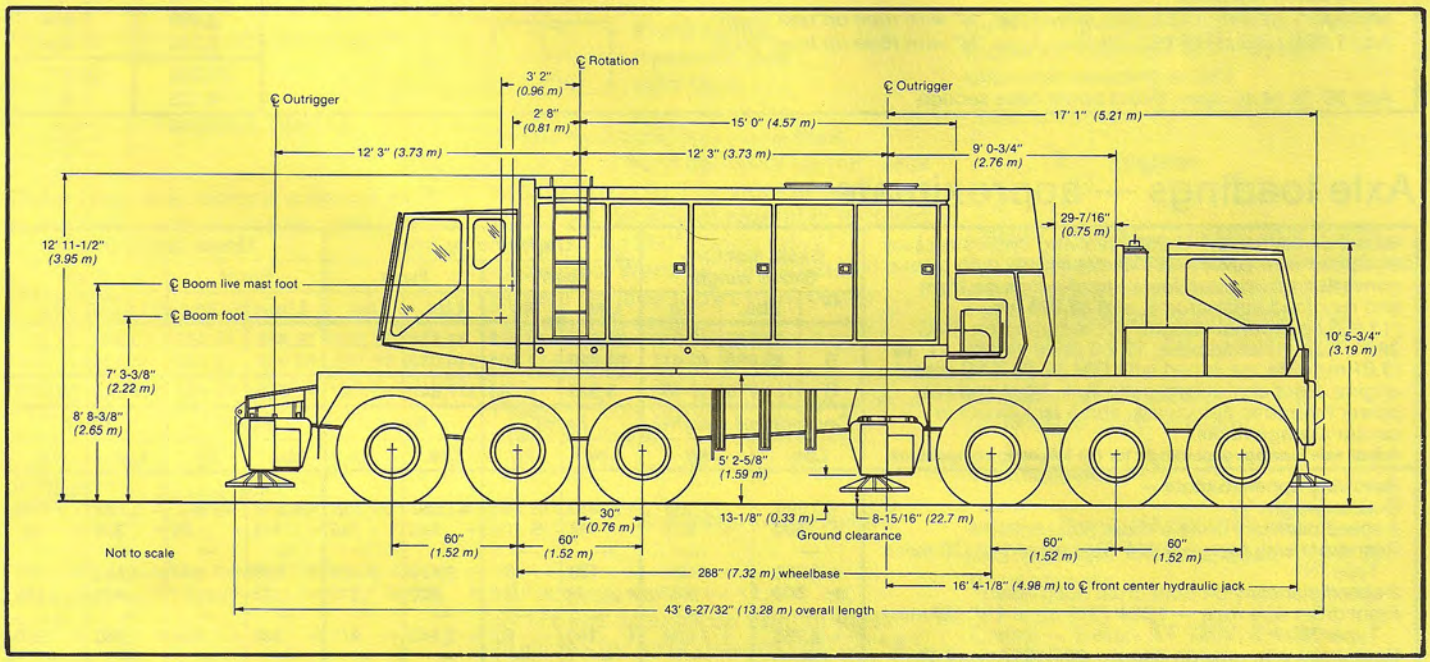
FMC

General Specifications

Link-Belt® **225-ton** *(204.07 metric ton)*

Wire rope truck crane

HC-268



General dimensions	Feet	*meters*
Overall width, outriggers extended (over floats)	**27' 4"**	*8.33*
Overall width, outriggers extended (c/l of jacks)	**24' 6"**	*7.46*
Overall width, outriggers retracted (jacks removed)	**11' 10"**	*3.61*
Vehicle clearance circle, over outside of front bumper	**149' 2"**	*45.97*
Vehicle clearance circle, over outside of front bumper counterweight	**150' 7"**	*45.90*
Minimum ground clearance (at bottom of front bogie beams)	**8' 7/8"**	*0.22*
Counterweight tailswing, across corners	**18' 9"**	*5.72*
Overall width cab (upper)	**11' 10"**	*3.61*
Basic boom length — open throat	**60' 0"**	*18.29*
Radius of boom hinge pin	**3' 2"**	*0.97*
Height of boom hinge pin	**7' 3-3/8"**	*2.22*
Overall length; boom in travel position over rear of carrier, with "A" upper and no bumper counterweights —	**—**	*—*
With **60'** *(18.29 m)* basic boom — open throat	**95' 7"**	*29.13*
Height; over boom live mast with boom in travel position —	**—**	*—*
With **60'** *(18.29 m)* basic boom — open throat	**21' 9-3/4"**	*6.65*
Ground clearance under counterweight	**5' 5-3/8"**	*1.65*

Printed in U.S.A.

Travel weights — approximate

Carrier only	Front tridem axle		Rear tridem axle		Total	
	Lbs.	kgs	Lbs.	kgs	Lbs.	kgs
Carrier with GM 8V-92 TA diesel engine, and with revolving upperstructure removed	28,855	13 089	63,830	28 953	92,685	42 042
