



amhoist

MODELS 9300 and 9320 CRAWLER CRANES GENERAL SPECIFICATIONS





MODELS 9300 AND 9320 CRAWLER CRANES

UPPER MACHINERY:

STANDARD ENGINE: Cummins Model NT-855-C310 Big Cam diesel engine, six cylinder, 5-1/2 in. (140 mm) bore, 6 in. (150 mm) stroke, 855 cu. in. (13.9 l) displacement, 24 volt electric starting, battery charging alternator.

With three stage torque converter - net rated 279 HP (310 gross HP) at 2100 RPM converter input.

ALTERNATE ENGINES:

Detroit Diesel (GM) 12V-71N Model 7123-7101 diesel engine, 12 cylinder, 4-1/4 in. (108 mm) bore 5 in. (127 mm) stroke, 852 cu. in. (13.6 l) displacement, 24 volt electric starting, battery charging alternator.

With three stage torque converter - net rated 297 HP (336 gross HP) at 2100 RPM converter input.

FUEL TANK: 255 gallon (851.8 l) capacity.

PRIMARY DRIVE: Six strand roller chain transmits power from engine to operating machinery. Roller chain is completely enclosed and running in oil for long trouble free service.

COUNTERWEIGHT: Basic counterweight is "KK", 60,000 lb. (27216 kg) with overlays as follows:

900 Crawler Model	Type Cwt.	Basic 60,000# (27216 kg)	L.H. Corner Overlay 21,700# (9843 kg)	Center Overlay 36,600# (16662 kg)	R.H. Corner Overlay 21,700# (9843 kg)	Total Weight
9300	"TT"	1	1	1	1	140,000# 63,504 kg
9320	"TT"	1	1	1	1	140,000# 63,504 kg

The counterweight is pin connected to the rear machinery deck and is quickly removed without assistance by lowering with the retractable A-frame. Counterweight lifting hardware is available for attaching slings to handle the counterweight.

RETRACTABLE A-FRAME is raised or lowered by means of the bail rigging with no special equipment required. An optional fixed A-frame is available for machines used for exclusive duty cycle service.

ROTATING MACHINERY BASE: Tapered deep girder construction extends straight through from boom foot to engine base and counterweight support. Boom foot, shaft pillow blocks, A-frame and counterweight connections fall directly over girder for utmost simplicity and strength. Accurate milling, boring and drilling, with modern computer controlled machines and precise jigs and heavy duty fixtures, insure accurate alignment of machinery under the most severe operating conditions and provide proper fit of replacement parts.

LOAD AND HOOK ROLLERS: Four front and two rear tapered load rollers transmit downward loads to upper roller path on carbody. Four front and four rear tapered hook rollers transmit uplift loads to lower roller path on carbody. Front load rollers and rear hook rollers are mounted on anti-friction bearings, rear load rollers and front hook rollers are mounted on bronze bushings. Rollers are adjusted for wear by means of an eccentric hook roller axle.

DRIVE SHAFT is mounted in pressure grease lubricated anti-friction bearings with the six strand roller chain sprocket splined to it. This shaft assembly has a single purpose of speed reduction and is not compromised by mounting clutches for other functions.

SWING ASSEMBLY: Power is transmitted from the drive shaft to the horizontal reversing shaft, through bevel gears to the vertical reversing shaft - and from the vertical reversing shaft through an idler shaft to the vertical swing shaft. The swing pinion on the vertical swing shaft mates with the bullgear and thus revolves the upperworks.

The horizontal reverse shaft is mounted in anti-friction bearings and its reversing bevel gears are mounted on tapered roller bearings in a rigid housing so that the shaft is not subjected to bending loads. The vertical reverse shaft with the bevel and spur gear is an integral part of the horizontal reversing shaft assembly and is piloted into the machinery base for proper alignment.

SWING BRAKE is spring set and air released to prevent the upper from revolving in the event of loss of air pressure. The swing brake has dual control. The control on the lever stand permits variable pressure from "release" to "set" and side motions of the swing lever also applies variable pressure to the swing brake. A positive swing lock is optional.

HYDROSTATIC SWING (Optional) provides smoother operation for heavy erection and long boom use. A variable displacement piston pump is directly driven off the front of the engine. This pump supplies hydraulic fluid to a constant displacement piston motor which revolves the upperworks through a three gear reduction. Swing speed is substantially independent of engine speed. Hydraulic swing is not recommended for machines which will be used for extensive duty cycle service.

AIR INDEPENDENT SWING: The air independent swing assembly is mounted above the main swing clutches. The independent swing clutches are connected to the swing gearing at all times. All gears are mounted in anti-friction bearings and running in oil. With this arrangement the larger main swing clutches are used for independent travel and may also be used for heavy duty swinging by operation of the swing-travel shifter. An external contracting band swing brake is provided on the independent swing clutch ring.

MAIN DRUM ASSEMBLY: Twin ductile iron drums, with stress relieved brake and clutch surfaces, are mounted on anti-friction bearings on the main drum shaft. The main drum shaft is also mounted in anti-friction bearing pillow blocks.

Lagging options are available to obtain various line pulls and speeds. Split steel lagging is bolted to drums for quick replacement.

Internal expanding clutches are activated by highly responsive variable air controls. Thermal cooling rings on brake and clutch drums assure maximum dissipation of heat. Brake shafts and pins are mounted in anti-friction bearings for responsive operation with power assist for maximum sensitivity and minimum foot pressure from the operator.

A spring set, air released brake mechanism on each drum, controllable from the operator's lever stand, actuates automatically in the event there is a loss of air during crane operation. These external contracting brakes are capable of suspending a rated load indefinitely without further effort from the operator. The spring set hoist brakes are furnished as standard equipment on both machines.

CONTROLLED LOAD LOWERING FOR ONE DRUM: The controlled load lowering shaft is mounted forward of the main drum shaft in anti-friction bearings. A split roller chain sprocket, which is bolted to



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the right hand hoist drum lagging is driven from a sprocket on the controlled load lowering shaft.

When the internal expanding clutch on the controlled load lowering shaft is engaged, the load is lowered through the gear train where it is resisted by the overrunning friction torque of the engine and torque converter. A single air valve controls both hoisting and lowering. The foot brake stops the load.

