Link-Belt
CONSTRUCTION EQUIPMENT

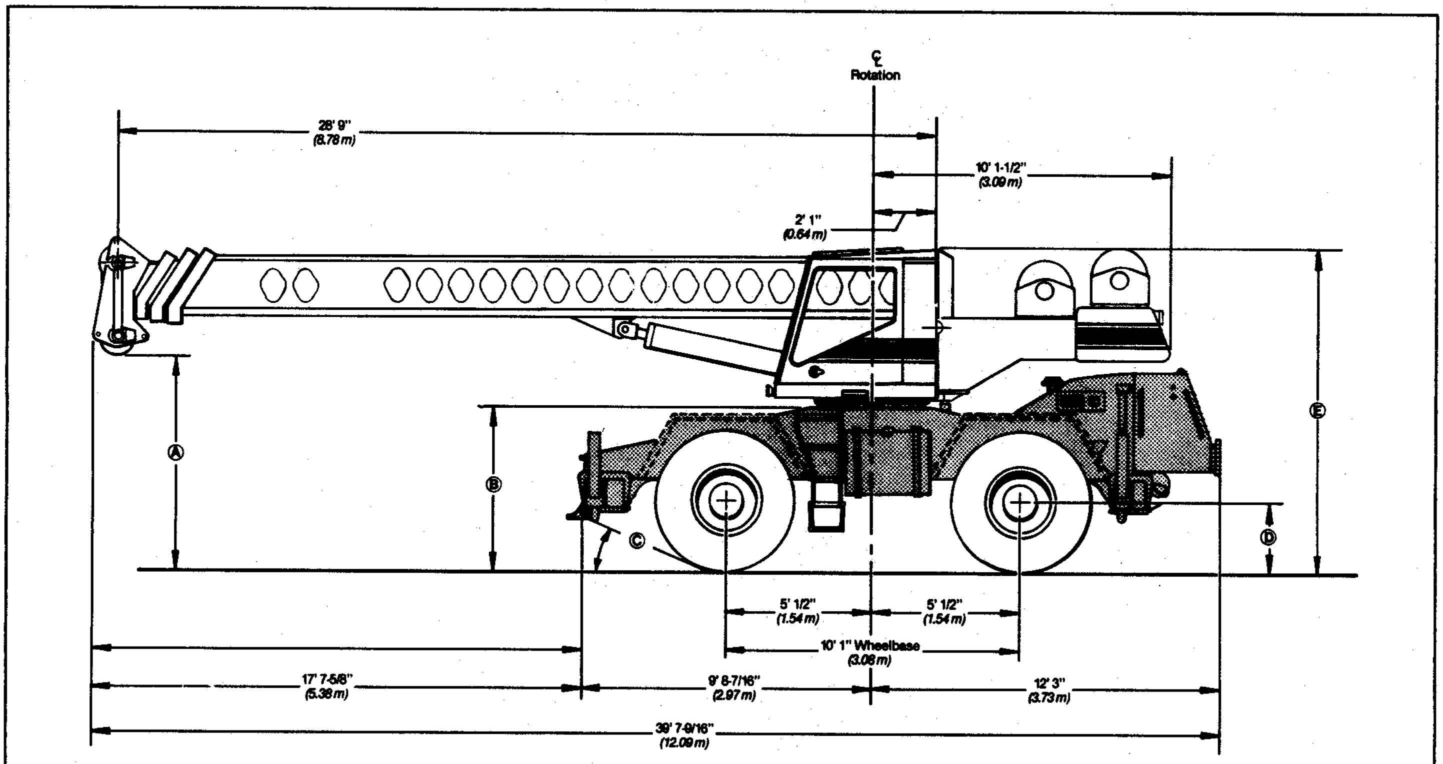
Specifications

Hydraulic Rough Terrain Crane

GENERAL INFORMATION ONLY

HSP-8015

15 Ton (*13.61 metric ton*)



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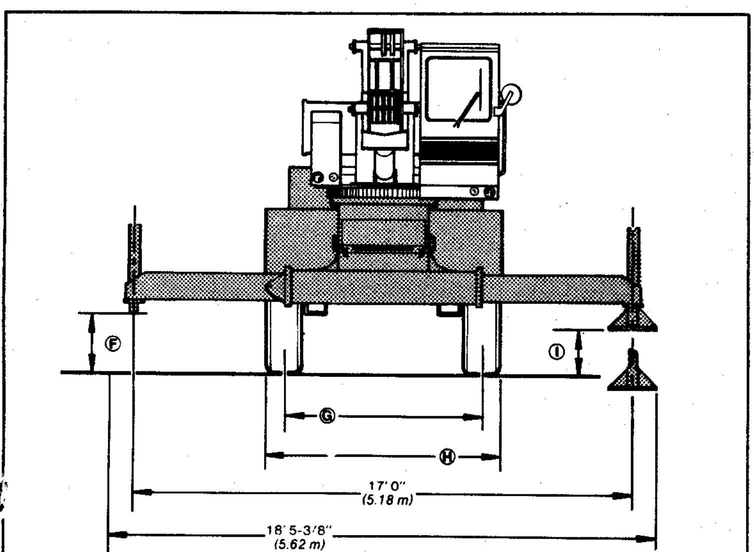

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General dimensions	feet	*meters*
Turning Radius (4-wheel steer)	14' 11"	*4.55*
Tailswing of counterweight:	10' 6"	*3.20*

Dimensions affected by tires

Tires	16.0 X 24 (16-PR)		20.5 X 25 (20-PR)	
	feet	*meters*	feet	*meters*
A	–	–	8' 3/4"	*2.46*
B	5' 7-5/16"	*1.71*	5' 8-1/4"	*1.73*
C	19.4°	–	20°	–
D	2' 1-13/16"	*0.66*	2' 4-9/16"	*0.73*
E	11' 7/16"	*3.36*	11' 1-3/8"	*3.39*
F	20-1/8"	*0.51*	21"	*0.53*
G	6' 6-7/16"	*1.99*	6' 11-7/16"	*2.12*
H	8' 0"	*2.44*	8' 8-13/16"	*2.66*
I	12-1/8"	*0.31*	13"	*0.33*

Litho in U S A 4'90

#5139 (supersedes #5093)

Upperstructure

Boom

Link-Belt patented design. Boom side plates have diamond shaped impressions for superior strength to weight ratio and 100,000 p.s.i. *(689.5 MPa)* steel angle chords for lateral stiffness. Boom telescope sections are supported by wear shoes both vertically and horizontally to prevent metal to metal contact. Anti-two block, electronic boom length / angle indicator and function kickout.

Load Moment Indicator — Optional; Audio-visual warning system with anti-two block and function kickouts. Constant display of boom length and angle, tip height, radius of load, machine configuration, allowed load, actual load and % of allowed load. Presettable alarms for maximum and minimum boom angles, maximum tip height and maximum boom length.

Standard boom — 28' 9"— 70' 3" *(8.76 m —21.41 m)* three-section boom with two power sections.

Optional boom — 28' 9"— 49' 6" *(8.76 m —15.09 m)* 2-section boom with one power section.

Optional boom — 28' 9"— 91' 0" *(8.76 m —27.74 m)* 4-section boom includes base section, two power sections, and manual fourth section. Fourth section is power pinned by manually activating a cylinder locking system.

Boom head — Standard; Four 10-5/8" *(0.27 m)* root diameter head sheaves handle up to 8 parts of wire rope. Two easily removable wire rope guards and rope dead end lugs provided on each side of boom head. Optional 12-1/8" *(0.31 m)* root diameter head sheaves; meets 23:1 ratio European safety code with 9/16" *(14 mm)* wire rope.

Auxiliary lifting sheave — *Optional;* Single 10-5/8" *(0.27 m)* root diameter sheave with removable wire rope guard, mounted to boom. For use with one or two parts of line off the optional auxiliary winch. Does not affect erection of fly, or use of main head sheaves for multiple reeving.

Boom elevation — One Link-Belt designed hydraulic cylinder with holding valve. Self aligning steel bushings. Hand and optional foot controls for controlling boom elevation from -3° to 80°.

Fly

Optional — 24' 0" *(7.32 m)* stowable one-piece lattice type.

Jib

Optional — 14' 6" *(4.42 m)* stowable A-frame. Attaches to boom head only. Can be offset 10°, 20° and 30°.

