



GENERAL INFORMATION ONLY

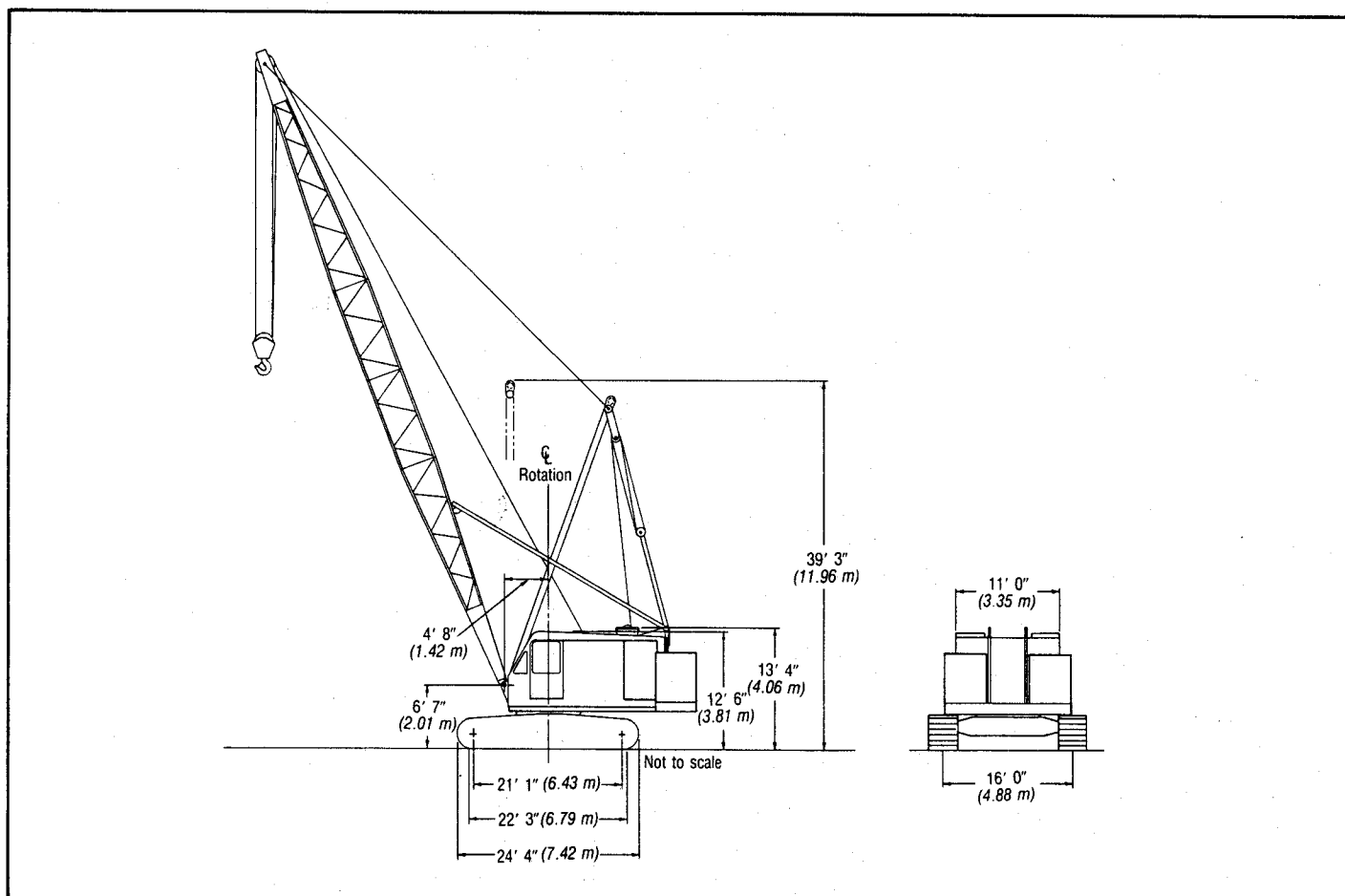


General Specifications

Link-Belt® 150-ton (136.05 metric ton)