Controlled load lowering is completely independent of all other operations and is provided for either the right hand, left hand, or both hoist drums.

NOTE: A three stage torque converter must be used with controlled load lowering because of existing gear ratios.

CONTROLLED LOAD LOWERING FOR SECOND DRUM (Optional): A second chain sprocket is mounted on the controlled load lowering shaft and connected by a roller chain to a sprocket on the second drum lagging. An additional clutch is utilized for lowering on the second drum.

THIRD DRUM (Optional): The third drum shaft, which is mounted in anti-friction bearing pillow blocks, is located in front of the main hoist drums. With 15,000 lbs. (6804 kg) or 21,000 lbs. (9526 kg) single line pull, the third drum is adequate for many auxiliary services and operates independent of controlled load lowering. Special guide sheaves are required to lead a third line over the boom point with 77 in. (1956 mm) or 92 in. (2337 mm) boom.

BOOM HOIST: The boom hoist driving gear is powered by a pinion splined to the boom hoist clutch shaft. This shaft is mounted in front of the boom hoist drum in bronze bushings and its large anti-friction bearing mounted gear is powered through the gear train. The boom hoist clutch spider is splined to the clutch shaft while the clutch ring is keyed to the gear hub. The air controlled clutch has an internal expanding band.

The boom hoist brake is spring set, air released external contracting band mounted on the boom hoist clutch shaft.

A hand lever operated air valve with a neutral detent position controls both the raising and lowering of the boom. The boom hoist brake sets automatically when lever is in neutral position. The spring set, air released locking dog, located on the left side of the boom hoist drum, holds the boom during operation or when machine is idle.

CONTROLLED BOOM LOWERING: An overrunning sprag clutch shaft assembly is mounted in bronze bushings above the boom hoist drum. On one end of this shaft a splined pinion mates with the boom hoist driving gear and on the other end a large gear mates with the boom hoist clutch shaft gear. The sprag clutch is keyed to the shaft and mounted inside the large gear and keyed to the gear hub.

Boom lowering speed is proportional to engine speed because of engaged sprag clutch. This clutch engages positively and smoothly when lowering the boom.

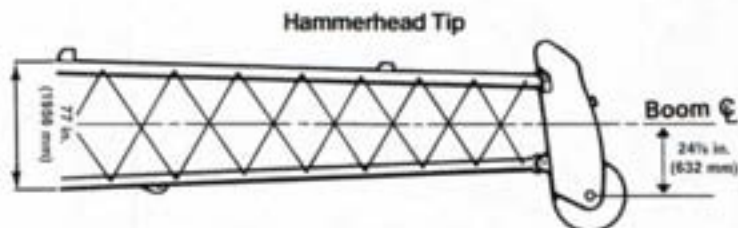
To permit lowering the load by reverse rotation of the gear train, a shifter is provided which can disengage the sliding pinion on the overrunning sprag clutch shaft. An interlock sets the boom hoist brake and dog whenever this pinion is not fully engaged.

BOOM HOIST SHUT OFF: Automatically stops the boom hoist mechanism when the boom reaches a pre-determined angle. The adjustable actuator arm, located near the base of the boom, simultaneously disengages the boom hoist clutch and sets the boom hoist brake. Standard on all machines sold for lift crane service.

CRANE BOOMS:

Lift Crane Model	Standard Boom	Optional Boom	Min. Length		Max. Length	
			Feet	Meters	Feet	Meters
9300	77H HAMMERHEAD	77H TAPERED TIP 92HT	70	21.3	260	79.2
			100	30.5	290	88.4
			70	21.3	280	85.3
9320	92HT		70	21.3	300	86.4

THE 77H TUBULAR CHORD BOOM is used on the Model 9300 and has a 77 in. (1956 mm) cross section with T-1 tubular chords and tubular lacing. Basic crane boom consists of 30 ft. (9.1 m) inner section and 40 ft. (12.2 m) tapered intermediate section (outer base) which can be fitted with either pin connected hammerhead or optional 30 ft. (9.1 m) two sheave tapered tip. The 77H hammerhead tip has six sheaves and is used for heavy lifts or limited reach. Hammerhead load sheaves are offset 24-7/8 in. (632 mm) to permit handling loads at close radius without boom interference (see illustration below).

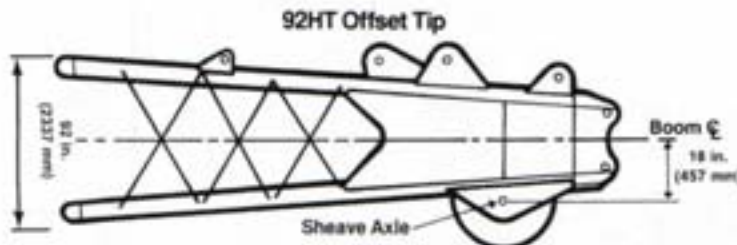


The tapered tip is for long reach. It has one sheave for single or two part line service and a second sheave for an auxiliary load line or for clamshell service. A two sheave hanger block permits reeving three to six parts of load line.

Boom suspension is multiple part boom hoist line to a floating outer bail and four part pin connected pendants to the boom point. Pin connected center boom sections with matching pendants are available in 10 ft. (3 m), 20 ft. (6.1 m) and 50 ft. (15.2 m) lengths.

Pin connected, single sheave tip extensions are available for either the hammerhead or tapered tip booms. These provide a single part auxiliary line capability. With the extension in place a jib cannot be installed.

THE 92HT TUBULAR CHORD BOOM is standard on the 9320 and optional on the 9300. The basic crane boom is 70 ft. (21.3 m) long and consists of a 30 ft. (9.1 m) inner section and a 40 ft. (12.2 m) outer section. There are six 36 in. (914 mm) diameter sheaves mounted on anti-friction bearings in the tip and the sheaves are offset 18 in. (457 mm) below the centerline of the boom. The offset permits handling loads at close radius without interference with the bottom of the boom (see illustration below).



The 92HT boom is suspended by four part pendants from the outer bail to the boom tip. Pin connected center sections with matching pendants are available in 10 ft. (3 m), 20 ft. (6.1 m) and 50 ft. (15.2 m) lengths.