Cab and Controls

Environmental cab; isolated from sound and vibration by rubber mounts. All tinted and tempered safety glass windows. Sliding rear and right side window and swing up roof window for maximum visibility and ventilation. Slide-by-door opens to 3' 0" *(0.91 m)* width. 6-way adjustable operator's seat. 4-way adjustable tilt/telescoping steering wheel. Ignition and steering wheel key lock. Control levers for swing, boom telescope, winch and boom hoist. Outrigger controls, sight level bubble. Optional foot control for boom hoist and swing brake.

Cab instrumentation — Dash mounted gauges for hydraulic oil temperature, converter temperature, fuel, water temperature, voltmeter and oil pressure.

Swing

Bi-directional hydraulic swing motor mounted to a planetary reducer for 360° continuous smooth swing at 3.0 r.p.m.

Swing parking brake — Manually applied/ released, disc brake mounted on the speed reducer.

Swing brake — *Optional*; foot operated, spring released disc brake mounted on the speed reducer.

Swing lock — Standard; two position travel lock operated from the operator's cab. Optional 360 house lock.

Counterweight — Bolted to upperstructure frame.

Hydraulic System

Main pump — Double gear type pump. Combined pump capacity 92 gpm *(348.2 lpm)*. Powered by carrier engine through a straight mechanical drive or through an optional mechanical clutch pump disconnect. Pump operates at 2,800 p.s.i. *(193.05 Bars)* maximum system pressure.

Swing / steering pump — Single gear-type pump, 15 gpm *(56.8 lpm)* maximum. Powered by carrier engine through a straight mechanical drive. Pump operates at 2,500 p.s.i. *(172.37 Bars)*.

Reservoir — 100 gallon *(378.50 L)* capacity. Double diffusers for deareation.

Filtration — Two 2-micron filters located inside of hydraulic reservoir. Accessible for easy replacement.

Control valves — Five separate control valves allow simultaneous operation of all crane functions.

Load Hoist System

Standard: 1M main winch with single speed motor and automatic brake; power up/down mode of operation. Bi-directional gear-type hydraulic motor, driven through a double planetary reduction unit for positive operator control under all load conditions.

Optional — Model 2M main winch with two-speed motor and automatic brake, power up/power down mode of operation. Bi-directional, gear-type hydraulic motor.

Optional — Model 1M auxiliary winch with one-speed motor and automatic brake, power up/power down mode of operation.

Line pulls and speeds — Maximum line pull 9,600 lbs. *(4 355 kg)* and maximum line speed of 416 f.p.m. *(126.80 m/min)* on standard 12" *(0.30 m)* root diameter smooth drum.

Additional Equipment - Standard

Sound suppressed cab, fire extinguisher, seat belt, warning horn, mirrors, travel lights, windshield wiper and backup alarm.

Additional Upperstructure Equipment - Optional

360° house lock, boom hoist foot control, propane heater, diesel heater, foot actuated swing brake, two-speed main winch, drum rotation indicators, 25-ton *(22.68 metric ton)* hook block, 30-ton *(27.22 metric ton)* hook block, 8-1/2 ton *(7.71 metric ton)* hook ball and swivel, rear steer indicator, boom mounted working light, engine monitoring system, tachometer, air conditioner, top hatch window wiper, amber rotating beacon, windshield washer, and 360° cab mounted spotlight.

Carrier

Type

Link-Belt 8' 0" *(2.44 m)* wide, 121" *(3.07 m)* wheelbase.

4×4×4 — (4-wheel steer, 4-wheel drive)
Standard — for rough terrain with limited turning area.

4×4×4 — (4-wheel steer, 4-wheel drive)
Optional — Rear axle with no-spin differential; for rough terrain with limited turning area.

Frame — 100,000 p.s.i. *(689.5 MPa)* steel, double walled construction with integral 100,000 p.s.i. *(689.5 MPa)* steel outrigger boxes.

Axles

Front - Standard — heavy duty planetary drive/steer type.

Rear - Standard — heavy duty planetary drive/steer type.

Rear - *Optional* — heavy duty no-spin differential, planetary drive/steer type.

Suspension

Front axle — Rigid mounted to frame.

Rear axle — Pin-mounted on welded steel box cradle. Automatic hydraulic rear axle oscillation lock-out engages when upperstructure rotates past 2-1/2° of centerline.

Tires

Front and rear
Standard — 20.5 × 25 (20-PR)

Optional — 16.0 × 24 (16-PR)

Brakes

Service — Air over hydraulic, drum-type brakes at each wheel end. Drum diameter 17-1/2" *(0.44 m)*. Shoe width 4" *(.10 m)*.

Parking — Spring applied, air released; cab controlled, mounted on front axle.

Steering

Hydraulic two wheel, four wheel and "crab" steering: controlled from tilt / telescoping steering wheel.

Transmission

4-speed fully automatic transmission. 8 speeds forward and 2 reverse with 2-speed heavy duty transfer case. Electric over air controls. Completely automatic shifting in both low and high range for operator convenience.

Outriggers

Four hydraulic, telescoping beam and jack outriggers. Vertical jack cylinders equipped with integral holding valve. Beams extend to 17' 0" *(5.18 m)* centerline-to-centerline and retract to within 8' 0" *(2.44 m)* overall width. Equipped with stowable, lightweight 17-3/8" *(0.44 m)* square steel floats. Controls and sight level bubble located in upperstructure cab.

Additional Equipment - Standard

Cab steps, 2 front and rear carrier steps, skid resistant finish on carrier deck, storage compartment, automatic rear axle disconnect, and fenders.

Additional Equipment - Optional

No-spin differential on rear axle, front and rear towing shackles, lifting lug package, engine block heater, ether injection package, spare tires and rims, pintle hook, manual pump disconnect, auxiliary steering system, air dryer, and jack cylinder hose covers.

Travel Speeds and Gradeability

Engine	Tires	Maximum Speed		Gradeability at stall	Maximum tractive effort at stall		Gradeability at 1.0 mph *(1.61 km/h)*	Maximum tractive effort at 1.0 mph *(1.61 km/h)*	
		mph	*km/h*		pounds	*kg*		pounds	*kg*
GM 8.2N	16.0 × 24 20.5 × 25	18.1 19.4	*29.1* *31.2*	186% 130%	39,886 37,090	*18 092* *16 824*	66% 60%	25,148 24,210	*11 407* *10 982*

Engine	GM 8.2N
Cylinders - cycle	8-4
Bore	4.25" *(108.0 mm)*
Stroke	4.41" *(112.0 mm)*
Displacement	500 cu. in. *(8 200 cm^3)*
Maximum brake hp	130 @ 2800 rpm
Peak torque	330 ft. lbs. *(447 J)*
Electric system	12 volt negative ground
Fuel capacity	75 gallons *(283.9 L)*
Alternator	80 amps
Crankcase capacity	12 quarts *(11.4 L)*
Air compressor	12 c.f.m. *(0.34 m^3/min)*

Axle Loads 3-Section Boom

Base machine with standard 28' 9" - 70' 3" *(8.67 m - 21.41 m)* three-section boom, 400' *(121.92 m)* 9/16" *(14 mm)* wire rope, 4 x 4 x 4 carrier with GM 8.2N engine, 20.5 × 25.0 tires, counterweight.	G.V.W. ①		Upper facing front				Upper facing rear			
			Front axle		Rear axle		Front axle		Rear axle	
	lbs.	*kg*	lbs.	*kg*	lbs.	*kg*	lbs.	*kg*	lbs.	*kg*
	45,987	*20 860*	22,862	*10 370*	23,124	*10 489*	17,436	*7 909*	28,550	*12 950*
28'9"-91'0" *(8.76 m - 27.74 m)* 4-section boom	601	*253*	708	*321*	−106	*−48*	−2,280	−1 035	2,882	*1 307*
16.0 × 24.0 tires	−1,430	*−649*	−715	*−324*	−715	*−324*	−715	*−324*	−715	*−324*
Hookblock at bumper	350	*176*	577	*261*	−227	*−103*	—	—	—	—
Headache ball at bumper	325	*147*	506	*230*	−81	*−82*	—	—	—	—
Auxiliary lifting sheave	75	*34*	243	*110*	−168	*−76*	−168	*−76*	243	*110*
14' 6" *(4.42 m)* A-frame jib stowed	575	*261*	1,337	*606*	−762	*−346*	−762	*−346*	1,337	*606*
24' *(7.32 m)* lattice fly stowed	480	*218*	922	*418*	−442	*−200*	−442	*−200*	922	*418*
2-section boom and counterweight reduction	−3,956	*−1 794*	−3,632	*−1 647*	−324	*−47*	−324	*−147*	−3,632	*−1 647*

① Adjust gross vehicle weight & axle loading according to component weight.