Remove front outrigger jacks	- 1,350	- 612	- 850	- 386	- 2,200	- 998
Remove rear outrigger jacks	+ 890	+ 404	- 3,090	- 1 402	- 2,200	- 998
Remove 5 outrigger floats from carrier storage	- 260	- 118	- 485	- 220	- 745	- 338
	28,135	12 762	59,405	26 946	87,540	39 708
Add front bumper counterweight "A"	+15,375	+ 6 974	- 3,975	- 1 803	11,400	5 171

Revolving upperstructure only	Total	
	Lbs.	kgs
Basic crane upper with GM 6V-92T diesel engine, 2-speed planetary on rear drum, boomhoist rope on drum, and boom live mast	67,700	30 709
Add **1,024'** *(312 m)* of **1⅛"** *(29 mm)* Type "N" wire rope on rear drum	2,280	1 034
Add **1,024'** *(312 m)* of **1⅛"** *(29 mm)* Type "N" wire rope on front drum	2,280	1 034
	72,260	32 777
Add **30'** *(9.14 m)* open throat boom base section	4,125	1 871

Axle loadings — approximate

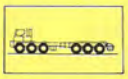
Based on standard HC-268 revolving upperstructure equipped with GM 6V-92T diesel engine with torque converter, power load lowering clutches on front and rear load hoist drums, and **30,000 lbs.** *(13 608 kg)* counterweight "A"; mounted on FMC **288"** *(7.32 m)* wheelbase, 12 x 6 drive carrier, **11' 10"** *(3.61 m)* wide, equipped with GM 8V-92 TAC diesel engine, front center hydraulic jack, front and rear power hydraulic outriggers, and 5 jack floats in carrier storage racks.

Adjust axle loadings accordingly for the following components:

