

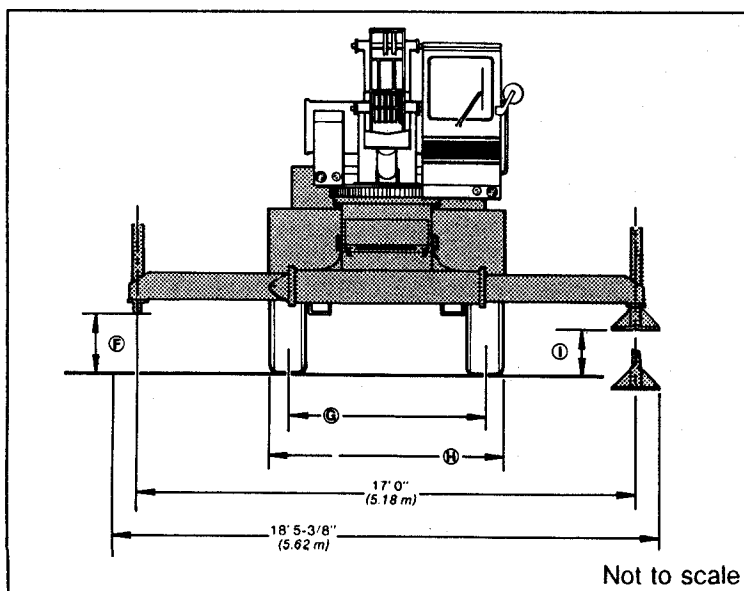
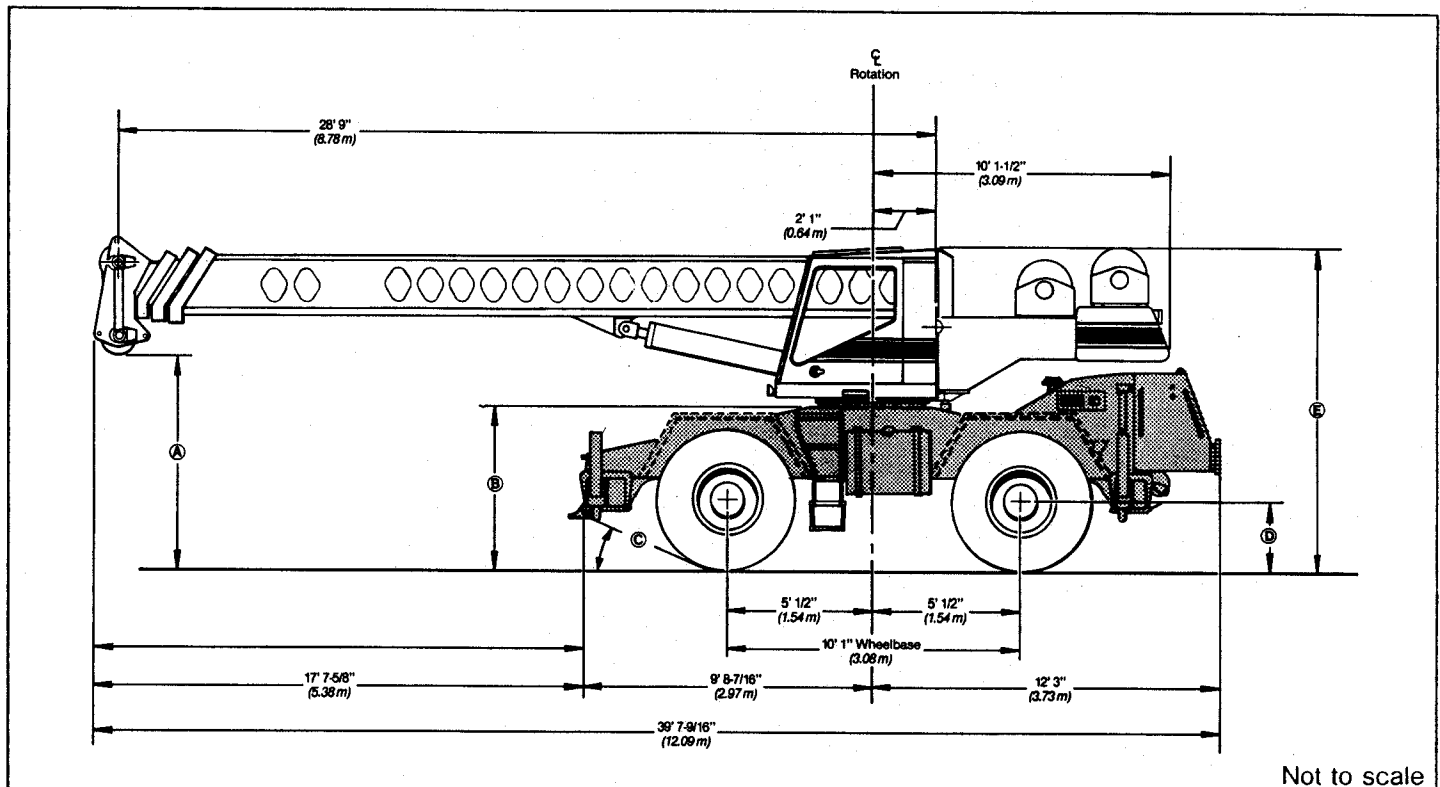
Specifications