Note: All weights are ± 3%.

Tire	Max. Axle Load @ 20 mph *(32.7 km/h)*
16.00 × 24 (16-PR)	26,200 lbs. *(11 884 kg)*
20.50 × 25 (20-PR)	28,400 lbs. *(12 882 kg)*

FMC

Lifting Capacities

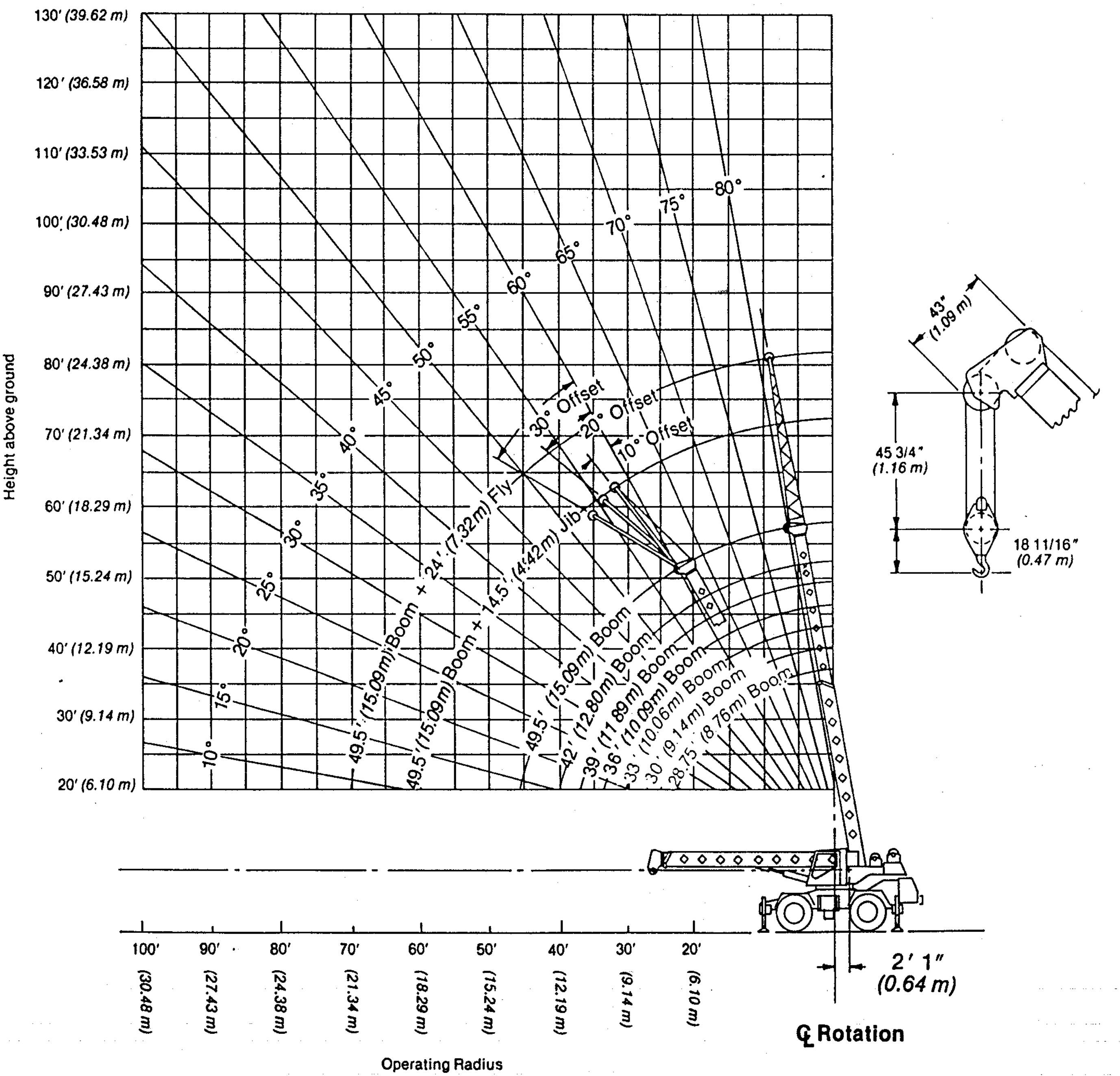
PCSA Class 15-73

Link-Belt®

Eighty Series™ Hydraulic Rough Terrain Crane

HSP-8015 15-ton *(13.60 metric ton)*

2-Section Boom



Note: Boom and fly or jib geometry shown are for unloaded condition and machine standing level on firm supporting surface. Boom deflection and subsequent radius and boom angle change must be accounted for when applying load to hook.

HSP-8015 Lifting Capacities

Refer to **Operating Instructions** page 4

28.75' *(8.76 m)*-49.5' *(15.09 m)* 2-section boom

Load radius	28.75' *(8.76 m)* 360°	28.75' Front	30.0' *(9.14 m)* 360°	30.0' Front	33.0' *(10.06 m)* 360°	33.0' Front	36.0' *(10.97 m)* 360°	36.0' Front	39.0' *(11.89 m)* 360°	39.0' Front	42.0' *(12.80 m)* 360°	42.0' Front	49.5' *(15.09 m)* 360°	49.5' Front	49.5' *(15.09 m)* boom plus 24' *(7.32 m)* fly — 73.5' *(22.40 m)* Angle	73.5' 360°	73.5' Front
Capacities On Outriggers - **2-Section Boom**																	
10' *3.05 m*	30,000 *13608*	30,000 *13608*	30,000 *13608*	30,000 *13608*	30,000 *13608*	30,000 *13608*	30,000 *13608*	30,000 *13608*	30,000 *13608*	30,000 *13608*	30,000 *13608*	30,000 *13608*	30,000 *13608*	30,000 *13608*			
12' *3.66 m*	30,000 *13608*	30,000 *13608*	30,000 *13608*	30,000 *13608*	30,000 *13608*	30,000 *13608*	30,000 *13608*	30,000 *13608*	30,000 *13608*	30,000 *13608*	30,000 *13608*	30,000 *13608*	30,000 *13608*	30,000 *13608*	78.5°	14,400 *6532*	14,400 *6532*
15' *4.57 m*	30,000 *13608*	30,000 *13608*	30,000 *13608*	30,000 *13608*	30,000 *13608*	30,000 *13608*	30,000 *13608*	30,000 *13608*	30,000 *13608*	30,000 *13608*	30,000 *13608*	30,000 *13608*	30,000 *13608*	30,000 *13608*	76.9°	12,800 *5806*	12,800 *5806*
20' *6.10 m*	25,000 *11340*	25,300 *11476*	25,000 *11340*	25,300 *11476*	25,000 *11340*	25,300 *11476*	25,000 *11340*	25,300 *11476*	25,000 *11340*	25,300 *11476*	25,000 *11340*	25,300 *11476*	25,000 *11340*	25,300 *11476*	72.5°	11,300 *5126*	11,300 *5126*
25' *7.62 m*	16,200 *7348*	19,600 *8891*	16,200 *7348*	19,600 *8891*	16,200 *7348*	19,600 *8891*	16,200 *7348*	19,600 *8891*	16,200 *7348*	19,600 *8891*	16,200 *7348*	19,600 *8891*	16,200 *7348*	19,600 *8891*	69.0°	9,900 *4491*	9,900 *4491*
30' *9.14 m*					11,700 *5307*	14,900 *6759*	11,700 *5307*	14,900 *6759*	11,700 *5307*	14,900 *6759*	11,700 *5307*	14,900 *6759*	11,700 *5307*	14,900 *6759*	65.0°	8,700 *3946*	8,700 *3946*
35' *10.67 m*									9,000 *4082*	11,600 *5262*	9,000 *4082*	11,600 *5262*	9,000 *4082*	11,600 *5262*	60.4°	7,900 *3583*	7,900 *3583*
40' *12.19 m*													7,300 *3311*	9,400 *4264*	55.5°	6,100 *2767*	6,100 *2767*
45' *13.72 m*													5,900 *2676*	7,700 *3493*	50.5°	4,900 *2223*	4,900 *2223*
50' *15.24 m*															45.5°	4,100 *1860*	4,100 *1860*
55' *16.76 m*															39.5°	3,600 *1633*	3,600 *1633*
60' *18.29 m*															31.5°	2,900 *1315*	2,900 *1315*
65' *19.81 m*															23.0°	2,100 *953*	2,100 *953*

① Capacities are determined by boom angle only.