**	Basic machine Gross weight Lbs.	kg	Upper facing front: Front Lbs.	Front kg	Upper facing front: Rear Lbs.	Rear kg	Upper facing rear: Front Lbs.	Front kg	Upper facing rear: Rear Lbs.	Rear kg
A	92,685	42 042	28,855	13 089	63,830	28 953	28,855	13 089	63,830	31 221
B	89,090	40 411	-24,920	-11 304	114,010	51 715	42 655	19 348	46,435	21 063
C	181,775	82 453	3,935	1 785	177,840	80 668	71,510	32 437	110,265	50 016
	Component weights		**Front**		**Rear**		**Front**		**Rear**	
	Lbs.	kg	Lbs.	kg	Lbs.	kg	Lbs.	kg	Lbs.	kg
Revolving upperstructure —										
Counterweight "A"	-30,000	-13 608	+17,960	+8 147	-47,960	-21 755	-24,210	-10 982	- 5,790	- 2 626
2-speed planetary on rear drum (load hoist)	+ 500	+ 227	- 40	- 18	+ 540	+ 245	+ 145	+ 66	+ 355	+ 161
Rear drum wire rope — **1,024'** *(312 m)* of **1⅛"** *(29 mm)* Type "N"	+ 2,280	+ 1 034	- 190	- 86	+ 2,470	+ 1 120	+ 670	+ 304	+ 1,610	+ 730
2-speed planetary on front drum (load hoist)	+ 500	+ 227	+ 30	+ 14	+ 470	+ 213	+ 75	+ 34	+ 425	+ 193
Front drum wire rope — **1,024'** *(312 m)* of **1⅛"** *(29 mm)* Type "N"	+ 2,280	+ 1 034	+ 140	+ 63	+ 2,140	+ 971	+ 340	+ 154	+ 1,940	+ 880
Boomhoist wire rope on drum — **876'** *(397 m)* of **1"** *(25 mm)* Type "N"	+ 1,620	+ 735	- 335	- 152	+ 1,955	+ 887	+ 675	+ 306	+ 945	+ 429
Boom stops, support struts and lever arms	+ 1,200	+ 544	+ 60	+ 27	+ 1,140	+ 517	+ 1,015	+ 460	+ 185	+ 84
Cummins NT855-C310 diesel engine	+ 750	+ 340	- 310	- 141	+ 1,060	+ 481	+ 465	+ 211	+ 285	+ 129
Carrier —										
Cummins NTC-475 diesel engine	+ 400	+ 181	+ 485	+ 220	- 85	- 39	+ 485	+ 220	- 85	- 39
Bumper counterweight "A"	+11,400	+ 5 171	+15,375	+6 974	-3,975	- 1 803	+15,375	+ 6 974	- 3,975	- 1 803
Front outrigger box and beams	-10,560	- 4 790	- 6,490	-2 944	- 4,070	- 1 846	- 6,490	- 2 944	- 4,070	- 1 846
Front outrigger jack housings, cylinders and pistons (2 each)	- 2,200	- 998	- 1,350	- 612	- 850	- 386	- 1,350	- 612	- 850	- 386
Rear outrigger box and beams	-10,560	4 790	+ 4,290	+1 946	-14,850	- 6 736	+ 4,290	+ 1 946	-14,850	- 6 736
Front outrigger jack housings, cylinders and pistons (2 each)	- 2,200	- 998	+ 890	+ 404	- 3,090	- 1 402	+ 890	+ 404	- 3,090	- 1 402
5 jack floats	- 745	- 338	- 260	- 118	- 485	- 220	- 260	- 118	- 485	- 220
Goodyear SRL-1 tires	+ 1,170	+ 531	+ 390	+ 177	+ 780	+ 354	+ 390	+ 177	+ 780	+ 354
Goodyear NDMS tires	+ 180	+ 81	+ 60	+ 27	+ 120	+ 54	+ 60	+ 27	+ 120	+ 54
General HCT tires	+ 1,386	+ 629	+ 462	+ 210	+ 924	+ 419	+ 462	+ 210	+ 924	+ 419
General ESR tires	+ 360	+ 163	+ 120	+ 54	+ 240	+ 109	+ 120	+ 54	+ 240	+ 109
Attachment —										
30' *(30.48 m)* open throat tubular boom base section with 4 connecting pins — horizontal over rear of carrier	+ 4,125	+ 1 871	—	—	—	—	- 2,515	- 1 141	+ 6,640	+ 3 012
35' *(10.67 m)* boom live mast and bridle — mast horizontal over rear of carrier	+ 6,490	+ 2 944	+ 7,235	+3 282	- 745	- 338	- 5,880	- 2 667	+12,370	+ 5 671
Boomhoist wire rope (from bail to boom live mast) — mast horizontal over rear of carrier	+ 1,620	+ 735	+ 1,070	+ 485	+ 550	+ 250	- 735	- 333	+ 2,355	+ 1 068
60' *(18.29 m)* open throat tubular boom — horizontal over rear of carrier	+ 9,300	+ 4 218	—	—	—	—	-13,985	- 6 344	+23,285	+10 562

**A — Upper, B — Carrier, C — Total

General specifications
Mounting



Type

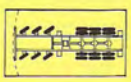
FMC; 288" *(7.32 m)* wheelbase, 12 x 6 drive, 11' 10" *(3.61 m)* wide.