Wire rope crawler excavator/crane

LS-518

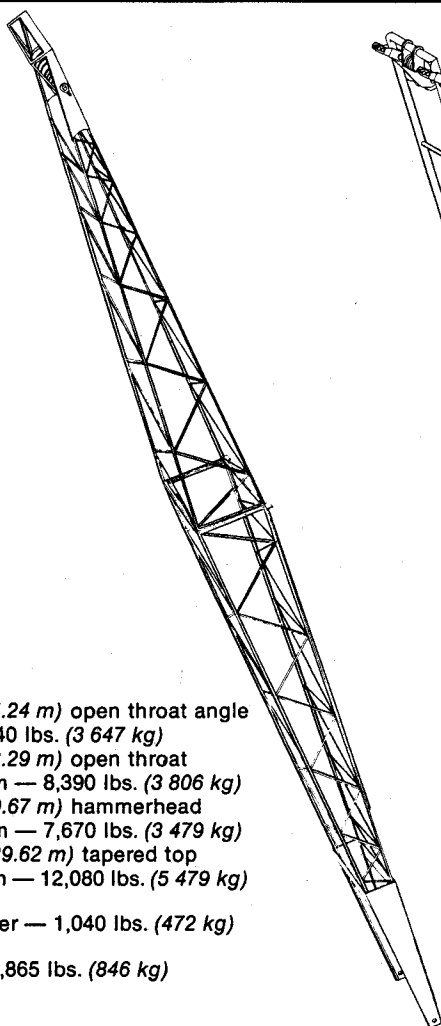


General dimensions	Feet	meters	General dimensions	Feet	meters
Overall width for transport less side frames and catwalks; axles in line with upper	11' 0"	3.35	Basic angle boom length	50' 0"	15.24
Overall width of counterweight	17' 0"	5.25	Basic tubular boom lengths:	—	—
Width of cab less catwalks	11' 0"	3.35	— Open throat	60' 0"	18.29
Width of cab with catwalks both sides	16' 10"	5.13	— Hammerhead	35' 0"	10.67
Tailswing of counterweight "A" or "AB"	17' 3"	5.26	— Tapered top	130' 0"	39.62
Overall height for transport — basic machine less crawler side frames	11' 11"	3.63	Overall width with 44" (1.12 m) track shoes	19' 8"	5.99
Overall height, live boom mast with 60' (18.29) boom horizontal	25' 6"	7.77	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



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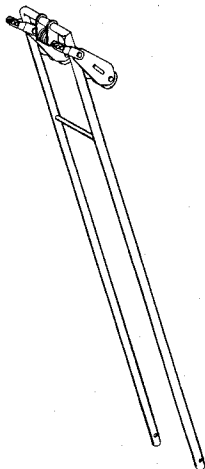
Weight deductions for transporting — approximate



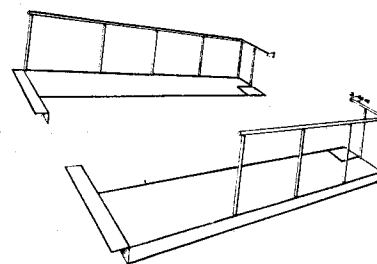
Basic 50' (15.24 m) open throat angle boom — 8,040 lbs. (3 647 kg)
 Basic 60' (18.29 m) open throat tubular boom — 8,390 lbs. (3 806 kg)
 Basic 35' (10.67 m) hammerhead tubular boom — 7,670 lbs. (3 479 kg)
 Basic 130' (39.62 m) tapered top tubular boom — 12,080 lbs. (5 479 kg)

Tagline winder — 1,040 lbs. (472 kg)

