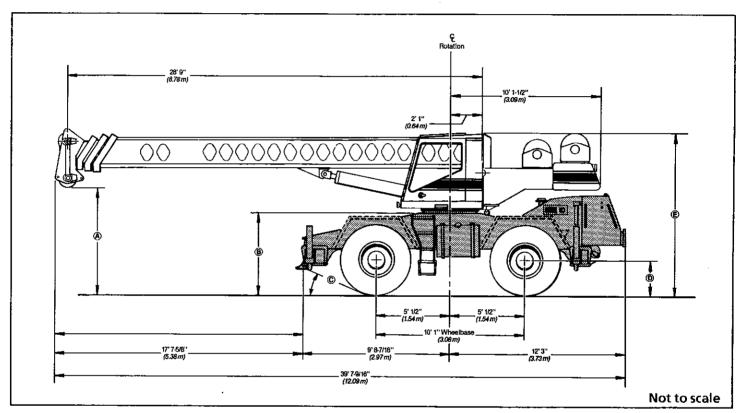


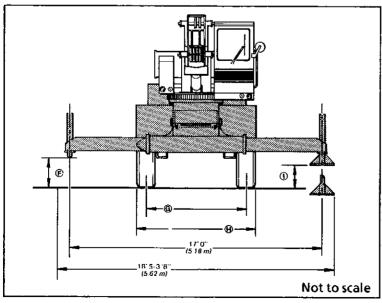
Specifications

Hydraulic Rough Terrain Crane

HSP-8028S

28-ton (25.42 metric ton)





General dimensions	Feet	Meters
Turning Radius (4-wheel steer - centerline of track) Tailswing of counterweight:	14' 11" 10' 6"	4.54 3.20

Dimensions affected by tires

Tires	16.0 X 24 (16-PR)	20.5 X 25 (20-PR)			
	Feet	meters	Feet	meters		
Α	-	_	8'3/4"	2.46		
В	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	11'2-3/4"	3.42		
F	20-1/8"	0.51	21"	0.53		
G	6'6-7/16"	1.99	6'11-7/16"	2.12		
н	8'0"	2.44	8'8-13/16"	2.66		
- 1	12-1/8"	0.31	13"	0.33		

Upperstructure

Boom

Patented Design. 28'9"—70'3" (8.76 m—21.41 m) three-section boom with two power sections. 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 with audio visual warning.

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 with two power sections and one manual section.

Boom head — 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 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°. Boom angle indicator standard.

Fly

Optional — 24' 0" (7.32 m) stowable onepiece lattice type.

Jib

Optional — 14'6" (4.42 m) stowable Aframe. 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-bydoor 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 lock — Standard two position pin-type (over front and rear) operated from the operator's cab.

Counterweight — Bolted to upperstructure frame.

Hydraulic system

Main pump — Double gear type pump. 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. 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 10-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 twospeed motor and automatic brake, power up/power down mode of operation. Bidirectional, gear-type hydraulic motor.

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

Line pulls and speeds — Maximum permissible line pull 9,600 lbs. (4 355 kg) and maximum permissible line speed of 416 f.p.m. (126.80 mlmin) on standard 12" (0.30 m) root diameter smooth drum. Maximum permissible line pull 9,015 lbs. (4 089 kg) and maximum permissible line speed 443 f.p.m. (135.03 mlmin) on optional 13-1/4" (0.34 m) diameter grooved drum.

Miscellaneous standard equipment

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

Optional upperstructure equipment

360° house lock, electronic boom angle/length indicator, boom hoist foot control, propane heater, diesel heater, foot actuated swing brake, two-speed main winch, grooved drum, 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, anti two block with function kick-out, load moment device, 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

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.

4×2×4 — (4-wheel steer, 2-wheel drive); Optional —for flat 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 nondriving/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 upper-structure rotates past 2-1/2° of centerline.

Tires

Front and rear

Standard -- 20.5 x 25 (20-PR)

Optional -- 16.0 × 24 (16-PR)

Brake

Service — Air over hydraulic brakes on all four wheels. 17 $\frac{1}{4}$ " \times 4" (0.43 $m \times$ 0.10 m) drum brakes on each wheel.

