



General Specifications

Link-Belt® 150-ton

Wire rope crawler excavator/crane

MUNNA CONSTRUCTION COMPANY PVT. LTD.

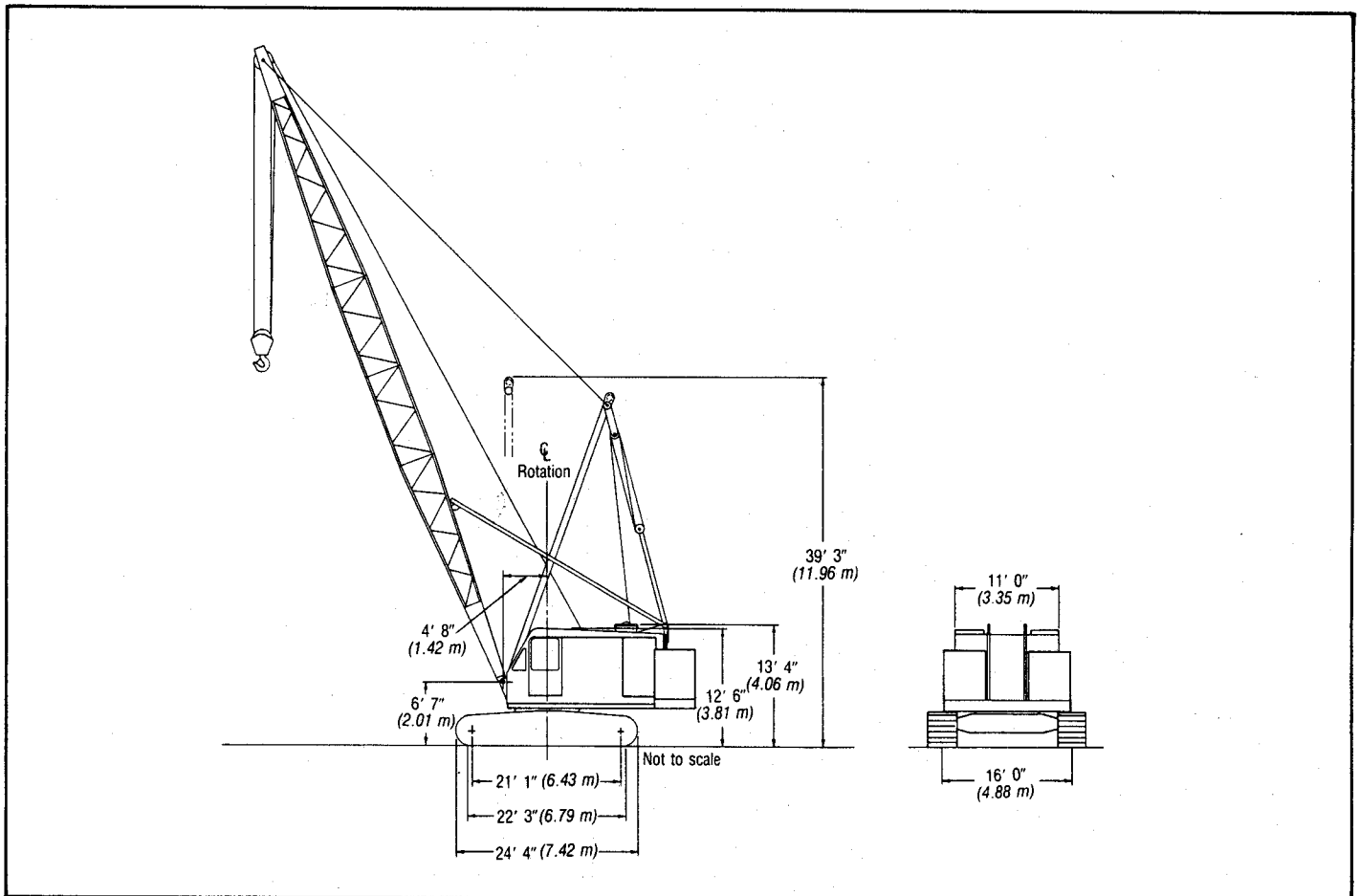
LS-518

Office Address: Munna Construction Co. Pvt. Ltd. , 277 Shree Balajee Bhawan, Road no 1, Hill View Colony, Dimna, Mango, Jamshedpur, Jharkhand 831018.

Email: info@munnaconstruction.com; mccpl.bsl@gmail.com

Phone: +91 9431735332;

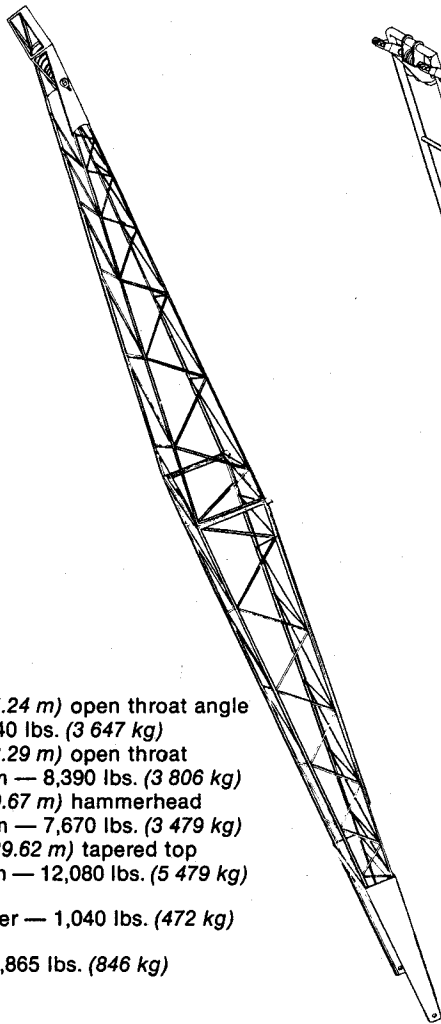
Website: www.munnaconstruction.com



General dimensions	Feet	meters
Overall width for transport less side frames and catwalks; axles in line with upper	—	—
Overall width of counterweight	17' 0"	5.25
Width of cab less catwalks	11' 0"	3.35
Width of cab with catwalks both sides	16' 10"	5.13
Tailswing of counterweight "A" or "AB"	17' 3"	5.26
Overall height for transport — basic machine less crawler side frames	11' 11"	3.63
Overall height, live boom mast with 60' (18.29) boom horizontal	25' 6"	7.77

General dimensions	Feet	meters
Basic angle boom length	50' 0"	15.24
Basic tubular boom lengths:	—	—
— Open throat	60' 0"	18.29
— Hammerhead	35' 0"	10.67
— Tapered top	130' 0"	39.62
Overall width with 44" (1.12 m) track shoes	19' 8"	5.99
Minimum ground clearance	1' 5"	0.43
Clearance under counterweight "A" or "AB"	4' 3"	1.30
Clearance width less crawler side frames, counterweight, and catwalks	17' 7"	5.36

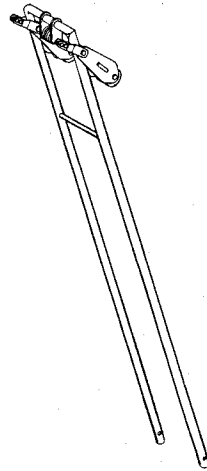
Weight deductions for transporting — approximate



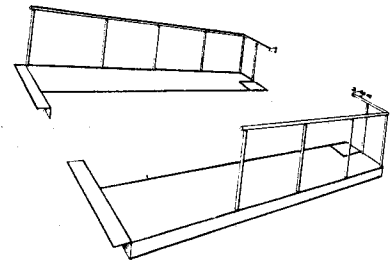
Basic 50' (15.24 m) open throat angle boom — 8,040 lbs. (3 647 kg)
Basic 60' (18.29 m) open throat tubular boom — 8,390 lbs. (3 806 kg)
Basic 35' (10.67 m) hammerhead tubular boom — 7,670 lbs. (3 479 kg)
Basic 130' (39.62 m) tapered top tubular boom — 12,080 lbs. (5 479 kg)

Tagline winder — 1,040 lbs. (472 kg)

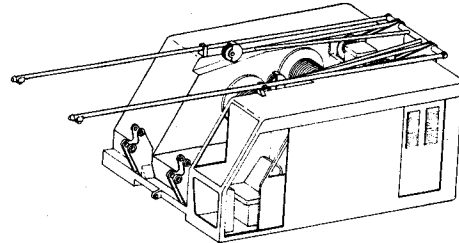
Fairlead — 1,865 lbs. (846 kg)



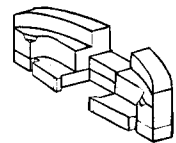
Boom live mast — 5,620 lbs. (2 549 kg)



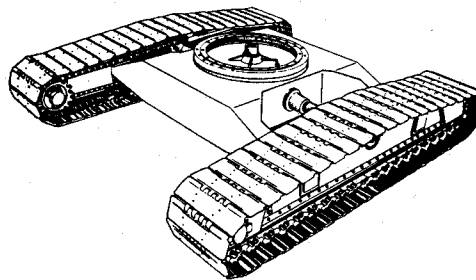
Catwalks — 1,600 lbs. (726 kg)



Basic revolving upperstructure less counterweight — 65,700 lbs. (29 802 kg)

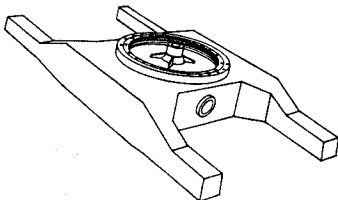


Counterweight "A" — 20,500 lbs. (9 299 kg)

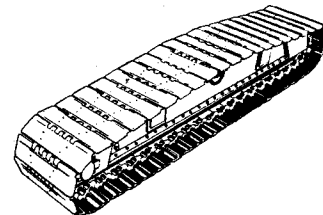


Complete crawler mounting with turntable bearing — 88,775 lbs. (40 268 kg)

Counterweight "B" — 69,500 lbs. (31,525 kg)

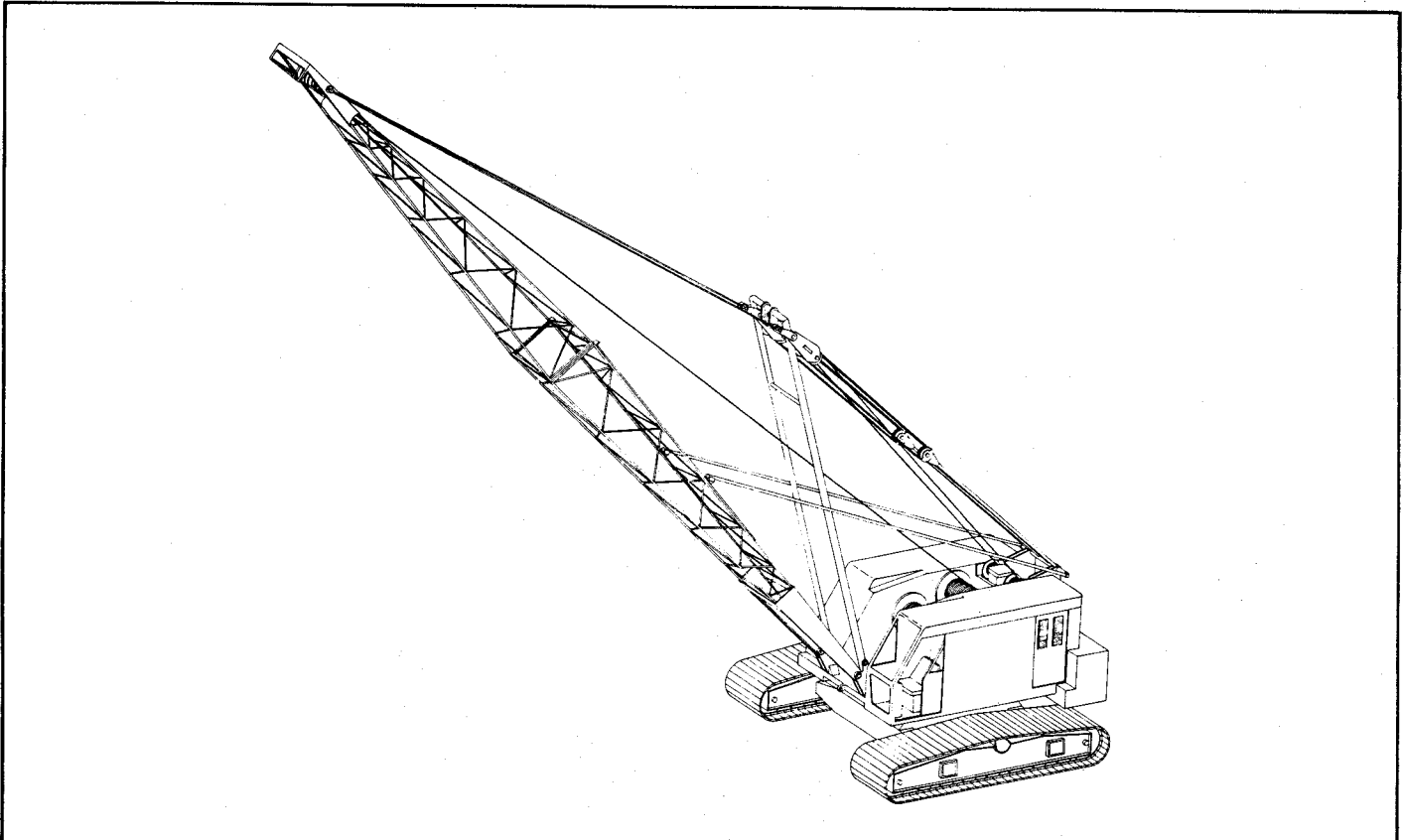


Lower frame with turntable bearing — 29,395 lbs. (13 336 kg)



One side frame with 44" (1.12 m) track shoes — 29,690 lbs. (13 647 kg)

Machine working weights — approximate



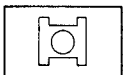
Complete basic machine with GM 8V-71N diesel engine and single stage Allison torque converter, turntable bearing, independent boomhoist, swing brake, independent swing and travel, extended front and rear drum shafts, front and rear drum laggings, catwalks and railings along both sides, counterweight lowering mechanism, 44" (1.12 m) wide track shoes, and 60' (18.29 m) tubular boom.

- with 20,500 lb. (9 299 kg) counterweight "A"
- with 90,000 (40 824 kg) counterweight "AB"

Pounds	kilograms
189,025	85 472
258,525	117 267

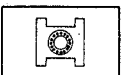
General specifications

Mounting — crawler



Lower frame

All-welded, stress relieved, precision machined; lined bored for traction shaft. Machined surface provided for mounting turntable bearing.



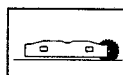
Turntable bearing

Inner race with internal swing gear bolted to lower frame.



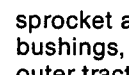
Crawler side frames

All-welded, stress relieved, precision machined. Removable; positioned on cross axles by patented dowel and key arrangement and held in place with two patented, adjustable wedgepacks per side frame.

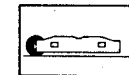


Track drive sprockets

Cast steel, heat treated, involute splined to shafts which are mounted on bronze bushings. One-piece track/chain drive



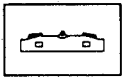
sprocket assembly mounted on bronze bushings, chain driven from sprocket on outer traction shaft; one per side frame. Track drive sprocket lugs mesh with shoe lugs; axle adjusted for chain take-up.



Track idler wheels

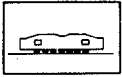
Cast steel heat treated; mounted on bronze bushings. One track idler wheel per side frame. Axle adjusted for track take-up.

GENERAL INFORMATION ONLY



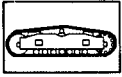
Track carrier rollers

Heat treated, mounted on bronze bushings; two rollers per side frame.



Track rollers

Heat treated, mounted on bronze bushings; fourteen per side frame.

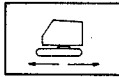


Tracks

Heat treated, self-cleaning, multiple hinged track shoes joined by one-piece full floating pins. 52 shoes per side frame, 44" (1.12 m) wide.

Track/chain adjustment — Track drive chains adjusted by shimming axles of

chain drive sprockets. Track adjusted with threaded adjusting bolts attached to track idler (wheel) axles.



Independent travel

Standard. Three-piece traction shaft joined with involute splined couplings; inner traction shaft mounted on bronze bushings in precision bored lower frame. Outer traction shaft engages splines in chain drive sprockets which are mounted on bronze bushings in side frames. Powered by bevel gear drive enclosed in oil within lower frame.

Travel speed — *Standard:* 1.0 m.p.h. (1.61 km/h). *Optional high speed planetary:* 1.65 m.p.h. (2.65 km/h).

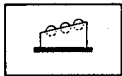
Gradeability — 30% based on machine equipped with "AB" counterweight, basic 60' (18.29 m) long, 62" (1.57 m) deep tubular boom, and boom live mast.

Steering — Power hydraulic. Travel/steer jaw clutches hydraulically engaged, spring released. Spring applied, hydraulically released travel/steer/digging/parking external contracting band brakes simultaneously released by interconnecting mechanical linkage. Brakes automatically set when steer levers are in neutral. Two 24" (0.61 m) diameter by 5" (0.13 m) wide brake bands; effective lining area 281 square inches (1 813 cm²) per brake.

Ground contact area and ground bearing pressure — based on machine equipped with boom live mast and basic 60' (18.29 m) long, 62" (1.57 m) deep tubular boom.

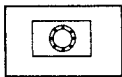
Counterweight	Track shoes		Ground contact area		Ground bearing pressure	
	Inches	meters	Square inches	cm ²	P.s.i.	kPa
"A" 20,500 lbs. (9 299 kg)	44	1.12	22,940	148 036	8.2	56.54
"AB" 90,000 lbs. (40 824 kg)	44	1.12	22,940	148 036	11.3	77.91

Revolving upperstructure



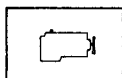
Frame

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



Turntable bearing

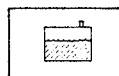
Outer race of bearing bolted to machined surface on under side of frame.



Engines

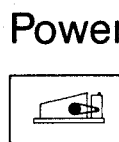
Full pressure lubrication, oil filter, oil cooler, air cleaner, fuel filter, hour meter and hand throttle. Optional hand throttle (lever type on swing control lever) and foot throttle available. Manual control shutdown for GM engines; electrical shutdown for Cummins engine.

Auxiliary governor control — *Optional;* for use with GM8V-71N and Cummins NT 855 engines only. Provides approximately 50% greater pinion r.p.m. Recommended for lifting crane service only.



Fuel tank

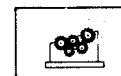
85 gallon (322 L) capacity; equipped with fuel sight level gauge, flame arrester, and filler pipe cap with locking eye for padlock.



Transmission

FMC quadruple roller chain enclosed in chain case and running in oil. Pump

driven oil stream lubrication with independent sump.



Machinery gear train

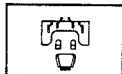
"Full Function" design, two-directional power available to all operating shafts; shafts mounted on anti-friction bearings in precision bored machinery side housings. All load hoist, swing, and boomhoist functions independent of one another. Components such as gears, pinions, chain wheels, brake drums and clutch spiders involute splined to shafts. Drum gear/clutch drum assemblies bolted together and mounted on shafts on anti-friction bearings. Machine-cut teeth on drum gears, pinions, spur gears, and chain wheel.