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Boom inner and center sections are interchangeable for tower crane use. These same boom components, when combined with a heavier 50 ft. (15.2 m) center section, are used in the Sky Horse and Guy Derrick attachments. The same boom components, when combined with lighter transition and outer sections, are used for 92H High Lift boom. For greater flexibility with these available attachments, the heavier 50 ft. (15.2 m) center sections can be used as lift crane boom with slight reduction in stability limited ratings and self-erecting length because of the greater weight.

A pin connected, single sheave tip extension is available for the 92HT boom. The extension provides a single part auxiliary line capability. With the extension in place a jib cannot be installed.

HYDRAULIC OUTER BAIL POSITIONER (Optional): To facilitate installation of pendants the outer bail assembly is moved forward or back hydraulically providing slack in the pendant cables. This system is powered by an electrically driven hydraulic pump.

BOOM STOPS: Telescoping tubular boom stops restrain the boom from overtopping in the event of load line or hoisting tackle failure. Standard on all machines furnished for lift crane service.

CRANE JIBS:

NO. 16HL JIB for use with 77H hammerhead or tapered tip boom or 92HT boom is constructed with T-1 tubular steel chords and tubular lacing. Basic jib is 40 ft. (12.2m), two piece and may be extended to 100 ft. (30.4 m) with pin connected 10 ft. (3 m) and 20 ft. (6.1 m) center sections with matching pendants. Jib point sheave is 24 in. (610 mm) diameter grooved for 1 in. (25 mm) rope. A dead end is provided for two part line. Jib backstay is attached at ears provided on the inner boom section or at ears welded on the boom center sections. These ears are standard on 50 ft. (15.2 m) 92 in. (2337 mm) (S or H) sections and optional on the 10 ft. (3 m) and 20 ft. (6.1 m) 92 in. (2337 mm) sections and all 77 in. (1956 mm) boom center sections. Jib backstay length must equal or exceed the length of the jib. Allowable jib offset is 5 to 25 degrees. Cable type snubbers restrain the jib from overtopping.

NO. 30H JIB for 92HT boom is constructed with T-1 tubular steel chords and tubular lacing. Basic jib is 35 ft. (10.7 m), three piece, pin connected, consisting of 12-1/2 ft. (3.8 m) inner section, 10 ft. (3 m) center section and 12-1/2 ft. (3.8 m) outer. Single jib point sheave is 24 in. (610 mm) diameter and can be furnished grooved for either 1 in. (25 mm) or 1-1/8 in. (28 mm) single part line. Jib may be extended to 105 ft. (32 m) maximum length with the addition of 10 ft. (3 m) and 30 ft. (9.1 m) center sections with matching pendants. Maximum jib offset is 25 degrees. Jib backstay is attached to ears provided at the boom inner section or ears welded to the boom center sections. These ears are standard on 50 ft. (15.2 m) 92 in. (2337 mm) sections and optional on 10 ft. (3 m) and 20 ft. (6.1 m) boom center sections. Jib backstay length must equal or exceed the length of the jib. The 92HT boom tip must have double jib ears to accept the No. 30H jib. Cable type snubbers restrain the jib from overtopping.

LOAD TACKLE: Load blocks available for 900 Series cranes for lift crane service are McKissick Series 330/350 Deluxe blocks with 24 in. (610 mm) diameter sheaves mounted on roller bearings with roller swivel hook and flapper latch. Blocks 150 tons (136078 kg) capacity and larger are furnished with a swivel lock. The Model 9300 225-ton (204120 kg) block has a duplex hook with flapper latches and full capacity shackle. All blocks have provision for dead end.

Overhaul balls are from McKissick and have roller bearing swiveling, top wedge socket for appropriate rope size, and hook with flapper latch.

MACHINERY CAB: Fully enclosed 11 ft. (3.4 m) wide steel cab is equipped with full catwalks on both sides with hand rails and a ladder to the roof.

OPERATOR'S CAB: Isolated and insulated operator's cab is equipped with the following: all shatterproof glass windows mounted in rubber, hinged door in cab roof, door at rear of cab to provide direct access to machinery, sliding doors side and rear, removable windows, fully adjustable upholstered seat with back rest, cab hot water heater-defroster, air circulating fan and air horn.

Additional options include: air conditioning, overhead window with wiper and security cover, drum turning indicators and lighting equipment.

LOWER MACHINERY

CARBODY: Heavy duty, deep box construction is bored through for accurate alignment of crawler axles and horizontal travel shaft. Steel bullgear and roller path is a single unit which is welded to the top of the machined carbody. A double tapered roller path is machined precisely to the contour of the load and hook rollers. 9300 carbody is fabricated high alloy steel or cast alloy steel and the 9320 carbody is fabricated high alloy steel.

CENTER PIVOT TUBE is integral with the carbody. The rotating machinery base is mounted on the center pivot tube with pressure lubricated bronze pivot bushings which carry horizontal loads only - no uplift.

TRAVEL AND STEERING: The horizontal travel shaft consists of three sections for easy assembly and removal. The sliding jaw clutches and bevel gears are fully enclosed and running in oil. Single lever air control in operator's cab provides engaged or locked out position for each multiple jaw clutch. An interlock keeps one clutch engaged at all times which prevents machine from running away on a grade.

TRAVEL LOCK consists of a ratchet arrangement which is air controlled from the operator's cab and permits travel in one direction while preventing movement in the opposite direction. This lock automatically sets in the event of loss of air and may also be set to prevent travel in either direction.

CRAWLER SIDE FRAMES: High alloy cast steel tumbler yokes are welded to a rigid, fabricated structure to form the crawler side frames. Journals for crawler axles and drive sprockets are mounted on slide rails for drive chain and crawler shoe adjustments. With proper adjustment of chain and shoes the journal is clamped into position. The side frames easily remove as a complete assembly without removal of shoes or drive chain. Propel power from the carbody to the side frame is transmitted through the horizontal travel shaft and joins to the side frame by a jaw clutch. The jaw clutch separates at the side frame for quick side frame removal.

CRAWLER ROLLERS: Large hardened cast steel crawler rollers are mounted on heavy bronze bushings and spaced close together to prevent any possibility of tread shoes buckling up between rollers. Axles are drilled for pressure grease lubrication. 9300 has 4 pair of upper rollers and 13 lower rollers. The 9320 has 2 pair of rollers and a set of slide rails on top of the side frame and 17 lower rollers.

