124.1	18500*	77.2	123.6	15600*	79.3	121.8	12900*
100	20	40	72.3	122.6	17800*	74.7	122.2	15100*	76.8	120.3	12500*
100	20	50	67.3	118.9	16500*	69.7	118.5	14100*	71.7	116.6	11600*
100	20	60	62.1	114.2	15300*	64.4	113.8	13000*	66.3	111.7	10700*
[illegible]	20	70	56.6	108.3	12900	58.9	107.8	12100*	60.7	105.7	10200*
[illegible]	20	80	50.8	100.9	10400	53.0	100.5	10600	54.7	98.1	9800*
100	20	90	44.4	91.7	8600	46.5	91.3	8700			
100	20	100	37.1	80.1	7100	39.2	79.5	7200			
100	20	110	28.4	64.6	5900						
100	30	30	78.2	135.3	15100*						
100	30	35	76.0	134.1	14700*	79.3	133.3	12600*			
100	30	40	73.7	132.7	14200*	77.0	131.9	12100*			
100	30	50	69.1	129.3	13300*	72.4	128.5	11200*	75.3	125.7	9100*
100	30	60	64.4	124.9	12400*	67.6	124.1	10200*	70.4	121.2	8400*
100	30	70	59.4	119.4	11400*	62.6	118.7	9500*	65.3	115.6	7800*
100	30	80	54.2	112.8	10300*	57.4	112.1	8800*	59.9	108.8	7500*
100	30	90	48.7	104.8	8700	51.8	104.0	8000*	54.1	100.5	7100*
100	30	100	42.6	94.9	7200	45.6	94.1	7400			
100	30	110	35.7	82.5	6100	38.6	81.5	6200			
100	30	120	27.3	66.1	5100						
100	40	30	79.1	145.5	11500*						
100	40	35	77.0	144.3	11300*						
[illegible]	40	40	74.9	143.0	11000*	79.0	142.1	9700*			
[illegible]	40	50	70.7	139.8	10400*	74.8	138.9	9100*	78.5	135.4	7500

FMC
FMC Corporation
Crane and Excavator Division
Cedar Rapids Iowa 52406

GENERAL INFORMATION ONLY

REFER TO ALL NOTES ON COVER PAGE BEFORE OPERATING MACHINE.

BOOM LGTH	JIB LGTH	LOAD RAD	0° BOOM ANGLE	0° JIB POINT HEIGHT	0° CAPACITY	15° BOOM ANGLE	15° JIB POINT HEIGHT	15° CAPACITY	30° BOOM ANGLE	30° JIB POINT HEIGHT	30° CAPACITY
100	40	60	66.3	135.8	9800*	70.4	134.9	8500*	74.0	131.3	6900*
100	40	70	61.8	130.8	9200*	65.8	130.0	7900*	69.3	126.2	6300*
100	40	80	57.1	124.8	8600*	61.1	124.0	7300*	64.4	120.0	5800*
100	40	90	52.1	117.6	7900*	56.1	116.7	6600*	59.2	112.5	5500*
100	40	100	46.8	108.9	7200*	50.7	108.0	5900*	53.6	103.5	5100*
100	40	110	41.0	98.4	6200	44.7	97.4	5500*			
100	40	120	34.3	85.4	5200	38.0	84.2	5100*			
100	40	130	26.3	68.2	4400						
100	50	30	79.8	155.8	7800*						
100	50	35	77.9	154.7	7500*						
100	50	40	75.9	153.5	7200*						
100	50	50	72.0	150.6	6700*	76.8	149.7	5700*			
100	50	60	68.0	146.9	6200*	72.7	146.0	5500*	77.0	142.0	4700*
100	50	70	63.8	142.3	5800*	68.5	141.5	5200*	72.7	137.3	4400*
100	50	80	59.5	136.9	5500*	64.2	136.0	4900*	68.3	131.6	4100*
100	50	90	55.0	130.4	5200*	59.7	129.5	4600*	63.6	124.9	3800*
100	50	100	50.3	122.7	4900*	54.8	121.8	4300*	58.6	116.9	3500*
100	50	110	45.1	113.5	4500*	49.7	112.6	3900*	53.2	107.2	3100*
100	50	120	39.5	102.5	4200*	43.9	101.4	3500*			
100	50	130	33.1	88.8	3700*	37.4	87.5	3100*			
100	50	140	25.4	70.9	3200*						
110	20	30	78.2	135.6	19400*						
110	20	35	76.0	134.4	18800*	78.2	134.0	15800*			
110	20	40	73.7	133.1	18200*	75.9	132.6	15300*	77.9	130.7	12600*
110	20	50	69.1	129.7	17000*	71.3	129.3	14400*	73.2	127.3	11900*
110	20	60	64.4	125.4	15800*	66.5	125.0	13400*	68.3	122.9	11000*
110	20	70	59.4	120.0	12700	61.6	119.6	12500*	63.3	117.5	10400
110	20	80	54.2	113.5	10200	56.3	113.1	10400	57.9	110.8	10000
110	20	90	48.7	105.5	8400	50.7	105.1	8500	52.2	102.6	8700
110	20	100	42.6	95.7	6900	44.6	95.2	7000			
110	20	110	35.7	83.4	5800	37.6	82.8	5800			
110	20	120	27.3	67.1	4800						
[illegible]	30	30	79.1	145.5	15300*						
[illegible]	30	35	77.0	144.4	14900*						