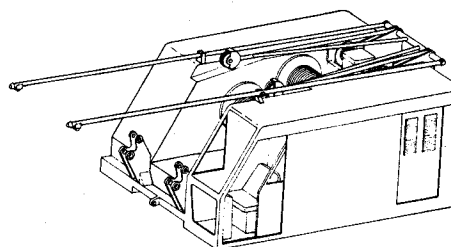
Fairlead — 1,865 lbs. (846 kg)



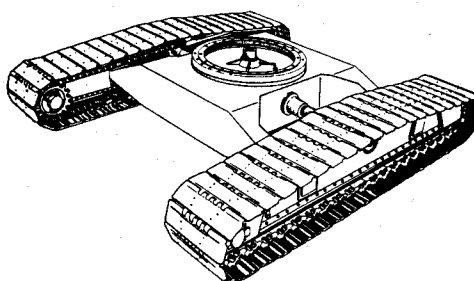
Boom live mast — 5,620 lbs. (2 549 kg)



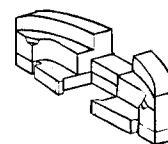
Catwalks — 1,600 lbs. (726 kg)



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

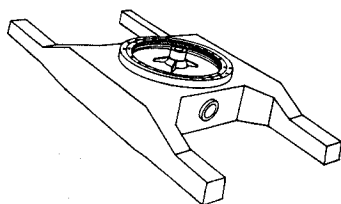


Complete crawler mounting with turntable bearing — 88,775 lbs. (40 268 kg)

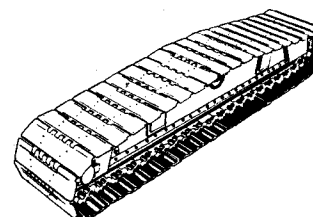


Counterweight "A" — 20,500 lbs. (9 299 kg)

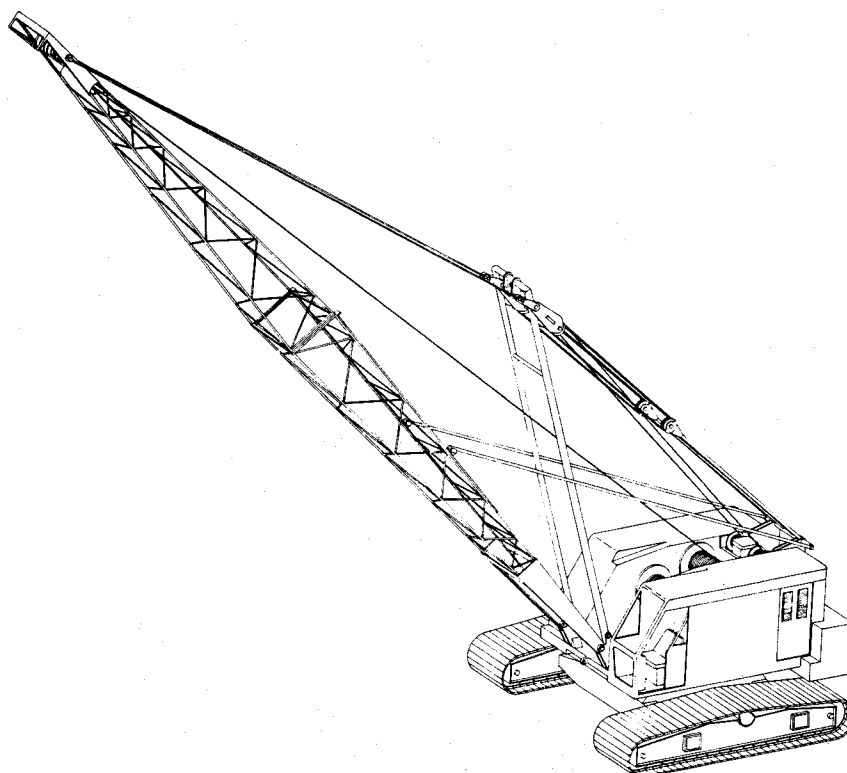
Counterweight "B" — 69,500 lbs. (31,525 kg)



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)

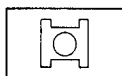
**GENERAL INFORMATION ONLY****Machine working weights — approximate**

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.