Engine specifications	GM 8V-71N with single-stage torque converter ①	GM 8V-71N with three-stage torque converter ②	Cummins NT 855-P310 with three-stage torque converter ②
Number of cylinders	8	8	6
Bore and stroke — inches — (mm)	4¼ x 5 (108 x 127)	4¼ x 5 (108 x 127)	5½ x 6 (140 x 152)
Piston displacement — cu. in. — (cm ³)	568 (9 310)	568 (9 310)	855 (14 013)
High idle speed — r.p.m.	2,250	2,250	2,350
Engine r.p.m. at full load speed	2,100	2,100	2,100
Net engine h.p. at full load speed	245 (183 kW)	260 (194 kW)	279 (208 kW)
Peak torque — ft. lbs. — (joules) — r.p.m.	710 (963) 1,200	749 (1 016) 1,200	890 (1 207) 1,500
Electrical system	12-volt	12-volt	12-volt
Batteries	Two 12-volt	Two 12-volt	Two 12-volt
Clutch or power takeoff	Disconnect between engine and converter	Disconnect between engine and converter	Disconnect between engine and converter
Transmission —			
Number chain wheel teeth	164	164	164
Number engine pinion teeth	30	36	33

① 2.54:1 ratio Allison TCDOA-565 single-stage converter with output shaft governor.

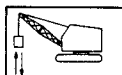
② Twin Disc Co-10066-TC1 three-stage converter with output shaft governor.

Principal operating functions



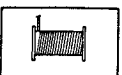
Control System

Speed-o-Matic® power hydraulic control system requiring no bleeding. Variable operating pressure transmitted to all two-shoe clutch cylinders as required. System includes constant displacement, engine driven, vane type hydraulic pump to provide flow of oil; accumulator to maintain system operating pressure, unloader valve to control pressure in accumulator, relief valve to limit maximum pressure buildup in system, full-flow filter with 40 micron disposable filter element, and variable pressure control valves to control drum clutches and other operating cylinders.



Load hoisting and lowering

Wire rope drum gear train (front and rear main, and optional third, operating drums) spur gear driven, powered by chain transmission from engine.



Load hoist drums

Front and rear main operating drums —

Two-piece, removable, smooth or grooved laggings bolted to adapter which is splined to drum shaft. Extended length shafts permit installation of optional power load lowering clutches; special length shaft required for, and furnished with, optional planetary drive unit for rear drum.

— Lifting crane applications: 19½" (0.49 m) front and 27" (0.69 m) rear smooth drum laggings.

— Clamshell or magnet applications: 27" (0.69 m) front and rear grooved drum laggings.

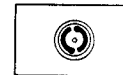
— Dragline application: 24¾" (0.62 m) front and 27" (0.69 m) rear grooved drum laggings.

Third operating drum — Optional; mounts forward of front main operating drum. Two-piece removable 13¼" (0.34 m) root diameter smooth drum lagging bolted to brake drum. Brake drum splined to shaft.

Note — Third drum limits:

— Lifting crane application: to prevent front drum hoist rope interference with third drum, front drum operation limited to certain boom radii and requires special investigation.

— Use of fairlead: third drum is over-winding requiring use of auxiliary third drum lagging flange and deflector roller to deflect wire rope downward and horizontally toward fairleader.



Drum clutches

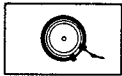
Speed-o-Matic hydraulic two-shoe clutches; internal expanding, lined shoes. Clutch spiders splined to shafts; clutch drums bolted to drum spur gears and mounted on shafts on anti-friction bearings.

Load hoist clutches — Speed-o-Matic power hydraulic two-shoe clutches. Front and rear main operating drum clutches: 37" (0.94 m) diameter, 5½" (0.14 m) face width; effective lining area 501 square inches (3 233 cm²). Optional third drum clutch: 20" (0.51 m) diameter, 5" (0.13 m) face width; effective lining area 215 square inches (1 387 cm²).

Two-speed rear drum — Optional. An added spur gear, mounted between left swing clutch and standard spur gear, powers idler pinion mounted on outer end of extended reduction shaft. Idler pinion powers large spur gear and clutch drum that is normally the rear drum lowering clutch. Through this gear arrangement, the rear drum shaft is powered in the same direction as the standard hoist clutch, but at 80% higher than standard speed. Control is by pulling the hoist drum lever for standard speed, pushing for high speed. All gears machine cut. **Note:** Two-speed rear drum not available on machines equipped with optional power load lowering clutch or auxiliary brake on rear drum.

Drum planetary drive unit — Optional; available for load hoist on rear main operating drum to allow increase of standard load hoist line speed. Planetary unit mounts on extended drum shaft between drum spur gear and two-shoe clutch drum. Two-shoe clutch controls standard line speeds. Planetary drive unit controlled by external contracting band brake through push button located on clutch control lever.

Load lowering clutches — Optional; Speed-o-Matic power hydraulic two-shoe clutches. Front and/or rear main operating drum clutches: 30" (0.76 m) diameter, 6½" (0.17 m) face width. **Note:** Load lowering clutch not available on rear drum equipped with optional two-speed hoist or auxiliary rear drum brake.



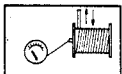
Drum brakes

Three piece, external contracting band; brake drum involute splined to shaft. Mechanically foot pedal operated; foot pedal equipped with latch to permit locking brake in applied position.

Front and rear main drums — Brakes 44" (1.12 m) diameter, 5½" (0.14 m) face width; effective lining area 651 square inches (4 201 cm²).

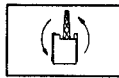
Optional third drum — Brake 27" (0.69 m) diameter, 4" (0.10 m) face width; effective lining area 268 square inches (1 729 cm²).

Auxiliary rear drum brake — Optional. Increases brake lining contact area by 651 square inches (4 201 cm²); 44" (1.12 m) diameter, 5½" (0.14 m) face width. Pressure on mechanical brake pedal applies the standard rear drum brake band and the auxiliary rear drum brake band simultaneously; linkage divides braking effort equally between standard and auxiliary brakes. Mounts in load lowering clutch location. **Note:** Auxiliary rear drum brake not available on rear drum equipped with optional load lowering clutch or two-speed hoist.



Drum rotation indicators

Standard for front and rear main operating drums. Two rotating dials mounted on control stand; dials actuated by flexible shaft drive from front or rear main operating drum.



Swing system

Spur gear driven; single bevel gears (enclosed and running in oil) on horizontal swing shaft and vertical shaft. Swing pinion, involute splined to vertical swing shaft, meshes with internal teeth of swing gear integral with outer race of turntable.



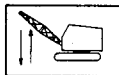
Swing clutches

Speed-o-Matic power hydraulic internal expanding two-shoe clutches. 30" (0.76 m) diameter, 6½" (0.15 m) face width; lined shoes.

Swing brake — External contracting band; spring applied, hydraulically released by operator controlled lever. Brake drum involute splined to vertical swing shaft. Brake 18" (0.46 m) diameter, 5" (0.13 m) face width; effective lining area 212 square inches (1 368 cm²).

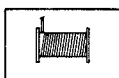
Swing lock — Mechanically controlled pawl engages with internal teeth of turntable bearing swing (ring) gear.

Maximum swing speed — 3.0 r.p.m.



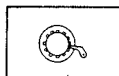
Boom hoist/ lowering system

Independent, worm gear driven. Boom hoist/lowering assembly mounted on platform at cab roof level. Precision control boom hoisting and lowering through power hydraulic two-shoe clutches.



Boomhoist drum

Dual laggings involute splined to shaft; 10½" (0.27 m) root diameter grooved.



Boomhoist drum locking pawl

Operator controlled; mechanically applied and released.



Boom hoist/ lowering clutches

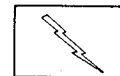
Speed-o-Matic power hydraulic two-shoe clutches; one each for boom hoisting and boom lowering. Clutches 17½" (0.44 m) diameter, 4" (0.10 m) face width; effective lining area 121 square inches (781 cm²).



Boom hoist brake

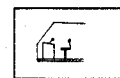
One external contracting band brake; spring applied, hydraulically released. Brake drum involute splined to worm shaft. Brake 12" (0.80 m) diameter, 4" (0.10 m) face width; effective lining area 120 square inches (774 cm²).

Boomhoist limiting device — Provided to restrict hoisting boom beyond recommended minimum radius; located on exterior right hand side of operator's cab.



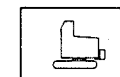
Electrical system

Battery, 12 volt, 225 ampere hour; two batteries. **Optional:** battery lighting system, including two sealed beam automotive type adjustable headlights located on cab front roof, one interior cab light and automotive type wiring. **Optional:** additional 50 watt sealed beam automotive type headlight mounted on boom (three maximum quantity recommended). **Optional:** Onan independent light plant with single cylinder, four cycle, air cooled diesel engine with remote electrical starting, 3,000 watt, 120-volt, three-wire, single phase, 60 cycles A.C. including wiring in conduit, three interior cab lights, trouble lamp with cord, two 300 watt adjustable flood lights on cab front roof and necessary cab extensions. **Optional:** additional 300 watt flood lights available for mounting on cab and boom.



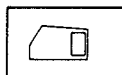
Operator's cab

Full vision, equipped with safety glass panels. Operator's door is hinged; front window slides on ball bearing rollers. Standard equipment includes dry chemical fire extinguisher, machinery guards. **Optional:** electrical windshield wiper, cab heater, defroster fan, and sound reduction material.



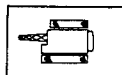
Elevated operator's cab

Optional. 18' (5.49 m) higher than standard operator's cab (25' — 7.62 m — eye level). Catwalk is included along operator's side. Sound reduction material is not available, and cab heater and defroster fan are not recommended for elevated cab.



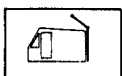
Machinery cab

Equipped with warning horn, right rear side door hinged, sliding doors (two at rear, one at left rear side, and one at right front side) for machinery access, roof-top access ladder, and skid-resistant finish on roof.



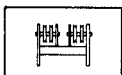
Catwalks

Standard for both sides of machinery cab. Channel and floor plate construction with hand railings.



Gantry

Fixed low, mounted to revolving upperstructure frame to support boom suspension system.



Gantry rail

Mounted to gantry headshaft. Contains eight 12" (0.30 m) root diameter sheaves mounted on bronze bushings for 18-part boomhoist wire rope reeving.

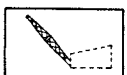


Counterweight

Removable; held in place by "T" bolts.
 — Counterweight "A" 20,500 lbs. (9 299 kg).
 — Counterweight "AB" (standard): 90,000 lbs. (40 824 kg) available for lifting crane service only; three-piece allowing for reduction to weight "A". (Refer to counterweight requirement instructions with lifting capacity charts).

Counterweight removal device — Standard. Counterweight can be raised or lowered with rope mechanism. Rope is anchored to and wound on special drum cast integrally with rear brake drum and lowered against rear drum brake.

Booms and jibs



Angle boom

Two-piece basic boom 50' (15.24 m) long with open throat top section; 60" (1.52 m) wide, 54" (13.7 m) deep at connections. Alloy steel chord angles 4" x 4" x 1/2" (102 x 102 x 13 mm).

Base section — 25' (7.62 m) long; boomfeet 2 3/4" (78 mm) wide on 54 1/2" (0.86 m) centers.

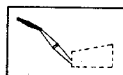
Boom extensions — Available in 10', 20' and 30' (3.05, 6.10 and 9.14 m) lengths with appropriate length pendants.

Boom connections — Pin connected.

Boom top section — Open throat; 25' (7.62 m) long.

Boompnt machinery. Five 21" (0.53 m) root diameter sheaves mounted on anti-friction bearings for lifting crane application; two 21" (0.53 m) root diameter sheaves for dragline application.

Boom midpoint suspension pendants — Required on boom lengths exceeding 180' (54.86 m). **Note:** Boom must have a joint 85' (25.91 m) from boom foot pins to allow attachment of midpoints.



Angle jib

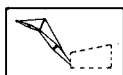
Two-piece basic jib 20' (6.10 m) long; 24" (0.61 m) wide, 20" (0.51 m) deep at connections. Alloy steel main chord angles 2 1/2" x 2 1/2" x 5/16" (64 x 64 x 8 mm).

Base section — 10' (3.05 m) long; mounted to bracket welded on end boom top section.

Jib extensions — Available in 10' and 15' (3.05 and 4.57 m) lengths; maximum jib length permitted — 40' (12.19 m).

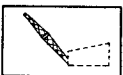
Jib connections — Bolted

Jib tip section — 10' (3.05 m) long; single peak sheave 15 7/8" (4.57 m) root diameter mounted on anti-friction bearings.



Jib mast

10' (3.05 m) high, mounted on jib base section. One deflector sheave mounted on anti-friction bearings, mounted within mast to guide jib load hoist line. Three equalizer sheaves mounted on top of mast — one for jib frontstay line, two for jib backstay line.



Tubular boom

Two-piece basic boom 60' (18.29 m) long with open throat top section; 35' (10.67 m) long with hammerhead top section. Boom 70" (1.77 m) wide, 62" (1.57 m) deep at connections. Alloy steel round tubular chords 4" (0.10 m) outside diameter.

Base section — 30' (9.14 m) long; boomfeet 2 3/4" (70 mm) wide on 54 1/2" (1.37 m) centers.

Boom extensions — Available in 10', 20', 30', and 40' (3.05, 6.10, 9.14 and 12.19 m) lengths (chord wall thickness "F") with appropriate length pendants. Available in 10' and 20' (3.05 and 6.10 m) lengths (chord wall thickness "J") with appropriate length pendants for boom with hammerhead top section only.

Note: The 40' (12.19 m) of hammerhead boom extensions immediately above boom base section **must** consist of 10' or 20' (3.05 or 6.10 m) extensions with chord wall thickness "J".

Boom connections — In-line pin connections.

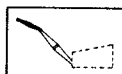
Boom top section — Open throat; 30' (9.14 m) long.

— *Boompnt machinery*. Five 21" (0.53 m) root diameter sheaves mounted on anti-friction bearings for lifting crane applications; two 26 1/4" (0.67 m) root diameter sheaves for dragline applications.

Boom top section — Hammerhead; 5' (1.52 m) long.

— *Boompnt machinery*. Five 21" (0.53 m) root diameter head sheaves mounted on anti-friction bearings for lifting crane applications. Boom midpoint suspension pendants — Required on boom lengths exceeding 180' (54.86 m).

Note: Boom must have a joint 110' (33.53 m) from boom foot pins to allow attachment of midpoints.



Tubular jib

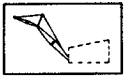
Two-piece basic jib 30' (9.14 m) long; 36" (0.91 m) wide, 30" (0.76 m) deep at connections. Alloy steel tubular chords 2 1/4" (57 mm) outside diameter.

Base section — 15' (4.57 m) long; mounted to boom headshaft hubs.

Jib extensions — Available in 10', 15', 20', 30', and 40' (3.05, 4.57, 6.10, 9.14, and 12.19 m) lengths; maximum jib length permitted — 70' (21.34 m).

Jib connections — In-line pin connections.

Jib tip section — 15' (4.57 m) long; single peak sheave 21" (0.53 m) root diameter mounted on anti-friction bearings.



Jib mast

12' 7 $\frac{7}{8}$ " (6.85 m) high, mounted on jib base section. One deflector sheave, mounted on anti-friction bearings, mounted within mast to guide jib load hoist line. Jib frontstay line and jib backstay line pin at top of jib mast.



Tubular boom

Three-piece basic boom 130' (39.62 m) long with tapered top section; 80" (2.03 m) wide, 68" (1.73 m) deep at connections. Alloy steel round tubular chords 4 $\frac{1}{4}$ " (0.10 m) outside diameter.

Base section — 35' (10.67 m) long; boomfeet 2 $\frac{3}{4}$ " (10 mm) wide on 54 $\frac{1}{2}$ " (1.37 m) centers.

Transition section — Tapered, 50' (15.24 m) tapered from 80" (2.03 m) wide, 68" (1.73 m) deep at lower end to 55" (1.40 m) wide, 41" (1.04 m) deep at top end.

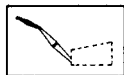
Boom extensions — Available in 10', 20', 30', 40' and 50' (3.05, 6.10, 9.14, 12.19, and 15.24 m) lengths with appropriate length pendants.

Boom connections — In-line pin connections.

Boom top section — Tapered, 45' (13.72 m) long; tapered from 55" (1.40 m) wide, 41" (1.04 m) deep at lower end to 32" (0.81 m) wide, 17" (0.43 m) deep at top end.

Boompoint machinery — Two 28 $\frac{3}{8}$ " (0.72 m) root diameter head sheaves, mounted on anti-friction bearings.

Boom midpoint suspension pendants — Required on boom lengths greater than 200' (60.96 m). **Note:** Boom must have a joint 115' (35.05 m) from boom foot pins to allow attachment of midpoints.



Tubular jib

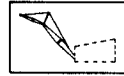
Two-piece basic jib 30' (9.14 m) long; 36" (0.91 m) wide, 30" (0.76 m) deep at connections. Alloy steel tubular chords 2 $\frac{1}{4}$ " (57 mm) outside diameter.

Base section — 15' (4.57 m) long; mounted to boom headshaft hubs.

Jib extensions — Available in 20' (6.10 m) lengths; maximum jib length permitted — 70' (21.34 m).

Jib connections — In-line pin connected.

Jib tip section — 15' (4.57 m) long; single peak sheave 15 $\frac{7}{8}$ " (0.40 m) root diameter mounted on anti-friction bearings.



Jib mast

12' 7 $\frac{7}{8}$ " (6.85 m) high, mounted on jib base section. Two deflector sheaves, mounted on anti-friction bearings, mounted within mast to guide jib load hoist line. Jib frontstay line and jib backstay line pin at top of jib mast.

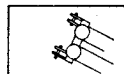
Items applicable to both tubular or angle booms and jibs



Boom stops

Dual rail, retractable tubular type; spring-loaded bumper ends. Also serve as mast stops when live mast is used as short boom.

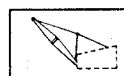
Boom stop warning indicator — Mounts on boom base section; visually warns operator that boom is near minimum radius and boom stops are approaching seating condition. When boom stop disengages, indicator is spring released to original position.



Boomhoist bridle

Serves as connection between boom pendants and boomhoist reeving. Bridle contains eight 12" (0.30 m) root diameter head sheaves, mounted on bronze bushings, for eighteen-part boomhoist reeving with boom live mast.

Spreader bar — Installed at end of first 30' (9.14 m) pendant which is connected directly to boom head shaft. Required on boom lengths 150' (45.72 m) and over, with or without jib.



Boom live mast

Required for all boom lengths; reduces boom compression loadings. 30' (9.14 m) long from center of head shaft to mounting pin; mounts on front of upper frame near boomfeet. Supports boomhoist bridle and boom midpoint suspension pendants. Mast may be used for machine assembly/disassembly, but is not intended for general crane service. **Note:** Refer to Performance Specifications for boom live mast lifting capacities.

Auxiliary load hoist sheaves — Two 13" (0.33 m) root diameter sheaves mounted on bronze bushings, grooved for 3/4" (19 mm) diameter wire rope. For use of boom live mast as short boom.

Live mast stops — When using mast as short boom, main boom stops must be attached to cab for live mast backstops to function properly. Live mast backstops must be manually positioned.

Boompoint sheave guards — Standard for open throat crane/clamshell/magnet/dragline service. Upper sheave guard: single tubular guard bolted to top side of boom head. Lower sheave guards: tubular roller guards mounted on anti-friction bearings; five for crane service, three for clamshell/magnet/dragline service. Rigid guards for hammerhead and tapered top booms.

Deflector rollers — Deflect main or third drum hoist line off boom to avoid chafing; rollers mounted an anti-friction bearings. Angle boom: none on base section, two mounted on top section, and one on each boom extension. Tubular boom: open throat — none on base section, two mounted on top section, and one on each boom extension; hammerhead — none on base section, one mounted on each boom section; tapered top — none on base section, three mounted on top section, two on 40' and 50' (12.19 and 15.24 m) extensions, and one on remaining extensions.

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

Jib staylines — Back staylines attached between top of jib mast and base of boom top section. Front staylines attached between top of jib mast and peak of jib.