Tire Inflation

Tires	PR	Stationary	'Pick & Carry'
14.00 x 24	16	90 p.s.i. *(6.20 Bars)*	90 p.s.i. *(6.20 Bars)*
16.00 x 24	16	80 p.s.i. *(5.52 Bars)*	80 p.s.i. *(5.52 Bars)*
20.50 x 25	20	80 p.s.i. *(5.52 Bars)*	80 p.s.i. *(5.52 Bars)*

Line Speeds and Pulls

Wire Rope Layer	Speed	Main or auxiliary winch 12" *(0.30 m)* drum — Line Speeds (fpm)	*(m/min)*	Available Line Pulls (Lbs.)	*(Kgs.)*	Main or auxiliary winch 13.25" *(0.34 m)* drum — Line Speeds (fpm)	*(m/min)*	Available Line Pulls (Lbs.)	*(Kgs.)*
1	Low	161	*49.07*	9,600	*4355*	177	*53.95*	9,015	*4089*
	High①	287	*87.48*	5,510	*2499*	315	*96.01*	5,020	*2277*
2	Low	175	*53.34*	9,090	*4123*	191	*58.22*	8,350	*3787*
	High①	313	*95.40*	5,060	*2295*	341	*103.94*	4,650	*2109*
3	Low	190	*57.91*	8,400	*3810*	205	*62.48*	7,770	*3524*
	High①	339	*103.33*	4,680	*2123*	366	*111.56*	4,330	*1964*
4	Low	204	*62.18*	7,810	*3543*	219	*66.75*	7,270	*3298*
	High①	365	*111.25*	4,340	*1969*	391	*119.18*	4,050	*1837*
5	Low	218	*66.45*	7,290	*3307*	233	*71.02*	6,830	*3098*
	High①	390	*118.87*	4,060	*1842*	417	*127.10*	3,800	*1724*
6	Low	233	*71.02*	6,840	*3103*	246	*74.98*	6,440	*2921*
	High①	416	*126.80*	3,810	*1728*	443	*135.03*	3,590	*1628*

① Two-speed motor optional

HSP-8015 Lifting Capacities

28.75′ *(8.76 m)*-49.5′ *(15.09 m)* 2-section boom

Refer to **Operating Instructions** page 4

Capacities① On Tires② – 2-Section Boom										
		20.50 x 25 *(20-PR)*			**16.00 x 24** *(16-PR)*			**14.00 x 24** *(16-PR)*		
		Pick & Carry③	**Stationary**		**Pick & Carry③**	**Stationary**		**Pick & Carry③**	**Stationary**	
Load Radius	**Max. Boom Length**	**Front**	**360°**	**Front**	**Front**	**360°**	**Front**	**Front**	**360°**	**Front**
10′ *3.05m*	28.75′ *8.76m*	30,000 *13 608*	19,400 *8 800*	30,000 *13 608*	30,000 *13 608*	17,600 *7983*	30.000 *13 608*	24,800 *11 249*	17,400 *7893*	25,100 *11 385*
12′ *3.66m*	28.75′ *8.76m*	27,200 *12 338*	14,500 *6 577*	27,200 *12 338*	26,900 *12 202*	13,100 *5 942*	26,900 *12 202*	21,500 *9 752*	13,000 *5 897*	22,200 *10 070*
15′ *4.57m*	28.75′ *8.76m*	20,800 *9 435*	10,200 *4 627*	20,800 *9 435*	20,300 *9 208*	9,200 *4 173*	20,300 *9 208*	17,800 *8 074*	9,100 *4 128*	18,800 *8 528*
20′ *6.10m*	30.0′ *9.14m*	13,000 *5 897*	6,400 *2 903*	13,000 *5 897*	12,600 *5 715*	5,800 *2 631*	12,600 *5 715*	12,400 *5 625*	5,700 *2 586*	12,400 *5 625*
25′ *7.62m*	33.0′ *10.06m*	9,000 *4 082*	4,300 *1 950*	9,000 *4 082*	8,800 *3 992*	3,800 *1 724*	8,800 *3 992*	8,600 *3 901*	3,700 *1 678*	8,600 *3 901*
30′ *9.14m*	36.0′ *10.97m*	6,800 *3 084*	3,000 *1 361*	6,800 *3 084*	6,600 *2 994*	2,700 *1 225*	6,600 *2 994*	6,400 *2 903*	2,600 *1 179*	6,400 *2 903*
35′ *10.67m*	42.0′ *12.80m*	5,300 *2 404*	2,300 *1 043*	5,300 *2 404*	5,100 *2 313*	2,000 *907*	5,100 *2 313*	5,000 *2 268*	1,900 *862*	5,000 *2 268*
40′ *12.19m*	49.5′ *15.09m*	4,300 *1 950*	1,700 *771*	4,300 *1 950*	4,200 *1 905*	1,500 *680*	4,200 *1 905*	4,100 *1 860*	1,400 *635*	4,100 *1 860*
45′ *13.72m*	49.5′ *15.09m*	3,500 *1 588*	1,200 *544*	3,500 *1 588*	3,300 *1 497*	1,000 *454*	3,300 *1 497*	3,300 *1 497*	1,000 *454*	3,300 *1 497*

① Off main boom head only.
② Refer to tire inflation chart.
③ See Operating Instructions: Set-up Note Number 3.

Jib Capacities			
14.5′ *(4.42 m)* **A-Frame Jib**			
Boom angle	**Jib Offset**		
	10°	**20°**	**30°**
80°	11,500* *5216*	8,700 *3 946*	5,900 *2 676*
75°	9,900* *4 491*	7,800 *3 538*	5,100 *2 313*
70°	8,500 *3 856*	6,700 *3 039*	4,600 *2 087*
65°	7,600 *3 447*	6,100 *2 767*	4,400 *1 996*
60°	7,000 *3 175*	5,500 *2 495*	4,000 *1 814*
55°	5,400 *2 449*	4,900 *2 223*	3,800 *1 724*
50°	4,500 *2 041*	4,000 *1 814*	3,600 *1 633*
45°	3,600 *1 633*	3,300 *1 497*	3,200 *1 452*
40°	3,100 *1 406*	2,900 *1 315*	2,800 *1 270*
35°	2,700 *1 225*	2,700 *1 225*	2,700 *1 225*
30°	2,200 *998*	2,200 *998*	2,200 *998*

* 11,500 & 9,900 lb. capacitiy require two parts line. All other capacities must be picked using one part of line.

Capacity Deductions for Auxiliary Load Handling Equipment	
Aux. Head	100 lb. (45.36 kg)
Fly Stowed	300 lb. (136.08 kg)
Fly Erected	800 lb. (362.88 kg)
Jib Stowed	500 lb. (226.8 kg)
Jib Erected	800 lb. (362.88 kg)

Drum wire rope capacities

Wire Rope Layer	Main or auxiliary winch 12″ *(0.30 m)* root diameter smooth lagging				Main or auxiliary winch 13.25″ *(0.34 m)* root diameter grooved lagging*			
	Wire Rope Diameter = 0.5625 In. *(14.3 mm)*				Wire Rope Diameter = 0.5625 In. *(14.3 mm)*			
	Capacity				Capacity			
	Rope Per Layer		Total Wire Rope		Rope Per Layer		Total Wire Rope	
	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
1	82	25.0	82	25.0	94	28.7	94	28.7
2	93	28.3	175	53.3	106	32.3	200	61.0
3	101	30.8	276	84.1	109	33.2	309	94.2
4	108	32.9	384	117.0	117	35.7	426	129.8
5	112	34.1	496	151.2	125	38.1	551	167.9
6	119	36.3	615	187.5	132	40.2	683	208.2

*Optional equipment — recommended for export use only, 25:1 ratio.

Wire rope size and type

Wire rope application	Size and type used	Wire rope description
Main winch Auxiliary winch	9/16″ *(14 mm)* diameter, Type "N" 9/16″ *(14 mm)* diameter, Type "N"	Type "N" - 6 x 25 (6 x 19 class) filler wire, extra improved plow steel, preformed, independent wire rope core, right lay, regular lay.