Frame — Main members heat treated alloy steel; triple box construction. Machined mounting surface for outer race of turntable bearing. Towing shackles front and rear.

Optional — Pintle hook trailer hitch.

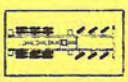
Turntable bearing

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



Front axles

Tridem; equalizer beam mounted. Shuler FTC A34-L, 114" *(2.90 m)* track.



Rear axles

Tridem; equalizer beam mounted. Clark planetary #BD71000, 109-7/8" *(2.79 m)* track.

Suspension — Hendrickson bronze bushed equalizer beams with fiber bushed torque rods.

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

Tires

Single tires on front axles, dual tires on rear axles.

Standard — 14.00 x 24-L (20-ply rating) Custom Hi-Miler.

Optional — 14.00 x 24-L (20-ply rating) General HCT.
— 14.00 x 24-L (20-ply rating) Goodyear SRL-1.

Outriggers

Dual outriggers, with hydraulic beams and jacks, mounted at center and rear of carrier. Hydraulic outrigger beams and jack cylinders individually controlled from valve at each outrigger beam location. Center outrigger box equipped with rollers which ride in a track to facilitate removal of outrigger assembly when required.

Front center hydraulic jack with float

Single hydraulic jack, with float, mounted at front center of carrier. Jack setting controlled by valve at right front of carrier. Jack/float assembly required for handling 360° swing rated capacities. Warning horn sounds if ground surface allows front center jack/float to settle.

Floats — Low profile steel; 34" *(0.86 m)* diameter round.

Bumper counterweight

"A" counterweight — 11,400 lbs. *(5 171 kg)*. Mounts on front bumper frustums for easy removal. NOTE: "A" bumper counterweight is not used with boom lengths 60" through 80" *(18.29* through *24.38 m)* on machine equipped with "AB" upper counterweight. "B" counterweight — 15,300 lbs. *(6 940 kg)*. NOTE: "AB" bumper counterweight is not used with boom lengths less than 150" *(45.72 m)*, and it is used only on machine equipped with "AB" upper counterweight.

Brakes — 12-wheel air brakes.

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

Size and area — Rear wheels — 20" x 7" *(0.51 x 0.18 m)*; total lining area, 574 sq. in. *(3 703.4 cm²)* per axle. Front wheels — 17-1/4" x 4" *(0.44 x 0.10 m)*; total lining area, 248 sq. in. *(1 600 cm²)* per axle.

Parking — Six rear wheel brakes applies with air control valve on carrier dash.

Emergency — Brakes on six rear wheels apply when air pressure drops below 40 p.s.i. *(2.81 kg/cm²)* in system. Emergency brake may be manually applied by hand control of dash-mounted air control valve.

Steering

Semi-integral power hydraulic; Ross model HSP70 with 15" *(0.38 m)* diameter steering wheel.

Engines

Carrier engines — Diesel; with starter, full-pressure lubrication, power steering pump, dry type air cleaner, Bendix "TU-FLO 700" air compressor and alternator.

Clutch — Lipe Rollway; 15-1/2" *(0.39 m)*, 2 plate, dry disc.

Transmissions —

Main — Eaton RTO 14615 twin countershaft; fifteen speeds forward, three reverse.

Creep — Eaton AT 1202; 2-speed, midship mounted.

Universals — Mechanics-type drive tubes; needle bearings.

Cab — One-man, fully enclosed. Air suspension mounted bucket seat with seat belt. Sound absorbing upholstery. Instrument panel and dash include speedometer, odometer, voltmeter, tachometer, switch for heater/defroster, low air pressure warning buzzer, and gauges for fuel, engine temperature, and air/oil pressures.