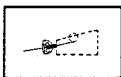
Boom carrying equipment — For carrying boom in horizontal position with live mast at approximate 15' (4.57 m) overall clearance height from ground. May be used with angle or tubular booms 50' through 120' (15.24 through 36.28 m). **Note:** Tapered top boom cannot be carried with live mast in lowered position. Boom suspension system uses two links, one at each end of the 10' (3.05 m) pendant portion of basic pendants. The free ends of the links are pinned together shortening overall pendant length, lowering live mast relative to the boom. Booms cannot be used to handle loads with reduced mast height.

Auxiliary equipment



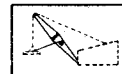
Boom angle indicator

Standard with all crane booms. Pendulum type, mounted on boom base section.



Fairlead

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



Tagline

Optional. Spring wound drum type mounted on crane boom. Rud-O-Matic® model 1848, triple barrel with 30' (0.76 m) reel for booms not exceeding 100' (30.48 m); for use with 4 to 5 cubic yard (3.06 to 3.82 m³) clamshell buckets.

GENERAL INFORMATION ONLY

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



Link-Belt® LS-518 Performance Specifications

Boom live mast — lifting capacities when used as short boom ①

Boom live mast radius ②③		Capacities	
Feet	meters	Pounds	kilograms
13 to 20*	3.96 to 6.10*	47,000	21 319
25*	7.62*	30,000	13 608
28*	8.53*	23,000	10 433

- * Based on factors other than that which would cause a tipping condition.
- ① Requires 4 parts of 3/4" (19 mm) Type "N" wire rope.
- ② Boom live mast stops must be in proper working condition and operative. Use of live mast as short boom is intended for machine assembly or disassembly only. It should not be used for general crane service.
- ③ Live mast must not be operated at radius less than 13' (3.96 m).

Wire rope and drum data

Main load hoist wire rope length — for open throat ① hammerhead ② and tapered top ③ booms using 1 1/8" (28 mm) diameter wire rope

Parts of line	Boom lengths															
	50' (15.24 m)		60' (18.29 m)		70' (21.34 m)		80' (24.38 m)		90' (27.43 m)		100' (30.48 m)		110' (33.53 m)		120' (36.58 m)	
	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters
1	120	36.58	140	42.67	160	48.77	180	54.86	200	60.96	220	67.06	240	73.15	260	79.25
2	180	54.86	210	64.01	240	73.15	270	82.30	300	91.44	330	100.58	360	109.73	390	118.87
3	240	73.15	280	85.34	320	97.54	360	109.73	400	121.92	440	134.11	480	146.30	520	158.50
4	300	91.44	350	106.68	400	121.92	450	137.16	500	152.40	550	167.64	600	182.88	650	198.12
5	360	109.73	420	128.02	480	146.30	540	164.59	600	182.88	660	201.17	720	219.46	780	237.74
6	420	128.02	490	149.35	560	170.69	630	192.02	700	213.36	770	234.70	840	256.03	910	277.37
7	480	146.30	560	170.69	640	195.07	720	219.46	800	243.84	880	268.22	960	292.61	1,040	316.99
8	540	164.59	630	192.02	720	219.46	810	246.89	900	274.32	990	301.75	1,080	329.18	1,170	356.62
9	600	182.88	700	213.36	800	243.84	900	274.32	1,000	304.80	1,100	335.28	1,200	365.76	1,300	396.24
10	660	201.17	770	234.70	880	268.22	990	301.75	1,100	335.28	1,210	368.81	1,320	402.34	1,430	435.86

Parts of line	Boom lengths															
	130' (39.62 m)		140' (42.67 m)		150' (45.72 m)		160' (48.77 m)		170' (51.82 m)		180' (54.86 m)		190' (57.91 m)		200' (60.96 m)	
	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters
1	280	85.34	300	91.44	320	97.54	340	103.63	360	109.73	380	115.82	400	121.92	420	128.02
2	420	128.02	450	137.16	480	146.30	510	155.45	540	164.59	570	173.74	600	182.88	630	192.02
3	560	170.69	600	182.88	640	195.07	680	207.26	720	219.46	760	231.65	800	243.84	840	256.03
4	700	213.36	750	228.60	800	243.84	850	259.08	900	274.32	950	289.56	1,000	304.80	1,050	320.04
5	840	256.03	900	274.32	960	292.61	1,020	310.90	1,080	329.18	1,140	347.47	1,200	365.76	1,260	384.05
6	980	298.70	1,050	320.04	1,120	341.38	1,190	362.71	1,260	384.05	1,330	405.38	1,400	426.72	1,470	448.06
7	1,120	341.38	1,200	365.76	1,280	390.14	1,360	414.53	1,440	438.91	1,520	463.30	1,600	487.68	1,680	512.06
8	1,260	384.05	1,350	411.48	1,440	438.91	1,530	466.34	1,620	493.78	1,710	521.21	1,800	548.64	1,890	576.07
9	1,400	426.72	1,500	457.20	1,600	487.68	1,700	518.16	1,800	548.64	1,900	579.12	2,000	609.60	2,100	640.08
10	1,540	469.39	1,650	502.92	1,760	536.45	1,870	569.98	1,980	603.50	2,090	637.03	2,200	670.56	2,310	704.09

Parts of line	Boom lengths															
	210' (64.01 m)		220' (67.06 m)		230' (70.10 m)		240' (73.15 m)		250' (75.20 m)		260' (79.25 m)		270' (82.30 m)		280' (85.34 m)	
	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters
1	440	134.11	460	140.21	480	146.30	500	152.40	520	158.50	540	164.59	560	170.69	580	176.78
2	660	201.17	690	210.31	720	219.46	750	228.60	780	237.74	810	246.89	840	256.03	870	265.18
3	880	268.22	920	280.42	960	292.61	1,000	304.80	1,040	316.99	1,080	329.18	1,120	341.38	1,160	353.57
4	1,100	335.28	1,150	350.52	1,200	365.76	1,250	381.00	1,300	396.24	1,350	411.48	1,400	426.72	1,450	441.96
5	1,320	402.34	1,380	420.62	1,440	438.91	1,500	457.20	1,560	475.49						
6	1,540	469.39	1,610	490.73	1,680	512.06	1,750	533.40	1,820	554.74						
7	1,760	536.45	1,840	560.83	1,920	585.22	2,000	609.60	2,080	633.98						
8	1,980	603.50	2,070	630.94	2,160	658.37	2,250	685.80	2,340	713.23						
9	2,200	670.56	2,300	701.04												

Parts of line	290' (88.39 m)	
	Feet	meters
	1	600
2	900	274.32
3	1,200	365.76
4	1,500	457.20

- ① Open throat 54" x 60" (1.37 x 1.52 m) angle boom lengths: 50' (15.24 m) through 210' (64.01 m).
Open throat 62" x 70" (1.57 x 1.77 m) tubular boom lengths: 60' (18.29 m) through 250' (76.20 m).
- ② Hammerhead 62" x 70" (1.57 x 1.77 m) tubular boom lengths: 35' (10.67 m) through 245' (74.68 m).
- ③ Tapered top 80" x 68" (2.03 x 1.73 m) tubular boom lengths: 130' (39.62 m) through 290' (88.39 m).

LS-518 performance specifications

Wire rope and drum data — (continued)

Jib load hoist rope lengths (whipline) — using 7/8" (22 mm) diameter wire rope

Jib length	Parts of line	Boom lengths															
		50' (15.24 m)		60' (18.29 m)		70' (21.34 m)		80' (24.38 m)		90' (27.43 m)		100' (30.48 m)		110' (33.53 m)		120' (36.58 m)	
		Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters
20' ① (6.10 m)	1	160	48.77	180	54.86	200	60.96	220	67.06	240	73.15	260	79.25	280	85.34	300	91.44
	2	235	71.63	265	80.77	295	89.92	325	99.06	355	108.20	385	117.35	415	126.49	445	135.64
30' (9.14 m)	1	180	54.86	200	60.96	220	67.06	240	73.15	260	79.25	280	85.34	300	91.44	320	97.54
	2	265	80.77	295	89.92	325	99.06	355	108.20	385	117.35	415	126.49	445	135.64	475	144.78
50' ② (15.24 m)	1	Not applicable		240	73.15	260	79.25	280	85.34	300	91.44	320	97.54	340	103.63	360	109.73
	2			355	108.20	385	117.35	415	126.49	445	135.64	475	144.78	505	153.92	535	163.07
70' ② (21.34 m)	1	Not applicable		280	85.34	300	91.44	320	97.54	340	103.63	360	109.73	380	115.82	400	121.92
	2			415	126.49	445	135.64	475	144.78	505	153.92	535	163.07	565	172.21	595	181.36

Jib length	Parts of line	Boom lengths															
		130' (39.62 m)		140' (42.67 m)		150' (45.72 m)		160' (48.72 m)		170' (51.82 m)		180' (54.86 m)		190' (57.91 m) ③		200' (60.96 m)	
		Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters
20' ① (6.10 m)	1	320	97.54	340	103.63	360	109.73	380	115.82	400	121.92	420	128.02	440	134.11	Not applicable	
	2	475	144.78	505	153.92	535	163.07	565	172.21	595	181.36	625	190.50	635	193.55		
30' (9.14 m)	1	340	103.63	360	109.73	380	115.82	400	121.92	420	128.02	440	134.11	460	140.21	480	146.30
	2	505	153.92	535	163.07	565	172.21	595	181.36	625	190.50	655	199.64	685	208.79	715	217.93
50' ② (15.24 m)	1	380	115.82	400	121.92	420	128.02	440	134.11	460	140.21	480	146.30	500	152.40	520	158.50
	2	565	172.21	595	181.36	625	190.50	655	199.64	685	208.79	715	217.93	745	227.08	775	236.22
70' ② (21.34 m)	1	420	128.02	440	134.11	460	140.21	480	146.30	500	152.40	520	158.50	540	164.59	560	170.69
	2	625	190.50	655	199.64	685	208.79	715	217.93	745	227.08	775	236.22	805	245.36	835	254.51

Jib length	Parts of line	Boom lengths									
		210' (64.01 m)		220' (67.06 m)		230' (70.10 m) ④		240' (73.15 m) ④		250' (75.20 m) ④	
		Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters
20' ① (6.10m)	1	Not applicable									
	2										
30' (9.14 m)	1	500	152.40	520	158.50	540	164.59	560	170.69	580	176.78
	2	745	227.08	775	236.22	805	245.36	835	254.51	865	263.65
50' ② (15.24 m)	1	540	164.59	560	170.69	580	176.78	600	182.88	620	188.98
	2	805	245.36	835	254.51	865	263.65	895	272.80	925	281.94
70' ② (21.34 m)	1	580	176.78	600	182.88	620	188.98	640	195.07	660	201.17
	2	865	263.65	895	272.80	925	281.94	955	291.08	985	300.23

- ① Angle jibs only.
- ② Tubular jibs only.
- ③ Maximum angle boom length on which jib can be mounted is 190' (57.91 m).
- ④ Maximum tubular boom lengths on which jibs can be mounted: open throat — 230' (70.10 m); hammerhead — 225' (68.58 m); tapered top — 250' (75.20 m).

Clamshell or dragline wire rope lengths using one part wire rope

Attachment	Function	Boom lengths									
		50' (15.24 m)		60' (18.29 m)		70' (21.34 m)		80' (24.38 m)		90' (27.43 m)	
		Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters
Clamshell	Holding Closing	130	39.62	150	45.72	170	51.82	190	57.91	210	64.01
		180	54.86	200	60.96	220	67.06	240	73.15	260	79.25
Dragline	Hoist Inhaul	130	39.62	150	45.72	170	51.82	190	57.91	210	64.01
		75	22.86	85	25.91	95	28.96	105	32.00	115	35.05

Boom hoist wire rope length — 640' (195.07 m)

LS-518 performance specifications

Drum wire rope capacities

Wire rope layer	Front or rear drum — 19½" (0.48 m) root diameter smooth lagging				Front or rear drum — 27" (0.69 m) root diameter smooth lagging				Boomhoist drum — 10½" (0.27 m) root diameter grooved lagging			
	1½" (28 mm) wire rope								¾" (19 mm) wire rope			
	Rope per layer		Total wire rope		Rope per layer		Total wire rope		Rope per layer		Total wire rope	
	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters
1	75	22.86	75	22.86	103	31.39	103	31.39	29	8.84	29	8.84
2	90	27.43	165	50.29	118	35.97	221	67.36	40	12.19	69	21.03
3	99	30.18	264	80.47	126	38.40	347	105.77	45	13.72	114	34.75
4	109	33.22	373	113.69	132	40.23	479	146.00	49	14.94	163	49.68
5	117	35.66	490	149.35					54	16.46	217	66.14
6	126	38.40	616	187.76					59	17.98	276	84.12
7	135	41.15	751	228.90								
8	144	43.89	895	272.80								

Wire rope layer	Front drum (Inhaul) — 24¾" (0.62 m) root diameter grooved lagging				Front or rear drum — 27" (0.69 m) root diameter grooved lagging				Third drum — 13¼" (0.34 m) root diameter smooth lagging			
	1½" (28 mm) wire rope								¾" (22 mm) wire rope			
	Rope per layer		Total wire rope		Rope per layer		Total wire rope		Rope per layer		Total wire rope	
	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters
1	89	27.13	89	27.13	110	33.53	110	33.53	69	21.03	69	21.03
2	111	33.83	200	60.86	154	46.94	264	80.47	151	46.02	220	67.06
3	120	36.58	320	97.54	162	49.38	426	129.84	242	73.76	462	140.82
4	129	39.32	449	136.86	171	52.12	597	181.97	342	104.24	804	245.06
5	138	42.06	587	178.92	180	54.86	777	236.83	451	137.46	1,255	382.52
6	147	44.81	734	223.72	189	57.61	966	294.44				

Available line speed and line pull ^① — based on Cummins N855-P310 ^② diesel engine with three stage Twin Disc torque converter developing maximum net horsepower as developed by P.C.S.A. Standard No. 1

Attachment	Front or rear drum								Third drum					
	Root diameter	Wire rope diameter		Line speed first layer		Line pull first layer		Root diameter	Wire rope diameter		Line speed first layer		Line pull first layer	
		Inches	mm	Fp.m.	m/min	Pounds	kilograms		Inches	mm	Fp.m.	m/min	Pounds	kilograms
Crane	19½" (0.49 m)	¾	22	101	30.78	61,400	27 851	13¼" (0.34 m)	¾	22	117	35.66	29,800	13 517
		1	26	102	31.09	61,000	27 670							
		1½	28	103	31.39	60,700	27 534							
Crane	27" (0.69 m)	¾	22	142	43.28	44,100	20 004							
		1	26	142	43.28	43,800	19 868							
		1½	28	143	43.59	43,500	19 732							
Clamshell hoist and closing or dragline hoist	27" (0.69 m)	¾	22	142	43.28	44,100	20 004							
		1	26	142	43.28	43,800	19 868							
Dragline inhaul	24¾" (0.62 m)	1	26	129	39.32	47,000	21 319							
		1½	28	130	39.62	46,700	21 183							

Permissible line speed and pull ^① — based on Type "N" wire rope strength, single part line

Attachment	Front or rear drum								Third drum					
	Root diameter	Wire rope diameter		Line speed first layer		Line pull first layer		Root diameter	Wire rope diameter		Line speed first layer		Line pull first layer	
		Inches	mm	Fp.m.	m/min	Pounds	kilograms		Inches	mm	Fp.m.	m/min	Pounds	kilograms
Crane	19½" (0.49 m)	¾	22	101	30.78	22,700	10 297	13¼" (0.34 m)	¾	22	117	35.66	22,700	10 297
		1	26	102	31.09	29,500	13 381							
		1½	28	103	31.39	37,100	16 829							
Crane	27" (0.69 m)	¾	22	142	43.28	22,700	10 297							
		1	26	142	43.28	29,500	13 381							
		1½	28	143	43.59	37,100	16 829							
Clamshell hoist and closing, or dragline hoist	27" (0.69 m)	¾	22	142	43.28	22,700	10 297							
		1	26	142	43.28	29,500	13 381							
Dragline inhaul	24¾" (0.62 m)	1	26	129	39.32	29,500	13 381							
		1½	28	130	39.62	37,100	16 829							

^① Maximum permissible load on single part of line for Type "N" wire rope: ¾" (19 mm) — 16,800 lbs. (7 620 kg); ¾" (22 mm) — 22,700 lbs. (10 297 kg); 1" (26 mm) — 29,600 lbs. (13 427 kg); 1½" (28 mm) — 37,100 lbs. (16 829 kg). Maximum permissible load for ¾" (22 mm) Type "P" wire rope — 14,800 lbs. (6 713 kg).
^② Data applicable only to Cummins NT855-P310 engine package. If required, similar data for other engine packages available from Sales Office.

LS-518 performance specifications

Load hoisting performance ① — line speeds are maximum for full throttle operation (2,100 r.p.m. line load speed) with Cummins NT855-P310 diesel engine equipped with three stage Twin Disc torque converter and auxiliary governor control

Single line load ②		Front or rear drum — 19½" (0.48 m) root diameter using 1½" (28 mm) diameter wire rope											
		Line speed											
		First layer rope				Fifth layer rope				Eighth layer rope			
		Standard		High speed ③		Standard		High speed ③		Standard		High speed ③	
Pounds	kilograms	F.p.m.	m/min	F.p.m.	m/min	F.p.m.	m/min	F.p.m.	m/min	F.p.m.	m/min	F.p.m.	m/min
5,000	2 268	199	60.66	337	102.72	279	85.04	471	143.56	339	103.33	561	170.99
10,000	4 536	191	58.22	310	94.49	260	79.25	406	123.75	306	93.27	452	137.77
15,000	6 804	180	54.86	276	84.12	241	73.46	335	102.11	278	84.73	368	112.17
20,000	9 072	170	51.82	244	74.37	222	67.67	283	86.26	250	76.20	297	90.53
25,000	11 340	159	48.46	215	65.53	199	60.66	237	72.24	221	67.36	236	71.93
30,000	13 608	151	46.02	191	58.22	180	54.86	198	60.35	198	60.35		
35,000	15 876	143	43.59	170	51.82	165	50.29	168	51.21	179	54.56		
40,000*	18 144*	132*	40.23*	148*	45.11*	152*	46.33*			160*	48.77*		
45,000*	20 412*	122*	37.19*	132*	40.23*	140*	42.67*			141*	42.98*		
50,000*	22 680*	117*	35.66*			126*	38.40*			127*	38.71*		
55,000*	24 948*	109*	33.22*			115*	35.05*						
60,000*	27 216*	103*	31.39*			107*	32.61*						

Single line load ②		Front or rear drum — 27" (0.69 m) root diameter using ¾" (22 mm) wire rope											
		Line speed											
		First layer rope				Fourth layer rope				Sixth layer rope			
		Standard		High speed ③		Standard		High speed ③		Standard		High speed ③	
Pounds	kilograms	F.p.m.	m/min	F.p.m.	m/min	F.p.m.	m/min	F.p.m.	m/min	F.p.m.	m/min	F.p.m.	m/min
5,000	2 268	267	81.38	447	136.25	314	95.71	520	158.50	345	105.16	566	172.52
10,000	4 536	251	76.50	389	118.57	292	89.00	434	132.28	317	96.62	460	140.21
15,000	6 804	235	71.63	329	100.28	266	81.08	355	108.20	285	86.87	366	111.56
20,000	9 072	215	65.53	276	84.12	240	73.15	292	89.00	253	77.11	297	90.53
25,000*	11 340*	197*	60.05*	236*	71.93*	215*	65.53*	241*	73.46*	224*	68.28*	240*	73.15*
30,000*	13 608*	180*	54.87*	201*	61.26*	192*	58.52*	200*	60.96*	199*	60.66*		
35,000*	15 876*	164*	49.99*	171*	52.12*	174*	53.04*			178*	54.25*		
40,000*	18 144*	150*	45.72*			157*	47.85*			159*	48.46*		
45,000*	20 412*	138*	42.06*			142*	43.28*			142*	43.28*		
50,000*	22 680*	127*	38.71*			127*	38.71*						
55,000*	24 948*	116*	35.36*										
60,000*	27 216*	106*	32.31*										

*Based on factors other than allowable strength of single line of wire rope.