FMC

HSP-8015 Warning and Operating Instructions

General:

1. Rated lifting capacities in pounds as shown on lift chart pertain to this machine as originally manufactured and normally equipped by FMC Corporation Construction Equipment Group. Modifications to the machine or use of optional equipment other than that specified can result in a reduction of capacity.
2. Construction equipment can be dangerous if improperly operated or maintained. Operation and maintenance of this machine must be in compliance with the information in the operator's parts and safety manuals supplied with this machine. If these manuals are missing, order replacements through the distributor.
3. The operator and other personnel associated with this machine shall fully acquaint themselves with the latest **applicable American National Standards Institute (ANSI) safety standards for cranes.**
4. The maximum allowable lifting capacities are based on machine standing level on firm supporting surface.
5. All capacities are in pounds with metric equivalent in italic.

Set-Up:

1. The machine shall be leveled on a firm supporting surface. Depending on the nature of the supporting surface, it may be necessary to have structural supports under the outrigger floats or tires to spread the load to a larger bearing surface.
2. When making lifts on outriggers, outrigger beams must be fully extended with tires free of supporting surface.
3. **Crane capacities on tires depend on tire capacity, condition of tires, and tire air pressure. on-tire picks require lifting from main boom head only on a smooth and level surface. Boom sections must be extended equally.** Pick and carry operations (creep) are restricted to a maximum speed of 1 m.p.h. and not exceeding 200 ft. in a 30 minute period. The boom must be centered over front with swinglock engaged and the load must be restrained from swinging. Lifts with fly or jib erected on tires are prohibited.

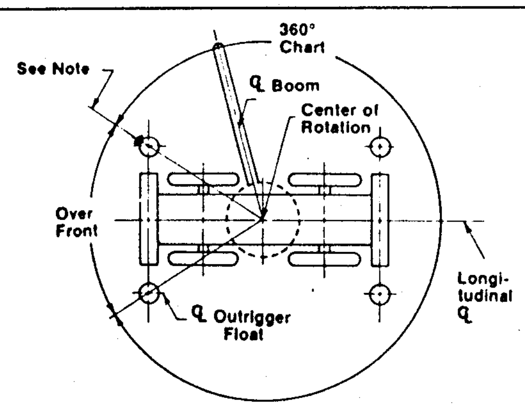
Operation:

1. Rated lifting capacities at rated radius shall not be exceeded. Do not tip machine to determine allowable load. For concrete bucket operation, weight of bucket and load shall not exceed 80% of rated lifting capacity. For clamshell bucket operation, weight of bucket and bucket content **is restricted to a maximum weight of 5,000 pounds or 80% of rated lifting capacity, whichever is less. For magnet operation, weight of magnet and load is restricted to a maximum weight of 5,000 pounds or 80% of rated lifting capacity, whichever is less. For clamshell and magnet operation, maximum boom length is restricted to** 46 feet and the boom angle is restricted to a minimum of 35°. The fly is prohibited and the jib is prohibited for both clam and magnet operation.
2. Crane capacities on outriggers do not exceed 85% of the tipping loads and capacities on tires do not exceed 75% **of the tipping loads as determined by SASE Crane Stability Test Code J-765a.**
3. The crane capacities above the bold lines are based on structural strength or hydraulic limitations.
4. Rated lifting capacities include the weight of hook block, **slings, bucket, magnet ahd auxiliary lifting devices. Their weights must be subtracted from the listed rated load to obtain the net load to be lifted. See also deductions for auxiliary head, fly and jib.**
5. Rated lifting capacities are based on freely suspended loads. No attempt shall be made to move a load horizontally on the ground in any direction.
6. Rated lifting capacities are for lift crane service only.
7. Do not operate at radii or boom lengths where capacities are not listed. At these positions, the machine can overturn without any load on the hook.
8. The maximum loads which can be telescoped are not definable because of variation in loadings and crane maintenance, but it is permissible to attempt retraction and extension within the limits of the load rating chart.
9. When either boom length or radius or both are between values listed, the smallest load shown at either the next larger radius or boom length shall be used.
10. The user shall operate at reduced ratings to allow for adverse job conditions such as: soft or uneven ground, out of level conditions, wind, side loads, pendulum action, jerking or sudden stopping of loads, hazardous conditions, experience of personnel, two machine lifts, traveling with loads, electrical wires, etc. Side load on boom, fly or jib is extremely dangerous.
11. When making lifts with auxiliary head machinery, the effective length of the boom increases by 2 ft. *(.61 m)*. Effective length of boom is length shown on boom length indicator plus 2 ft. *(.61 m)*.
12. For boom lengths with fly less than 73.5' *(22.4 m)*, the rated loads are determined by boom angle only in the column headed by 73.5' *(22.4 m)*. For angles not shown, use the next lower boom angle to determine allowable capacity.
13. The 28.75 ft. boom length capacities are based on boom **fully retracted. If not fully retracted, do not exceed ratings for the 30 ft. boom length.**
14. The 14.5 ft. jib capacities are based on main boom angle regardless of main boom length. For angles not shown use next lower boom angle to determine allowable capacities. Capacity values are for 360° operation.

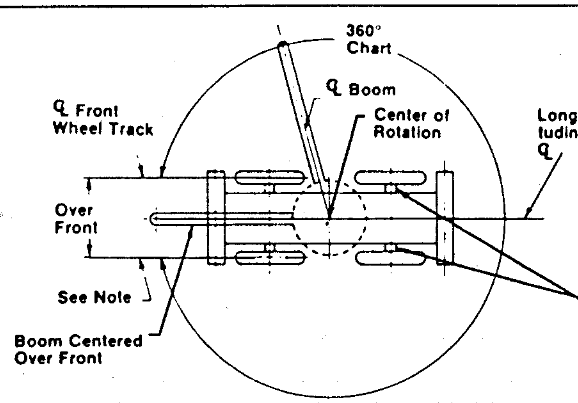
Definitions:

1. Load Radius: Horizontal distance from a projection of the axis of rotation to the supporting surface before loading to the center of the vertical hoist line or tackle with load applied.
2. Loaded Boom Angle: The angle between the boom base section and the horizontal after lifting the load at the rated radius. The boom angle, before loading, should be greater to account for deflections.
3. **Working Area: Area measured in a circular arc about the centerline of rotation as shown on the working area diagram.**
4. Freely Suspended Load: Load hanging free with no direct external force applied except by the hoist line.
5. Side Load. Horizontal side force applied to the lifted load either on the ground or in the air.