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

Transmission

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

Steering — Hydraulic two wheel, four wheel and "crab" steering: controlled from till telescoping steering wheel.

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.

Miscellaneous standard equipment

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

Optional chassis equipment

24-volt start, 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 carrier mounted working lights.

Travel speeds and gradeability

Engine	ine Tires		imum eed	Gradeability at	Maximum tra at st		Gradeability at 1.0 mph		ctive effort at (1.61 km/h)
		mph	km/h	stall	pounds	kg.	(1.61 km/h)	pounds	kg.
GM 8.2N	16.0 ×24	18.1	29.1	186%	39,886	18 092	66%	25,148	11 407
	20.5 ×25	19.4	31.2	130%	37,090	16 824	60%	24,210	10 982
Cummins	16.0 ×24	19.4	31.2	133%	36,200	16 420	62%	23,978	10 876
V378C	20.5 ×25	20.9	33.6	104%	33,662	15 269	56%	22,922	10 397

Optional Equipment

Engine	GM 8.2N	Cummins V-378C*
Cylinders - cycle Bore Stroke Displacement Maximum brake hp Peak torque Electric system Fuel capacity Alternator Crankcase capacity Air compressor	8-4 4.25" (108.0 mm) 4.41" (112.0 mm) 500 cu. in. (8 200 cm ³) 130 @ 2800 rpm 330 ft. lbs. (447 J) 12 volt negative ground 75 gallons (283.9 L) 80 amps 12 quarts (11.4 L) 12 c.f.m. (0.34 m ³ /min)	6-4 4.62" (117.5 mm) 3.75" (95.3 mm) 378 cu. in. (6 195 cm³) 145 @ 3000 rpm 280 ft. lbs. (380 J) 12 volt negative ground 75 gallons (283.9 L) 80 amps 18 quarts (17.0 L) 13.2 c.f.m. (0.37 m³/min)



Axle loads 3-section boom

Base machine with standard 28' 9"-70' 3" (8.67 m - 21.41 m)	G.V	G.V.W. [⊚]		lpper fac	ing from	nt	Upper facing rear				
three-section boom, 385' (117.35 m) 9/16" (14 mm) wire rope, 4 × 4 × 4			Front axle		Rear axle		Front	axle	Rear axle		
carrier with GM 8.2N engine, 20.5 ×	lbs.	kgs.	lbs.	kgs.	lbs.	kgs.	lbs.	kgs.	ibs.	kgs.	
25.0 tires, counterweight.	45,987	20 860	22,862	10 370	23,124	10 489	17,436	7 909	28,550	12 950	
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	

Axle loads 4-section boom

Base machine with optional 28' 9" - 91' (8.76 m - 27.74 m) 4-section	G.V.	.W. o	U	lpper fac	ing fron	t	Upper facing rear				
boom, 400' (121.92 m) 9/16" (14 mm) wire rope, 4 × 4 × 4 carrier			Front axle		Rear axle		Front	axle	Rear axle		
with GM 8.2N engine, 20.5 × 25.0	ibs.	kgs.	lbs.	kgs.	lbs.	kgs.	lbs.	kgs.	lbs.	kgs.	
tires, counterweight.	46,588	21 113	23,570	10 691	23,018	10 441	15,156	6 874	31,432	14 257	
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	-181	-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	

O Adjust gross vehicle weight & axle loading according to component weight.
Note: All weights are ± 3%.

Link-Belt is a registered trademark.