CRAWLER SHOES are double wall, box section, heat treated alloy steel castings for maximum strength and long wear. Self-cleaning design reduces shoe breakage. Crawler shoe pins are case hardened. On 9300 the standard shoe width is 44 in. (1118 mm) (optional width is 50 in. (1270 mm)) and there are 50 crawler shoes per side frame. On 9320 the standard shoe width is 50 in. (1270 mm) (optional width is 44 in. (1118 mm)) and 57 crawler shoes per side frame.



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CRAWLER DRIVE: Cast steel drive sprockets are splined to drive axles which are mounted in pressure grease lubricated bronze bushings in the side frames. Heavy cast steel idler tumblers, of self-cleaning design, are bronze bushing mounted with pressure grease lubrication. Self-cleaning cast steel sprocket is mounted on the outside of each crawler side frame for easy maintenance. It is unnecessary to break propel chains when removing side frames.

CRAWLER DRIVE ADJUSTMENT: Simple, easy to use hydraulic jack is provided to adjust drive chain and crawler tread. Spacers are used for positioning and provides balanced adjustment on each side frame.

CRAWLER WIDTH ADJUSTMENT: On Model 9300, the machine can be operated with side frames retracted at reduced ratings or at full ratings with extended side frames. In retracted position the side frame jaw clutch directly engages the jaw clutch at side of carbody. Removable cast steel jaw clutch torque tubes are furnished between the carbody and side frames.

On Model 9320 crawler side frames are bolt connected to the single position extra wide fabricated carbody.

ATTACHMENTS

SKY HORSE ATTACHMENT: Sky Horse lifting capacity averages two to five times greater than the lift crane capacity. Boom and jib lengths are also dramatically increased without sacrificing mobility with addition of the Sky Horse attachment. See separate specifications for complete details.

NO. 75H JIB for 92HT boom is rated 75 tons (68,040 kg) and has T-1 tubular steel chords and tubular lacing. Basic jib is 40 ft. (12.2 m) two piece, 20 ft. (6.1 m) inner and 20 ft. (6.1 m) outer, with four 20 in. (508 mm) diameter point sheaves grooved for 1 in. (25 mm) or 1-1/2 in. (37.5 mm) multiple part jib line. Length may be extended to 140 ft. (42.7 m) with 10 ft. (3 m), 20 ft. (6.1 m) and 30 ft. (9.1 m) pin connected center sections with matching pendants. Allowable jib offset is 5 to 25 degrees. Jib backstay is pin connected pendants attached to ears provided at the boom inner section. The 92H boom tip must have double jib ears to accept the 75H jib. Cushioned jib mast stops and telescoping jib stops restrain the jib from overtopping. A single sheave tip extension is available for pin connecting to this jib. This jib is best suited to work on machines where stability is increased by use of the Sky Horse attachments.

GUY DERRICK ATTACHMENT: The Guy Derrick lifting capacity is as much as thirty times the lift crane capacity at extended radii and averages ten times greater than the lift crane capacity. Increased boom and jib lengths and interchangeability of components are additional benefits of the Guy Derrick attachment. See separate specifications for complete details.

TOWER CRANE ATTACHMENT: Basic 92 in. (2337 mm) tower is 130 ft. (39.6 m) in height made up of 30 ft. (9.1 m) inner section, one 10 ft. (3 m), two 20 ft. (6.1 m) and one 50 ft. (15.2 m) center sections and offset section with tower head. Center sections may be added to extend tower height to 250 ft. (76.2 m) maximum. Except for tower offset section and tower head all tower sections are standard 92H and 92HT crane boom. Basic 100 ft. (38.5 m) 59H luffing boom is made up of 20 ft. (6.1 m) inner section, 40 ft. (12.2 m) center section, 20 ft. (6.1 m) outer base and 20 ft. (6.1 m) tapered tip. Boom center sections are available to extend total boom length to 170 ft. (51.8 m). 60 ft. (18.3 m) No. 9HL jib can be added to this for maximum reach. The attachment includes special drum lagging, drum dog, air piping modifications, hinged mast assembly, tower stops, boom stops, boom angle indicator, bails, ropes, pendants and necessary guide sheaves. See separate specifications for complete details.

NO. 9HL JIB for use with 900 Tower Crane. Jib is constructed with T-1 tubular steel chords and tubular lacing. Basic jib is 40 ft. (12.2 m), two piece. Jib point sheave is 24 in. (610 mm) diameter for use with 1 in. (25 mm) diameter single part whipline. Jib backstay is attached to ears on tower boom inner section, or at optional ears welded to center boom section. Jib backstay length must equal or exceed the length of the jib. Pin connected 10 ft. (3 m) and 20 ft. (6.1 m) center sections are available to extend total jib length to 60 ft. (18.3 m) maximum on tower crane. In this application jib is designed for no offset. Cable type jib snubber and rope spreader restrain the jib from overtopping.

RING HORSE ATTACHMENT: Ring Horse is designed to maximize lifting capacity while reducing the high ground pressures which are typical of competitive ring type attachments. Maximum adaptability to cranes currently in service is achieved through the use of four existing boom or mast sections. Capacities are increased as much as twenty times the lift crane capacity at extended radii and average ten times greater than the lift crane. Maximum boom length is 300 ft. (115.8 m) with boom and jib combinations possible to 500 ft. (152.4 m). The simple and unique self-leveling system allows on-site travel with up to 320 ft. (97.6 m) of boom. See separate specifications for complete detail.

GENERAL:

CONTROLS: Graduated air controls, pioneered by AMERICAN, put "Feel" at every operator's finger tips, insure higher production and more accurate control. Air line alcohol dispenser absorbs excess moisture due to condensation in air system. AMERICAN has designed its control system to conform with ANSI Code B30.5 requirements (which uses SAE J983 as their reference), of standard control arrangement and control functions. This allows operators to easily switch from one machine to another.

MATERIALS: Gears and pinions are heat-treated alloy or high carbon steel. Smooth cut teeth on all gears including the bullgear.

Involute splines are used throughout machine for maximum strength through minimum diameter where needed.

Anti-friction bearings are used on all main or high speed shafts and wherever practical to provide friction-free, smooth operation with minimum maintenance.