Electrical system

12-volt negative ground system with series-parallel switch for 24-volt starting. Includes dual sealed beam headlights, directional signals with 4-way flashing system, stop and tail lights, clearance lights, horn, dome light, dimmer switch, and two 12-volt 225 ampere hour batteries.

Fuel tank

One 86 gallon *(325 liter)* capacity tank; side mounted on carrier frame.

Standard auxiliary equipment — West Coast type rear view mirrors, boom guide, lug wrench, 2-way reading bubble levels on both sides of carrier and tire gauge. High pressure lube fittings at all bearing points, hand grab rails, fenders, mud flaps and skid-resistant finish on carrier deck.

Engine specifications	General Motors 8V-92 TAC	Cummins NTC-475
Number of cylinders	**8**	**6**
Bore	**4.84"** *(0.12 m)*	**5.5"** *(0.15 m)*
Stroke	**5"** *(0.13 m)*	**6"** *(0.15 m)*
Piston displacement	**736 cu. in.** *(12 061 cm³)*	**855 cu. in.** *(14 011 cm³)*
Max. brake h.p. @ r.p.m.	**440** *(328.11 kh)* **@ 2,100**	**475** *(354.21 kh)* **@ 2,100**
Governed load speed r.p.m.	**2,100**	**2,100**
Peak torque @ r.p.m.	**1,250 ft. lbs.** *(1 695 j)*	**1,430 ft. lbs.** *(1 939 j)*
Compression ratio	**17 to 1**	**13.7 to 1**
Electrical system	**12-volt charging/24-volt starting**	**12-volt charging/24-volt starting**
Batteries	**Two 12-volt**	**Two 12-volt**

Carrier speeds —

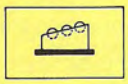
Main — Eaton RT 14615			Auxiliary — Eaton AT 1202			
			1.00 : 1.00		2.036 : 1.00	
Gear		Ratio	m.p.h.	*km/hr*	m.p.h.	*km/hr*
High	10th	.78	**43.8**	*70.4*	**21.5**	*34.6*
	9th	1.00	**34.2**	*55.0*	**16.8**	*27.0*
	8th	1.30	**26.3**	*42.3*	**12.9**	*20.8*
	7th	1.68	**20.3**	*32.6*	**10.0**	*16.0*
	6th	2.19	**15.6**	*25.1*	**7.7**	*12.4*
	Rev.	2.16	**15.8**	*25.4*	**7.8**	*12.6*
Low	5th	2.80	**12.2**	*19.6*	**6.0**	*9.7*
	4th	3.57	**9.6**	*15.4*	**4.7**	*7.6*
	3rd	4.63	**7.4**	*11.9*	**3.6**	*5.8*
	2nd	6.00	**5.7**	*9.1*	**2.8**	*4.5*
	1st	7.83	**4.4**	*7.1*	**2.1**	*3.3*
	Rev.	7.73	**4.4**	*7.1*	**2.1**	*3.3*
Deep reduction	5th	4.37	**7.8**	*12.5*	**3.8**	*6.1*
	4th	5.56	**6.1**	*9.8*	**3.0**	*4.8*
	3rd	7.22	**4.7**	*7.5*	**2.3**	*3.7*
	2nd	9.35	**3.7**	*5.9*	**1.8**	*2.8*
	1st	12.20	**2.8**	*4.5*	**1.4**	*2.2*
	Rev.	12.04	**2.8**	*4.5*	**1.4**	*2.2*

Creep speed in deep reduction low (1st) — based on peak engine torque speed of **1,400 r.p.m.** — is **.90 m.p.h.** *(1.44 km/hr).*
Note: Rear axle ratio — 9.0 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"	Over outside of front bumper counterweight "AB"
144' 8" *(44.09 m)*	**146' 0"** *(44.50 m)*	**149' 2"** *(45.42 m)*	**148' 2"** *(45.12 m)*	**150' 6"** *(45.85 m)*

Revolving upperstructure

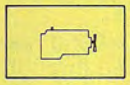


Frame

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

Turntable bearing

Bearing retainer is bolted to machined surface on under side of frame. Turntable bearing, with integral external tooth swing (ring) gear is bolted on carrier. Patented (hydraulic cylinder actuated) quick disconnect lock ring facilitates removing upper from carrier for transporting without disturbing the turntable bearing mounting.