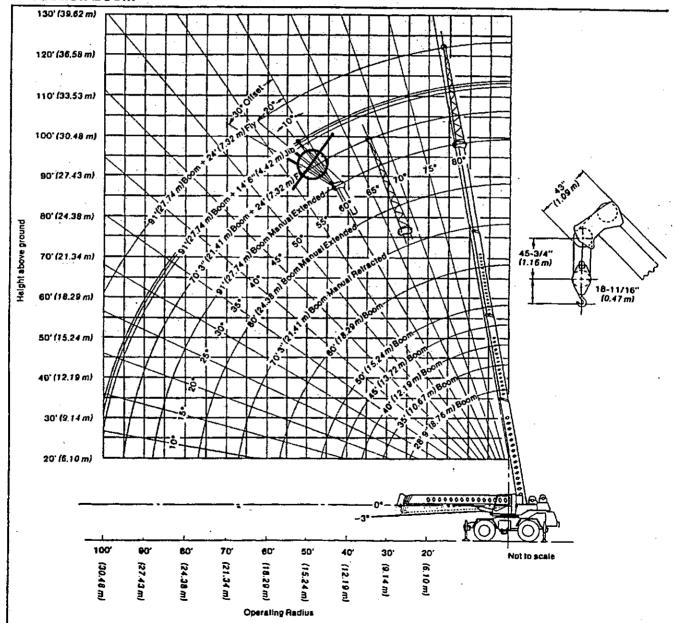
Lifting Capacities

PCSA Class 10-6

Hydraulic Rough Terrain Crane

HSP-8028S 28-ton (25.42 metric ton)





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-8028S Lifting Capacities 28' 9" (8.76 m)-91' 0" (27.74 m) 4-section boom

}	Сар	acitie	es O	n Oı	ıtrigg	jers@) <u> </u>	lanu	ıal Ş	ectio	on R	etra	cted		,	(21.41 m (4' (7.32 i	,
Load	28.75′	(8.76 m)	35.0' (1	0.67 m)	40.0′ (1	2.19 m)	45.0′ (1	3.72 m)	50.0′ (1	5.24 m)	60.0′ (1	8.29 m)	70.25′ (21.41 m)	94.	25 ' (28.7	72 m)12°
radius	360°	Front	360°	Front	360°	Front	360°	Front	360°	Front	360°	Front	360	Front	Angle	360 ⁻	Front
10' 3.05 m	56,000 25 402	56,000 25 402	43,000 19 <i>505</i>	43,000 <i>19505</i>	42,300 19187	42,300 19 187	41,900 <i>19006</i>	41,900 <i>19006</i>	41,500 18.824	41,500 18 824							
12′ 3.66 m	43,300 19641	44,100 20 004	43,000 19 505	43,000 19505	42,300 19187	42,300 19 187	41,300 <i>18 734</i>	41.300 <i>18734</i>	39,900 18 <i>0</i> 99	39,900 18 <i>099</i>	31,600 14334	31,600 <i>14334</i>					
15′ 4.57 m	35,000 <i>15876</i>	35,000 15 <i>876</i>	35,000 15 <i>876</i>	35,000 <i>15876</i>	34,900 <i>15831</i>	34.900 15.831	34,500 15649	34,500 <i>15 649</i>	33.500 15 196	33,500 15 196	27,800 12610	27,800 12610	20,800 9435	20,800 9435			
20° 6.10 m	25,300 11476	25,300 11476	25,300 11 476	25,300 11476	25,300 11476	25,300 11476	25,300 11 476	25,300 11476	25,300 11476	25.300 11476	22.400 10 161	22.400 10 161	20.000 9 <i>072</i>	20.000 9 <i>072</i>	78.5	14,400 <i>6532</i>	14.400 6532
25' 7.62 m	17,400 <i>7893</i>	19,000 <i>8618</i>	17,400 7 <i>8</i> 93	19,000 8618	17,400 7 <i>8</i> 93	19,000 8618	17.400 7893	19,000 <i>8618</i>	17,400 7 <i>893</i>	19,000 8618	17,400 7 <i>89</i> 3	18,200 <i>8256</i>	17,100 7 <i>757</i>	17,100 7 <i>757</i>	75.5	12,800 5 <i>80</i> 6	12,800 5 <i>806</i>
30' 9.14 m	-		12,200 5534	15,100 <i>6849</i>	12,200 5 534	15,100 6849	12,200 5534	15,100 6 849	12,200 5534	15,100 6849	12,200 5534	15,100 <i>6849</i>	12.200 5.534	14,000 <i>6350</i>	72.5	11,300 5126	11,300 5 126
35′ 10.67 m					9,000 4 <i>082</i>	11.500 5 <i>216</i>	9,000 4 <i>082</i>	11,500 5216	9,000 4 <i>082</i>	11.500 5216	9.000 4 <i>082</i>	11.500 5.216	9,000 4 <i>082</i>	11,500 5216	69.0	9.900 4 491	9.900 4491
40' 12.19 m				-			6,800 3084	8,900 4 <i>037</i>	6,800 3084	8,900 <i>4037</i>	6,800 3 <i>0</i> 84	8.900 4 <i>037</i>	6.800 3084	8.900 4 <i>0</i> 37	66.0	8.000 3 <i>629</i>	8,700 <i>3946</i>
45′ 13.72 m	_						:		5,200 2359	7,100 3 <i>221</i>	5,200 2359	7,100 3 <i>221</i>	5,200 2,359	7.100 3 <i>221</i>	62.5	6.400 2903	7.900 3 <i>5</i> 83
50′ 15.24 m				_	-						4.100 1 <i>860</i>	5.700 2586	4.100 1860	5.700 2586	58.5	5.100 2313	6.700 3 <i>039</i>
55' 16.76 m									_		3,100 1 406	4,500 2041	3.100 1406	4.500 2041	55.0	4,200 1 <i>905</i>	5,600 2540
60' 18.29 m	•												2,400 1089	3,700 1 <i>678</i>	51.0	3,400 1 <i>542</i>	4.700 2132
65' 19.81 m													1.700 771	2.900 1315	46.5	2.700 1.225	3.900 1769
70' 21.34 m															42.0	2,200 <i>998</i>	3,300 1 <i>497</i>
75′ 22.86 m															36.5	1,700 771	2,700 1,225
80° 24.38 m															31.0	1.300 590	2.300 1043
90° 27.43 m							i								13.5		1,500 <i>680</i>