LUBRICATION: All anti-friction bearings and bronze bushings requiring short interval lubrication are provided with pressure grease fittings. Swing deck gears are provided with oil bath lubrication. Gear train arranged for easy grease lubrication.

PERFORMANCE:

Travel Speed 1.1 MPH maximum (1.77 KmPH)
Friction Swing 2.28 RPM maximum
Hydrostatic Swing 1.9 RPM maximum

HOISTING PERFORMANCE:

Function	Single Line Pull at Single Line Speed	
	SLP (Pounds) at SLS (Feet Per Min.)	SLP (Kilograms) at SLS (Meters Per Min.)
Crane	40,000 lbs. at 165 FPM	18144 kgs. at 50.1 MPM
Third Drum	15,000 lbs. at 225 FPM	6804 kgs. at 68.5 MPM
Third Drum	21,000 lbs. at 220 FPM	9525 kgs. at 67.0 MPM
G.D./S.H. Third	40,000 lbs. at 90 FPM	18144 kgs. at 27.4 MPM

Performance figures are based on machine equipped with standard engine and torque converter.

DESIGNED AND RATED TO COMPLY WITH (ANSI) CODE B30.5.



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DIMENSION DETAILS

Swing Assembly - Bullgear 80 tooth, 80" (2032 mm) P.D., 6-1/4" (159 mm) wide face. Tapered roller path 95-1/4" (2419 mm) O.D. Conical load rollers 13-1/2" (343 mm) dia., 5-1/2" (140 mm) wide face, 4-1/2" (114 mm) dia. axle. Conical hook rollers on the 9300 are 9-1/4" (235 mm) dia., 4" (102 mm) wide face front hook rollers. Conical hook rollers on the 9320 are 10-1/4" (2546 mm) dia., 4" (102 mm) wide face.

Swing Clutches - 36" (914 mm) dia., 8" (203 mm) wide, tandem, interchangeable. Hydrostatic swing optional.

Swing Brakes - Dual bands for equal braking, each 36" (914 mm) dia., 3" (76 mm) wide.

Air Independent Swing - Clutches are 23" (584 mm) dia., 4" (102 mm) wide. Dual band brakes are each 26" (660 mm) dia., 2" (51 mm) wide.

Hoist Clutches - 44" (1118 mm) dia., 6" (152 mm) wide. Cooling flange for heat dissipation.

Hoist Brakes - 57" (1448 mm) dia., 7" (178 mm) wide. Cooling flange for heat dissipation.

Boom Hoist Clutch - 23" (584 mm) dia., 4" (102 mm) wide.

Boom Hoist Brake - 24" (610 mm) dia., 4" (102 mm) wide. Controlled boom lowering through sprag type overrunning clutch.

Controlled Load Lowering Clutch - 23" (584 mm) dia., 4" (102 mm) wide.

Third Drum - Clutch is 23" (584 mm) dia., 4" (102 mm) wide. Brake is 25" (635 mm) dia., 4" (102 mm) wide.

S.H.-G.D. Third Drum - Clutch is 23" (584 mm) dia., 4" (102 mm) wide. Brake is 26" (660 mm) dia., 5" (127 mm) wide.

77H Crane Boom - 77" (1956 mm) cross section, 4-1/2" (114 mm) dia. T-1 steel tubular chords, heavy duty outer base section, tubular lattice, 30" (762 mm) O.D. sheaves.

92HT Crane Boom - 92" (2337 mm) cross section, 4-1/2" (114 mm) dia., T-1 steel tubular chords, tubular lattice, 36" (914 mm) O.D. sheaves. Components are interchangeable in Tower Crane, Sky Horse and Guy Derrick.

No. 9HL Jib (for use on Tower boom) - 26" (660 mm) cross section, 1 1/4" (45 mm) dia., T-1 steel tubular chords, tubular lattice, 24" (610 mm) O.D. Sheave grooved for 1 1/4" (28 mm) wire rope, for single part line.

No. 16HL Jib - 32" (813 mm) cross section, 1-3/4" (45 mm) dia., T-1 steel tubular chords, tubular lattice, 24" (610 mm) O.D. sheave grooved for 1" (25 mm) wire rope, becket assembly for 2-part load line.

No. 30H Jib - 32" (813 mm) cross section, 3" (76 mm) dia., T-1 steel tubular chords, tubular lattice, 24" (610 mm) O.D. sheave grooved for 1" (25 mm) or 1 1/4" (28 mm) wire rope, becket assembly for 2-part load line.

No. 75H Jib - 47" (1194 mm) cross section, 4" (102 mm) dia., T-1 steel tubular chords, tubular lattice, 20" (508 mm) O.D. sheaves grooved for 1" (25 mm) or 1 1/4" (28 mm) wire rope, becket assembly for multiple part load line.

Crawler Lower - 7-1/2" (190 mm) dia. horizontal propel shaft. Drive and idler tumblers are 39-1/2" (1003 mm) dia., 10-sided, self-cleaning. Top side frame rollers are 8-1/2" (216 mm) dia. Lower track rollers are 14-1/2" (368 mm) dia., double flanged with 4-3/4" (121 mm) dia. axles. Track shoe pitch is 13-1/2" (343 mm). Tread shoe pins are 1-3/4" (44 mm). Drive chain is 6" (152 mm) pitch, heavy duty. Drive sprocket is 8 tooth; driven sprocket is 15 tooth.

Ropes - Boom hoist line 7/8" (22 mm)

Pendants - 77H and 92 HT boom, four part 1-3/8" (35 mm) dia.

Crane hoist, drag hoist and clamshell hoist line are 1-1/8" (28 mm) dia. Drag inhaul is 1-3/8" (35 mm) dia.

Note: In accordance with our established policy of constant product improvement and varying material conditions, specifications are subject to change without notice and without incurring responsibility for machines previously sold.

5JR871

FORM NO. 900-CGS-9

PRINTED IN U.S.A.

SOLD & SERVICED BY:



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AMERICAN HOIST & DERRICK COMPANY

AN FINLEY INDUSTRIES COMPANY



The ratings in this chart are for planning purposes only. Only those ratings specifically assigned to a crane and mounted in the Operator's Cab or in the Operator's Manual should be used for actual operation.