FORM 138

FMC
FMC Corporation
Crane and Excavator Division
Cedar Rapids Iowa 52406

GENERAL INFORMATION ONL

REFER TO ALL NOTES ON COVER PAGE BEFORE OPERATING MACHINE.

BOOM LGTH	JIB LGTH	LOAD RAD	JIB ANGLE TO BOOM 0° BOOM ANGLE	0° JIB POINT HEIGHT	0° CAPACITY	15° BOOM ANGLE	15° JIB POINT HEIGHT	15° CAPACITY	30° BOOM ANGLE	30° JIB POINT HEIGHT	30° CAPACITY
110	30	40	74.9	143.1	14500*	78.0	142.3	12300*			
110	30	50	70.7	139.9	13600*	73.7	139.2	11400*	76.4	136.3	9200*
110	30	60	66.3	135.9	12700*	69.3	135.2	10600*	72.0	132.2	8600*
110	30	70	61.8	131.0	11800*	64.8	130.2	9800*	67.3	127.1	8000*
110	30	80	57.1	125.0	10400	60.1	124.2	9100*	62.5	121.0	7700*
110	30	90	52.1	117.8	8500	55.0	117.0	8500*	57.3	113.6	7300*
110	30	100	46.8	109.1	7000	49.7	108.4	7200			
110	30	110	41.0	98.7	5900	43.7	97.8	6000			
110	30	120	34.3	85.6	4900	37.0	84.6	5000			
110	30	130	26.3	68.4	4100						
110	40	30	79.8	155.6	11600*						
110	40	35	77.9	154.6	11400*						
110	40	40	75.9	153.4	11100*	79.8	152.4	9800*			
110	40	50	72.0	150.4	10600*	75.8	149.5	9200*	79.3	145.9	7600*
110	40	60	68.0	146.7	10000*	71.8	145.8	8700*	75.1	142.1	7100*
110	40	70	63.8	142.1	9500*	67.6	141.2	8100*	70.8	137.4	6500*
110	40	80	59.5	136.6	8900*	63.2	135.7	7600*	66.4	131.8	5900*
110	40	90	55.0	130.1	8300*	58.7	129.2	7000*	61.7	125.1	5600*
110	40	100	50.3	122.3	7100	53.9	121.4	6300*	56.8	117.0	5300*
110	40	110	45.1	113.1	5900	48.7	112.2	5800*			
110	40	120	39.5	102.1	5000	43.0	101.0	5200			
110	40	130	33.1	88.4	4200	36.5	87.1	4300			
110	40	140	25.4	70.4	3500						
110	50	35	78.6	165.0	7600*						
110	50	40	76.8	163.8	7400*						
110	50	50	73.1	161.1	6900*	77.6	160.1	5800*			
110	50	60	69.4	157.6	6400*	73.9	156.7	5500*	77.9	152.6	4800*
110	50	70	65.6	153.4	5900*	70.0	152.5	5300*	73.9	148.3	4500*
110	50	80	61.6	148.4	5600*	66.0	147.5	5000*	69.8	143.1	4200*
110	50	90	57.5	142.4	5400*	61.8	141.6	4700*	65.5	136.9	3900*
110	50	100	53.2	135.5	5100*	57.5	134.6	4400*	61.0	129.7	3600*
110	50	110	48.6	127.3	4800*	52.8	126.3	4100*	56.2	121.1	3300*
110	50	120	43.7	117.6	4400*	47.8	116.6	3800*	51.0	110.9	3000*
110	50	130	38.2	106.0	4100*	42.3	104.8	3400*			
110	50	140	32.1	91.7	3600	36.0	90.3	3000*			
110	50	150	24.6	73.1	3000						

FMC
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Crane and Excavator Division
Cedar Rapids Iowa 52406

GENERAL INFORMATION ONL

REFER TO ALL NOTES ON COVER PAGE BEFORE OPERATING MACHINE.