Hydraulic Rough Terrain Crane

GENERAL INFORMATION ONLY

HSP-8028S

28 Ton (25.40 metric ton)



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' 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
H	8' 0"	2.44	8' 8-13/16"	2.66
I	12-1/8"	0.31	13"	0.33

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 deaeration.

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.

GENERAL INFORMATION ONLY

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 Chassis 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	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

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)

GENERAL INFORMATION ONLY

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 x 25.0 tires, counterweight.	G.V.W. [⊙]		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 x 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

[⊙] 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 x 24 (16-PR)	26,200 lbs. (11 884 kg)
20.50 x 25 (20-PR)	28,400 lbs. (12 882 kg)

GENERAL INFORMATION ONLY

• Link-Belt is a registered trademark.

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

Link-Belt Construction Equipment Company Lexington, Kentucky

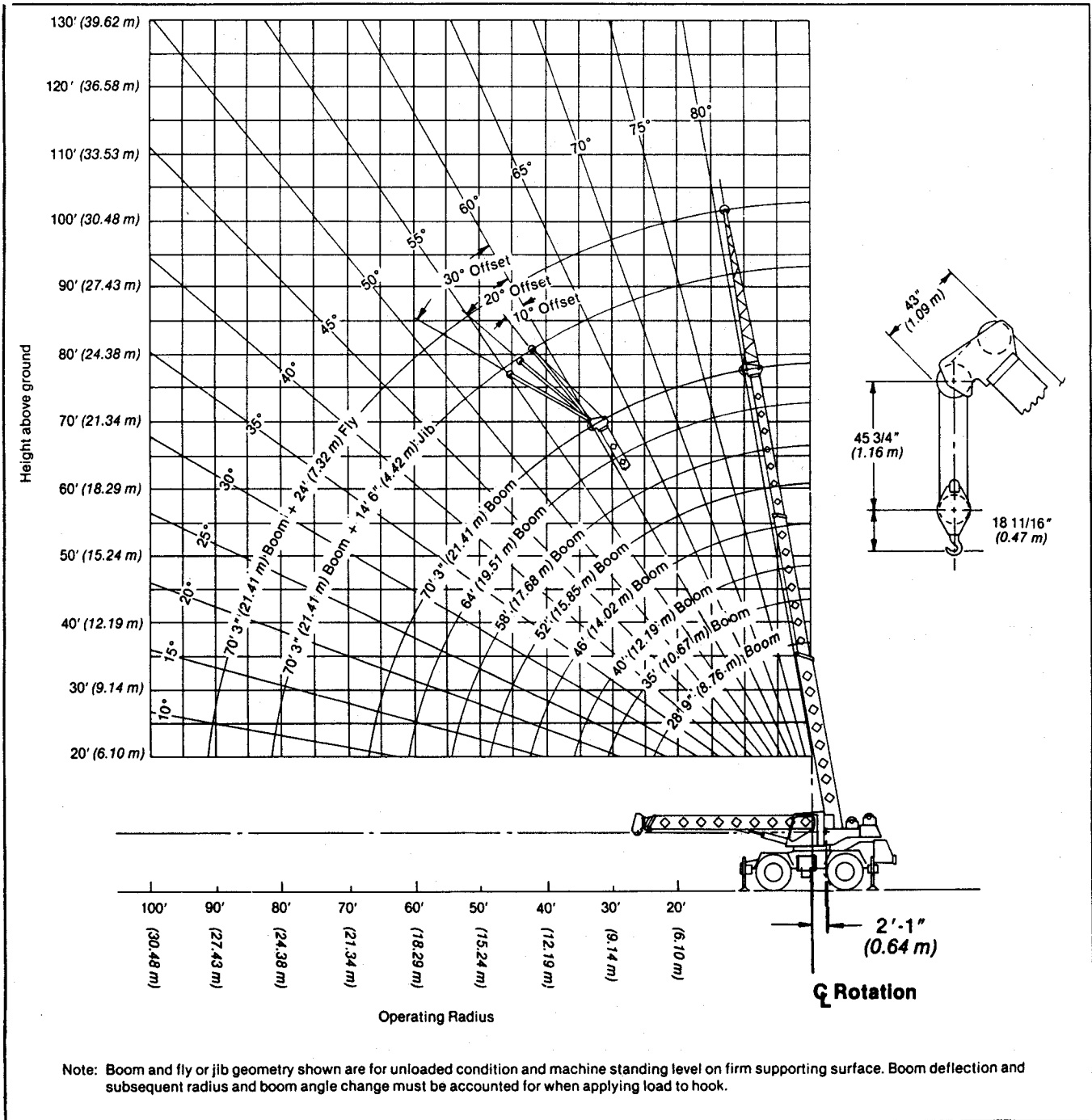
A unit of Sumitomo Construction Machinery Co., Ltd.