HSP-8015 Working Areas



On Outriggers



On Tires

Rear axle oscillation lockouts must be engaged for 360° operation

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

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

FMC Corporation Construction Equipment Group Lexington Kentucky 40512

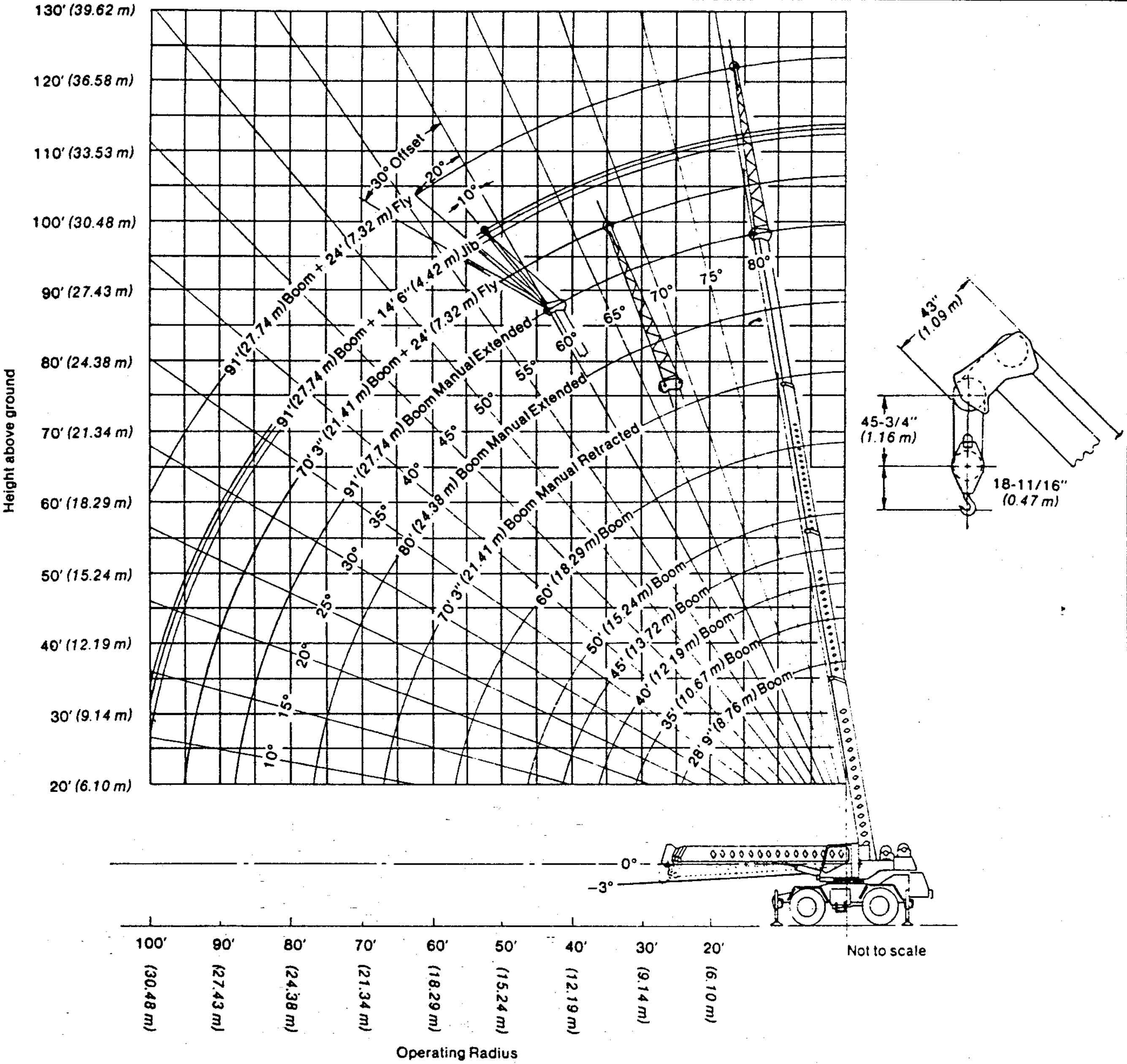
MEMBER PCSA

Lifting Capacities
Hydraulic Rough Terrain Crane

P.C.S.A. Class 15-68

HSP-8015 15-ton *(13.60 metric ton)*

4-Section Boom



Note: Boom and fly and jib geometry shown are for unloaded condition and machine standing level on firm supporting surface. Boom deflection and subsequent radius and boom angle change must be accounted for when applying load to hook.

HSP-8015 Lifting Capacities

Refer to **Operating Instructions** page 4

28.75' *(8.76 m)*-91.0' *(27.74 m)* 4-section boom

Capacities On Outriggers① – Manual Section Retracted

Load radius	28.75' *(8.76 m)* 360°	28.75' *(8.76 m)* Front	35.0' *(10.67 m)* 360°	35.0' *(10.67 m)* Front	40.0' *(12.19 m)* 360°	40.0' *(12.19 m)* Front	45.0' *(13.72 m)* 360°	45.0' *(13.72 m)* Front	50.0' *(15.24 m)* 360°	50.0' *(15.24 m)* Front	60.0' *(18.29 m)* 360°	60.0' *(18.29 m)* Front	70.25' *(21.41 m)* 360°	70.25' *(21.41 m)* Front	70.25' *(21.41 m)* Boom with 24' *(7.32 m)* Fly – 94.25' *(28.72 m)*② Angle	94.25' 360°	94.25' Front
10' *3.05 m*	30,000 *13 608*	30,000 *13 608*	30,000 *13 608*	30,000 *13 608*	30,000 *13 608*	30,000 *13 608*	30,000 *13 608*	30,000 *13 608*	30,000 *13 608*	30,000 *13 608*							
12' *3.66 m*	30,000 *13 608*	30,000 *13 608*	30,000 *13 608*	30,000 *13 608*	30,000 *13 608*	30,000 *13 608*	30,000 *13 608*	30,000 *13 608*	30,000 *13 608*	30,000 *13 608*	30,000 *13 608*	30,000 *13 608*					
15' *4.57 m*	30,000 *13 608*	30,000 *13 608*	30,000 *13 608*	30,000 *13 608*	30,000 *13 608*	30,000 *13 608*	30,000 *13 608*	30,000 *13 608*	30,000 *13 608*	30,000 *13 608*	27,800 *12610*	27,800 *12610*	20,800 *9435*	20,800 *9435*			
20' *6.10 m*	25,300 *11 476*	25,300 *11 476*	25,300 *11 476*	25,300 *11 476*	25,300 *11 476*	25,300 *11 476*	25,300 *11 476*	25,300 *11 476*	25,300 *11 476*	25,300 *11 476*	22,400 *10 161*	22,400 *10 161*	20,000 *9072*	20,000 *9072*	78.5°	14,400 *6 532*	14,400 *6 532*
25' *7.62 m*	17,400 *7893*	19,000 *8618*	17,400 *7893*	19,000 *8618*	17,400 *7893*	19,000 *8618*	17,400 *7893*	19,000 *8618*	17,400 *7893*	19,000 *8618*	17,400 *7893*	18,200 *8 256*	17,100 *7757*	17,100 *7757*	75.5°	12,800 *5 806*	12,800 *5 806*
30' *9.14 m*			12,200 *5 534*	15,100 *6 849*	12,200 *5 534*	15,100 *6 849*	12,200 *5 534*	15,100 *6 849*	12,200 *5 534*	15,100 *6 849*	12,200 *5 534*	15,100 *6 849*	12,200 *5534*	14,000 *6350*	72.5°	11,300 *5 126*	11,300 *5 126*
35' *10.67 m*					9,000 *4 082*	11,500 *5216*	9,000 *4 082*	11,500 *5216*	9,000 *4 082*	11,500 *5216*	9,000 *4 082*	11,500 *5216*	9,000 *4 082*	11,500 *5216*	69.0°	9,900 *4 491*	9,900 *4 491*
40' *12.19 m*							6,800 *3 084*	8,900 *4 037*	6,800 *3 084*	8,900 *4 037*	6,800 *3 084*	8,900 *4 037*	6,800 *3 084*	8,900 *4 037*	66.0°	8,000 *3629*	8,700 *3946*
45' *13.72 m*									5,200 *2359*	7,100 *3221*	5,200 *2359*	7,100 *3221*	5,200 *2359*	7,100 *3221*	62.5°	6,400 *2903*	7,900 *3583*
50' *15.24 m*											4,100 *1 860*	5,700 *2 586*	4,100 *1 860*	5,700 *2 586*	58.5°	5,100 *2313*	6,700 *3039*
55' *16.76 m*											3,100 *1 406*	4,500 *2041*	3,100 *1 406*	4,500 *2041*	55.0°	4,200 *1 905*	5,600 *2540*
60' *18.29 m*													2,400 *1 089*	3,700 *1 678*	51.0°	3,400 *1 542*	4,700 *2 132*
65' *19.81 m*													1,700 *771*	2,900 *1 315*	46.5°	2,700 *1 225*	3,900 *1 769*
70' *21.34 m*															42.0°	2,200 *998*	3,300 *1497*
75' *22.86 m*															36.5°	1,700 *771*	2,700 *1225*
80' *24.38 m*															31.0°	1,300 *590*	2,300 *1 043*
90' *27.43 m*															13.5°		1,500 *680*

① Boom sections must be extended equal distances.

② Intermediate capacities for boom plus fly are permissible; See Operating Instructions Number 14.

Wire rope size and type

Wire rope application	Size and type used	Wire rope description
Main winch Auxiliary winch	9/16" *(14 mm)* diameter, Type "N" 9/16" *(14 mm)* diameter, Type "N"	Type "N" - 6 x 25 (6 x 19 class) filler wire, extra improved plow steel, preformed, independent wire rope core, right lay, regular lay.