BOOM LGTH	JIB LGTH	LOAD RAD	JIB ANGLE TO BOOM 0°			15°			30°		
			BOOM ANGLE	JIB POINT HEIGHT	CAPACITY	BOOM ANGLE	JIB POINT HEIGHT	CAPACITY	BOOM ANGLE	JIB POINT HEIGHT	CAPACITY
120	20	30	79.1	145.8	19600*						
120	20	35	77.0	144.7	19100*	79.0	144.2	15900*			
120	20	40	74.9	143.4	18500*	77.0	143.0	15500*	78.8	141.1	12800
120	20	50	70.7	140.3	17400*	72.7	139.9	14700*	74.5	138.0	12100
120	20	60	66.3	136.4	16000	68.3	136.0	13800*	70.0	134.0	11300
120	20	70	61.8	131.5	12500	63.8	131.1	12800	65.4	129.0	10600
120	20	80	57.1	125.6	10100	59.1	125.2	10300	60.6	123.0	10200
120	20	90	52.1	118.5	8200	54.1	118.0	8400	55.5	115.7	8500
120	20	100	46.8	109.9	6700	48.7	109.5	6900	50.0	106.9	7000
120	20	110	41.0	99.5	5600	42.8	99.0	5700			
120	20	120	34.3	86.6	4600	36.1	85.9	4700			
120	20	130	26.3	69.5	3800						
120	30	30	79.8	155.7	15400*						
120	30	35	77.9	154.7	15100*						
120	30	40	75.9	153.5	14700*	78.8	152.7	12500*			
120	30	50	72.0	150.5	13900*	74.8	149.7	11700*	77.4	146.8	9400
120	30	60	68.0	146.8	13100*	70.8	146.0	10900*	73.3	143.0	8800
120	30	70	63.8	142.2	12200*	66.6	141.5	10000*	69.0	138.4	8200
120	30	80	59.5	136.8	10200	62.3	136.0	9400*	64.6	132.8	7800
120	30	90	55.0	130.3	8300	57.8	129.5	8600	59.9	126.1	7500
120	30	100	50.3	122.5	6800	53.0	121.8	7100	55.0	118.2	7200
120	30	110	45.1	113.4	5700	47.8	112.5	5800			
120	30	120	39.5	102.3	4700	42.1	101.4	4800			
120	30	130	33.1	88.6	3900						
120	30	140	25.4	70.7	3200						
120	40	35	78.6	164.8	11500*						
120	40	40	76.8	163.7	11200*						
120	40	50	73.1	160.9	10700*	76.7	160.0	9400*	80.0	156.4	7700
120	40	60	69.4	157.4	10200*	73.0	156.5	8900*	76.1	152.8	7200
120	40	70	65.6	153.2	9700*	69.1	152.3	8300*	72.2	148.5	6700
120	40	80	61.6	148.1	9200*	65.1	147.2	7800*	68.1	143.3	6100
120	40	90	57.5	142.2	8400	60.9	141.3	7300*	63.8	137.1	5800
120	40	100	53.2	135.1	6900	56.6	134.2	6700*	59.3	129.9	5500
120	40	110	48.6	126.9	5700	52.0	126.0	6000	54.6	121.4	5100
120	40	120	43.7	117.2	4800	47.0	116.2	5000			
120	40	130	38.2	105.6	4000	41.5	104.5	4100			

REFER TO ALL NOTES ON COVER PAGE BEFORE OPERATING MACHINE.