① Boom sections must be extended equal distances.

Wire rope size and type

Wire rope application	Size and type used	Wire rope description
Main winch Auxillary winch	9/16" <i>(14 mm)</i> diameter, Type "N" 9/16" <i>(14 mm)</i> 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. <i>(5.52 Bars)</i>	80 p.s.i. <i>(5.52 Bars)</i>
20.50 x 25	20	80 p.s.i. <i>(5.52 Bars)</i>	80 p.s.i. <i>(5.52 Bars)</i>

Line Speeds and Pulls

			or aux 2" (0.30	-		Main or auxillary winch 13.25" (0.34 m) drum					
Wire Rope	Speed	Line Speeds		Line	lable Pulis		peeds	Available Line Pulls			
Layer		(fpm)	(m/min)	(Lbs.)	(Kgs.)	(fpm)	(m/min)	(Lbs.)	(Kgs.)		
1	Low High①	161 287	49.07 87.48	9,600 5.510	4 355 2 499	177 315	53.95 96.01	9,015 5,020	4 089 2 277		
2	Low	175	53.34	9,090	4 123	191	58.22	8,350	3787		
3	High⊕ i Low	313 190	95.40 57.91	5,060 8,400	2 295 3 810	341 205	103.94 62.48	4,650 7,770	2 109 3 5 2 4		
4	High① Low	339 204	103.33 62.18	4,680 7.810	2 123 3 543	366 219	111.56 66.75	4,330 7,270	1964 3298		
	High①	365	111.25	4,340	1969	391	119.18	4,050	1 837		
5	Low High①	218 390	66.45 118.87	7,290 4,060	3307 1842	233 417	71.02 127.10	6,830 3,800	3 098 1 724		
6	Low	233	71.02	6,840	3 103	246	74.98	6,440	2 921		
	High①	416	126.80	3,810	1728	443	135.03	3,590	1 628		