Tire Inflation

Tires	PR	Stationary	'Pick & Carry'
16.00 x 24	16	80 p.s.i. *(5.52 Bars)*	80 p.s.i. *(5.52 Bars)*
20.50 x 25	20	80 p.s.i. *(5.52 Bars)*	80 p.s.i. *(5.52 Bars)*

Line Speeds and Pulls

Wire Rope Layer	Speed	Main or auxiliary winch 12" *(0.30 m)* drum – Line Speeds (fpm)	Line Speeds *(m/min)*	Available Line Pulls (Lbs.)	Available Line Pulls *(Kgs.)*	Main or auxiliary winch 13.25" *(0.34 m)* drum – Line Speeds (fpm)	Line Speeds *(m/min)*	Available Line Pulls (Lbs.)	Available Line Pulls *(Kgs.)*
1	Low	161	*49.07*	9,600	*4355*	177	*53.95*	9,015	*4089*
	High①	287	*87.48*	5,510	*2499*	315	*96.01*	5,020	*2277*
2	Low	175	*53.34*	9,090	*4123*	191	*58.22*	8,350	*3787*
	High①	313	*95.40*	5,060	*2295*	341	*103.94*	4,650	*2109*
3	Low	190	*57.91*	8,400	*3810*	205	*62.48*	7,770	*3524*
	High①	339	*103.33*	4,680	*2123*	366	*111.56*	4,330	*1964*
4	Low	204	*62.18*	7,810	*3543*	219	*66.75*	7,270	*3298*
	High①	365	*111.25*	4,340	*1969*	391	*119.18*	4,050	*1837*
5	Low	218	*66.45*	7,290	*3307*	233	*71.02*	6,830	*3098*
	High①	390	*118.87*	4,060	*1842*	417	*127.10*	3,800	*1724*
6	Low	233	*71.02*	6,840	*3103*	246	*74.98*	6,440	*2921*
	High①	416	*126.80*	3,810	*1728*	443	*135.03*	3,590	*1628*

① Two-speed motor optional

Refer to **Operating Instructions** page 4

Capacities On Outriggers① – **Manual Section Extended**

Load radius	80.0′ *(24.38 m)*②			91.0′ *(27.74 m)*②			91.0′ *(27.74 m)* Boom With 24′ *(7.32 m)* Fly — 115.0′ *(35.05 m)*③		
	Angle	360°	Front	Angle	360°	Front	Angle	360°	Front
15′ *4.57 m*	80.0°	22,600 *10 251*	22,600 *10 251*						
20′ *6.10 m*	76.5°	18,700 *8 482*	18,700 *8 482*	79.0°	16,600 *7 530*	16,600 *7 530*			
25′ *7.62 m*	73.0°	15,800 *7 167*	15,800 *7 167*	76.0°	14,400 *6 532*	14,400 *6 532*	79.0°	9,000 *4 082*	9,000 *4 082*
30′ *9.14 m*	69.0°	13,600 *6 169*	13,700 *6 214*	72.5°	12,300 *5 579*	12,300 *5 579*	77.0°	8,900 *4 037*	8,900 *4 037*
35′ *10.67 m*	65.0°	10,200 *4 627*	12,000 *5 443*	69.0°	10,100 *4 581*	10,600 *4 808*	74.5°	7,900 *3 583*	7,900 *3 583*
40′ *12.19 m*	61.0°	8,000 *3 629*	10,100 *4 581*	65.5°	7,900 *3 583*	9,200 *4 173*	72.0°	7,000 *3 175*	7,000 *3 175*
45′ *13.72 m*	56.5°	6,400 *2 903*	8,200 *3 720*	62.0°	6,300 *2 858*	8,100 *3 674*	69.5°	6,200 *2 812*	6,200 *2 812*
50′ *15.24 m*	51.5°	5,100 *2 313*	6,700 *3 039*	58.0°	5,000 *2 268*	6,600 *2 994*	66.5°	5,500 *2 495*	5,500 *2 495*
55′ *16.76 m*	46.5°	4,200 *1 905*	5,600 *2 540*	54.0°	4,000 *1 814*	5,500 *2 495*	63.5°	4,600 *2 087*	4,900 *2 223*
60′ *18.29 m*	41.5°	3,400 *1 542*	4,700 *2 132*	50.0°	3,300 *1 497*	4,600 *2 087*	61.0°	3,800 *1 724*	4,400 *1 996*
65′ *19.81 m*	35.0°	2,700 *1 225*	3,900 *1 769*	45.0°	2,600 *1 179*	3,800 *1 724*	58.0°	3,100 *1 406*	3,900 *1 769*
70′ *21.34 m*	27.5°	2,200 *998*	3,300 *1 497*	40.0°	2,100 *953*	3,200 *1 452*	54.5°	2,600 *1 179*	3,500 *1 588*
75′ *22.86 m*	17.5°	1,700 *771*	2,700 *1 225*	34.5°	1,600 *726*	2,600 *1 179*	51.5°	2,100 *953*	3,100 *1 406*
80′ *24.38 m*				28.0°	1,200 *544*	2,200 *998*	47.5°	1,700 *771*	2,700 *1 225*
90′ *27.43 m*							40.0°	1,100 *499*	1,900 *862*
100′ *30.48 m*							30.0°		1,300 *590*

① Boom sections must be extended equal distances.
② Intermediate capacities for boom with manual extended are permissible; See Operating Instructions Number 13.
③ Intermediate capacities for boom plus fly are permissible; See Operating Instructions Number 14.

Jib Capacities

14.5′ *(4.42 m)* A-Frame Jib

Boom angle	Jib Offset 10°	20°	30°
80°	10,000* *4 536*	8,500 *3 856*	5,900 *2 676*
75°	9,000 *4 082*	7,600 *3 447*	5,100 *2 313*
70°	7,000 *3 175*	6,500 *2 948*	4,600 *2 087*
65°	5,100 *2 313*	5,000 *2 268*	4,400 *1 996*
60°	4,100 *1 860*	3,900 *1 769*	3,600 *1 633*
55°	2,900 *1 315*	2,900 *1 315*	2,700 *1 225*
50°	1,800 *816*	1,800 *816*	1,800 *816*
45°	1,500 *680*	1,500 *680*	1,500 *680*
40°	1,100 *499*	1,100 *499*	1,100 *499*

*10,000 lb. capacity requires two parts of line. All other capacities must be picked using one part of line.

Capacity Deductions for Auxiliary Load Handling Equipment	
Aux. Head	100 lb. (45.36 kg)
Fly Stowed	300 lb. (136.08 kg)
Fly Erected	800 lb. (362.88 kg)
Jib Stowed	500 lb. (226.8 kg)
Jib Erected	800 lb. (362.88 kg)

Capacities① On Tires② – **4-Section Boom**

Load Radius	Max. Boom Length	16.00 x 24 (16-PR) Pick & Carry③	16.00 x 24 (16-PR) Stationary		20.50 x 25 (20-PR) Pick & Carry③	20.50 x 25 (20-PR) Stationary	
		Front	360°	Front	Front	360°	Front
10′ *3.05m*	28.75′ *8.76m*	28,700 *13 018*	19,700 *8 936*	28,700 *13 018*	29,700 *13 472*	21,300 *9 662*	29,700 *13 472*
12′ *3.66m*	28.75′ *8.76m*	24,800 *11 249*	14,500 *6 577*	25,300 *11 476*	25,700 *11 658*	15,600 *7 076*	26,100 *11 839*
15′ *4.57m*	28.75′ *8.76m*	20,300 *9 208*	9,900 *4 491*	20,600 *9 344*	21,000 *9 526*	10,700 *4 854*	21,400 *9 707*
20′ *6.10m*	28.75′ *8.76m*	12,800 *5 806*	5,700 *2 586*	12,800 *5 806*	13,300 *6 033*	6,200 *2 812*	13,300 *6 033*
25′ *7.62m*	28.75′ *8.76m*	8,400 *3 810*	3,400 *1 542*	8,400 *3 810*	8,800 *3 992*	3,700 *1 678*	8,800 *3 992*
30′ *9.14m*	35.0′ *10.67m*	5,900 *2 676*	2,000 *907*	5,900 *2 676*	6,200 *2 812*	2,300 *1 043*	6,200 *2 812*
35′ *10.67m*	40.0′ *12.19m*	4,200 *1 905*	1,100 *499*	4,200 *1 905*	4,500 *2 041*	1,300 *590*	4,500 *2 041*
40′ *12.19m*	45.0′ *13.72m*	3,100 *1 406*	—	3,100 *1 406*	3,200 *1 452*	—	3,200 *1 452*
45′ *13.72m*	50.0′ *15.24m*	2,200 *998*	—	2,200 *998*	2,300 *1 043*	—	2,300 *1 043*
50′ *15.24m*	60.0′ *18.29m*	1,500 *680*	—	1,500 *680*	1,600 *726*	—	1,600 *726*
55′ *16.76m*	60.0′ *18.29m*				1,100 *499*	—	1,100 *499*

① Off main boom head only. Boom sections must be extended equal distances.
② Refer to tire inflation chart.
③ See Operating Instructions; Set-up Note Number 3.