Lifting Capacities

Hydraulic Rough Terrain Crane

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

3-Section Boom



HSP-8028S Lifting Capacities

28' 9" (8.76 m)-70' 3" (21.41 m) 3-section boom

Refer to Operating Instructions page 4

Capacities On Outriggers ^① – 3-Section Boom																	70.25' (21.41 m) Boom plus 24' (7.32 m) fly				
Load Radius	28.75' (8.76 m)		35.0' (10.67 m)		40.0' (12.19 m)		46.0' (14.02 m)		52.0' (15.85 m)		58.0' (17.68 m)		64.0' (19.51 m)		70.25' (21.41 m)		Angle	360°	Front		
	360°	Front	360°	Front	360°	Front	360°	Front	360°	Front	360°	Front	360°	Front	360°	Front					
10' 3.05 m	56,000 25,402	56,000 25,402	44,200 20,049	44,200 20,049	43,500 19,732	43,500 19,732	43,000 19,505	43,000 19,505	42,700 19,369	42,700 19,369	42,500 19,278	42,500 19,278									
12' 3.66 m	43,800 19,868	45,900 20,820	43,800 19,868	44,200 20,049	43,500 19,732	43,500 19,732	43,000 19,505	43,000 19,505	41,700 18,915	41,700 18,915	39,400 17,872	39,400 17,872	37,300 16,919	37,300 16,919							
15' 4.57 m	35,900 16,284	35,900 16,284	35,900 16,284	35,900 16,284	35,900 16,284	35,900 16,284	35,900 16,284	35,900 16,284	35,900 16,148	35,900 16,148	35,600 15,286	35,600 15,286	33,700 14,561	33,700 14,561	21,100 9,571	21,100 9,571					
20' 6.10 m	25,800 11,703	25,800 11,703	25,800 11,703	25,800 11,703	25,800 11,703	25,800 11,703	25,800 11,703	25,800 11,703	25,800 11,703	25,800 11,703	25,800 11,703	25,800 11,703	25,800 11,703	25,800 11,703	21,100 9,571	21,100 9,571	78.5°	13,900 6,305	13,900 6,305		
25' 7.62 m	18,300 8,301	19,600 8,891	18,300 8,301	19,600 8,891	18,300 8,301	19,600 8,891	18,300 8,301	19,600 8,891	18,300 8,301	19,600 8,891	18,300 8,301	19,600 8,891	18,300 8,301	19,600 8,891	18,300 8,301	19,600 8,891	75.5°	12,800 5,806	12,800 5,806		
30' 9.14 m			13,400 6,078	15,700 7,122	13,400 6,078	15,700 7,122	13,400 6,078	15,700 7,122	13,400 6,078	15,700 7,122	13,400 6,078	15,700 7,122	13,400 6,078	15,700 7,122	13,400 6,078	15,700 7,122	72.5°	11,300 5,126	11,300 5,126		
35' 10.67 m					10,200 4,627	12,200 5,534	10,200 4,627	12,200 5,534	10,200 4,627	12,200 5,534	10,200 4,627	12,200 5,534	10,200 4,627	12,200 5,534	10,200 4,627	12,200 5,534	69.5°	9,900 4,491	9,900 4,491		
40' 12.19 m							8,000 3,629	9,600 4,355	8,000 3,629	9,600 4,355	8,000 3,629	9,600 4,355	8,000 3,629	9,600 4,355	8,000 3,629	9,600 4,355	66.0°	8,700 3,946	8,700 3,946		
45' 13.72 m									6,500 2,948	7,800 3,538	6,500 2,948	7,800 3,538	6,500 2,948	7,800 3,538	6,500 2,948	7,800 3,538	62.5°	7,400 3,357	7,900 3,583		
50' 15.24 m											5,300 2,404	6,500 2,948	5,300 2,404	6,500 2,948	5,300 2,404	6,500 2,948	59.0°	6,100 2,767	7,300 3,311		
55' 16.76 m											4,300 1,950	5,400 2,449	4,300 1,950	5,400 2,449	4,300 1,950	5,400 2,449	55.5°	5,100 2,313	6,100 2,767		
60' 18.29 m													3,500 1,588	4,500 2,041	3,500 1,588	4,500 2,041	51.5°	4,300 1,950	5,300 2,404		
65' 19.81 m															2,900 1,315	3,800 1,724	47.5°	3,600 1,633	4,500 2,041		
70' 21.34 m																	42.5°	3,100 1,406	3,900 1,769		
75' 22.86 m																	37.5°	2,600 1,179	3,300 1,497		
80' 24.38 m																	32.0°	2,200 998	2,900 1,315		
90' 27.43 m																	14.5°	1,500 680	2,100 953		