900 SERIES

Model 9320

CRAWLER CRANE

LIFT CRANE RATINGS IN POUNDS

With 92HT Tubular Chord Boom and "T-T" Counterweight (140,000 lbs.)

Boom Length	Radius In Feet	Boom Angle Degrees	Lift Rating In Pounds	Feet From Boom Point To Ground
70 feet	17	81.4	500,000	76
	20	78.9	425,480	75
	25	74.7	324,680	74
	30	70.4	237,130	72
	35	65.9	185,910	70
	40	61.3	152,340	67
	50	51.3	110,890	61
	60	39.5	86,230	50
80 feet	70	23.2	69,960	33
	18	81.8	475,930	86
	20	80.3	424,920	85
	25	76.6	324,160	84
	30	72.9	237,060	83
	35	69.1	185,760	81
	40	65.2	152,150	79
	50	56.9	110,660	73
90 feet	60	47.7	85,970	65
	70	36.8	69,720	54
	80	21.6	58,050	35
	20	81.4	424,090	96
	25	78.2	323,320	95
	30	74.9	236,770	93
	35	71.5	185,430	92
	40	68.1	151,810	90
100 feet	50	61.0	110,300	85
	60	53.3	85,580	78
	70	44.8	69,350	69
	80	34.6	57,700	57
	90	20.3	48,970	37
	21	81.7	398,300	106
	25	79.4	322,610	105
	30	76.4	236,550	104
110 feet	35	73.4	185,150	102
	40	70.4	151,500	101
	50	64.2	109,950	96
	60	57.5	85,190	90
	70	50.4	68,970	83
	80	42.3	57,310	73
	90	32.7	48,580	60
	100	19.2	41,800	38
110 feet	22	81.9	375,480	115
	25	80.3	321,860	114

Boom Length	Radius In Feet	Boom Angle Degrees	Lift Rating In Pounds	Feet From Boom Point To Ground
110 feet cont.	30	77.7	236,290	114
	35	75.0	184,830	113
	40	72.3	151,150	111
	50	66.7	109,560	107
	60	60.8	84,770	102
	70	54.6	68,560	96
	80	47.9	56,880	87
	90	40.2	48,150	77
	100	31.1	41,370	62
	110	18.3	36,030	40
120 feet	24	81.6	337,760	125
	25	81.1	321,660	125
	30	78.7	236,060	124
	35	76.3	184,670	123
	40	73.8	151,050	122
	50	68.7	109,540	118
	60	63.5	84,780	114
	70	58.0	68,630	108
	80	52.1	56,970	101
	90	45.7	48,250	92
	100	38.4	41,500	80
	110	29.7	36,230	65
130 feet	120	17.4	31,770	41
	25	81.8	320,990	135
	30	79.6	235,880	134
	35	77.4	184,420	133
	40	75.1	150,750	132
	50	70.4	109,190	129
	60	65.7	84,390	125
	70	60.7	68,230	119
	80	55.5	56,560	113
	90	49.9	47,840	105
	100	43.8	41,060	96
	110	36.8	35,830	84
140 feet	120	28.5	31,390	68
	130	16.7	27,670	43
	27	81.6	281,750	145
	30	80.4	235,510	145
	35	78.3	184,010	144
	40	76.2	150,330	142
	50	71.9	108,740	139
140 feet	60	67.5	83,900	136
	70	63.0	67,760	131

(Continued)

**LIFT CRANE RATINGS IN POUNDS (cont.)**

With 92HT Tubular Chord Boom and "T-T" Counterweight (140,000 lbs.)

Boom Length	Radius In Feet	Boom Angle Degrees	Lift Rating In Pounds	Feet From Boom Point To Ground
140 feet cont.	80	58.3	56,080	125
	90	53.3	47,350	118
	100	47.9	40,570	110
	110	42.1	35,380	99
	120	35.4	30,940	87
	130	27.4	27,220	70
	140	16.1	24,080	44
150 feet	28	81.8	264,200	155
	30	81.0	235,260	155
	35	79.1	183,700	154
	40	77.1	149,980	153
	50	73.1	108,340	150
	60	69.1	83,470	146
	70	64.9	67,330	142
	80	60.6	55,620	137
	90	56.1	46,880	130
	100	51.3	40,360	123
	110	46.2	34,920	114
	120	40.6	30,480	103
	130	34.2	26,770	90
	140	26.5	23,630	72
	150	15.5	20,930	45
160 feet	29	81.9	248,500	165
	30	81.6	235,000	165
	35	79.8	183,370	164
	40	77.9	149,610	163
	50	74.2	107,930	160
	60	70.5	83,020	157
	70	66.6	66,880	153
	80	62.6	55,150	148
	90	58.5	46,400	142
	100	54.1	39,890	136
	110	49.6	34,450	128
	120	44.6	30,000	118
	130	39.2	26,290	107
	140	33.0	23,150	93
	150	25.6	20,460	75
	160	15.0	18,120	47
170 feet	31	81.7	222,010	175
	35	80.4	182,920	174
	40	78.6	149,240	173
	50	75.2	107,630	171
	60	71.6	82,750	168
	70	68.1	66,650	164
	80	64.4	54,950	159
	90	60.5	46,210	154
	100	56.6	39,750	148
	110	52.4	34,320	141
	120	48.0	29,890	132
	130	43.2	26,190	122
	140	38.0	23,060	110
	150	32.0	20,380	96
	160	24.8	18,060	77
	170	14.5	16,030	48
180 feet	32	81.9	210,500	185
	35	80.9	182,660	184