Engines

Diesel; full pressure lubrication, oil filter, air cleaner, hour meter, foot and optional hand throttles. Electrically energized control shutdown for GM and Cummins engines, switch key operated.

Engine specifications	General Motors 6V-92T	Cummins NT855-C310
Number of cylinders Bore Stroke	**6** **4.84"** *(0.12 m)* **5"** *(0.13 m)*	**6** **5.5"** *(0.14 m)* **6"** *(0.15 m)*
Piston displacement Max. brake h.p. @ full load speed r.p.m. High idle speed Peak torque @ converter stall	**552 cu. in.** *(9 046 cm)* **314 h.p.** *(234 kW)* **@ 2000** **2,190 r.p.m.** **3,067 ft. lbs.** *(424 kgm)*	**855 cu. in.** *(14 013 cm)* **305 h.p.** *(227 kW)* **@ 2,000** **2,200 r.p.m.** **3,139 ft. lbs.** *(434 kgm)*
Electrical system Batteries	**12-volt** **Two 12-volt**	**12-volt** **Two 12-volt**
Clutch or power take-off	**Disconnect clutch between engine and converter.**	**Disconnect clutch between engine and converter.**
Transmission — Number chain wheel teeth Number engine pinion teeth	 **147** **18**	 **147** **18**

Power train

Transmissions

Quadruple width roller chain for main load hoist system. Chain drive transfers power from engine/torque converter power package to expanded Full-Function gear train.

Fuel tank

143.4 gallon *(542.8 liter)* capacity; equipped with fuel level gauge and flame arrester filler pipe cap with locking eye for padlock.

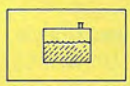
Machinery gear train

Expanded Full-Function design. Machine cut teeth on drum gears, pinions, spur gears, sprockets and chain wheels. Components such as gears, pinions, sprockets, chain wheels, wire rope drums, brake discs and clutch spiders — involute splined to shafts. Operating shafts mounted on anti-friction bearings; drum gear/clutch drum assemblies bolted together and mounted on shafts on anti-friction bearings.

Principal operating fuctions

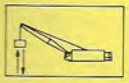
Control system

Speed-o-Matic® power hydraulics; a variable pressure system requiring no bleeding. Operating pressure is transmitted through oil to all operating cylinders. The system includes a pump to provide a constant flow of oil, two accumulators to maintain operating pressure, oil filter, relief valve, and variable pressure operator controlled valves to regulate the pressure to each hydraulic cylinder.



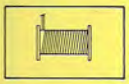
Hydraulic oil reservoir

FMC; 30 gallon *(113.55 liter)* capacity with filter and strainer assembly.



Load hoisting and lowering

Wire rope drum gear train (front and rear main operating drums) powered through chain drive by independent Type 4 torque converter. Independent torque converter assures ample torque for load line speeds and pulls (as well as for boom hoisting/lowering) without affecting swing system.



Load hoist drums

Front and rear main operating drums — One-piece, smooth; 20" *(0.51 m)* root diameter. Ratchet wheel for drum locking pawl integral with drum flange.

Drum clutches

Speed-o-Matic power hydraulic two-shoe clutches. Internal expanding, lined shoes; clutch spiders splined to shafts, clutch drums bolted to drum spur gears and mounted on shafts on anti-friction bearings.

Load hoist clutches — Front and rear main operating drums — 37" *(0.94 m)* diameter, 5-1/2" *(0.14 m)* face width.

Load lowering clutches — Front and rear main operating drums — 37" *(0.94 m)* diameter, 5-1/2" *(0.14 m)* face width.