① Data applicable only to Cummins NT855-P310 engine package as described above. If required, similar data for other engine packages available from Sales Office.

② Maximum permissible load on single part of line for Type "N" wire rope: ¾" (22 mm) — 22,700 lbs. (10 297 kg); 1½" (28 mm) — 37,100 lbs. (16 829 kg). Maximum permissible load for ¾" (22 mm) Type "P" wire rope; 14,800 lbs. (6 713 kg).

③ Machine equipped with optional high speed planetary drum drive unit.

Rope size and type

Wire rope application	Size and type used
Boomhoist	¾" (19 mm) diameter, Type "W"
Main load hoist	1½" (28 mm) diameter, Type "N"
Jib load hoist (1-part)	¾" (22 mm) diameter, Type "P"
Jib load hoist (2-part)	¾" (22 mm) diameter, Type "N"
Third drum	¾" (22 mm) diameter, Type "N"
Clamshell holding (hoist) or closing	¾" (22 mm) diameter, Type "M"
Dragline hoist	¾" (22 mm) diameter, Type "M"
Dragline inhaul	1½" (28 mm) diameter, Type "G"
Boom pendants	1¾" (35 mm) diameter, Type "N"
Boom midpoint suspension pendants ④	¾" (22 mm) diameter, Type "N"
Jib frontstay line	¾" (19 mm) diameter, Type "N"
Jib backstay line	¾" (19 mm) diameter, Type "N"

④ Required on boom lengths exceeding 180' (54.86 m).

Wire rope types
Type "M" — 6 x 25 (6 x 19 class), filler wire, extra improved plow steel, preformed, independent wire rope center, right lay, lang lay.
Type "N" — 6 x 25 (6 x 19 class), filler wire, extra improved plow steel, preformed, independent wire rope center, right lay, regular lay.
Type "P" — 19 x 7 non-rotating, extra improved plow steel, preformed, wire strand core.
Type "G" — 6 x 30 flattened strand, extra improved plow steel, preformed, independent wire rope center, right lay, lang lay.
Type "W" — 6 x 26 (6 x 19 class), extra improved plow steel, preformed, independent wire rope center, right lay, alternate lay.

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



FMC Corporation Cable Crane and Excavator Division Cedar Rapids Iowa 52406

Link-Belt® cranes & excavators manufactured in: Cedar Rapids Iowa • Lexington & Bowling Green Kentucky • Ontario Canada • Milan Italy • Queretaro Mexico & Nagoya Japan (under license)

Link-Belt® LS-518 lifting crane capacities

PSCA Class 15-773
Refer to Notes page 6

Boom — tubular, 62" x 70" (1.57 x 1.77 m)
with open throat; with boom live mast;
with boom midpoint suspension
pendants as required.

Crawler — 16' 0" (4.88 m) gauge,
24' 4" (7.42 m) over-all length.

Counterweights — 20,500# (9,299 kg)
ctwt. "A" or 90,000# (40,824 kg)
ctwt. "AB".

Length	Boom					Ctwt. "A"		Ctwt. "AB"	
	Radius		Angle	Boom Point Height [Ⓢ]		Pounds	Kilograms	Pounds	Kilograms
	Feet	Meters	Degree	Feet	Meters				
60' (18.29 m)	15	4.57	80.1	65' 6"	19.96	216,200	98,068	300,000*	136,080*
	16	4.88	79.1	65' 4"	19.91	187,300	84,959	288,500*	130,864*
	17	5.18	78.1	65' 2"	19.86	165,200	74,935	273,900*	124,241*
	18	5.49	77.2	64' 11"	19.79	147,600	66,951	260,500*	118,163*
	19	5.79	76.2	64' 8"	19.71	133,300	60,464	239,700	108,728
	20	6.10	75.2	64' 5"	19.64	121,400	55,067	218,700	99,202
	25	7.62	70.2	62' 10"	19.15	83,500	37,876	151,600	68,766
	30	9.14	65.0	60' 10"	18.54	63,100	28,622	115,400	52,345
	35	10.67	59.6	58' 3"	17.75	50,300	22,816	92,800	42,094
	40	12.19	53.9	54' 11"	16.74	41,500	18,824	77,300	35,063
	50	15.24	40.9	45' 9"	13.94	30,300	13,744	57,500	26,082
60	18.29	22.7	29' 8"	9.04	23,300	10,569	45,200	20,503	
70' (21.34 m)	16	4.88	80.7	75' 6"	23.01	187,700	85,141	284,700*	129,140*
	17	5.18	79.9	75' 4"	22.96	165,500	75,071	273,500*	124,060*
	18	5.49	79.0	75' 1"	22.88	147,800	67,042	260,100*	117,981*
	19	5.79	78.2	74' 11"	22.58	133,600	60,601	239,900	108,819
	20	6.10	77.3	74' 9"	22.84	121,600	55,178	218,900	99,293
	25	7.62	73.1	73' 5"	22.38	83,600	37,921	151,600	68,766
	30	9.14	68.8	71' 8"	21.84	63,200	28,668	115,400	52,345
	35	10.67	64.3	69' 6"	21.18	50,300	22,816	92,900	42,139
	40	12.19	59.7	66' 10"	20.37	41,500	18,824	77,300	35,063
	50	15.24	49.6	59' 9"	18.21	30,300	13,744	57,500	26,082
	60	18.29	37.8	49' 3"	15.01	23,300	10,569	45,300	20,548
70	21.34	21.0	31' 7"	9.63	18,600	8,437	37,000	16,783	
80' (24.38 m)	17	5.18	81.1	85' 5"	26.03	165,700	75,162	257,500*	116,802*
	18	5.49	80.4	85' 3"	25.98	148,000	67,133	253,500*	114,988*
	19	5.79	79.7	84' 11"	25.88	133,700	60,646	240,000	108,864
	20	6.10	79.0	85' 0"	25.11	121,700	55,203	219,000	99,338
	25	7.62	75.3	83' 9"	25.53	83,600	37,921	151,600	68,766
	30	9.14	71.5	82' 4"	25.09	63,100	28,622	115,400	52,345
	35	10.67	67.7	79' 5"	24.21	50,200	22,771	92,800	42,094
	40	12.19	63.8	78' 2"	23.83	41,400	18,779	77,200	35,018
	50	15.24	55.5	72' 2"	22.00	30,200	13,699	57,400	26,037
	60	18.29	46.2	64' 2"	19.56	23,300	10,569	45,200	20,503
	70	21.34	35.2	52' 7"	16.03	18,500	8,392	37,000	16,783
80	24.38	19.7	33' 2"	10.11	15,100	6,849	31,000	14,062	
90' (27.43 m)	19	5.79	80.8	95' 3"	29.03	133,800	60,692	231,100*	104,827*
	20	6.10	80.2	95' 1"	28.98	121,800	55,248	219,000	99,930
	25	7.62	76.9	94' 1"	28.68	83,600	37,921	151,500	69,129
	30	9.14	73.7	92' 9"	28.27	63,100	28,622	115,300	52,611
	35	10.67	70.3	91' 2"	27.79	50,100	22,725	92,700	42,299
	40	12.19	66.9	89' 2"	27.18	41,300	18,734	77,100	35,180
	50	15.24	59.8	84' 2"	25.66	30,100	13,653	57,300	26,146
	60	18.29	52.1	77' 5"	23.60	23,100	10,478	45,000	20,534
	70	21.34	43.5	68' 3"	20.80	18,400	8,346	36,900	16,837
	80	24.38	33.2	55' 8"	16.97	15,000	7,031	30,900	14,100
90	27.43	18.5	35' 0"	10.67	12,400	5,625	26,300	12,000	
100' (30.48 m)	25	7.62	78.3	104' 4"	31.80	83,500	37,876	151,400	69,084
	30	9.14	75.3	103' 2"	31.45	62,900	28,531	115,100	52,209
	35	10.67	72.3	91' 2"	27.79	50,000	22,680	92,500	41,958
	40	12.19	69.3	100' 0"	30.48	41,100	18,643	76,900	34,881
	50	15.24	63.0	95' 7"	29.13	29,900	13,563	57,100	25,901
	60	18.29	56.4	89' 9"	27.36	23,000	10,358	44,800	20,322
	70	21.34	49.2	82' 1"	25.02	18,200	8,197	36,700	16,647
	80	24.38	41.1	72' 2"	21.00	14,800	6,665	30,700	13,926
	90	27.43	31.4	58' 7"	17.86	12,200	5,494	26,200	11,884
	100	30.48	17.6	36' 7"	11.15	10,200	4,594	22,600	10,251
110' (33.53 m)	25	7.62	79.3	114' 6"	34.90	83,300	37,515	151,200	68,584
	30	9.14	76.7	113' 6"	34.59	62,800	28,655	114,900	52,119
	35	10.67	74.0	112' 2"	34.19	49,800	22,724	92,300	41,867
	40	12.19	71.3	110' 7"	33.70	40,900	18,663	76,700	34,791
	50	15.24	65.7	106' 7"	32.49	29,700	13,552	56,900	25,810
	60	18.29	59.8	101' 6"	30.94	22,700	10,358	44,600	20,231
	70	21.34	53.6	94' 11"	28.93	18,000	8,213	36,500	16,556
	80	24.38	46.8	86' 7"	26.39	14,600	6,623	30,500	13,835
	90	27.43	39.1	75' 10"	23.11	12,000	5,443	25,900	11,748
	100	30.48	29.9	36' 2"	11.02	10,000	4,536	22,400	10,161
	110	33.53	16.7	23' 1"	7.03	8,300	3,765	19,500	8,845

Ⓢ Measured from center of boom head sheave to ground.

(continued)

LS-518 lifting crane capacities

Refer to Notes page 6.

Length	Boom					Ctwt. "A"		Ctwt. "AB"	
	Radius		Angle	Boom Point Height [Ⓢ]		Pounds	Kilograms	Pounds	Kilograms
	Feet	Meters	Degree	Feet	Meters				
120' (36.58 m)	25	7.62	80.2	124' 8"	38.00	83,200	37,740	151,000	68,494
	30	9.14	77.8	123' 8"	37.69	62,600	28,395	114,700	52,028
	35	10.67	75.4	122' 6"	37.33	49,600	22,499	92,100	41,777
	40	12.19	72.9	121' 1"	36.91	40,700	18,462	76,400	34,655
	50	15.24	67.8	117' 6"	35.81	29,500	13,381	56,600	25,674
	60	18.29	62.5	112' 11"	34.42	22,500	10,206	44,300	20,095
	70	21.34	57.0	101' 1"	30.81	17,800	8,074	36,200	16,420
	80	24.38	51.1	99' 10"	30.43	14,400	6,532	30,200	13,699
	90	27.43	44.7	90' 9"	27.66	11,800	5,353	25,700	11,658
	100	30.43	37.4	79' 4"	24.18	9,700	4,400	22,200	10,070
	110	33.53	28.6	63' 11"	19.48	8,100	3,674	19,300	8,754
	120	36.58	16.0	39' 7"	12.06	6,700	3,039	16,900	7,666
130' (39.62 m)	30	9.14	78.8	133' 11"	40.82	62,400	28,305	114,500	51,937
	35	10.67	76.5	132' 10"	40.49	49,400	22,408	91,800	41,640
	40	12.19	74.2	131' 6"	40.39	40,500	18,371	76,200	34,564
	50	15.24	69.6	128' 3"	39.09	29,300	13,291	56,400	25,583
	60	18.29	64.8	124' 1"	37.82	22,300	10,115	44,100	20,004
	70	21.34	59.8	118' 10"	36.22	17,500	7,938	36,000	16,330
	80	24.38	54.6	112' 4"	34.24	14,100	6,396	30,000	13,608
	90	27.43	49.0	104' 6"	31.85	11,500	5,216	25,500	11,567
	100	30.43	42.8	94' 10"	28.90	9,500	4,309	21,900	9,934
	110	33.53	35.9	82' 7"	25.17	7,900	3,584	19,100	8,664
	120	36.58	27.5	66' 5"	20.24	6,500	2,948	16,700	7,575
	130	39.62	15.4	40' 11"	12.47	5,400	2,449	14,700	6,668
140' (42.67 m)	35	10.67	77.5	143' 1"	43.61	49,100	22,272	91,600	41,550
	40	12.19	75.4	141' 11"	43.26	40,200	18,235	75,900	34,428
	50	15.24	71.1	138' 10"	42.32	29,000	13,154	56,100	25,447
	60	18.29	66.7	135' 0"	41.15	22,000	9,979	43,800	19,867
	70	21.34	62.2	130' 3"	39.70	17,300	7,847	35,700	16,194
	80	24.38	57.4	124' 5"	37.92	13,800	6,260	29,700	13,472
	90	27.43	52.4	117' 5"	35.79	11,200	5,080	25,200	11,431
	100	30.48	47.1	108' 11"	33.20	9,200	4,173	21,600	9,798
	110	33.53	41.2	98' 8"	30.07	7,600	3,447	18,800	8,528
	120	36.58	34.5	85' 9"	26.14	6,200	2,812	16,400	7,439
	130	39.62	26.5	68' 10"	20.98	5,100	2,313	14,500	6,577
	140	42.67	14.8	42' 3"	12.88	4,200	1,905	12,800	5,806
150' (45.72 m)	30	9.14	80.3	154' 3"	47.02	62,000	28,123	114,000	51,710
	35	10.67	78.3	153' 4"	46.73	48,900	22,181	91,300	41,414
	40	12.19	76.4	152' 2"	46.38	39,900	18,099	75,600	34,292
	50	15.24	72.4	149' 5"	45.54	28,800	13,064	55,800	25,311
	60	18.29	68.4	145' 10"	44.45	21,700	9,843	43,500	19,732
	70	21.34	64.2	141' 5"	43.10	17,000	7,711	35,400	16,057
	80	24.38	59.9	136' 2"	41.50	13,600	6,168	29,400	13,336
	90	27.43	55.3	129' 9"	39.54	11,000	4,999	24,900	11,294
	100	30.48	50.5	122' 3"	37.26	8,900	4,037	21,400	9,707
	110	33.53	45.4	113' 3"	34.52	7,300	3,312	18,500	8,392
	120	36.58	39.7	102' 4"	31.19	6,000	2,722	16,200	7,348
	130	39.62	33.3	88' 10"	27.08	4,800	2,177	14,200	6,441
140	42.67	25.5	71' 1"	21.67	3,900	1,769	12,500	5,670	
150	45.72	14.3	42' 6"	12.95	3,100	1,406	11,100	5,035	
160' (48.77 m)	35	10.67	79.1	163' 6"	49.83	48,800	22,136	91,100	41,323
	40	12.19	77.2	162' 6"	49.53	40,000	18,144	75,600	34,292
	50	15.24	73.5	159' 10"	48.72	28,500	12,928	55,600	25,220
	60	18.29	69.8	156' 7"	47.75	21,600	9,798	43,500	19,732
	70	21.34	65.9	152' 6"	46.48	16,900	7,666	35,200	15,967
	80	24.38	61.9	147' 7"	44.98	13,400	6,078	29,100	13,200
	90	27.43	57.8	141' 9"	43.20	10,800	4,899	24,600	11,159
	100	30.48	53.4	134' 11"	41.12	8,800	3,992	21,200	9,616
	110	33.53	48.8	126' 10"	38.66	7,200	3,266	18,400	8,346
	120	36.58	43.9	117' 4"	35.76	5,800	2,631	16,000	7,258
	130	39.62	38.4	105' 10"	32.27	4,700	2,132	14,000	6,350
	140	42.67	32.2	91' 9"	27.97	3,700	1,678	12,400	5,625
150	45.72	24.7	73' 4"	22.35	2,900	1,315	10,900	4,944	
160	48.77	13.9	44' 9"	13.64	2,200	998	9,700	4,400	

Ⓢ Measured from center of boom head sheave to ground.

(continued)

GENERAL INFORMATION ONLY

LS-518 lifting crane capacities

Refer to Notes page 6.

Length	Boom					Cwt. "A"		Cwt. "AB"		
	Radius		Angle	Boom Point Height ①		Pounds	Kilograms	Pounds	Kilograms	
	Feet	Meters	Degree	Feet	Meters					
170' (51.82 m)	35	10.67	79.7	173' 8"	52.94	48,500	22,000	90,800	41,187	
	40	12.19	78.0	172' 8"	52.63	39,700	18,008	75,300	34,156	
	50	15.24	74.5	170' 3"	51.89	28,200	12,792	55,400	25,129	
	60	18.29	71.0	167' 2"	50.95	21,300	9,662	43,200	19,596	
	70	21.34	67.4	163' 4"	49.78	16,600	7,530	34,900	15,831	
	80	24.38	63.7	158' 10"	48.41	13,100	5,942	28,900	13,109	
	90	27.43	59.9	153' 5"	46.76	10,500	4,763	24,300	11,022	
	100	30.48	55.9	147' 2"	44.86	8,500	3,856	20,900	9,480	
	110	33.53	51.7	139' 10"	42.62	6,900	3,130	18,100	8,210	
	120	36.58	47.3	131' 4"	40.03	5,500	2,495	15,700	7,122	
	130	39.62	42.5	121' 3"	36.96	4,400	1,996	13,800	6,260	
	140	42.67	37.2	109' 4"	33.32	3,400	1,542	12,100	5,490	
	150	45.72	31.3	94' 7"	28.83	2,600	1,179	10,600	4,808	
	160	48.77	24.0	75' 6"	23.01	1,900	862	9,400	4,264	
	170	51.82	13.5	46' 0"	14.02	1,200	544	8,300	3,765	
	180' (54.86 m)	35	10.67	80.3	183' 10"	56.03	48,300	21,909	90,200*	40,915*
		40	12.19	78.7	182' 11"	55.75	39,500	17,917	75,000	34,020
50		15.24	75.4	180' 7"	55.04	27,900	12,655	55,100	24,993	
60		18.29	72.1	177' 8"	54.15	21,100	9,571	42,900	19,459	
70		21.34	68.7	174' 2"	53.09	16,300	7,394	34,600	15,695	
80		24.38	65.3	169' 11"	51.79	12,900	5,851	28,600	12,973	
90		27.43	61.7	164' 11"	50.27	10,200	4,627	24,000	10,884	
100		30.48	58.0	159' 1"	48.49	8,200	3,720	20,600	9,344	
110		33.53	54.2	152' 5"	46.46	6,600	2,994	17,800	8,074	
120		36.58	50.2	144' 7"	44.07	5,200	2,359	15,400	6,985	
130		39.62	45.9	135' 7"	41.32	4,100	1,860	13,500	6,124	
140		42.67	41.2	125' 1"	38.12	3,100	1,406	11,800	5,352	
150		45.72	36.2	112' 7"	34.31	2,300	1,043	10,400	4,717	
160		48.77	30.3	97' 4"	29.67	1,600	726	9,100	4,128	
170		51.82	23.3	77' 7"	23.65	—	—	8,000	3,629	
180		54.86	13.1	47' 2"	14.37	—	—	7,000	3,175	
190' (57.91 m)		40	12.19	79.3	192' 1"	58.55	39,200	17,781	74,800	33,929
	50	15.24	76.2	190' 11"	58.19	27,700	12,565	54,800	24,857	
	60	18.29	73.1	188' 2"	57.35	20,800	9,435	42,600	19,323	
	70	21.34	69.9	184' 10"	56.34	16,000	7,258	34,200	15,513	
	80	24.38	66.6	180' 10"	55.12	12,500	5,670	28,200	12,792	
	90	27.43	63.3	176' 2"	53.70	9,900	4,491	23,700	10,750	
	100	30.48	59.9	170' 9"	52.04	7,900	3,583	20,300	9,208	
	110	33.53	56.3	164' 7"	50.16	6,200	2,812	17,400	7,893	
	120	36.58	52.6	157' 5"	47.98	4,900	2,222	15,100	6,849	
	130	39.62	48.7	149' 3"	45.49	3,800	1,724	13,100	5,942	
	140	42.67	44.6	139' 9"	42.60	2,800	1,270	11,400	5,171	
	150	45.72	40.1	128' 10"	39.27	2,000	907	10,000	4,536	
	160	48.77	35.2	115' 10"	35.30	1,300	590	8,800	3,992	
	170	51.82	29.5	100' 0"	30.48	—	—	7,700	3,493	
	180	54.86	22.7	79' 7"	24.26	—	—	6,700	3,039	
	190	57.91	12.7	48' 3"	14.71	—	—	5,800	2,631	
	200' (60.96 m)	40	12.19	79.8	203' 3"	61.95	—	—	69,300*	31,434*
50		15.24	76.9	201' 3"	61.34	—	—	54,500	24,721	
60		18.29	73.9	198' 7"	60.53	—	—	42,300	19,187	
70		21.34	70.9	195' 5"	59.56	—	—	34,000	15,422	
80		24.38	67.9	191' 8"	58.42	—	—	27,900	12,655	
90		27.43	64.7	187' 4"	57.10	—	—	23,400	10,614	
100		30.48	61.5	182' 3"	55.55	—	—	20,000	9,072	
110		33.53	58.2	176' 5"	53.77	—	—	17,100	7,757	
120		36.58	54.8	169' 10"	51.76	—	—	14,800	6,713	
130		39.62	51.2	162' 3"	49.45	—	—	12,800	5,806	
140		42.67	47.4	153' 8"	46.84	—	—	11,100	5,035	
150		45.72	43.4	143' 10"	43.84	—	—	9,700	4,400	
160		48.77	39.0	132' 5"	40.36	—	—	8,500	3,856	
170		51.82	34.2	118' 11"	36.25	—	—	7,400	3,357	
180		54.86	28.8	102' 8"	31.29	—	—	6,400	2,903	
190		57.91	22.1	81' 7"	24.87	—	—	5,500	2,495	
200		60.96	12.4	49' 4"	15.04	—	—	4,800	2,177	

① Measured from center of boom head sheave to ground.