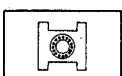
— with 20,500 lb. (9 299 kg) counterweight "A"

— with 90,000 (40 824 kg) counterweight "AB"

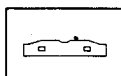
Pounds	kilograms
189,025	85 472
258,525	117 267

General specifications**Mounting — crawler****Lower frame**

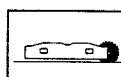
All-welded, stress relieved, precision machined; lined bored for traction shaft. Machined surface provided for mounting turntable bearing.

**Turntable bearing**

Inner race with internal swing gear bolted to lower frame.

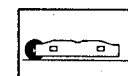
**Crawler side frames**

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 wedgebacks 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

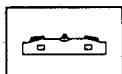
sprocket assembly mounted on bronze bushings, chain driven from sprocket on outer traction shaft; one per side frame. Track drive sprocket lugs mesh with shoe lugs; axle adjusted for chain take-up.

**Track idler wheels**

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

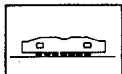


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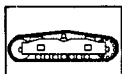
Track carrier rollers

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).

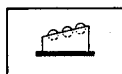
Gradeability — 30% based on machine equipped with "AB" counterweight, basic 60' (18.29 m) long, 62" (1.57 m) deep tubular boom, and boom live mast.

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.

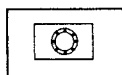
Counterweight	Track shoes		Ground contact area		Ground bearing pressure	
	Inches	meters	Square inches	cm ²	P.s.i.	kPa
"A" 20,500 lbs. (9 299 kg)	44	1.12	22,940	148 036	8.2	56.54
"AB" 90,000 lbs. (40 824 kg)	44	1.12	22,940	148 036	11.3	77.91

Revolving upperstructure



Frame

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



Turntable bearing

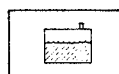
Outer race of bearing bolted to machined surface on under side of frame.



Engines

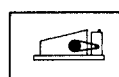
Full pressure lubrication, oil filter, oil cooler, air cleaner, fuel filter, hour meter and hand throttle. Optional hand throttle (lever type on swing control lever) and foot throttle available. Manual control shutdown for GM engines; electrical shutdown for Cummins engine.

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.

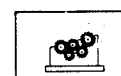


Power train

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 boom hoist 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.



GENERAL INFORMATION ONLY

FMC

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.

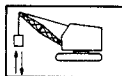
② Twin Disc Co-10066-TC1 three-stage converter with output shaft governor.

Principal operating functions



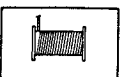
Control System

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

Load hoist clutches — 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).

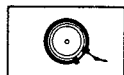
Two-speed rear drum — Optional. An added spur gear, mounted between left swing clutch and standard spur gear, powers idler pinion mounted on outer end of extended reduction shaft. Idler pinion powers large spur gear and clutch drum that is normally the rear drum lowering clutch. Through this gear arrangement, 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.



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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.



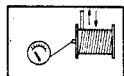
Drum brakes

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).

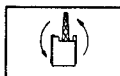
Optional third drum — Brake 27" (0.69 m) diameter, 4" (0.10 m) face width; effective lining area 268 square inches (1 729 cm²).

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.



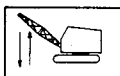
Swing clutches

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

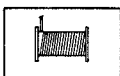
Swing brake — External contracting band; spring applied, hydraulically released by operator controlled lever. Brake drum involute splined to vertical swing shaft. Brake 18" (0.46 m) diameter, 5" (0.13 m) face width; effective lining area 212 square inches (1 368 cm²).