BOOM LGTH	JIB LGTH	LOAD RAD	JIB ANGLE TO BOOM 0° BOOM ANGLE	0° JIB POINT HEIGHT	0° CAPACITY	15° BOOM ANGLE	15° JIB POINT HEIGHT	15° CAPACITY	30° BOOM ANGLE	30° JIB POINT HEIGHT	30° CAPACITY
120	40	140	32.1	91.3	3300						
120	40	150	24.6	72.6	2700						
120	50	35	79.3	175.2	7700*						
120	50	40	77.6	174.1	7500*						
120	50	50	74.2	171.5	7000*	78.4	170.5	5800*			
120	50	60	70.6	168.3	6500*	74.9	167.3	5600*	78.7	163.2	4800*
120	50	70	67.1	164.4	6100*	71.2	163.4	5400*	75.0	159.1	4600*
120	50	80	63.4	159.7	5800*	67.5	158.8	5100*	71.2	154.3	4300*
120	50	90	59.6	154.2	5500*	63.7	153.3	4900*	67.2	148.7	4100*
120	50	100	55.6	147.8	5200*	59.7	146.9	4600*	63.1	142.0	3800*
120	50	110	51.5	140.3	5000*	55.5	139.4	4300*	58.8	134.3	3500*
120	50	120	47.1	131.7	4700*	51.0	130.7	4000*	54.1	125.2	3200*
120	50	130	42.3	121.5	4000	46.2	120.4	3700*			
120	50	140	37.1	109.4	3300	40.9	108.2	3300*			
120	50	150	31.1	94.6	2800						
120	50	160	23.9	75.3	2300						
130	20	30	79.8	155.9	19800*						
130	20	35	77.9	154.9	19300*	79.8	154.5	16100*			
130	20	40	75.9	153.8	18800*	77.8	153.3	15700*	79.5	151.4	12900*
130	20	50	72.0	150.9	17700*	73.9	150.4	14900*	75.5	148.5	12200*
130	20	60	68.0	147.2	15800	69.8	146.8	14100*	71.4	144.8	11600*
130	20	70	63.8	142.8	12300	65.7	142.3	12700	67.2	140.3	10900*
130	20	80	59.5	137.4	9900	61.4	136.9	10100	62.8	134.8	10300*
130	20	90	55.0	130.9	8000	56.8	130.5	8200	58.2	128.2	8400
130	20	100	50.3	123.3	6500	52.0	122.8	6700	53.4	120.4	6800
130	20	110	45.1	114.2	5400	46.9	113.7	5500			
130	20	120	39.5	103.2	4400	41.2	102.6	4500			
130	20	130	33.1	89.6	3600	34.8	88.9	3600			
130	20	140	25.4	71.8	2900						
130	30	35	78.6	164.9	15200*						
130	30	40	76.8	163.8	14800*	79.5	162.9	12600*			
130	30	50	73.1	161.0	14100*	75.8	160.2	11900*	78.2	157.3	9500*
130	30	60	69.4	157.6	13400*	72.1	156.8	11100*	74.4	153.8	9000*
130	30	70	65.6	153.3	12400	68.2	152.6	10300*	70.4	149.5	8400*

REFER TO ALL NOTES ON COVER PAGE BEFORE OPERATING MACHINE.

BOOM LGTH	JIB LGTH	LOAD RAD	JIB ANGLE TO BOOM 0° BOOM ANGLE	0° JIB POINT HEIGHT	0° CAPACITY	15° BOOM ANGLE	15° JIB POINT HEIGHT	15° CAPACITY	30° BOOM ANGLE	30° JIB POINT HEIGHT	30° CAPACITY
130	30	80	61.6	148.3	10000	64.2	147.5	9700*	66.4	144.3	7900*
130	30	90	57.5	142.3	8100	60.1	141.6	8400	62.1	138.2	7600*
130	30	100	53.2	135.3	6600	55.7	134.5	6900	57.7	131.1	7100
130	30	110	48.6	127.1	5400	51.1	126.3	5700	53.0	122.6	5800
130	30	120	43.7	117.4	4500	46.1	116.6	4700			
130	30	130	38.2	105.8	3700	40.6	104.9	3800			
130	30	140	32.1	91.5	3000						
130	30	150	24.6	72.9	2400						
130	40	35	79.3	175.0	11600*						
130	40	40	77.6	174.0	11300*						
130	40	50	74.2	171.4	10900*	77.5	170.4	9500*			
130	40	60	70.6	168.1	10400*	74.0	167.1	9000*	77.0	163.4	7300*
130	40	70	67.1	164.2	9900*	70.4	163.2	8500*	73.3	159.4	6800*
130	40	80	63.4	159.4	9400*	66.7	158.5	8000*	69.5	154.6	6300*
130	40	90	59.6	153.9	8100	62.9	153.0	7500*	65.6	148.9	5900*
130	40	100	55.6	147.5	6700	58.9	146.6	7000*	61.5	142.3	5600*
130	40	110	51.5	140.0	5500	54.7	139.1	5800	57.2	134.6	5300*
130	40	120	47.1	131.3	4600	50.2	130.3	4800	52.6	125.5	4900*
130	40	130	42.3	121.1	3800	45.4	120.0	4000			
130	40	140	37.1	109.0	3100	40.1	107.8	3200			
130	40	150	31.1	94.1	2500						
130	40	160	23.9	74.8	2000						
130	50	35	79.9	185.3	7800*						
130	50	40	78.3	184.3	7600*						
130	50	50	75.0	181.9	7100*	79.1	180.9	5900*			
130	50	60	71.7	178.9	6700*	75.7	177.9	5700*	79.4	173.6	4900*
130	50	70	68.4	175.2	6200*	72.4	174.2	5400*	75.9	169.9	4600*
130	50	80	65.0	170.8	5900*	68.9	169.9	5200*	72.3	165.4	4400*
130	50	90	61.4	165.7	5600*	65.3	164.8	5000*	68.7	160.1	4200*
130	50	100	57.8	159.8	5400*	61.6	158.9	4700*	64.9	154.0	3900*
130	50	110	53.9	153.0	5100*	57.8	152.0	4500*	60.9	146.9	3600*
130	50	120	49.9	145.1	4600	53.7	144.1	4200*	56.7	138.7	3400*
130	50	130	45.7	135.9	3800	49.4	134.9	3900*	52.2	129.2	3000
130	50	140	41.1	125.3	3100	44.7	124.1	3300			
130	50	150	36.0	112.7	2500	39.6	111.4	2700			
130	50	160	30.2	97.3	2000						
130	50	170	23.2	77.3	1600						