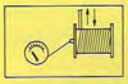
Drum locking pawls — Operator controlled; spring applied, hydraulically released. Standard on front and rear main operating drums.

Drum planetary drive units — Optional for load hoist on either or both front and rear main operating drums. Available for increased load line speeds only. Planetary drive units controlled by external contracting band brakes through push button located on hoist clutch control lever handles. Standard line speeds controlled by Speed-o-Matic power hydraulic 2-shoe clutches.

Drum brakes

Disc type; hydraulically applied by two calipers. Brake disc is 34" *(0.86 m)* diameter, 1-1/4" *(32 mm)* wide.

Automatic drum brakes — *Optional.* Automatically hydraulically applied when front or rear main operating drum clutch controls levers are in neutral (clutches disengaged) position.



Drum rotation indicators

Standard for front and rear main operating drums. Two solenoid 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 the opposite direction. Three to five pulsations represent approxiately 1" *(25 mm)* rope travel on or off drum.

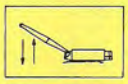
Swing system

Hydrostatic. Hydromatik variable displacement pump drives Hydromatik bi-directional, fixed displacement motor mounted on planetary swing drive case.

Swing brake — Spring loaded, hydraulically released multi-plate swing brake mounted at input side of planetary gear box. Brake controlled by valve on control stand in crane operator's cab.

Swing lock — Operator controlled pawl; mechanically engaged and released. Pawl engages external teeth of turntable bearing swing (ring) gear.

Maximum swing speed — 2.4 r.p.m.



Boom hoist/ lowering system

Hydraulic. Boomhoist motor — Hydromatik fixed displacement, bi-directional.
Boomhoist pump — Hydromatik variable displacement; controlled from operator's position in crane cab.

Boomhoist drum

One-piece, smooth; 18" *(0.48 m)* root diameter. Ratchet wheel for drum locking pawl integral with drum flange.

Wire rope drum winch drive — Two-stage planetary gear drive; reduction 53 to 1.

Boom hoist/lowering brake

Multiple disc, integral with drum drive unit. Spring applied, hydraulically released with integral free-wheeling device.

Boomhoist drum locking pawl

Operator controlled; spring applied and mechanically released with push/pull cable.

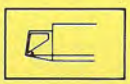
Boom hoist limiting device — Provided to restrict hoisting boom above maximum recommended boom angle; located on exterior right-hand side of operator's cab. Electrical switch, contacted by boom striker bracket in near vertical position, deactivates hydraulic solenoid valve which shuts off hydraulic pressure in line to boom hoist pump and brake. As pressure is shut off, boom hoist brake is spring applied.

Electrical system

Battery. Two 12-volt, 225 ampere hour batteries and 12-volt, 60 ampere alternator.

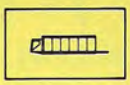
Optional — Battery lighting system, including two sealed beam automotive type adjustable headlights located on cab front roof, one interior cab light and automotive type wiring.

Optional — Additional 50 watt sealed beam automotive type headlight mounted on boom. (Three maximum quantity recommended.)



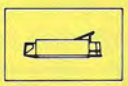
Operator's cab

Environmental cab, modular type with sliding door; isolated from upper machinery cab. Cab door and windows equipped with tinted safety glass panels. Standard cab equipment includes hand grab rail, cab heater/defroster and windshield wiper/washer.



Machinery cab

Equipped with warning horn, hinged doors for access to machinery, roof-top access ladder and skid-resistant finish on roof.

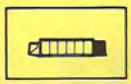


Gantry

Mounted to upper frame; supports boom suspension system.

Gantry bail

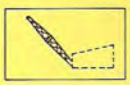
Pinned to gantry; supports boom suspension system. Bail contains 8 sheaves for 18-part boomhoist rope reeving; sheaves mounted on anti-friction bearings.