(continued)

GENERAL INFORMATION ONLY

LS-518 lifting crane capacities

Refer to Notes page 6

Length	Boom					Ctwt. "A"		Ctwt. "AB"				
	Radius		Angle	Boom Point Height [Ⓞ]		Pounds	Kilograms	Pounds	Kilograms			
	Feet	Meters	Degree	Feet	Meters							
210' (64.01 m)	40	12.19	80.3	213' 5"	65.05	Not Applicable		63,300*	28,713*			
	50	15.24	77.5	211' 6"	64.47			54,200	24,585			
	60	18.29	74.7	209' 0"	63.70			42,000	19,051			
	70	21.34	71.9	206' 0"	62.79			33,700	15,286			
	80	24.38	69.0	202' 5"	61.70			27,600	12,519			
	90	27.43	66.0	198' 4"	60.45			23,100	10,478			
	100	30.48	63.0	193' 6"	58.99			19,700	8,936			
	110	33.53	59.9	188' 1"	57.33			16,800	7,620			
	120	36.58	56.7	181' 11"	55.45			14,500	6,577			
	130	39.62	53.4	176' 11"	53.93			12,500	5,670			
	140	42.67	49.9	167' 0"	50.90			10,800	4,899			
	150	45.72	46.2	158' 0"	48.16			9,400	4,264			
	160	48.77	42.3	147' 9"	45.03			8,200	3,720			
	170	51.82	38.1	135' 11"	41.43			7,100	3,220			
	180	54.86	33.4	122' 0"	37.19			6,100	2,767			
	190	57.91	28.0	105' 2"	32.06			5,200	2,357			
	200	60.96	21.5	83' 6"	25.45			4,500	2,041			
	210	64.01	12.1	50' 5"	15.39			3,800	1,724			
	220' (67.06 m)	40	12.19	80.8	223' 7"			68.15	Not Applicable		57,500*	26,082*
		50	15.24	78.1	221' 8"			67.57			53,900	24,449
60		18.29	75.4	219' 4"	66.85	41,700	18,915					
70		21.34	72.7	216' 6"	65.99	33,300	15,105					
80		24.38	70.0	213' 1"	64.95	27,300	12,382					
90		27.43	67.2	209' 3"	63.78	22,700	10,297					
100		30.48	64.3	204' 9"	62.41	19,400	8,800					
110		33.53	61.4	196' 7"	59.92	16,500	7,484					
120		36.58	58.4	193' 9"	59.06	14,200	6,441					
130		39.62	55.3	187' 3"	57.07	12,200	5,534					
140		42.67	52.0	179' 10"	54.81	10,500	4,763					
150		45.72	48.7	171' 6"	52.27	9,100	4,128					
160		48.77	45.1	162' 4"	49.48	7,800	3,538					
170		51.82	41.3	151' 6"	46.18	6,800	3,084					
180		54.86	37.2	139' 3"	42.44	5,800	2,631					
190		57.91	32.6	124' 11"	38.07	4,900	2,223					
200		60.96	27.4	107' 8"	32.82	4,200	1,905					
210		64.01	21.0	85' 4"	26.01	3,500	1,588					
220		67.06	11.8	51' 6"	15.70	2,800	1,270					
230' (70.10 m)		50	15.24	78.6	131' 11"	40.21	Not Applicable				50,400*	22,861*
	60	18.29	76.1	129' 7"	69.98	41,400			18,790			
	70	21.34	73.5	127' 0"	69.19	33,000			14,969			
	80	24.38	70.9	123' 9"	68.20	27,000			12,247			
	90	27.43	68.2	120' 0"	67.06	22,400			10,161			
	100	30.48	65.5	115' 9"	65.76	19,100			8,664			
	110	33.53	62.7	110' 11"	64.29	16,200			7,348			
	120	36.58	59.9	105' 5"	62.61	13,900			6,305			
	130	39.62	57.0	100' 3"	60.73	11,900			5,398			
	140	42.67	54.0	95' 5"	58.65	10,200			4,627			
	150	45.72	50.8	89' 8"	56.29	8,800			3,992			
	160	48.77	47.5	83' 0"	53.64	7,500			3,402			
	170	51.82	44.0	76' 4"	50.70	6,400			2,903			
	180	54.86	40.3	69' 3"	47.32	5,500			2,495			
	190	57.91	36.3	62' 7"	43.46	4,600			2,087			
	200	60.96	31.9	55' 0"	39.01	3,800			1,724			
	210	64.01	26.8	48' 0"	33.53	3,100			1,406			
	220	67.06	20.6	41' 3"	26.59	2,500			1,134			
	230	70.10	11.6	35' 6"	16.00	1,900			862			
	240' (73.15 m)	50	15.24	79.1	242' 1"	73.78			Not Applicable		46,000*	20,866*
60		18.29	76.7	239' 11"	73.13	41,100	18,643					
70		21.34	74.2	237' 4"	72.34	32,700	14,833					
80		24.38	71.7	234' 3"	71.40	26,700	12,111					
90		27.43	69.2	230' 9"	70.33	22,400	10,161					
100		30.48	66.6	226' 8"	69.09	18,800	8,528					
110		33.53	64.0	222' 1"	67.69	15,900	7,212					
120		36.58	61.3	216' 11"	66.12	13,500	6,124					
130		39.62	58.5	211' 1"	64.34	11,600	5,262					
140		42.67	55.7	204' 8"	62.38	9,900	4,491					
150		45.72	52.7	197' 5"	60.17	8,500	3,856					
160		48.77	49.7	189' 4"	57.71	7,200	3,266					
170		51.82	46.5	180' 5"	54.99	6,100	2,767					
180		54.86	43.1	170' 4"	51.92	5,200	2,359					
190		57.91	39.4	158' 11"	48.44	4,300	1,950					
200		60.96	35.5	145' 10"	44.45	3,500	1,588					
210		64.01	31.2	130' 8"	39.83	2,800	1,271					
220		67.06	26.2	112' 5"	34.27	2,200	998					
230		70.10	20.1	89' 0"	27.13	1,600	726					
240		73.15	11.3	54' 6"	16.61	1,100	499					

Ⓞ Measured from center of boom head sheave to ground.

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GENERAL INFORMATION ONLY

LS-518 lifting crane capacities

Refer to Notes page 6

Length	Boom					Ctwt. "A"		Ctwt. "AB"	
	Radius		Angle	Boom Point Height ①		Pounds	Kilograms	Pounds	Kilograms
	Feet	Meters	Degree	Feet	Meters				
250' (76.20 m)	60	18.29	77.2	250' 3"	76.27	Not Applicable		35,400*	16,057
	70	21.34	74.9	247' 9"	75.51			32,400	14,697
	80	24.38	72.5	244' 10"	74.62			26,400	11,975
	90	27.43	70.0	240' 5"	73.28			22,100	10,024
	100	30.48	67.6	237' 6"	72.39			18,500	8,392
	110	33.53	65.1	233' 2"	71.07			15,600	7,076
	120	36.58	62.5	229' 3"	69.87			13,200	5,986
	130	39.62	59.9	222' 9"	67.89			11,300	5,126
	140	42.67	57.2	216' 8"	66.04			9,600	4,354
	150	45.72	54.5	209' 10"	63.96			8,100	3,674
	160	48.77	51.6	202' 4"	61.67			6,900	3,130
	170	51.82	48.6	193' 11"	59.11			5,800	2,631
	180	54.86	45.5	184' 8"	56.29			4,800	2,177
	190	57.91	42.2	175' 2"	53.39			4,000	1,814
	200	60.96	38.6	162' 5"	49.51			3,200	1,451
	210	64.01	34.8	149' 0"	45.42			2,500	1,134
	220	67.06	30.5	133' 5"	40.67			1,900	862
	230	70.10	25.7	114' 8"	34.95			1,300	590
	240	73.15	19.7	90' 9"	27.66			—	—
	250	76.20	11.1	54' 6"	16.61			—	—

① Measured from center of boom head sheave to ground.

Combined Boom and Jib Lengths											
Length	Radius		Angle	Jib Point Height ②		Length	Radius		Angle	Jib Point Height ②	
	Feet	Meters	Degrees	Feet	Meters		Feet	Meters	Degrees	Feet	Meters
260' (79.25 m)	50	15.24	80.0	262' 5"	79.99	280' (85.34 m)	50	15.24	80.7	282' 9"	86.18
	60	18.29	77.7	260' 6"	79.40		60	18.29	78.6	280' 11"	85.62
	70	21.34	75.4	258' 1"	78.66		70	21.34	76.5	278' 8"	84.94
	80	24.38	73.2	255' 3"	77.80		80	24.38	74.4	276' 1"	84.15
	90	27.43	70.8	252' 0"	76.81		90	27.43	72.3	272' 1"	21.97
	100	30.48	68.5	248' 4"	75.69		100	30.48	70.1	269' 8"	82.20
	110	33.53	66.1	244' 1"	74.40		110	33.53	67.9	265' 10"	81.02
	120	36.58	63.7	239' 5"	72.98		120	36.58	65.7	261' 7"	79.73
	130	39.62	61.2	234' 3"	71.40		130	39.62	63.4	256' 10"	78.28
	140	42.67	58.6	228' 5"	69.62		140	42.67	61.1	251' 7"	76.68
	150	45.72	56.0	222' 0"	67.67		150	45.72	58.7	245' 9"	74.90
	160	48.77	53.3	214' 11"	65.51		160	48.77	56.3	239' 4"	72.95
	170	51.82	50.5	207' 1"	63.15		170	51.82	53.8	232' 5"	70.84
	180	54.86	47.6	198' 5"	60.48		180	54.86	51.2	224' 9"	68.50
	190	57.91	44.5	188' 9"	57.53		190	57.91	48.6	216' 3"	65.91
	200	60.96	41.3	178' 0"	54.25		200	60.96	45.8	207' 0"	63.09
210	64.01	37.8	165' 11"	50.57	210	64.01	42.8	196' 9"	59.97		
220	67.06	34.1	152' 1"	46.35	220	67.06	39.7	185' 5"	56.52		
230	70.10	29.9	136' 2"	41.50	230	70.10	36.4	172' 8"	52.63		
240	73.15	25.2	116' 0"	35.36	240	73.15	32.8	158' 2"	48.21		
250	76.20	19.3	92' 6"	28.19	250	76.20	28.8	141' 5"	43.10		
260	79.25	10.9	55' 5"	16.89	260	79.25	24.2	121' 4"	36.98		
270' (82.30 m)	50	15.24	80.3	272' 7"	83.08	270	82.30	18.6	86' 7"	26.39	
	60	18.29	78.2	270' 8"	82.50	280	85.34	10.5	57' 4"	17.47	
	70	21.34	76.0	268' 5"	81.81	290' (88.39 m)	60	18.29	79.0	291' 1"	88.72
	80	24.38	73.8	265' 8"	80.98		70	21.34	77.0	289' 0"	88.09
	90	27.43	71.6	262' 7"	80.03		80	24.38	74.9	286' 6"	87.33
	100	30.48	69.3	259' 0"	78.94		90	27.43	72.9	283' 7"	86.44
	110	33.53	67.0	255' 0"	77.72		100	30.48	70.8	280' 3"	85.42
	120	36.58	64.7	250' 7"	76.38		110	33.53	68.7	276' 7"	84.30
	130	39.62	62.3	245' 7"	74.85		120	36.58	66.6	272' 6"	83.06
	140	42.67	59.9	240' 1"	73.18		130	39.62	64.4	266' 11"	81.36
	150	45.72	57.4	234' 0"	71.32		140	42.67	62.2	262' 11"	80.14
	160	48.77	54.9	227' 3"	69.27		150	45.72	59.9	257' 4"	78.43
	170	51.82	52.2	219' 10"	67.00		160	48.77	57.6	251' 4"	76.61
	180	54.86	49.5	211' 9"	64.52		170	51.82	55.2	244' 8"	74.58
	190	57.91	46.7	202' 9"	61.80		180	54.86	52.8	236' 5"	72.06
	200	60.96	43.7	192' 10"	58.77		190	57.91	50.3	229' 6"	69.95
210	64.01	40.5	181' 9"	55.40	200		60.96	47.4	220' 9"	67.28	
220	67.06	37.1	169' 3"	51.59	210		64.01	44.9	211' 2"	64.36	
230	70.10	33.4	155' 2"	47.30	220	67.06	42.1	200' 8"	61.16		
240	73.15	29.3	136' 9"	41.68	230	70.10	39.0	189' 0"	57.61		
250	76.20	24.7	122' 6"	37.34	240	73.15	35.7	175' 11"	53.62		
260	79.25	18.9	94' 2"	28.70	250	76.20	32.2	161' 0"	49.07		
270	82.30	10.7	56' 5"	17.20	260	79.25	28.3	143' 11"	43.87		
					270	82.30	23.8	123' 5"	37.62		
					280	85.34	18.3	97' 6"	29.72		
					290	88.39	10.3	58' 3"	17.75		

② Measured from center of jib peak sheave to ground.

GENERAL INFORMATION ONLY

LS-518 lifting crane capacities

Refer to Notes below

Combined Boom and Jib Lengths					
Length	Radius		Angle	Jib Point Height [Ⓢ]	
	Feet	Meters	Degrees	Feet	Meters
300' (91.44 m)	60	18.29	79.4	303' 0"	92.35
	70	21.34	77.4	299' 3"	91.21
	80	24.38	75.5	296' 10"	90.47
	90	27.43	73.5	294' 0"	89.61
	100	30.48	71.5	290' 10"	88.64
	110	33.53	69.4	287' 4"	87.58
	120	36.58	67.4	283' 4"	86.36
	130	39.62	65.3	279' 0"	85.04
	140	42.67	63.2	274' 2"	83.57
	150	45.72	61.0	268' 11"	81.97
	160	48.77	58.8	263' 1"	80.19
	170	51.82	56.6	256' 9"	78.26
	180	54.86	54.2	249' 10"	76.15
	190	57.91	51.8	242' 4"	73.86
	200	60.96	49.4	234' 2"	71.38
	210	64.01	46.8	225' 2"	68.63
	220	67.06	44.1	215' 4"	65.63
	230	70.10	41.3	204' 6"	62.33
	240	73.15	38.1	194' 6"	59.28
	250	76.20	35.1	179' 1"	54.58
	260	79.25	31.7	164' 11"	50.27
	270	82.30	27.8	146' 5"	44.63
	280	85.34	23.4	125' 7"	38.28
	290	88.39	18.0	99' 0"	30.18
	300	91.44	10.1	59' 1"	18.01

[Ⓢ] Measured from center of jib peak sheave to ground.

Notes — lifting crane capacities

- The capacities included in this chart are the maximum allowable, and are based on machine standing level on firm supporting surface under ideal job conditions.
- Capacities are not more than 75% of minimum tipping loads.
 - Those capacities marked with an asterisk indicate capacities based on factors other than those which would cause a tipping condition.
- Capacities are based on freely suspended loads and make no allowance for such factors as the effect of wind, sudden stopping of loads, supporting surface conditions, and operating speeds. Operator must reduce load ratings to take such conditions into account. Deduction from rated capacities must be made for weight of jib, hook block, weighted ball/hook, sling, spreader bar, or other suspended gear.
- Tubular Boom with Open Throat Top Section — for lifting 300,000# (136,080 kg), 10-part load hoist line (1 1/8" — 28.58 mm — Type "N" wire rope) is required. Check parts of line required for all capacities.
- The 30' 0" (9.14 m) boom live mast must be in operating position for all capacities on this chart.
- When using 30' 0" (9.14 m) boom live mast as short boom, maximum lifting capacity of the mast is 47,000# (21,319 kg) at radii from 13' 0" (3.96 m) minimum to 20' 0" (6.10 m) maximum and live mast stops in position and operative.
 - For lifting 47,000# (21,319 kg) on boom live mast with 3/4" (19.05 mm) dia. wire rope, 4 parts of 3/4" (19.05 mm) Type "N" wire rope are required.
 - Boom live mast may be used as a short boom for machine assembly/disassembly only. Boom live mast is not to be used for general lift crane service.
- Boom lengths exceeding 180' (54.86 m) — boom midpoint suspension pendants are required.
- Least stable rated condition is over the side.
- Main boom length must not exceed 250' (67.20 m), and jib must not be mounted on boom longer than 230' (70.10 m). Maximum jib length permitted on 230' (70.10 m) main boom — 70' (21.34 m).
- Maximum boom/jib combination permitted — 230' (70.10 m) boom plus 70' (21.34 m) jib. Maximum jib length permitted — 70' (21.34 m).
- To determine capacities for intermediate boom lengths not shown on this chart, use the capacity for the next longer boom length shown — for actual angle or radius at which boom/load are being worked.
- The angle and radii shown for combined boom and jib lengths are only to be used for determining jib capacities.
- These capacities apply only to the machine as originally manufactured and normally equipped by FMC Corporation, Crane and Excavator Division.

GENERAL INFORMATION ONLY

LS-518 tubular jib capacities

Refer to Notes below

Boom — tubular, 62" x 70" (1.57 x 1.77 m) with open throat; with boom live mast; with boom midpoint suspension pendants as required.

Jib — tubular, 30" x 36" (.76 x .91 m).