FMC Corporation
Crane and Excavator Division
Cedar Rapids Iowa 52406

GENERAL INFORMATION ONL

REFER TO ALL NOTES ON COVER PAGE BEFORE OPERATING MACHINE.

BOOM LGTH	JIB LGTH	LOAD RAD	JIB ANGLE TO BOOM 0° BOOM ANGLE	0° JIB POINT HEIGHT	0° CAPACITY	15° BOOM ANGLE	15° JIB POINT HEIGHT	15° CAPACITY	30° BOOM ANGLE	30° JIB POINT HEIGHT	30° CAPACITY
140	20	35	78.6	165.2	19500*						
140	20	40	76.8	164.1	19000*	78.6	163.6	15800*			
140	20	50	73.1	161.4	18000*	74.9	160.9	15100*	76.5	159.0	12400*
140	20	60	69.4	158.0	15600	71.2	157.5	14400*	72.7	155.5	11800*
140	20	70	65.6	153.8	12100	67.3	153.4	12500	68.8	151.3	11100*
140	20	80	61.6	148.8	9700	63.3	148.4	9900	64.7	146.3	10200
140	20	90	57.5	143.0	7800	59.2	142.5	8000	60.5	140.3	8200
140	20	100	53.2	136.0	6300	54.8	135.6	6500	56.1	133.2	6600
140	20	110	48.6	127.9	5100	50.2	127.4	5300	51.4	124.9	5400
140	20	120	43.7	118.3	4200	45.3	117.7	4300			
140	20	130	38.2	106.7	3400	39.8	106.1	3500			
140	20	140	32.1	92.5	2700						
140	20	150	24.6	74.0	2100						
[illegible]	30	35	79.3	175.1	15300*						
140	30	40	77.6	174.0	15000*						
140	30	50	74.2	171.5	14300*	76.7	170.6	12000*	78.9	167.7	9600*
140	30	60	70.6	168.2	13600*	73.2	167.4	11300*	75.4	164.4	9100*
140	30	70	67.1	164.3	12200	69.5	163.5	10600*	71.7	160.4	8600*
140	30	80	63.4	159.6	9700	65.8	158.8	9900*	67.9	155.6	8100*
140	30	90	59.6	154.1	7900	62.0	153.3	8200	64.0	150.0	7800*
140	30	100	55.6	147.7	6400	58.0	146.9	6700	60.0	143.5	6900
140	30	110	51.5	140.2	5200	53.8	139.4	5500	55.7	135.8	5700
140	30	120	47.1	131.5	4300	49.4	130.7	4500			
140	30	130	42.3	121.3	3500	44.6	120.4	3600			
140	30	140	37.1	109.2	2800	39.3	108.2	2900			
140	30	150	31.1	94.4	2200						
140	30	160	23.9	75.1	1700						
140	40	35	79.9	185.2	11600*						
140	40	40	78.3	184.2	11400*						
140	40	50	75.0	181.8	11000*	78.2	180.7	9600*			
140	40	60	71.7	178.7	10600*	74.9	177.7	9100*	77.8	173.9	7400
140	40	70	68.4	175.0	10100*	71.5	174.0	8700*	74.3	170.2	7000
[illegible]	40	80	65.0	170.6	9600*	68.1	169.6	8200*	70.8	165.7	6500
[illegible]	40	90	61.4	165.5	7900	64.5	164.5	7700*	67.1	160.4	6000

FMC Corporation
Crane and Excavator Division
Cedar Rapids Iowa 52406

GENERAL INFORMATION ONLY

REFER TO ALL NOTES ON COVER PAGE BEFORE OPERATING MACHINE.