① Two-speed motor optional

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

Refer to Operating Instructions page 4

							1	.0′ (27.74 m) th 24 ′ (7.32 r	
Load		80.0' <i>(24.38)</i>	n)©		91.0′ <i>(27.74</i> .	m)®	1	15.0′ <i>(35.05</i>	m)©
radius	Angle	360°	Front	Angle	360°	Front	Angle	360°	Front
15' 4.57 m	80.0°	22,600 10 <i>2</i> 51	22,600 10 <i>2</i> 51						
20' 6.10 m	76.5°	18,700 <i>8.482</i>	18,700 <i>8 482</i>	79.0°	16,600 7530	16,600 7530			
25′ 7.62 m	73.0°	15,800 7167	15,800 7167	76.0°	14,400 <i>6532</i>	14,400 6532	79.0°	9,000 4 <i>082</i>	9,000 4 <i>082</i>
30′ 9.14 m	69.0°	13,600 <i>6 169</i>	13,700 <i>6214</i>	72.5°	12,300 5 <i>579</i>	12,300 5579	77.0°	8,900 4 <i>0</i> 37	8,900 4 <i>0</i> 37
35′ 10.67 m	65.0°	10,200 4 <i>627</i>	12,000 5443	69.0°	10,100 4 <i>581</i>	10,600 4 <i>808</i>	74.5°	7,900 3583	7,900 3 <i>58</i> 3
40' 12.19 m	61.0°	8,000 3 <i>629</i>	10,100 <i>4581</i>	65.5°	7,900 3583	9,200 4173	72.0°	7,000 3175	7,000 3175
45′ 13.72 m	56.5°	6,400 2,903	8,200 3 <i>720</i>	62.0°	6,300 2858	8,100 3 <i>674</i>	69.5°	6,200 2 <i>8</i> 12	6,200 2812
50′ 15.24 m	51.5°	5,100 2313	6,700 3 <i>03</i> 9	58.0°	5,000 2268	6,600 2994	66.5°	5,500 2495	5,500 2495
55' 16.76 m	46.5°	4,200 1 <i>90</i> 5	5,600 2540	54.0°	4,000 1 <i>814</i>	5,500 2495	63.5°	4,600 2 <i>0</i> 87	4,900 2,223
60′ 18.29 m	41.5°	3,400 1 <i>542</i>	4,700 2132	50.0°	3,300 1 497	4,600 2 <i>087</i>	61.0°	3,800 1 724	4,400 1 <i>996</i>
65′ 19.81 m	35.0°	2,700 1 <i>22</i> 5	3,900 1 769	45.0°	2,600 1179	3,800 1 724	58.0°	3,100 1,406	3,900 1769
70' 21.34 m	27.5°	2,200 <i>998</i>	3,300 1497	40.0°	2,100 <i>953</i>	3,200 1 452	54.5°	2,600 1 179	3,500 1 <i>588</i>
75' 22.86 m	17.5°	1,700 771	2,700 1 <i>225</i>	34.5°	1,600 <i>726</i>	2,600 1 179	51.5°	2,100 953	3,100 1 406
80′ 24.38 m				28.0°	1,200 <i>544</i>	2,200 <i>998</i>	47.5°	1,700 <i>771</i>	2,700 1 <i>225</i>
90′ 27.43 m					_		40.0°	1,100 499	1,900 <i>862</i>
100′ 30.48 m							30.0°		1,300 590

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)