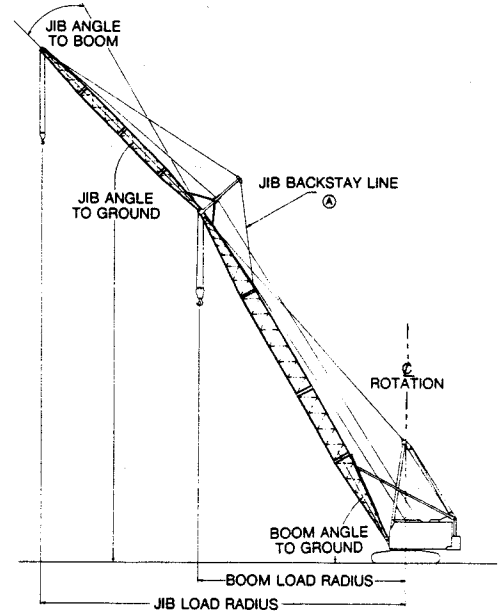
Crawler — 16' 0" (4.88 m) gauge, 24' 4" (7.42 m) over-all length.

Counterweights — 20,500# (9,299 kg) ctwt. "A" or 90,000# (40,824 kg) ctwt. "AB".

Jib Angle to Ground	Jib Length							
	30' (9.14 m)		45' (13.72 m)		60' (18.29 m)		70' (21.34 m)	
	Pounds	Kilograms	Pounds	Kilograms	Pounds	Kilograms	Pounds	Kilograms
80°	30,000	13,608	26,000	11,794	22,000	9,979	19,000	8,618
65°	26,000	11,794	22,000	9,979	18,000	8,165	15,000	6,804
50°	22,000	9,979	14,000	6,350	9,000	4,082	8,000	3,629
35°	16,000	7,258	10,000	4,536	6,000	2,722	5,000	2,268
20°	15,000	6,804	8,000	3,629	5,000	2,268	4,000	1,814

Notes — tubular jib capacities

- Capacities shown are maximum allowable.
- Use jib with 13' 6" (4.11 m) high jib mast in proper working position.
- To determine jib angle to ground, deduct jib angle to boom from the boom angle to ground.
- Jib backstay line A is anchored at base of boom top section.
- Jib angle to boom must not exceed 30°.
- Determining machine jib capacities:
 - Add length of boom plus length of jib being used.
 - Determine jib load radius.
 - Refer to lifting crane capacity chart and select boom length that corresponds to combined boom/jib length (6-a) and radius (6-b).
 - Jib capacity is equal to the lifting crane capacity for the boom length (6-c) and radius (6-c) — unless restricted by the maximum jib capacities shown in above chart.
- Determining lifting crane capacities with jib mounted on boom:
 - When handling load off main boom peak sheaves, the following reduction in rated lifting crane capacities must be made to compensate for jib weight:
 - 30' (9.14 m) jib — 2,200# (998 kg)
 - 45' (13.72 m) jib — 2,700# (1,255 kg)
 - 60' (18.29 m) jib — 3,200# (1,452 kg)
 - 70' (21.34 m) jib — 3,540# (1,606 kg)
- Boom live mast required for all boom lengths with or without jib mounted on boom.



Boom — tubular, 62" x 70" (1.57 x 1.77 m) with open throat; with boom live mast; with boom midpoint suspension pendants as required.

Jib — tubular, 30" x 36" (.76 x .91 m).

Crawler — 16' 0" (4.88 m) gauge, 24' 4" (7.42 m) over-all length.

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

Std. machine equipped with boom live mast and appropriate counterweight	Ctwt. "A"				Ctwt. "AB"			
	Boom		Boom + Jib		Boom		Boom + Jib	
	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
Over ends	190	57.91	170 + 45 or 160 + 70	51.82 + 13.72 or 48.77 + 21.34	250	76.20	230 + 70	70.10 + 21.34
Over sides	170	51.82	150 + 45 or 140 + 70	45.72 + 13.72 or 42.67 + 21.34	240	73.15	210 + 70	64.01 + 21.34

^① Hook blocks on ground and machine level on firm supporting surface.

Maximum boom and boom/jib machine can lift off ground and travel ^② with boom horizontal ^③ — without load.

Std. machine equipped with boom live mast and appropriate counterweight	Ctwt. "A"				Ctwt. "AB"			
	Boom		Boom + Jib		Boom		Boom + Jib	
	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
Over ends	150	45.72	130 + 30 or 120 + 70	39.62 + 9.14 or 36.58 + 21.34	210	64.00	190 + 30 or 180 + 70	57.91 + 9.14 or 54.86 + 21.34
Over sides	130	39.62	110 + 30 or 100 + 70	33.53 + 9.14 or 54.86 + 21.34	190	57.91	170 + 45 or 160 + 70	51.82 + 13.72 or 48.77 + 21.34

^② Based on firm, level supporting surface and minimum travel speed.

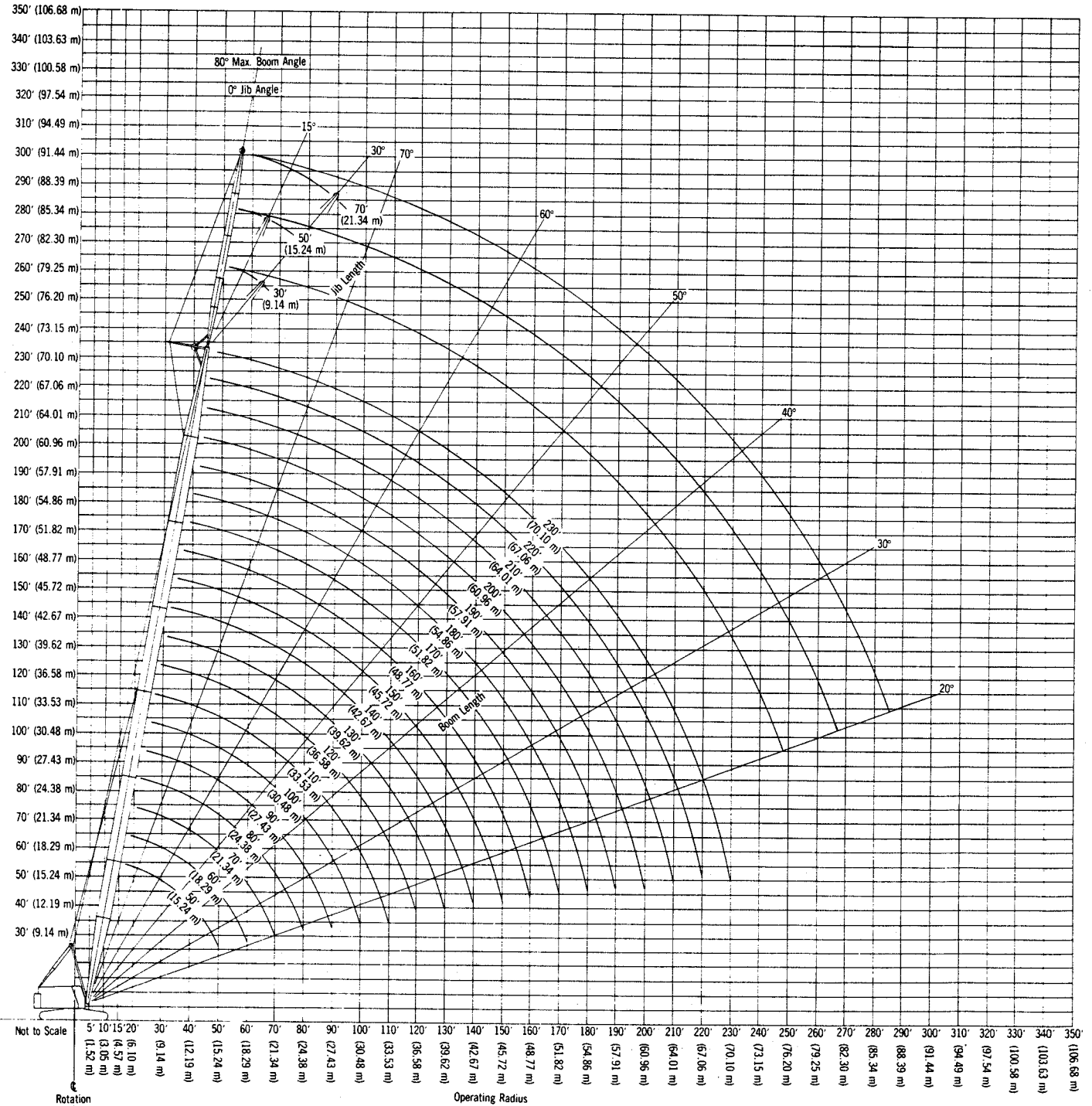
^③ Equipped with 150-ton (136.05 metric ton), 2,800# (1,270 kg) hook block and 15-ton (13.61 metric ton), 435# (197.32 kg) jib hook block — carried at boom and jib points.

LS-518 boom/jib working ranges

Boom — tubular, 62" x 70" (1.57 x 1.77 m) with open throat; with boom live mast; with boom midpoint suspension pendants as required.

Jib — tubular, 30" x 36" (.76 x .91 m).

Crawler — 16' 0" (4.88 m) gauge, 24' 4" (7.42 m) over-all length.



GENERAL INFORMATION ONLY

LS-518 dragline/clamshell/magnet capacities

Refer to Notes page 10

Boom — tubular, 62" x 70" (1.57 x 1.77 m) with open throat; with boom live mast.

Crawler — 16' 0" (4.88 m) gauge, 24' 4" (7.42 m) over-all length.

Counterweight — 20,500# (9,299 kg) cwt. "A" only.

Length	Boom					Cwt. "A"			
	Radius		Angle	Boom Point Height [ⓐ]		Dragline		Clamshell/Magnet	
	Feet	Meters	Degree	Feet	Meters	Pounds	Kilograms	Pounds	Kilograms
60' (18.29 m)	15	4.57	80.1	65' 6"	19.96	—	—	22,500	10,206
	16	4.88	79.1	65' 4"	19.91	—	—	↑	↑
	17	5.18	78.1	65' 2"	19.86	—	—	↑	↑
	18	5.49	77.2	64' 11"	19.79	—	—	↑	↑
	19	5.79	76.2	64' 8"	19.71	—	—	↑	↑
	20	6.10	75.2	64' 5"	19.64	—	—	↑	↑
	25	7.62	70.2	62' 10"	19.15	—	—	↑	↑
	30	9.14	65.0	60' 10"	18.54	—	—	↑	↑
	35	10.67	59.6	58' 3"	17.75	19,000	8,618	↑	↑
	40	12.19	53.9	54' 11"	16.74	↑	↑	↑	↑
	45	13.72	47.7	50' 10"	15.49	↑	↑	↑	↑
	50	15.24	40.9	45' 9"	13.94	↑	↑	22,500	10,206
	55	16.76	32.9	39' 0"	11.89	19,000*	8,618*	20,600	9,344
57	17.37	30.0	36' 5"	11.10	19,000*	8,618*	19,600	8,890	
60	18.29	22.7	29' 8"	9.04	19,000*	8,618*	18,200	8,256	
70' (21.34 m)	16	4.88	80.7	75' 6"	23.01	—	—	22,500	10,206
	17	5.18	79.9	75' 4"	22.96	—	—	↑	↑
	18	5.49	79.0	75' 1"	22.88	—	—	↑	↑
	19	5.79	78.2	74' 11"	22.58	—	—	↑	↑
	20	6.10	77.3	74' 9"	22.84	—	—	↑	↑
	25	7.62	73.1	73' 5"	22.38	—	—	↑	↑
	30	9.14	68.8	71' 8"	21.84	—	—	↑	↑
	35	10.67	64.3	69' 6"	21.18	—	—	↑	↑
	40	12.19	59.7	66' 10"	20.37	19,000	8,618	↑	↑
	45	13.72	54.8	63' 7"	19.38	↑	↑	↑	↑
	50	15.24	49.6	59' 9"	18.21	↑	↑	22,500	10,206
	55	16.76	44.0	55' 0"	16.76	↑	↑	20,400	9,253
	60	18.29	37.8	49' 3"	15.01	19,000	8,618	17,900	8,119
65	19.81	30.4	41' 10"	12.75	18,000*	8,165*	16,200	7,348	
70	21.34	21.0	31' 7"	9.63	16,200*	7,348*	14,600	6,623	
80' (24.38 m)	17	5.18	81.1	85' 5"	26.03	—	—	22,500	10,206
	18	5.49	80.4	85' 3"	25.98	—	—	↑	↑
	19	5.79	79.7	84' 11"	25.88	—	—	↑	↑
	20	6.10	79.0	85' 0"	25.11	—	—	↑	↑
	25	7.62	75.3	83' 9"	25.53	—	—	↑	↑
	30	9.14	71.5	82' 4"	25.09	—	—	↑	↑
	35	10.67	67.7	79' 5"	24.21	—	—	↑	↑
	40	12.19	63.8	78' 2"	23.83	—	—	↑	↑
	45	13.72	59.7	75' 6"	23.01	19,000	8,618	↑	↑
	50	15.24	55.5	72' 2"	22.00	↑	↑	22,500	10,206
	55	16.76	51.0	68' 6"	20.88	↑	↑	20,200	9,163
	60	18.29	46.2	64' 2"	19.56	19,000	8,618	17,700	8,029
	65	19.81	41.0	58' 11"	17.96	17,800	8,074	16,000	7,258
70	21.34	35.2	52' 7"	16.03	15,900	7,212	14,300	6,486	
74	22.56	30.0	46' 5"	14.15	14,800*	6,713*	13,300	6,034	
75	22.86	28.4	44' 5"	13.54	14,500*	6,577*	13,100	5,942	
80	24.38	19.7	33' 2"	10.11	13,200*	5,987*	11,900	5,397	
90' (27.43 m)	19	5.79	80.8	95' 3"	29.03	—	—	22,500	10,206
	20	6.10	80.2	95' 1"	28.98	—	—	↑	↑
	25	7.62	76.9	94' 1"	28.68	—	—	↑	↑
	30	9.14	73.7	92' 9"	28.27	—	—	↑	↑
	35	10.67	70.3	91' 2"	27.79	—	—	↑	↑
	40	12.19	66.9	89' 2"	27.18	—	—	↑	↑
	45	13.72	63.3	86' 10"	26.47	—	—	↑	↑
	50	15.24	59.8	84' 2"	25.66	19,000	8,618	22,500	10,206
	55	16.76	55.9	80' 11"	24.66	19,000	8,618	20,000	9,072
	60	18.29	52.1	77' 5"	23.60	19,000	8,618	17,500	7,938
	65	19.81	47.9	73' 5"	22.38	17,600	7,983	15,900	7,212
	70	21.34	43.5	68' 3"	20.80	15,700	7,122	14,100	6,396
	75	22.86	38.6	62' 6"	19.05	14,300	6,486	12,900	5,851
80	24.38	33.2	55' 8"	16.97	12,900*	5,851*	11,600	5,262	
82	24.99	30.0	51' 5"	15.67	12,500*	5,670*	11,200	5,080	
85	25.91	26.8	47' 1"	14.35	11,800*	5,352*	10,600	4,808	
90	27.43	18.5	35' 0"	10.67	10,800*	4,899*	9,700	4,400	

[ⓐ]Measured from boom head sheave to ground.

(continued)

GENERAL INFORMATION ONLY

Notes — dragline/clamshell/magnet capacities

1. The capacities included in this chart are the maximum allowable and are based on machine standing level on firm supporting surface under ideal job conditions.
2. Capacities are not more than 75% of minimum tipping loads for dragline; 67½% for clamshell/magnet.
3. Capacities are maximum recommended by Commercial Standard CS90-58 and PCSA Standard #1. User must make allowances for soft or uneven supporting surfaces, rapid cycle operations, bucket suction or other unfavorable conditions which may require smaller buckets or magnets for most efficient operation.
4. Weight of bucket or magnet, plus load, should not exceed these capacities.
5. Dragline operation with boom angle less than 35° is not recommended.
6. Boom length for dragline/clamshell/magnet operation should not exceed 90' (27.43 m).
7. Use of cwt. "AB" is not recommended for dragline, clamshell, or magnet service.
8. These capacities apply only to the machine as originally manufactured and normally equipped by FMC Corporation, Crane and Excavator Division.

GENERAL INFORMATION ONLY

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

FMC Corporation Crane and Excavator Division World Headquarters Cedar Rapids Iowa 52406
Plants in: Cedar Rapids Iowa (2) • Lexington and Bowling Green Kentucky • Ontario Canada • Milan Italy • Queretaro Mexico & Nagoya Japan (under license)



Link-Belt® LS-518 lifting crane capacities

PCSA Class 13-766
Refer to Notes Page 3.

Boom — angle, 54" x 60" (1.37 x 1.52 m) with open throat; with boom live mast; with boom midpoint suspension pendants as required.

Crawler — 16' 0" (4.88 m) gauge, 24' 4" (7.42 m) over-all length.

Counterweights — Refer to charts below.

Counterweights			
"A"		"AB"	
Pounds	kilograms	Pounds	kilograms
20,500	9 299	90,000	40 824

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

Std. machine equipped with boom live mast and appropriate counterweight	Cwt. "A"				Cwt. "AB"			
	Boom		Boom + Jib		Boom		Boom + Jib	
	Feet	meters	Feet	meters	Feet	meters	Feet	meters
Over ends	160	48.77	150 + 40	45.72 + 12.19	210	64.01	200 + 20 or 190 + 40	60.96 + 6.10 or 57.91 + 12.19
Over sides	150	45.72	130 + 40	39.62 + 12.19	200	60.96	190 + 40	57.91 + 12.19

① Hook blocks on ground and machine level on firm supporting surface.

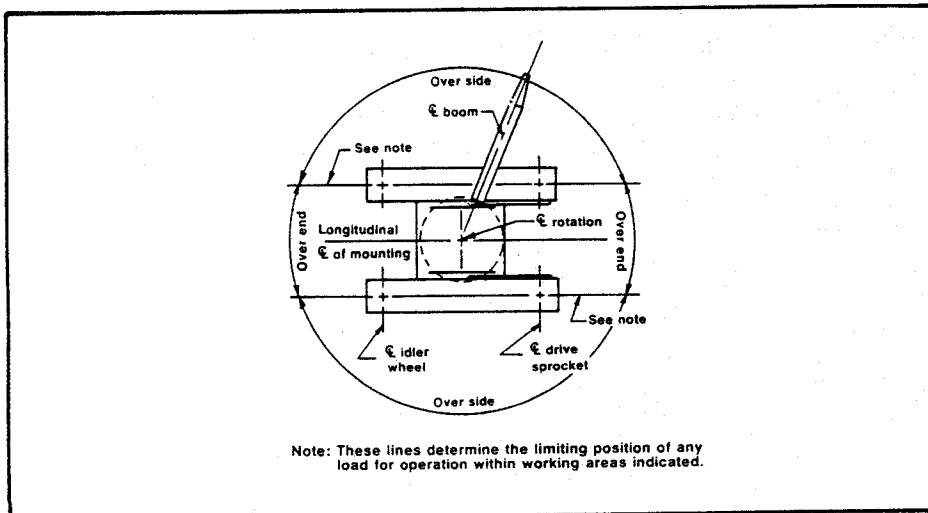
Maximum boom and boom/jib machine can lift off ground and travel ^② with boom horizontal ^③ without load.