BOOM LGTH	JIB LGTH	LOAD RAD	JIB ANGLE TO BOOM 0° BOOM ANGLE	0° JIB POINT HEIGHT	0° CAPACITY	15° BOOM ANGLE	15° JIB POINT HEIGHT	15° CAPACITY	30° BOOM ANGLE	30° JIB POINT HEIGHT	30° CAPACITY
140	40	100	57.8	159.5	6500	60.8	158.6	6900	63.4	154.3	5700*
140	40	110	53.9	152.6	5300	57.0	151.7	5600	59.4	147.3	5200*
140	40	120	49.9	144.7	4300	52.9	143.7	4600	55.2	139.1	4500*
140	40	130	45.7	135.6	3500	48.6	134.5	3800			
140	40	140	41.1	124.9	2900	44.0	123.8	3000			
140	40	150	36.0	112.2	2300	38.8	111.0	2400			
140	40	160	30.2	96.8	1800						
140	50	40	78.9	194.6	7600*						
140	50	50	75.8	192.3	7200*	79.6	191.2	5900*			
140	50	60	72.7	189.4	6800*	76.5	188.4	5700*	80.0	184.1	4900*
140	50	70	69.6	185.9	6400*	73.3	184.9	5500*	76.7	180.5	4700*
140	50	80	66.3	181.8	6000*	70.1	180.8	5300*	73.4	176.3	4500*
140	50	90	63.0	177.0	5700*	66.7	176.1	5100*	70.0	171.4	4200*
[illegible]	50	100	59.6	171.5	5500*	63.3	170.6	4800*	66.4	165.7	4000*
[illegible]	50	110	56.1	165.2	5300*	59.7	164.2	4600*	62.7	159.2	3800*
140	50	120	52.4	157.9	4400	56.0	156.9	4300*	58.9	151.7	3300*
140	50	130	48.5	149.6	3600	52.1	148.6	3900	54.8	143.0	2900*
140	50	140	44.4	140.1	2900	47.9	139.0	3200			
140	50	150	39.9	129.0	2300	43.4	127.7	2500			
140	50	160	35.0	115.9	1800	38.4	114.5	2000			
150	20	35	79.3	175.3	19700*						
150	20	40	77.6	174.3	19200*	79.3	173.8	16000*			
150	20	50	74.2	171.8	18300*	75.8	171.3	15300*	77.3	169.4	12500
150	20	60	70.6	168.6	15400	72.3	168.2	14600*	73.8	166.2	11900
150	20	70	67.1	164.7	11900	68.7	164.3	12300	70.1	162.3	11300
150	20	80	63.4	160.1	9400	65.0	159.7	9700	66.4	157.6	10000
150	20	90	59.6	154.7	7500	61.2	154.2	7800	62.5	152.0	8000
150	20	100	55.6	148.3	6100	57.2	147.9	6300	58.5	145.6	6500
150	20	110	51.5	140.9	4900	53.0	140.5	5100	54.2	138.0	5200
150	20	120	47.1	132.3	3900	48.6	131.8	4100			
150	20	130	42.3	122.2	3100	43.8	121.6	3300			
150	20	140	37.1	110.1	2500	38.5	109.5	2600			
150	20	150	31.1	95.4	1900						
[illegible]	30	35	79.9	185.3	15500*						

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Cedar Rapids Iowa 52406

GENERAL INFORMATION ONLY

REFER TO ALL NOTES ON COVER PAGE BEFORE OPERATING MACHINE.