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

Maximum swing speed — 3.0 r.p.m.

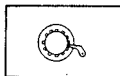
Boom hoist/
lowering system

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

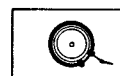
Dual laggings involute splined to shaft; 10½" (0.27 m) root diameter grooved.

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.



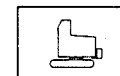
Electrical system

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.



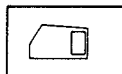
Operator's cab

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.

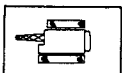


Elevated operator's cab

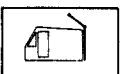
Optional. 18' (5.49 m) higher than standard operator's cab (25' — 7.62 m — eye level). Catwalk is included along operator's side. Sound reduction material is not available, and cab heater and defroster fan are not recommended for elevated cab.

**GENERAL INFORMATION ONLY****Machinery cab**

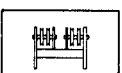
Equipped with warning horn, right rear side door hinged, sliding doors (two at rear, one at left rear side, and one at right front side) for machinery access, roof-top access ladder, and skid-resistant finish on roof.

**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.

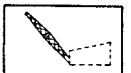
**Gantry bail**

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 5 1/2" (0.86 m) centers.

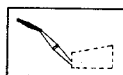
Boom extensions — Available in 10', 20' and 30' (3.05, 6.10 and 9.14 m) lengths with appropriate length pendants.

Boom connections — Pin connected.

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

Boompont 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.

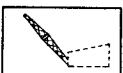
Jib extensions — Available in 10' and 15' (3.05 and 4.57 m) lengths; maximum jib length permitted — 40' (12.19 m).

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 5 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.

— **Boompont 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.

— **Boompont 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.

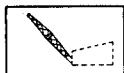
Jib tip section — 15' (4.57 m) long; single peak sheave 21" (0.53 m) root diameter mounted on anti-friction bearings.



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**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 5 $\frac{1}{2}$ " (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.

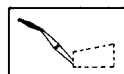
Boom extensions — Available in 10', 20', 30', 40' and 50' (3.05, 6.10, 9.14, 12.19, and 15.24 m) lengths with appropriate length pendants.

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.

Boompint 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**

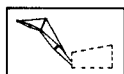
Two-piece basic jib 30' (9.14 m) long; 36" (0.91 m) wide, 30" (0.76 m) deep at connections. Alloy steel tubular chords 2 $\frac{1}{4}$ " (57 mm) outside diameter.

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).

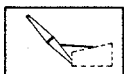
Jib connections — In-line pin connected.

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**

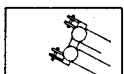
12' 7 $\frac{7}{8}$ " (6.85 m) high, mounted on jib base section. Two deflector sheaves, mounted on anti-friction bearings, mounted within mast to guide jib load hoist line. Jib frontstay line and jib backstay line pin at top of jib mast.

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 $\frac{3}{4}$ " (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.

Boompint 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 on 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.

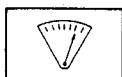
Jib mast stops — Telescoping type; pinned from jib mast to boom top section and from mast to jib base section.

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.

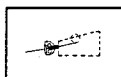


Auxiliary equipment



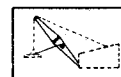
Boom angle indicator

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 ¾" (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 1½" (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	Boom lengths	
	290' (88.39 m)	
	Feet	meters
1	600	182.88
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).



GENERAL INFORMATION ONLY

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' ① (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	655	199.64		
30' ① (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 (6.10 m)	1	Not applicable									
	2										
30' ① (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				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) — 24½" (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				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		Root diameter	Root diameter
		Inches	mm	F.p.m.	m/min	Pounds	kilograms		Inches	mm	F.p.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		Root diameter	Root diameter
		Inches	mm	F.p.m.	m/min	Pounds	kilograms		Inches	mm	F.p.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. 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.



Fin Corporation Cable Crane and Excavator Division Cedar Rapids Iowa 52406

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