Drum Wire Rope Capacities

Wire Rope Layer	Main or auxiliary winch 12″ *(0.30 m)* root diameter smooth lagging — Wire Rope Diameter = 0.5625 in. *(14.3 mm)* — Capacity				Main or auxiliary winch 13.25″ *(0.34 m)* root diameter grooved lagging* — Wire Rope Diameter = 0.5625 in. *(14.3 mm)* — Capacity			
	Rope Per Layer		Total Wire Rope		Rope Per Layer		Total Wire Rope	
	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
1	82	25.0	82	25.0	94	28.7	94	28.7
2	93	28.3	175	53.3	106	32.3	200	61.0
3	101	30.8	276	84.1	109	33.2	309	94.2
4	108	32.9	384	117.0	117	35.7	426	129.8
5	112	34.1	496	151.2	125	38.1	551	167.9
6	119	36.3	615	187.5	132	40.2	683	208.2

*Optional equipment — recommended for export use only, 25:1 ratio.

Link-Belt
CONSTRUCTION EQUIPMENT

HSP-8015 Warning and Operating Instructions

General:

1. Rated lifting capacities in pounds as shown on lift chart pertain to this machine as originally manufactured and normally equipped by FMC Corporation Construction Equipment Group. Modifications to the machine or use of optional equipment other than that specified can result in a reduction of capacity.
2. Construction equipment can be dangerous if improperly operated or maintained. Operation and maintenance of this machine must be in compliance with the information in the operator's, parts and safety manuals supplied with this machine. If these manuals are missing, order replacemants through the distributor.
3. The operator and other personnel associated with this machine shall fully acquaint themselves with the latest applicable American National Standards Institute (ANSI) safety standards for cranes.
4. The maximum allowable lifting capacities are based on machine standing level on firm supporting surface.
5. All capacities are in pounds with metric equivalent in italic.

Set-Up:

1. The machine shall be leveled on a firm supporting surface. Depending on the nature of the supporting surface, it may be necessary to have structural supports under the outrigger floats or tires to spread the load to a larger bearing surface.
2. When making lifts on outriggers, outrigger beams must be fully extended with tires free of supporting surface.
3. Crane Capacities on tires depend on tire capacity, condition of tires, and tire air pressure. On-tire picks require lifting from main boom head only on a smooth and level surface. Boom sections must be extended equally. Pick and carry operations (creep) are restricted to a maximum speed of 1 m.p.h. and not exceeding 200 ft. in a 30 minute period. The boom must be centered over front with swinglock engaged and the load must be restrained from swinging. Lifts with manual extended or Fly or Jib erected on tires are prohibited.

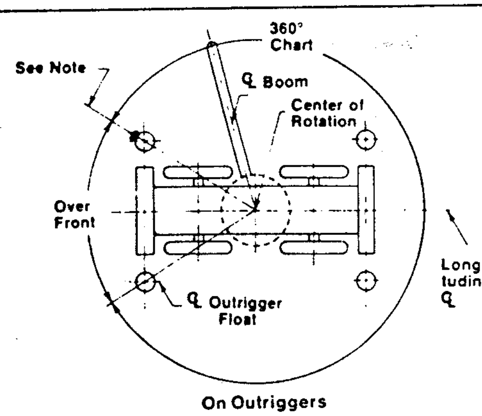
Operation:

1. Rated lifting capacities at rated radius shall not be exceeded. Do not tip machine to determine allowable load. For concrete bucket operation, weight of bucket and load shall not exceed 80% of rated lifting capacity. For clamshell bucket operation, weight of bucket and bucket content is restricted to a maximum weight of 5,000 pounds or 80% of rated lifting capacity, whichever is less. For magnet operation, weight of magnet and load is restricted to a maximum weight of 5,000 pounds or 80% of rated lifting capacity, whichever is less. For clamshell and magnet operation, maximum boom length is restricted to 45 feet and the boom angle is restricted to a minimum of 35°. Manual extended, fly and jib are all prohibited for both clam and magnet operation.
2. Crane capacities on outriggers do not exceed 85% of the tipping loads and capacities on tires do not exceed 75% of the tipping loads as determined by SAE Crane Stability Test Code J-765-a.
3. The crane capacities above the bold lines are based on structural strength or hydraulic limitations.
4. Rated lifting capacities include the weight of hook block, slings, bucket, magnet and auxiliary lifting devices. Their weights must be subtracted from the listed rated load to obtain the net load to be lifted. See also deductions for auxiliary head, fly and jib.
5. Rated lifting capacities are based on freely suspended loads. No attempt shall be made to move a load horizontally on the ground in any direction.
6. Rated lifting capacities are for lift crane service only.
7. Do not operate at radii or boom lengths where capacities are not listed. At these positions, the machine can overturn without any load on the hook.
8. The maximum loads which can be telescoped are not definable because of variation in loadings and crane maintenance, but it is permissible to attempt retraction and extension within the limits of the load rating chart.
9. When either boom length or radius or both are between values listed, the smallest load shown at either the next larger radius or boom length shall be used.
10. The user shall operate at reduced ratings to allow for adverse job conditions such as: soft or uneven ground, out of level conditions, wind, side loads, pendulum action, jerking or sudden stopping of loads, hazardous conditions, experience of personnel, two machine lifts, traveling with loads, electrical wires, etc. Side load on boom, fly or jib is extremely dangerous.
11. When making lifts with auxiliary head machinery, the effective length of the boom increases by 2 feet. Effective length of boom is length shown on boom length indicator plus 2 feet.
12. Power sections must be extended equally.
13. For boom lengths less than 80 ft. or between 80 ft. and 91 ft. with manual extended, the rated loads are determined by boom angle only in the column headed by 80 ft. or 91 ft., respectively. For angles not shown, use next lower boom angle to determine allowable capacity.
14. For boom lengths with fly less than 94.25 ft. with manual retracted or less than 115 ft. with manual extended, the rated loads are determined by boom angle only in the column headed by 94.25 ft. or 115 ft., respectively. For angles not shown, use next lower boom angle to determine allowable capacity.
15. Do not lower 91 ft. boom length below 14°. Do not lower 70.25 ft. boom with 14.5 ft. jib or 24 ft. fly below 19°. Do not lower 91 ft. boom with 14.5 ft. jib or 24 ft. fly below 32°. Failure to follow note 15 will result in a tipping condition.
16. The 14.5 ft. jib capacities are based on main boom angle regardless of main boom length. For angles not shown, use next lower boom angle to determine allowable capacity. Capacity values are for 360° operation.
17. The 28.75 ft. boom length capacities are based on boom fully retracted. If not fully retracted, do not exceed ratings for the 35 ft. boom length.

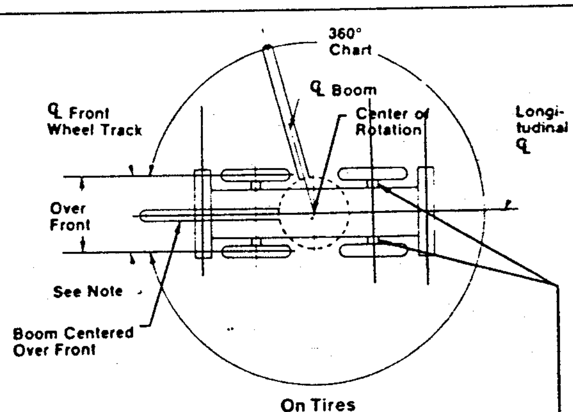
Definitions:

1. Load Radius: Horizontal distance from a projection of the axis of rotation to the supporting surface before loading to the center of the vertical hoist line or tackle with load applied.
2. Loaded Boom Angle: The angle between the boom base section and the horizontal after lifting the load at the rated radius. The boom angle, before loading, should be greater to account for deflections.
3. Working Area: Area measured in a circular arc about the centerline of rotation as shown on the working area diagram.
4. Freely Suspended Load: Load hanging free with no direct external force applied except by the hoist line.
5. Side Load: Horizontal side force applied to the lifted load either on the ground or in the air.

HSP-8015 Working Areas



On Outriggers



On Tires

Rear axle oscillation lockouts must be engaged for 360° operation

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

Link-Belt Construction Equipment Company Lexington, Kentucky