BOOM LGTH	JIB LGTH	LOAD RAD	0° BOOM ANGLE	0° JIB POINT HEIGHT	0° CAPACITY	15° BOOM ANGLE	15° JIB POINT HEIGHT	15° CAPACITY	30° BOOM ANGLE	30° JIB POINT HEIGHT	30° CAPACITY
150	30	40	78.3	184.3	15100*						
150	30	50	75.0	181.9	14500*	77.4	181.0	12200*	79.6	178.1	9600*
150	30	60	71.7	178.8	13800*	74.1	178.0	11500*	76.2	175.0	9200*
150	30	70	68.4	175.1	12000	70.7	174.3	10900*	72.8	171.2	8700*
150	30	80	65.0	170.7	9500	67.3	169.9	10000	69.3	166.8	8300*
150	30	90	61.4	165.6	7600	63.7	164.8	8000	65.7	161.6	7900*
150	30	100	57.8	159.7	6200	60.0	158.9	6500	61.9	155.5	6800
150	30	110	53.9	152.8	5000	56.2	152.0	5300	58.0	148.5	5500
150	30	120	49.9	144.9	4000	52.2	144.1	4300	53.8	140.4	4500
150	30	130	45.7	135.8	3200	47.9	134.9	3400			
150	30	140	41.1	125.1	2500	43.2	124.2	2700			
150	30	150	36.0	112.5	2000	38.1	111.5	2100			
150	30	160	30.2	97.1	1500						
150	40	40	78.9	194.4	11500*						
[illegible]	40	50	75.8	192.1	11100*	78.9	191.1	9700*			
[illegible]	40	60	72.7	189.2	10700*	75.7	188.2	9200*	78.5	184.4	7500
150	40	70	69.6	185.7	10300*	72.6	184.7	8800*	75.2	180.9	7100
150	40	80	66.3	181.6	9600	69.3	180.6	8400*	71.9	176.7	6600
150	40	90	63.0	176.8	7700	66.0	175.8	7900*	68.5	171.8	6200
150	40	100	59.6	171.2	6200	62.5	170.3	6700	65.0	166.1	5700
150	40	110	56.1	164.9	5100	59.0	163.9	5400	61.3	159.6	4800
150	40	120	52.4	157.6	4100	55.3	156.6	4400	57.5	152.1	4200
150	40	130	48.5	149.3	3300	51.3	148.2	3600	53.5	143.4	3500
150	40	140	44.4	139.7	2600	47.2	138.6	2800			
150	40	150	39.9	128.6	2000	42.7	127.4	2200			
150	40	160	35.0	115.4	1500	37.7	114.1	1700			
150	50	40	79.5	204.7	7700*						
150	50	50	76.6	202.6	7300*						
150	50	60	73.6	199.9	6900*	77.2	198.8	5800*			
150	50	70	70.6	196.6	6500*	74.2	195.5	5600*	77.4	191.1	4700
150	50	80	67.6	192.7	6100*	71.1	191.7	5400*	74.3	187.2	4500
150	50	90	64.5	188.2	5800*	68.0	187.2	5100*	71.1	182.6	4300
150	50	100	61.3	183.0	5600*	64.8	182.0	4900*	67.8	177.3	4100
150	50	110	58.0	177.1	5100	61.5	176.1	4700*	64.4	171.2	3700
[illegible]	50	120	54.6	170.4	4100	58.0	169.4	4500*	60.8	164.2	3100
[illegible]	50	130	51.0	162.8	3300	54.4	161.7	3700	57.1	156.3	2700

REFER TO ALL NOTES ON COVER PAGE BEFORE OPERATING MACHINE.