① Boom sections must be extended equal distances.
 ② Capacities are determined by boom angle only.

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)

GENERAL INFORMATION ONLY

Refer to Operating Instructions page 4

Capacities ^① On Tires ^② – 3-Section Boom									
Load Radius	Max. Boom Length	16.00 x 24 (16-PR)				20.50 x 25 (20-PR)			
		Pick & Carry ^③		Stationary		Pick & Carry ^③		Stationary	
		Front	360°	Front	360°	Front	360°	Front	360°
10' 3.05m	28.75' 8.76m	29,300 13,290	19,700 8,936	29,700 13,472	29,200 13,245	21,700 9,843	29,900 13,563		
12' 3.66m	28.75' 8.76m	25,400 11,521	14,600 6,623	26,300 11,930	25,400 11,521	16,000 7,258	26,400 11,975		
15' 4.57m	28.75' 8.76m	20,900 9,480	10,000 4,536	21,300 9,662	20,900 9,480	11,000 4,990	21,500 9,752		
20' 6.10m	28.75' 8.76m	12,900 5,851	6,000 2,722	12,900 5,851	13,300 6,033	6,700 3,039	13,300 6,033		
25' 7.62m	28.75' 8.76m	8,700 3,946	3,700 1,678	8,700 3,946	9,000 4,082	4,200 1,905	9,000 4,082		
30' 9.14m	35.0' 10.67m	6,400 2,903	2,500 1,134	6,400 2,903	6,600 2,994	2,900 1,315	6,600 2,994		
35' 10.67m	40.0' 12.19m	4,800 2,177	1,600 726	4,800 2,177	5,000 2,268	2,000 907	5,000 2,268		
40' 12.19m	46.0' 14.02m	3,700 1,678	1,000 454	3,700 1,678	3,800 1,724	1,300 590	3,800 1,724		
45' 13.72m	52.0' 15.85m	2,900 1,315		2,900 1,315	3,000 1,361		3,000 1,361		
50' 15.24m	58.0' 17.68m	2,200 998		2,200 998	2,300 1,043		2,300 1,043		
55' 16.76m	58.0' 17.68m	1,600 726		1,600 726	1,700 771		1,700 771		
60' 18.29m	64.0' 19.51m	1,300 590		1,300 590	1,400 635		1,400 635		
65' 19.81m	70.25' 21.41m				1,000 454		1,000 454		

- 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.