Std. machine equipped with boom live mast and appropriate counterweight	Cwt. "A"				Cwt. "AB"			
	Boom		Boom + Jib		Boom		Boom + Jib	
	Feet	meters	Feet	meters	Feet	meters	Feet	meters
Over ends	130	39.62	120 + 30 or 110 + 40	36.58 + 9.14 or 33.53 + 12.19	180	54.86	170 + 20 or 160 + 40	51.82 + 6.10 or 48.77 + 12.19
Over sides	110	33.53	100 + 40	30.48 + 12.19	170	51.82	160 + 20 or 150 + 40	48.77 + 6.10 or 45.72 + 12.19

② Equipped with 150-ton (136.05 metric ton), 2,800# (1 270 kg) hook block and 15-ton (13.61 metric ton), 435# (197 kg) jib hook block — carried at boom and jib points.

③ Based on firm, level supporting surface and minimum travel speed.

LS-518 working areas



GENERAL INFORMATION ONLY

Caution: This material is for reference only. Operator must refer to in-cab capacity plate to determine allowable machine lifting capacities and operating procedures.

Lifting capacities ②						
Counterweight					Lbs.	kg
"A"						
Length	Radius	Angle	Boom point height	Boom		
				Feet	meters	
150' (45.72 m)	30	9.14	80.3	Feet	meters	
				35	47.02	
	40	12.19	78.3	35	47.02	
				40	47.02	
	50	15.24	76.4	40	47.02	
				50	47.02	
	60	18.29	68.4	50	47.02	
				60	47.02	
	70	21.34	64.2	60	47.02	
				70	47.02	
	80	24.38	56.9	70	47.02	
				80	47.02	
	90	27.43	55.3	80	47.02	
				90	47.02	
	100	30.48	50.5	90	47.02	
				100	47.02	
	110	33.53	45.4	100	47.02	
				110	47.02	
	120	36.58	39.7	110	47.02	
				120	47.02	
	130	39.62	33.3	120	47.02	
				130	47.02	
	140	42.67	25.5	130	47.02	
				140	47.02	
	150	45.72	14.3	140	47.02	
				150	47.02	
	160			150	47.02	
				160	47.02	
	170			160	47.02	
				170	47.02	
	180			170	47.02	
				180	47.02	
	190			180	47.02	
				190	47.02	
				190	47.02	
				200	47.02	
				210	47.02	
				220	47.02	
				230	47.02	
				240	47.02	
				250	47.02	

② Capacities shown in thousand pounds and kilograms.

Lifting capacities ③						
Counterweight					Lbs.	kg
"A"						
Length	Radius	Angle	Boom point height	Boom		
				Feet	meters	
	13	3.96	80.4	55'	9"	
				55'	9"	
	14	4.27	76.2	55'	6"	
				55'	6"	
	15	4.57	78.1	55'	4"	
				55'	4"	
	16	4.88	76.9	55'	1"	
				55'	1"	
	17	5.18	75.7	54'	10"	
				54'	10"	
	18	5.49	74.5	54'	7"	
				54'	7"	
	19	5.79	73.3	54'	4"	
				54'	4"	
	20	6.10	72.1	54'	0"	
				54'	0"	
	25	7.62	66.0	52'	1"	
				52'	1"	
	30	9.14	59.6	49'	6"	
				49'	6"	
	35	10.67	52.7	46'	2"	
				46'	2"	
	40	12.19	45.0	41'	10"	
				41'	10"	
	50	15.24	25.0	27'	6"	
				27'	6"	
	16	4.88	80.7	75'	6"	
				75'	6"	
	17	5.18	79.9	75'	4"	
				75'	4"	
	18	5.49	79.0	75'	1"	
				75'	1"	
	19	5.79	78.2	74'	11"	
				74'	11"	
	20	6.10	77.3	74'	9"	
				74'	9"	
	25	7.62	73.1	73'	5"	
				73'	5"	
	30	9.14	68.3	69'	6"	
				69'	6"	
	35	10.67	64.3	67'	6"	
				67'	6"	
	40	12.19	58.7	66'	10"	
				66'	10"	
	50	15.24	49.6	59'	9"	
				59'	9"	
	60	18.29	37.8	49'	3"	
				49'	3"	
	70	21.34	21.0	31'	7"	
				31'	7"	
	19	5.79	80.2	95'	3"	
				95'	3"	
	20	6.10	80.8	95'	1"	
				95'	1"	
	25	7.62	76.9	94'	1"	
				94'	1"	
	30	9.14	73.3	92'	9"	
				92'	9"	
	35	10.67	70.3	91'	2"	
				91'	2"	
	40	12.19	66.9	89'	2"	
				89'	2"	
	50	15.24	59.8	84'	2"	
				84'	2"	
	60	18.29	52.1	77'	5"	
				77'	5"	
	70	21.34	43.5	68'	3"	
				68'	3"	
	80	24.38	33.2	55'	8"	
				55'	8"	
	90	27.43	18.5	35'	0"	
				35'	0"	
	25	7.62	79.3	114'	6"	
				114'	6"	
	30	9.14	76.7	113'	6"	
				113'	6"	
	35	10.67	74.0	112'	2"	
				112'	2"	
	40	12.19	71.3	110'	7"	
				110'	7"	
	50	15.24	65.7	106'	7"	
				106'	7"	
	60	18.29	58.8	101'	6"	
				101'	6"	
	70	21.34	53.8	94'	11"	
				94'	11"	
	80	24.38	46.8	88'	7"	
				88'	7"	
	90	27.43	39.1	75'	10"	
				75'	10"	
	100	30.48	29.9	36'	2"	
				36'	2"	
	110	33.53	16.7	23'	1"	
				23'	1"	
	30	9.14	78.8	133'	11"	
				133'	11"	
	35	10.67	76.5	132'	10"	
				132'	10"	
	40	12.19	74.2	131'	6"	
				131'	6"	
	50	15.24	69.6	128'	3"	
				128'	3"	
	60	18.29	64.8	124'	1"	
				124'	1"	
	70	21.34	59.8	118'	10"	
				118'	10"	
	80	24.38	54.0	112'	4"	
				112'	4"	
	90	27.43	49.0	104'	6"	
				104'	6"	
	100	30.48	42.8	94'	10"	
				94'	10"	
	110	33.53	35.9	82'	7"	
				82'	7"	
	120	36.58	27.5	66'	5"	
				66'	5"	
	130	39.62	15.4	40'	11"	
				40'	11"	

③ Measured from center of boom head sheave to ground.

GENERAL INFORMATION ONLY

LS-518 lifting crane capacities

7. Boom lengths exceeding 150' (45.72 m) — boom midpoint suspension pendants are required. Least stable rated condition is over the side.
8. Main boom length must not exceed 210' (64.01 m), and jib must not be mounted on boom longer than 190' (57.91 m). Maximum jib length permitted on 190' (57.91 m) main boom — 40' (12.19 m).
9. Maximum boom/jib combination permitted — 190' (57.91 m) boom plus 40' (12.19 m) jib. Maximum jib length permitted — 40' (12.19 m).
10. To determine capacities for intermediate boom lengths not shown on this chart, use the capacity for the next longer boom length shown — for actual angle or radius at which boom/load are being worked.
11. The angle and radii shown for combined boom and jib lengths are only to be used for determining jib capacities.
12. These capacities apply only to the machine as originally manufactured and normally equipped by FMC Corporation, Construction Equipment Group.

GENERAL INFORMATION ONLY

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



Lifting capacities [ⓐ]		Counterweight	
		"A"	"AB"
Length	Feet	Lbs.	kg
	meters	Lbs.	kg
210' (64.01 m)	37.19 32.06 25.45 15.39	3.0 2.1 1.4	1.4 1.0 0.6

[ⓐ] Measured from center of boom head sheave to ground.
[ⓑ] Capacities shown in thousand pounds and kilograms.

Combined boom and jib lengths											
Length	Radius		Angle	Boom point height [ⓐ]		Length	Radius		Angle	Boom point height [ⓐ]	
	Feet	meters		Feet	meters		Feet	meters		Feet	meters
220' (67.06 m)	40	12.19	80.8	223' 7"	68.15	50	15.24	78.6	131' 11"	40.21	
	50	15.24	76.1	221' 8"	67.57	60	18.29	76.1	229' 7"	69.98	
	60	18.29	75.4	219' 4"	66.85	70	21.34	73.5	227' 0"	69.19	
	70	21.34	72.7	216' 6"	65.99	80	24.38	70.9	223' 9"	68.20	
	80	24.38	70.0	213' 1"	64.95	90	27.43	68.2	220' 0"	67.06	
	90	27.43	67.2	209' 3"	63.78	100	30.48	65.5	215' 9"	65.76	
	100	30.48	64.3	204' 9"	62.41	110	33.53	62.7	210' 11"	64.29	
	110	33.53	61.4	196' 7"	59.92	120	36.58	59.9	205' 5"	62.61	
	120	36.58	58.4	193' 9"	59.06	130	39.52	57.0	199' 3"	60.73	
	130	39.52	55.3	187' 3"	57.07	140	42.57	54.0	192' 5"	58.65	
230' (70.10 m)	140	42.57	52.0	179' 10"	54.81	150	45.72	50.8	184' 8"	56.29	
	150	45.72	48.7	171' 6"	52.27	160	48.79	47.5	176' 0"	53.64	
	160	48.79	45.1	162' 4"	49.48	170	51.82	44.0	166' 4"	50.70	
	170	51.82	41.3	151' 6"	46.18	180	54.86	40.3	155' 3"	47.32	
	180	54.86	37.2	139' 3"	42.44	190	57.91	36.3	142' 7"	43.46	
	190	57.91	32.6	124' 11"	38.07	200	60.96	31.9	128' 0"	39.01	
	200	60.96	27.4	107' 8"	32.82	210	64.01	26.8	110' 0"	33.53	
	210	64.01	21.0	85' 4"	26.01	220	67.06	20.6	87' 3"	26.59	
	220	67.06	11.8	51' 6"	15.70	230	70.10	11.6	52' 6"	16.00	

[ⓐ] Measured from center of jib peak sheave to ground.

Notes — lifting capacities

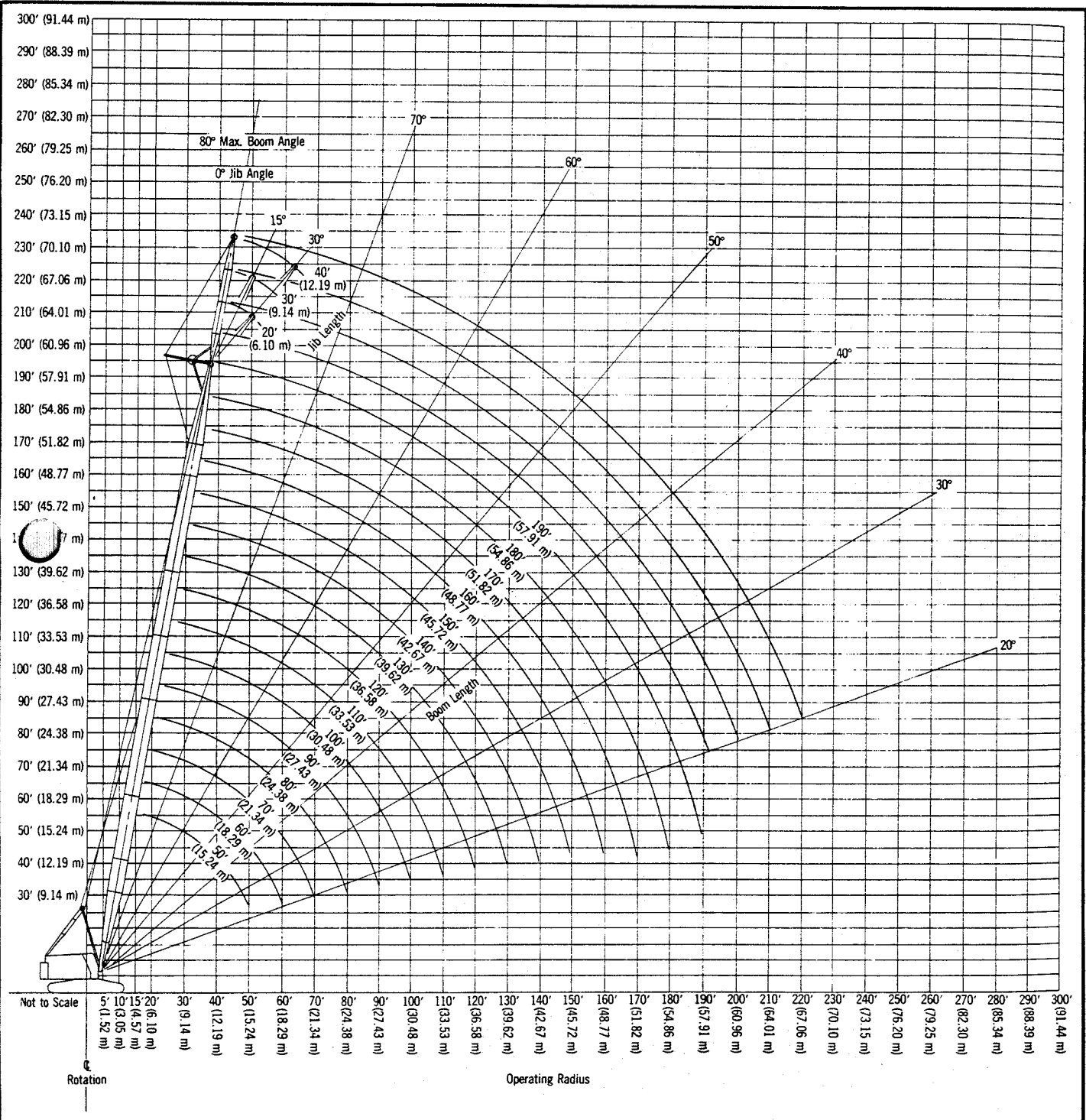
1. The capacities included in this chart are the maximum allowable and are based on machine standing level on firm supporting surface under ideal job conditions.
2. Capacities are not more than 75% of minimum tipping loads.
 - a. Those capacities marked with an asterisk indicate capacities based on factors other than those which would cause a tipping condition.
3. Capacities are based on freely suspended loads and make no allowance for such factors as the effect of wind, sudden stopping of loads, supporting surface conditions, and operating speeds. Operator must reduce load ratings to take such conditions into account. Deduction from rated capacities must be made for weight of jib, hook block, weighted ball/hook, sling, spreader bar, or other suspended gear.
4. Angle Boom with Open Throat Top Section — for lifting 300,000# (136,080 kg), 10-part load hoist line (1 1/8" — 28.58 mm — Type "N" wire rope) is required. Check parts of line required for all capacities.
5. The 30' 0" (9.14 m) boom live mast must be in operating position for all capacities on this chart.
6. When using 30' 0" (9.14 m) boom live mast as short boom, maximum lifting capacity of the mast is 47,000# (21,319 kg) at radii from 13' 0" (3.96 m) minimum to 20' 0" (6.10 m) maximum and live mast stops in position and operative.
 - a. For lifting 47,000# (21,319 kg) on boom live mast with 3/4" (19.05 mm) Type "N" wire rope are required.
 - b. Boom live mast may be used as a short boom for machine assembly/disassembly only. Boom live mast is not to be used for general lift crane service.

LS-518 boom/jib working ranges

Boom — angle, 54" x 60" (1.37 x 1.52 m) with 0° jib angle; with boom live mast; with boom midpoint suspension pendants as required.

Crawler — 16' 0" (4.80 m) gauge, 24' 4" (7.42 m) over-all length.

GENERAL INFORMATION ONLY



Link-Belt® LS-518 jib capacities (U.S. units)

Refer to notes page 5.

Boom — tubular: 80" wide, 68" deep with tapered top section, boom live mast 1 3/8" diameter boom pendants, and boom midpoint suspension pendants as required.

Jib — tubular: 24" x 32".

Counterweight — 90,000 lbs. "AB" only.

Mounting — crawler: 16' 0" gauge, 24' 4" over-all length.

Boom length Feet	Load radius Feet	Capacities — 360° swing									
		30° jib			50° jib			70° jib			
		Jib angles to boom (jib offset degrees)									
		0°	15°	30°	0°	15°	30°	0°	15°	30°	
		Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	
130	35	23,600*									
	40	22,700*									
	50	21,000*									
	60	19,300*									
	70	17,500*	14,000*	11,900*	13,700*	10,200*	7,500*	10,400*	7,800*		
	80	16,200*	12,900*	11,500*	12,700*	9,000*	7,300*	8,800*	6,600*	4,700*	
	90	15,100*	12,500*	11,000*	11,600*	7,900*	7,000*	8,000*	6,000*	4,500*	
	100	14,100*	12,100*	10,600*	10,400*	7,700*	6,600*	7,400*	5,300*	4,200*	
	110	12,900*	11,600*	10,100*	9,100*	7,400*	6,100*	6,700*	4,900*	4,000*	
	120	12,400*	11,200*		7,900*	7,200*	5,500*	6,000*	4,600*	3,700*	
	130	11,900*	10,600*		7,600*	6,800*		5,300*	4,400*	3,300*	
	140	11,300*	10,000*		7,300*	6,200*		4,800*	4,100*	2,900*	
	150	10,600*			7,000*	5,500*		4,600*	3,800*	2,500*	
	160				6,300*			4,300*	3,400*		
	170				5,400*			4,000*	2,900*		
180							3,400*				
190							2,800*				
140	35	23,900*									
	40	23,100*									
	50	21,500*	16,200*	12,700*	15,700*			11,400*			
	60	19,900*	15,300*	12,400*	14,800*	11,500*		10,600*	7,900*		
	70	18,200*	14,300*	12,000*	14,000*	10,500*	7,600*	9,900*	7,300*		
	80	16,700*	13,300*	11,600*	13,100*	9,400*	7,300*	9,100*	6,800*	4,700*	
	90	15,700*	12,700*	11,200*	12,100*	8,300*	7,100*	8,300*	6,200*	4,500*	
	100	14,600*	12,300*	10,800*	11,100*	7,800*	6,800*	7,600*	5,600*	4,300*	
	110	13,500*	11,900*	10,400*	9,800*	7,600*	6,300*	7,000*	5,000*	4,100*	
	120	12,700*	11,500*	10,000*	8,600*	7,300*	5,800*	6,400*	4,700*	3,800*	
	130	12,300*	11,000*		7,800*	7,100*	5,300*	5,700*	4,500*	3,500*	
	140	11,800*	10,500*		7,500*	6,600*		5,100*	4,300*	3,100*	
	150	11,200*			7,300*	6,000*		4,700*	4,000*	2,800*	
	160	10,500*			6,900*	5,400*		4,500*	3,700*		
	170				6,200*			4,200*	3,300*		
180				5,300*			3,900*	2,800*			
190							3,400*				
200							2,800*				
150	40	23,400*									
	50	21,900*	16,400*		15,800*			11,500*			
	60	20,400*	15,500*	12,400*	15,100*	11,800*		10,800*			
	70	18,800*	14,600*	12,100*	14,300*	10,800*	7,600*	10,100*	7,500*		
	80	17,200*	13,700*	11,700*	13,500*	9,700*	7,400*	9,400*	6,900*	4,800*	
	90	16,200*	12,900*	11,400*	12,600*	8,700*	7,200*	8,600*	6,400*	4,600*	
	100	15,200*	12,500*	11,000*	11,500*	7,900*	7,000*	7,900*	5,800*	4,400*	
	110	14,200*	12,100*	10,600*	10,400*	7,700*	6,500*	7,300*	5,200*	4,200*	
	120	13,100*	11,700*	10,200*	9,300*	7,400*	6,100*	6,700*	4,800*	4,000*	
	130	12,600*	11,300*		8,100*	7,200*	5,600*	6,100*	4,600*	3,700*	
	140	12,100*	10,900*		7,700*	7,000*	5,000*	5,500*	4,400*	3,300*	
	150	11,700*	10,400*		7,500*	6,400*		4,900*	4,200*	3,000*	
	160	10,800*			7,200*	5,800*		4,700*	4,000*	2,600*	
	170	9,700*			6,800*	5,200*		4,400*	3,600*		
	180				6,100*			4,200*	3,200*		
190				5,200*			3,800*	2,700*			
200							3,300*				
210							2,700*				
160	40	23,700*									
	50	22,200*	16,600*		16,000*			11,700*			
	60	20,800*	15,700*	12,500*	15,300*	12,000*		11,000*			
	70	19,300*	14,900*	12,200*	14,500*	11,000*	7,600*	10,300*	7,600*		
	80	17,800*	14,000*	11,900*	13,700*	10,100*	7,400*	9,600*	7,100*	4,800*	
	90	16,600*	13,200*	11,500*	13,000*	9,100*	7,200*	8,900*	6,500*	4,600*	
	100	15,700*	12,700*	11,200*	12,000*	8,100*	7,000*	8,200*	6,000*	4,400*	
	110	14,700*	12,300*	10,800*	10,900*	7,600*	6,700*	7,600*	5,400*	4,200*	
	120	13,800*	12,000*	10,400*	9,900*	7,600*	6,300*	7,000*	4,900*	4,000*	
	130	12,900*	11,600*	10,000*	8,800*	7,300*	5,800*	6,500*	4,700*	3,800*	
140	12,500*	11,200*		7,900*	7,100*		5,900*	4,500*	3,500*		
150	11,800*	10,700*		7,700*	6,800*		5,200*	4,300*	3,200*		