BOOM LGTH	JIB LGTH	LOAD RAD	JIB ANGLE TO BOOM 0° BOOM ANGLE	0° JIB POINT HEIGHT	0° CAPACITY	15° BOOM ANGLE	15° JIB POINT HEIGHT	15° CAPACITY	30° BOOM ANGLE	30° JIB POINT HEIGHT	30° CAPACITY
150	50	140	47.2	154.0	2600	50.6	153.0	3000	53.1	147.2	2300*
150	50	150	43.2	144.1	2100	46.5	142.9	2300			
150	50	160	38.9	132.5	1600	42.1	131.2	1800			
160	20	35	79.9	185.5	19800*						
160	20	40	78.3	184.5	19400*	79.9	184.1	16100*			
160	20	50	75.0	182.2	18600*	76.6	181.7	15400*	78.0	179.8	12700*
160	20	60	71.7	179.2	15200	73.3	178.7	14800*	74.7	176.7	12100*
160	20	70	68.4	175.6	11700	70.0	175.1	12100	71.3	173.1	11500*
160	20	80	65.0	171.2	9200	66.5	170.8	9600	67.8	168.7	9800
160	20	90	61.4	166.2	7300	62.9	165.7	7600	64.2	163.6	7900
160	20	100	57.8	160.3	5900	59.3	159.8	6100	60.5	157.6	6300
160	20	110	53.9	153.5	4700	55.4	153.0	4900	56.6	150.7	5100
160	20	120	49.9	145.7	3700	51.4	145.2	3900	52.5	142.7	4000
160	20	130	45.7	136.6	2900	47.1	136.1	3100			
[illegible]	20	140	41.1	126.0	2300	42.5	125.4	2400			
160	20	150	36.0	113.4	1700	37.4	112.8	1800			
160	30	40	78.9	194.5	15300*						
160	30	50	75.8	192.2	14600*	78.1	191.3	12300*			
160	30	60	72.7	189.3	14000*	75.0	188.5	11700*	77.0	185.5	9300*
160	30	70	69.6	185.8	11800	71.8	185.0	11100*	73.8	181.9	8900*
160	30	80	66.3	181.7	9300	68.6	180.9	9800	70.5	177.8	8400*
160	30	90	63.0	176.9	7400	65.2	176.1	7800	67.1	172.9	8000*
160	30	100	59.6	171.4	6000	61.8	170.6	6300	63.6	167.3	6600
160	30	110	56.1	165.1	4800	58.2	164.2	5100	60.0	160.8	5300
160	30	120	52.4	157.8	3800	54.5	157.0	4100	56.2	153.4	4300
160	30	130	48.5	149.5	3000	50.6	148.6	3200	52.2	144.8	3400
160	30	140	44.4	139.9	2300	46.5	139.0	2500			
160	30	150	39.9	128.8	1700	42.0	127.8	1900			
160	40	40	79.5	204.6	11600*						
160	40	50	76.6	202.4	11200*	79.4	201.4	9700*			
160	40	60	73.6	199.7	10800*	76.5	198.6	9300*	79.1	194.8	7600*
160	40	70	70.6	196.4	10400*	73.5	195.4	8900*	76.0	191.5	7200*
160	40	80	67.6	192.5	9400	70.4	191.5	8500*	72.9	187.5	6800*
160	40	90	64.5	188.0	7500	67.3	187.0	8000	69.7	182.9	6200*

FMC

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Crane and Excavator Division
Cedar Rapids Iowa 52406

GENERAL INFORMATION ONLY

JIB CAPACITIES
MODEL NO. HC138
ITEM NO. 19P350.

REFER TO ALL NOTES ON COVER PAGE BEFORE OPERATING MACHINE.

BOOM LGTH	JIB LGTH	LOAD RAD	JIB ANGLE TO BOOM								
			0°			15°			30°		
			BOOM ANGLE	JIB POINT HEIGHT	CAPACITY	BOOM ANGLE	JIB POINT HEIGHT	CAPACITY	BOOM ANGLE	JIB POINT HEIGHT	CAPACITY
160	40	100	61.3	182.8	6000	64.1	181.8	6500	66.4	177.6	5200*
160	40	110	58.0	176.8	4800	60.7	175.9	5200	63.0	171.5	4500*
160	40	120	54.6	170.1	3900	57.3	169.1	4200	59.5	164.6	3800*
160	40	130	51.0	162.4	3100	53.7	161.4	3400	55.8	156.7	3300*
160	40	140	47.2	153.7	2400	49.9	152.6	2700	51.9	147.7	2900
160	40	150	43.2	143.7	1800	45.8	142.6	2000			
160	50	40	80.0	214.9	7800*						
160	50	50	77.2	212.9	7400*						
160	50	60	74.4	210.3	7000*	77.8	209.2	5800*			
160	50	70	71.6	207.2	6700*	75.0	206.1	5600*	78.1	201.7	4800*
160	50	80	68.7	203.5	6300*	72.1	202.5	5400*	75.1	197.9	4600*
160	50	90	65.8	199.3	5900*	69.1	198.2	5200*	72.1	193.6	4400*
160	50	100	62.7	194.4	5700*	66.1	193.4	5000*	69.0	188.6	4000*
160	50	110	59.7	188.8	4900	63.0	187.8	4800*	65.8	182.9	3400*
160	50	120	56.5	182.6	3900	59.8	181.5	4400	62.5	176.4	2900*
160	50	130	53.1	175.5	3100	56.4	174.4	3500	59.0	169.1	2500*
160	50	140	49.7	167.4	2400	52.9	166.4	2800	55.4	160.7	2100*
160	50	150	46.0	158.3	1800	49.2	157.2	2100	51.6	151.2	1900*