Counterweight

Total 85,000 lbs. *(38 556 kg)*. "A" counterweight — two-piece 47,000 lbs. *(13 608 kg)* — held in place on two hydraulically controlled frustums; frustum control valves located at rear of upper machinery cab. "B" counterweight — 38,000 lbs. *(24 947 kg)* — bolted in position on top of "A" counterweight. "A" or "AB" counterweight lowered to, or raised from, carrier deck in seconds. NOTE: "B" counterweight alone cannot be lowered.

Boom and jib



Boom

Tubular; two section basic boom — 60' *(18.29 m)* long.

Base section — 30' *(9.14 m)* long, 80" *(2.03 m)* wide, 68" *(1.73 m)* deep. Lifting lugs on top side of base section to attach carrying links for carrying boom base section.

Boom extensions — Available in 10', 20', 30', 40' and 50' *(3.05, 6.10, 9.14, 12.19 and 15.24 m)* lengths; 80" *(2.03 m)* wide, 68" *(1.73 m)* deep, centerline-to-centerline of main chords. Extensions furnished with appropriate length pendants, and one hoist line deflector roller per extension.

Boom connections — In-line, tapered pins.

Boom top section — Open throat; 30' *(9.14 m)* long.

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

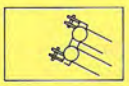
Boom stops

Dual lever type; connected to upper frame and top of boom base section. Spring loaded bumper ends.

Boom live mast

Mounted on front of upper frame; supports boomhoist bridle, spreader bar and boom midpoint suspension pendants. Mast 35' *(10.67 m)* high; may be used as short boom for handling counterweight, outrigger assemblies, etc. in machine stripdown and for boom assembly/disassembly.

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



Boomhoist bridle and spreader bar

Serves as connection for boom suspension system. Bridle contains nine 15" *(0.38 m)* root diameter sheaves (for 18-part boomhoist reeving) and two 15" *(0.38 m)* root diameter auxiliary load hoist sheaves which enable boom live mast to be used as short boom for machine assembly/disassembly. Sheaves mounted on anti-friction bearings. Spreader bar provides attachment point for boom main pendants.

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

Boom midpoint suspension pendants — Required for all boom lengths exceeding 240' *(73.15 m)*. Pendants connected at point of boom.

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

Permissible boom lengths — without jib.
With "A" upper and "A" bumper counterweights — 60' through 280' *(18.29* through *85.34 m)*.
With "AB" upper counterweight only — 60' through 300' *(18.29* through *91.44 m)*.
With "AB" upper and "A" bumper counterweights — 90' through 310' *(27.43* through *94.48 m)*.
With "AB" upper and "AB" bumper counterweights — 150' through 330' *(45.72* through *100.58 m)*.

Permissible boom lengths — with jib.
With "AB" upper and "A" bumper counterweights — 60' through 280' *(18.29* through *85.34 m)*.
With "AB" upper and "AB" bumper counterweights — 290' through 300' *(88.39* through *91.44 m)*.

Jib

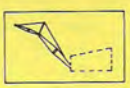
Tubular; two-piece basic jib 30' *(9.14 m)* long; 32" *(0.81 m)* wide, 24" *(0.51 m)* deep at centerline of connections. Alloy steel tubular chords 2-1/4" *(57 mm)* outside diameter.

Base section — 13' 3" *(4.04 m)* long.

Jib extensions — Available in 20' *(6.10 m)* lengths with appropriate length pendants.

Jib connections — In-line, tapered pins.

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



Jib mast

17' 10" *(5.43 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 back staylines. Back staylines vary in length depending on degree of jib offset from boom centerline; back staylines attached at bottom end of boom top section.

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

Maximum jib length permitted — 90' *(27.43 m)*. All jib lengths may be mounted at 5°, 15° or 25° offset to boom.

Auxiliary equipment

Boom angle indicator

Pendulum type; mounted on boom base section.

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

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

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

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

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

FMC Corporation Construction Equipment Group Cedar Rapids Iowa 52406

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