(continued)

Boom length Feet	Load radius Feet	Capacities — 360° swing								
		30° jib			50° jib			70° jib		
		Jib angles to boom (jib offset degrees)								
		0°	15°	30°	0°	15°	30°	0°	15°	30°
Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	
10	160	10,500	10,200		7,400	6,300		4,800	4,100	2,800
	170	9,400			7,100	5,700		4,600	3,800	2,600
	180	8,500			6,700	5,100		4,400	3,600	
	190				6,300			4,200	3,400	
	200				5,900			4,000	3,200	
	210				5,500			3,800	3,000	
	220				5,100			3,600	2,800	
	230				4,700			3,400	2,600	
	240				4,300			3,200	2,400	
	250				3,900			3,000	2,200	
15	160	14,500	14,200		10,400	8,800		6,800	5,800	4,000
	170	13,000			10,000	8,200		6,400	5,400	3,800
	180	11,800			9,600	7,600		6,000	5,000	
	190	10,800			9,200	7,000		5,600	4,600	
	200	10,000			8,800	6,400		5,200	4,200	
	210	9,300			8,400	6,000		4,800	3,800	
	220	8,700			8,000	5,600		4,400	3,400	
	230	8,200			7,600	5,200		4,000	3,000	
	240	7,800			7,200	4,800		3,600	2,600	
	250	7,400			6,800	4,400		3,200	2,200	
20	160	19,500	19,200		14,400	12,300		9,600	8,200	5,600
	170	17,500			14,000	11,700		9,200	7,800	5,400
	180	16,000			13,600	11,100		8,800	7,400	
	190	14,800			13,200	10,500		8,400	7,000	
	200	13,800			12,800	9,900		8,000	6,600	
	210	13,000			12,400	9,300		7,600	6,200	
	220	12,300			12,000	8,700		7,200	5,800	
	230	11,700			11,600	8,100		6,800	5,400	
	240	11,200			11,200	7,500		6,400	5,000	
	250	10,800			10,800	6,900		6,000	4,600	
25	160	25,500	25,200		19,400	16,600		13,000	11,200	7,800
	170	23,000			19,000	16,000		12,600	10,800	7,600
	180	21,000			18,600	15,400		12,200	10,400	
	190	19,500			18,200	14,800		11,800	10,000	
	200	18,200			17,800	14,200		11,400	9,600	
	210	17,200			17,400	13,600		11,000	9,200	
	220	16,300			17,000	13,000		10,600	8,800	
	230	15,500			16,600	12,400		10,200	8,400	
	240	14,800			16,200	11,800		9,800	8,000	
	250	14,200			15,800	11,200		9,400	7,600	

(continued)

GENERAL INFORMATION ONLY

LS-518 jib capacities (U.S. units)

Refer to notes page 5

Boom length	Load radius	Capacities — 360 swing									
		30 jib			50 jib			70 jib			
		Jib angles to boom (jib offset degrees)									
		0°	15°	30°	0°	15°	30°	0°	15°	30°	
Feet	Feet	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	
200	50	10,500	23,400*	12,700*	15,900*	16,500*					
	60	23,000*	16,400*	12,700*	15,900*	11,800*					
	70	21,000*	15,700*	12,600*	15,300*	11,300*					
	80	18,400*	14,300*	12,300*	14,700*	10,800*	7,500*				
	90	16,500*	14,100*	11,900*	14,200*	10,200*	7,400*				
	100	14,900*	12,700*	11,700*	13,400*	9,400*	7,200*				
	110	12,400*	12,700*	11,400*	12,600*	8,600*	7,000*				
	120	10,700*	10,600*	11,000*	11,800*	7,900*	6,800*				
	130	10,700*	10,400*	10,600*	10,700*	7,700*	6,600*				
	140	10,100*	10,200*	10,500*	10,100*	7,500*	6,500*				
	150	10,800*	10,300*	10,200*	9,100*	7,400*	6,300*				
	160	9,400*	9,600*	9,200*	8,200*	7,200*	6,100*				
	170	8,300*	8,300*	8,300*	7,300*	7,000*	5,900*				
	180	7,300*	7,500*	7,600*	7,600*	6,800*	5,700*				
	190	6,500*	6,600*	6,800*	6,800*	6,200*	5,500*				
	200	6,700*	6,700*	6,900*	6,900*	6,300*	5,600*				
	210	5,700*	5,700*	5,900*	5,900*	5,300*	4,700*				
220	4,900*	4,900*	5,100*	5,100*	4,500*	3,900*					
230	4,300*	4,300*	4,500*	4,500*	4,000*	3,400*					
240	3,600*	3,600*	3,800*	3,800*	3,300*	2,800*					
250	3,000*	3,000*	3,200*	3,200*	2,700*	2,300*					
260	2,400*	2,400*	2,600*	2,600*	2,100*	1,800*					
270	1,800*	1,800*	1,900*	1,900*	1,500*	1,300*					
210	50	20,600*	16,600*	12,500*	16,200*	12,000*					
	60	23,400*	16,900*	12,500*	16,400*	12,000*					
	70	21,000*	15,200*	12,300*	15,400*	11,200*					
	80	18,300*	14,800*	12,000*	14,200*	10,400*	7,100*				
	90	16,300*	13,900*	11,300*	13,000*	9,700*	6,600*				
	100	14,700*	12,800*	11,200*	12,300*	9,100*	6,400*				
	110	12,400*	12,500*	10,900*	11,400*	8,600*	6,200*				
	120	10,700*	12,500*	10,300*	10,900*	7,800*	6,000*				
	130	11,700*	12,100*	10,700*	10,600*	7,600*	5,800*				
	140	10,300*	10,600*	10,400*	9,700*	7,500*	5,700*				
	150	9,000*	9,300*	9,500*	8,800*	7,300*	5,600*				
	160	7,900*	8,200*	8,500*	7,900*	7,100*	5,500*				
	170	7,000*	7,200*	7,300*	7,300*	6,600*	5,400*				
	180	6,100*	6,300*	6,400*	6,400*	5,800*	5,200*				
	190	5,300*	5,500*	5,600*	5,700*	5,100*	4,600*				
	200	4,500*	4,700*	4,800*	4,800*	4,300*	3,900*				
	210	4,000*	4,200*	4,300*	4,300*	3,800*	3,500*				
220	3,500*	3,700*	3,800*	3,800*	3,300*	3,100*					
230	3,000*	3,200*	3,300*	3,300*	2,800*	2,700*					
240	2,500*	2,600*	2,700*	2,700*	2,300*	2,200*					
250	2,000*	2,100*	2,200*	2,200*	1,800*	1,700*					
260	1,500*	1,600*	1,600*	1,600*	1,300*	1,200*					
270	1,000*	1,000*	1,000*	1,000*	800*	800*					
220	50	23,800*	16,700*	12,600*	16,200*	12,100*					
	60	22,700*	16,100*	12,600*	15,800*	12,100*					
	70	21,600*	16,100*	12,300*	15,000*	11,400*					
	80	20,500*	15,400*	12,300*	14,700*	11,400*	7,700*				
	90	19,400*	14,800*	12,100*	14,400*	10,700*	7,400*				
	100	18,200*	14,100*	11,800*	13,900*	10,300*	7,100*				
	110	17,100*	13,500*	11,600*	13,200*	9,700*	6,800*				
	120	16,000*	12,900*	11,300*	12,500*	9,100*	6,500*				
	130	15,100*	12,600*	11,300*	11,700*	8,400*	6,200*				
	140	14,400*	11,800*	10,800*	10,900*	7,700*	5,900*				
	150	13,700*	10,300*	10,500*	10,100*	7,400*	5,600*				
	160	13,000*	9,300*	9,300*	9,100*	7,100*	5,300*				
	170	12,300*	8,300*	8,300*	8,000*	6,800*	5,000*				
	180	11,600*	7,300*	7,300*	7,000*	6,500*	4,700*				
	190	11,000*	6,300*	6,300*	6,100*	6,200*	4,400*				
	200	10,400*	5,300*	5,300*	5,400*	5,900*	4,100*				
	210	9,800*	4,300*	4,300*	4,700*	5,600*	3,800*				
220	9,200*	3,300*	3,300*	4,000*	5,300*	3,500*					
230	8,600*	2,300*	2,300*	3,700*	5,000*	3,200*					
240	8,000*	1,300*	1,300*	3,400*	4,700*	2,900*					
250	7,400*	300*	300*	3,100*	4,400*	2,600*					
260	6,800*			2,800*	4,100*	2,300*					
270	6,200*			2,500*	3,800*	2,000*					

(continued)

GENERAL INFORMATION ONLY

LS-518 jib capacities (U.S. units)

Refer to notes page 5.

Boom length	Load radius	Capacities — 360 swing								
		30 jib			50 jib			70 jib		
		Jib angles to boom (jib offset degrees)								
		0°	15°	30°	0°	15°	30°	0°	15°	30°
Feet	Feet	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	
20'	60	22,900*	18,800*		16,300*			11,900*		
	70	21,900*	18,200*	12,600*	15,700*	12,300*		11,300*		
	80	20,800*	17,500*	12,400*	15,200*	11,600*	7,700*	10,800*	7,600*	
	90	19,700*	16,800*	12,200*	14,600*	10,800*	7,600*	10,300*	7,400*	4,900*
	100	18,700*	16,200*	11,900*	14,000*	10,100*	7,400*	9,800*	7,100*	4,700*
	110	17,700*	15,500*	11,700*	13,400*	9,400*	7,200*	9,300*	6,700*	4,500*
	120	16,800*	14,800*	11,400*	12,800*	8,700*	7,000*	8,800*	6,200*	4,300*
	130	15,900*	14,100*	11,200*	12,200*	8,000*	6,800*	8,300*	5,700*	4,100*
	140	15,000*	13,400*	10,900*	11,600*	7,300*	6,600*	7,800*	5,200*	3,900*
	150	14,100*	12,700*	10,700*	11,000*	6,600*	6,400*	7,300*	4,700*	3,700*
	160	13,200*	12,000*	10,500*	10,400*	5,900*	6,200*	6,800*	4,200*	3,500*
	170	12,300*	11,300*	10,300*	9,800*	5,200*	6,000*	6,300*	3,700*	3,300*
	180	11,400*	10,600*	10,100*	9,200*	4,500*	5,800*	5,800*	3,200*	3,100*
	190	10,500*	9,900*	9,900*	8,600*	3,800*	5,600*	5,300*	2,700*	2,900*
	200	9,600*	9,200*	9,700*	8,000*	3,100*	5,400*	4,800*	2,200*	2,700*
	210	8,700*	8,500*	9,500*	7,400*	2,400*	5,200*	4,300*	1,700*	2,500*
	220	7,800*	7,800*	9,300*	6,800*	1,700*	5,000*	3,800*	1,200*	2,300*
	230	6,900*	7,100*	9,100*	6,200*	1,000*	4,800*	3,300*	700*	2,100*
	240	6,000*	6,400*	8,900*	5,600*	300*	4,600*	2,800*	200*	1,900*
	250	5,100*	5,700*	8,700*	5,000*		4,400*	2,300*		1,700*
260	4,200*	5,000*	8,500*	4,400*		4,200*	1,800*		1,500*	
270	3,300*	4,300*	8,300*	3,800*		4,000*	1,300*		1,300*	
280	2,400*	3,600*	8,100*	3,200*		3,800*	800*		1,100*	
290	1,500*	2,900*	7,900*	2,600*		3,600*	300*		900*	
25'	60	23,700*	19,400*		16,400*			11,900*		
	70	22,700*	18,800*	12,700*	16,000*	12,400*		11,400*		
	80	21,600*	18,100*	12,400*	15,500*	11,700*	7,700*	10,900*	7,600*	
	90	20,500*	17,400*	12,200*	14,900*	11,000*	7,600*	10,400*	7,400*	4,900*
	100	19,500*	16,700*	12,000*	14,300*	10,300*	7,400*	9,900*	7,100*	4,700*
	110	18,500*	16,000*	11,800*	13,700*	9,600*	7,200*	9,400*	6,700*	4,500*
	120	17,500*	15,300*	11,600*	13,100*	8,900*	7,000*	8,900*	6,200*	4,300*
	130	16,600*	14,600*	11,400*	12,500*	8,200*	6,800*	8,400*	5,700*	4,100*
	140	15,700*	13,900*	11,200*	11,900*	7,500*	6,600*	7,900*	5,200*	3,900*
	150	14,800*	13,200*	11,000*	11,300*	6,800*	6,400*	7,400*	4,700*	3,700*
	160	13,900*	12,500*	10,800*	10,700*	6,100*	6,200*	6,900*	4,200*	3,500*
	170	13,000*	11,800*	10,600*	10,100*	5,400*	6,000*	6,400*	3,700*	3,300*
	180	12,100*	11,100*	10,400*	9,500*	4,700*	5,800*	5,900*	3,200*	3,100*
	190	11,200*	10,400*	10,200*	8,900*	4,000*	5,600*	5,400*	2,700*	2,900*
	200	10,300*	9,700*	10,000*	8,300*	3,300*	5,400*	4,900*	2,200*	2,700*
	210	9,400*	9,000*	9,800*	7,700*	2,600*	5,200*	4,400*	1,700*	2,500*
	220	8,500*	8,300*	9,600*	7,100*	1,900*	5,000*	3,900*	1,200*	2,300*
	230	7,600*	7,600*	9,400*	6,500*	1,200*	4,800*	3,400*	700*	2,100*
	240	6,700*	6,900*	9,200*	5,900*	500*	4,600*	2,900*	200*	1,900*
	250	5,800*	6,200*	9,000*	5,300*		4,400*	2,400*		1,700*
260	4,900*	5,500*	8,800*	4,700*		4,200*	1,900*		1,500*	
270	4,000*	4,800*	8,600*	4,100*		4,000*	1,400*		1,300*	
280	3,100*	4,100*	8,400*	3,500*		3,800*	900*		1,100*	
290	2,200*	3,400*	8,200*	2,900*		3,600*	400*		900*	
30'	60	24,500*	19,900*		16,500*			11,900*		
	70	23,500*	19,300*	12,800*	16,100*	12,500*		11,500*		
	80	22,400*	18,600*	12,500*	15,600*	11,800*	7,700*	11,000*	7,600*	
	90	21,300*	17,900*	12,300*	15,000*	11,100*	7,600*	10,500*	7,400*	4,900*
	100	20,300*	17,200*	12,100*	14,400*	10,400*	7,400*	10,000*	7,100*	4,700*
	110	19,300*	16,500*	11,900*	13,800*	9,700*	7,200*	9,500*	6,700*	4,500*
	120	18,300*	15,800*	11,700*	13,200*	9,000*	7,000*	9,000*	6,200*	4,300*
	130	17,300*	15,100*	11,500*	12,600*	8,300*	6,800*	8,500*	5,700*	4,100*
	140	16,400*	14,400*	11,300*	12,000*	7,600*	6,600*	8,000*	5,200*	3,900*
	150	15,500*	13,700*	11,100*	11,400*	6,900*	6,400*	7,500*	4,700*	3,700*
	160	14,600*	13,000*	10,900*	10,800*	6,200*	6,200*	7,000*	4,200*	3,500*
	170	13,700*	12,300*	10,700*	10,200*	5,500*	6,000*	6,500*	3,700*	3,300*
	180	12,800*	11,600*	10,500*	9,600*	4,800*	5,800*	6,000*	3,200*	3,100*
	190	11,900*	10,900*	10,300*	9,000*	4,100*	5,600*	5,500*	2,700*	2,900*
	200	11,000*	10,200*	10,100*	8,400*	3,400*	5,400*	5,000*	2,200*	2,700*
	210	10,100*	9,500*	9,900*	7,800*	2,700*	5,200*	4,500*	1,700*	2,500*
	220	9,200*	8,800*	9,700*	7,200*	2,000*	5,000*	4,000*	1,200*	2,300*
	230	8,300*	8,100*	9,500*	6,600*	1,300*	4,800*	3,500*	700*	2,100*
	240	7,400*	7,400*	9,300*	6,000*	600*	4,600*	3,000*	200*	1,900*
	250	6,500*	6,700*	9,100*	5,400*		4,400*	2,500*		1,700*
260	5,600*	6,000*	8,900*	4,800*		4,200*	2,000*		1,500*	
270	4,700*	5,300*	8,700*	4,200*		4,000*	1,500*		1,300*	
280	3,800*	4,600*	8,500*	3,600*		3,800*	1,000*		1,100*	
290	2,900*	3,900*	8,300*	3,000*		3,600*	500*		900*	

GENERAL INFORMATION ONLY

LS-518 jib capacities (U.S. units)

Notes — tubular jib lifting capacities

1. Capacities are maximum allowable. Deduction from rated jib capacities must be made for weight of hook block, weighted ball/hook, sling, load weighing devices, or other suspended gear
2. Refer to all notes on applicable lifting crane capacity chart in addition to these notes.
3. 12' 7" high jib mast must be in proper working position.
4. Capacities shown are for 30', 50' and 70' jib lengths only.
5. To determine rated jib capacities for intermediate **jib lengths** not shown, add capacities for next longer and shorter **jib lengths** shown — at the specific desired load radius and jib offset degree. One half of this sum represents rated capacity for desired jib length not shown.
6. To determine rated jib capacities for intermediate **boom lengths** not shown, add jib capacities for next longer and shorter **boom lengths** shown — for specific jib length, jib offset degree and load radius desired. One half of this sum represents rated capacity for the desired jib on the boom length not shown.
7. To determine rated jib capacities when neither the intermediate jib or boom lengths are shown, use following procedure:
 - a. Using next longer **boom length** at desired radius, read capacity for next shorter **jib length** at desired offset degree. At this same boom length and radius, also read capacity for next longer **jib length**. Add the two capacity figures and divide by two.
 - b. Using next shorter **boom length** at desired radius, read capacity for next shorter **jib length** at desired offset degree. At this same boom length and radius, also read capacity for next longer **jib length**. Add the two capacity figures and divide by two.
 - c. Rated jib capacity is equal to sum of totals found in (a.) and (b.), divided by two.
8. Two parts of $\frac{7}{8}$ " diameter Type "N" wire rope are required for lifting loads greater than 14,800 lbs. and up to 23,900 lbs. (maximum permissible load for two parts of line based on wire rope strength — 45,000 lbs.) For single part operation, $\frac{7}{8}$ " diameter Type "P" wire rope is recommended (maximum permissible load for one part of line based on wire rope strength — 14,800 lbs.)

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



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