Boom Length	Radius In Feet	Boom Angle Degrees	Lift Rating In Pounds	Feet From Boom Point To Ground
180 feet cont.	40	79.3	148,930	183
	50	76.0	107,270	181
	60	72.7	82,340	178
	70	69.3	66,240	175
	80	65.9	54,520	170
	90	62.3	45,770	166
	100	58.6	39,320	160
	110	54.8	33,880	153
	120	50.8	29,440	145
	130	46.5	25,740	136
	140	41.9	22,610	126
190 feet	150	36.9	19,930	114
	160	31.1	17,610	98
	170	24.1	15,570	79
	180	14.1	13,770	49
	33	82.0	200,260	195
	35	81.4	182,250	194
	40	79.9	148,510	194
	50	76.8	106,810	191
	60	73.6	81,850	189
	70	70.5	65,750	185
	80	67.2	54,020	181
	90	63.9	45,250	177
	100	60.5	38,840	171
	110	56.9	33,390	165
	120	53.2	28,950	158
	130	49.3	25,250	150
	140	45.2	22,120	141
	150	40.7	19,440	130
	160	35.8	17,110	117
	170	30.2	15,070	101
	180	23.4	13,280	81
	190	13.7	11,690	50
200 feet	35	81.8	181,950	205
	40	80.4	148,160	204
	50	77.4	106,420	202
	60	74.5	81,420	199
	70	71.5	65,320	196
	80	68.4	53,560	192
	90	65.3	44,780	188
	100	62.1	38,370	183
	110	58.8	32,920	177
	120	55.4	28,470	170
	130	51.8	24,770	163
	140	48.0	21,630	154
	150	44.0	18,950	145
	160	39.7	16,620	133
	170	34.9	14,590	120
	180	29.4	12,790	104
	190	22.8	11,190	83
	200	13.4	9,770	52
210 feet	36	81.9	173,680	215
	40	80.8	147,820	214
	50	78.1	106,020	212
	60	75.2	80,970	210
	70	72.4	64,870	207
	80	69.5	53,090	203

**LIFT CRANE RATINGS IN POUNDS (cont.)**

With 92HT Tubular Chord Boom and "T-T" Counterweight (140,000 lbs.)

Boom Length	Radius in Feet	Boom Angle Degrees	Lift Rating in Pounds	Feet From Boom Point To Ground
210 feet cont.	90	66.6	44,290	199
	100	63.5	37,900	194
	110	60.4	32,450	189
	120	57.2	27,990	183
	130	53.9	24,280	176
	140	50.4	21,140	168
	150	46.8	18,450	159
	160	42.9	16,120	149
	170	38.6	14,080	137
	180	34.0	12,280	123
	190	28.7	10,690	106
	200	22.3	9,260	85
	210	13.0	7,980	53
220 feet	38	81.8	152,560	224
	40	81.3	147,300	224
	50	78.6	105,590	222
	60	75.9	80,580	220
	70	73.2	64,530	217
	80	70.5	52,760	214
	90	67.7	43,980	210
	100	64.8	37,630	205
	110	61.9	32,180	200
	120	58.9	27,730	194
	130	55.8	24,030	188
	140	52.6	20,900	181
	150	49.2	18,220	172
	160	45.6	15,890	163
	170	41.8	13,860	152
	180	37.7	12,070	140
	190	33.2	10,480	126
	200	28.0	9,060	109
	210	21.7	7,790	87
	220	12.7	6,640	54
230 feet	39	81.9	138,380	234
	40	81.6	138,380	234
	50	79.1	105,230	232
	60	76.6	80,180	230
	70	74.0	64,120	227
	80	71.4	52,330	224
	90	68.7	43,530	221
	100	66.0	37,190	216
	110	63.2	31,730	211
	120	60.4	27,280	206
	130	57.5	23,570	200
	140	54.4	20,440	193
	150	51.3	17,740	185
	160	48.0	15,420	177
	170	44.6	13,390	167
	180	40.9	11,590	156
	190	36.9	10,000	144
	200	32.4	8,580	129
	210	27.4	7,300	111
	220	21.2	6,140	89
	230	12.4	5,100	55
240 feet	40	82.0	132,330	244
	50	79.6	104,780	243
	60	77.1	80,240	240

Boom Length	Radius in Feet	Boom Angle Degrees	Lift Rating in Pounds	Feet From Boom Point To Ground
240 feet cont.	70	74.7	63,630	238
	80	72.2	51,840	235
	90	69.6	43,030	231
	100	67.1	36,710	227
	110	64.4	31,250	223
	120	61.7	26,780	218
	130	59.0	23,060	212
	140	56.1	19,930	205
	150	53.2	17,240	198
	160	50.1	14,910	190
	170	46.9	12,870	181
	180	43.6	11,080	171
	190	39.9	9,480	160
	200	36.0	8,060	147
	210	31.7	6,780	132
	220	26.8	5,630	114
	230	20.8	4,590	91
250 feet	42	81.9	120,120	254
	50	80.0	104,400	253
	60	77.6	79,830	251
	70	75.3	63,200	248
	80	72.9	51,380	245
	90	70.5	42,560	242
	100	68.0	36,250	238
	110	65.5	30,780	234
	120	63.0	26,300	229
	130	60.4	22,590	223
	140	57.7	19,440	217
	150	54.9	16,750	211
	160	52.1	14,410	203
	170	49.1	12,380	195
	180	45.9	10,580	185
	190	42.6	8,990	175
	200	39.1	7,560	163
	210	35.3	6,280	150
	220	31.1	5,110	134
	230	26.2	4,070	116
260 feet	43	81.9	109,260	264
	50	80.4	104,010	263
	60	78.1	79,420	261
	70	75.9	62,760	259
	80	73.6	50,920	256
	90	71.3	42,080	253
	100	68.9	35,790	249
	110	66.5	30,310	245
	120	64.1	25,830	240
	130	61.6	22,100	235
	140	59.1	18,950	229
	150	56.4	16,250	223
	160	53.8	13,910	216
	170	51.0	11,870	208
	180	48.1	10,070	199
	190	45.0	8,470	190
	200	41.8	7,040	179
	210	38.3	5,760	167
	220	34.6	4,600	153

(Continued)

**LIFT CRANE RATINGS IN POUNDS (cont.)**

With 92HT Tubular Chord Boom and "T-T" Counterweight (140,000 lbs.)