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

Capac	ities①	On T	ires@) – 4-	Secti	on B	oom
		16.00	x 24 (10	6-PR)	20.50	x 25 (2	0-PR)
	Max.	Pick & Carry®	Statio	onary	Pick & Carry®	Statio	onary
Load Radius	Boom Length	Front	360° Front		Front	360°	Front
10′ 3.05m	28.75′ 8.76m	28,700 <i>13018</i>	19,700 <i>8936</i>	28,700 13018	29,700 13 472	21,300 9 <i>662</i>	29,700 13 <i>472</i>
12' 3.66m	28.75' 8.76m	24,800 11249	14,500 6577	25,300 11476	25,700 11658	15,600 <i>7076</i>	26,100 11 839
15' 4.57m	28.75' 8.76m	20,300 <i>9208</i>	9,900 4 491	20,600 9344	21,000 <i>9526</i>	10,700 4 <i>8</i> 54	21,400 <i>9707</i>
20' 6.10m	28.75′ 8.76m	12,800 5 <i>806</i>	5,700 2 <i>586</i>	12,800 5 <i>806</i>	13,300 <i>60</i> 33	6,200 2812	13,300 <i>6033</i>
25' 7.62m	28.75′ 8.76m	8,400 <i>3810</i>	3,400 1 <i>542</i>	8,400 3 <i>810</i>	8,800 3 <i>992</i>	3,700 1 <i>678</i>	8,800 3 <i>992</i>
30' 9.14m	35.0′ 10.67m	5,900 <i>2676</i>	2,000 <i>907</i>	5,900 <i>2676</i>	6,200 2812	2,300 1 <i>043</i>	6,200 2812
35' 10.67m	40.0' 1,2.19m	4,200 1 <i>905</i>	1,100 499	4,200 1 <i>905</i>	4,500 2041	1,300 <i>590</i>	4,500 2041
40' 12.19m	45.0′ 13.72m	3,100 1 406	-	3,100 1 406	3,200 1452	-	3,200 1 452
45′ 13.72m	50.0' 15.24m	2,200 998	_	2,200 998	2,300 1 <i>043</i>	-	2,300 1 043
50' 15.24m	60.0° 18.29m	1,500 <i>680</i>	_	1,500 <i>680</i>	1,600 <i>726</i>	_	1,600 <i>726</i>
55′ 16.76m	60.0' 18.29m	·			1,100 <i>499</i>	-	1,100 <i>499</i>

Drum Wire Rope Capacities

	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*			
ĺ	Wire Rope	Diameter	= 0.5625 in	. (14.3 mm)	Wire Rope Diameter = 0.5625 in. (14.3 mm)			
Wire	Capacity				Capacity			
Rope	Rope P	er Layer	Total Wire Rope		Rope Per Layer		Total Wire Rope	
Layer	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.

Off main boom head only. Boom sections must be extended equal distances.

[@] Refer to tire inflation chart.

See Operating Instructions; Set-up Note Number 3.



HSP-8028S Warning and Operating Instructions

General:

- Rated lifting capacities in pounds as shown on lift chart pertain to this machine as originally manufactured and normally equipped by Link-Beit Construction Equipment Company. Modifications to the machine or use of optional equipment other than that specified can result in a reduction of capacity.
- 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.
- 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.
- 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.
- 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 trees, and tire air pressure. On tire picks require liting 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:

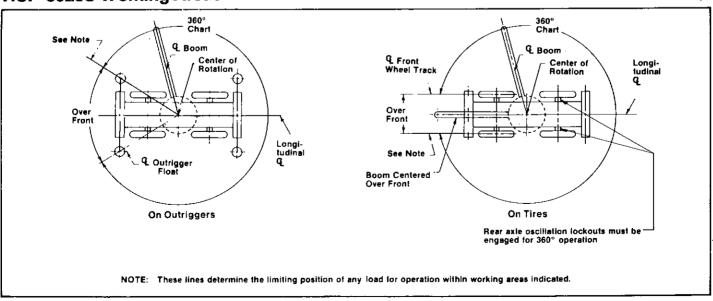
- Rated lifting capacities at rated radius shall not be exceeded. Do not tip machine to determine allowable load. For concrete bucket operation, weight of bucket and load shall not exceed 80°s of rated lifting capacity. For clamshell bucket operation, weight of bucket and bucket content is restricted 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.
- 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.
- The crane capacities above the bold lines are based on structural strength or hydraulic limitations.
- 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.
- 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.
- 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.

- 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 personnet, two machine lifts, traveling with loads, electrical wires, etc. Side load on boom, tly or jib is extremely dangerous.
- 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.
- 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 tengths 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.
- 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.
- 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:

- 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 tackte with load applied.
- Loaded Boom Angle: The angle between the boom base section and the horizontal after fifting the load at the rated radius. The boom angle, before loading, should be greater to account for deflections.
- Working Area: Area measured in a circular arc about the centerline of rotation as shown on the working area diagram.
- Freely Suspended Load: Load hanging free with no direct external force applied except by the hoist line.
- Side Load: Horizontal side force applied to the lifted load either on the ground or in the air.

HSP-8028S Working Areas



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