Line Speeds and Pulls

Wire Rope Layer	Speed	Main or auxiliary winch 12' (0.30 m) drum				Main or auxiliary winch 13.25' (0.34 m) drum			
		Line Speeds		Available Line Pulls		Line Speeds		Available Line Pulls	
		(fpm)	(m/min)	(Lbs.)	(Kgs.)	(fpm)	(m/min)	(Lbs.)	(Kgs.)
1	Low	161	49.07	9,600	4,355	177	53.95	9,015	4,089
	High ^①	287	87.48	5,510	2,499	315	96.01	5,020	2,277
2	Low	175	53.34	9,090	4,123	191	58.22	8,350	3,787
	High ^①	313	95.40	5,060	2,295	341	103.94	4,650	2,109
3	Low	190	57.91	8,400	3,810	205	62.48	7,770	3,524
	High ^①	339	103.33	4,680	2,123	366	111.56	4,330	1,964
4	Low	204	62.18	7,810	3,543	219	66.75	7,270	3,298
	High ^①	365	111.25	4,340	1,969	391	119.18	4,050	1,837
5	Low	218	66.45	7,290	3,307	233	71.02	6,830	3,098
	High ^①	390	118.87	4,060	1,842	417	127.10	3,800	1,724
6	Low	233	71.02	6,840	3,103	246	74.98	6,440	2,912
	High ^①	416	126.80	3,810	1,728	443	135.03	3,590	1,628

① Two-speed motor optional

Jib Capacities			
14.5' (4.42 m) A-Frame Jib			
Boom angle	Jib Offset		
	10°	20°	30°
80°	11,500* 5,216	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. capacity 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		Capacity		Capacity		
Rope Per Layer	Feet	Meters	Feet	Meters	Rope Per Layer	Feet	Meters	Feet	Meters
1	82	25.0	82	25.0	94	28.7	94	28.7	28.7
2	93	28.3	175	53.3	106	32.3	200	61.0	61.0
3	101	30.8	276	84.1	109	33.2	309	94.2	94.2
4	108	32.9	384	117.0	117	35.7	426	129.8	129.8
5	112	34.1	496	151.2	125	38.1	551	167.9	167.9
6	119	36.3	615	187.5	132	40.2	683	208.2	208.2

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

GENERAL INFORMATION ONLY

HSP-8028S 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 Link-Belt Construction Equipment Company. 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 *italics*.

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. 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 swing. 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 SAE 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 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.

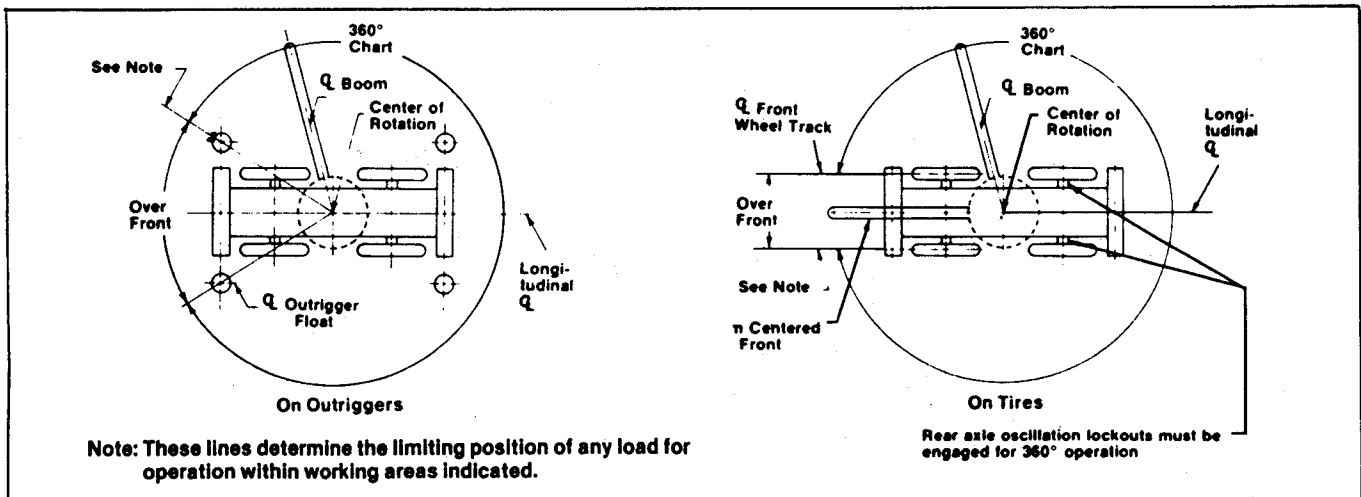
9. When either boom length or radius or both are between values listed, the smallest load shown at either the next larger radius or the next longer or shorter boom length shall be used.
10. The user shall operate at reduced ratings to allow for adverse job conditions such as: soft or uneven ground, out 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 with fly less than 94.25 ft., the rated loads are determined by boom angle only in the column headed by 94.25 ft. For angles not shown, use next lower boom angle to determine allowable capacity.
14. 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.
15. 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.

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.

GENERAL INFORMATION ONLY

HSP-8028S Working Areas



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