Boom Length	Radius In Feet	Boom Angle Degrees	Lift Rating In Pounds	Feet From Boom Point To Ground
270 feet	45	81.8	95,570	274
	50	80.7	95,200	273
	60	78.6	78,970	271
	70	76.4	62,340	269
	80	74.2	50,520	266
	90	72.0	41,690	263
	100	69.7	35,430	260
	110	67.4	29,960	256
	120	65.1	25,490	251
	130	62.8	21,770	246
	140	60.3	18,630	241
	150	57.9	15,940	235
	160	55.3	13,610	228
	170	52.7	11,570	221
	180	49.9	9,770	212
	190	47.1	8,180	204
	200	44.1	6,760	194
	210	40.9	5,470	183
	220	37.6	4,320	170

Boom Length	Radius In Feet	Boom Angle Degrees	Lift Rating In Pounds	Feet From Boom Point To Ground
280 feet	46	81.9	87,590	284
	50	81.1	87,250	283
	60	79.0	78,600	281
	70	76.9	61,940	279
	80	74.8	50,100	277
	90	72.6	41,250	274
	100	70.5	35,000	270
	110	68.3	29,520	266
	120	66.1	25,050	262
	130	63.8	21,320	257
	140	61.5	18,170	252
	150	59.1	15,470	246
	160	56.7	13,140	240
	170	54.2	11,090	233
	180	51.6	9,290	225
	190	49.0	7,700	217
	200	46.2	6,270	208
	210	43.3	4,990	198

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LIFT CRANE RATINGS IN KILOGRAMS

With 92HT Tubular Chord Boom and "T-T" Counterweight (63504 kgs.)

Boom Length	Radius In Meters	Boom Angle Degrees	Lift Rating In Kilograms	Meters From Boom Point To Ground
21.3 meters	5.2	81.4	226,800	23
	6.0	79.2	196,710	23
	7.0	76.4	163,050	23
	8.0	73.6	134,910	22
	9.0	70.8	110,410	22
	10.0	67.9	93,170	22
	11.0	64.9	80,480	21
	12.0	61.9	70,730	21
	13.0	58.8	62,950	20
	14.0	55.5	56,620	19
	15.0	52.1	51,420	19
	16.0	48.6	47,010	18
	17.0	44.8	43,230	17
	18.0	40.8	39,970	16
	19.0	36.3	37,130	14
	20.0	31.4	34,660	13
	21.0	25.5	32,420	11
24.4 meters	5.5	81.8	215,880	26
	6.0	80.5	196,450	26
	7.0	78.1	162,790	26
	8.0	75.7	134,900	26
	9.0	73.3	110,380	25
	10.0	70.8	93,110	25
	11.0	68.3	80,410	25
	12.0	65.7	70,650	24
	13.0	63.1	62,850	24
	14.0	60.4	56,520	23
	15.0	57.6	51,320	22
	16.0	54.7	46,900	22
	17.0	51.7	43,120	21

Boom Length	Radius In Meters	Boom Angle Degrees	Lift Rating In Kilograms	Meters From Boom Point To Ground
24.4 meters cont.	18.0	48.6	39,860	20
	19.0	45.4	37,010	19
	20.0	41.9	34,550	18
	21.0	38.1	32,320	17
	22.0	34.1	30,330	15
	24.0	24.0	26,920	12
27.4 meters	6.1	81.4	192,370	29
	7.0	79.5	162,390	29
	8.0	77.3	134,780	29
	9.0	75.2	110,250	29
	10.0	73.0	92,950	28
	11.0	70.8	80,250	28
	12.0	68.6	70,500	27
	13.0	66.3	62,680	27
	14.0	63.9	56,340	27
	15.0	61.6	51,170	26
	16.0	59.2	46,730	25
	17.0	56.7	42,950	25
	18.0	54.1	39,680	24
	19.0	51.4	36,890	23
	20.0	48.7	34,380	22
	21.0	45.8	32,150	21
	22.0	42.7	30,150	20
	24.0	36.0	26,750	18
	26.0	27.9	23,940	15
30.5 meters	6.4	81.7	180,660	32
	7.0	80.6	162,070	32
	8.0	78.6	134,700	32
	9.0	76.7	110,160	32
	10.0	74.8	92,830	31

(Continued)

**LIFT CRANE RATINGS IN KILOGRAMS (cont.)****With 92HT Tubular Chord Boom and "T-T" Counterweight (63504 kgs.)**

Boom Length	Radius in Meters	Boom Angle Degrees	Lift Rating in Kilograms	Meters From Boom Point To Ground
30.5 meters cont.	11.0	72.8	80,120	31
	12.0	70.8	70,360	31
	13.0	68.8	62,540	30
	14.0	66.7	56,180	30
	15.0	64.7	51,000	29
	16.0	62.6	46,560	29
	17.0	60.4	42,780	28
	18.0	58.2	39,510	28
	19.0	55.9	36,730	27
	20.0	53.6	34,210	26
	21.0	51.2	31,980	26
	22.0	48.7	29,980	25
	24.0	43.4	26,580	23
	26.0	37.5	23,770	20
	28.0	30.6	21,410	17
	30.0	21.9	19,400	13
33.5 meters	6.7	81.9	170,310	35
	7.0	81.4	161,720	35
	8.0	79.7	134,620	35
	9.0	77.9	110,040	35
	10.0	76.2	92,690	35
	11.0	74.4	79,960	34
	12.0	72.6	70,200	34
	13.0	70.8	62,370	34
	14.0	69.0	56,010	33
	15.0	67.1	50,830	33
	16.0	65.2	46,370	32
	17.0	63.3	42,590	32
	18.0	61.4	39,310	31
	19.0	59.4	36,550	31
	20.0	57.4	34,030	30
	21.0	55.3	31,790	29
	22.0	53.2	29,800	29
	24.0	48.7	26,390	27
	26.0	43.9	23,570	25
	28.0	38.7	21,210	23
	30.0	32.7	19,200	20
	32.0	25.5	17,520	16
36.6 meters	7.3	81.6	153,200	38
	8.0	80.6	134,470	38
	9.0	78.9	109,940	38
	10.0	77.4	92,600	38
	11.0	75.7	79,900	37
	12.0	74.1	70,150	37
	13.0	72.5	62,330	37
	14.0	70.8	55,970	37
	15.0	69.1	50,820	36
	16.0	67.4	46,380	36
	17.0	65.7	42,590	35
	18.0	64.0	39,310	35
	19.0	62.2	36,570	34
	20.0	60.4	34,050	34
	21.0	58.6	31,830	33
	22.0	56.7	29,830	32
	24.0	52.8	26,420	31
	26.0	48.8	23,610	29
	28.0	44.4	21,260	27

Boom Length	Radius in Meters	Boom Angle Degrees	Lift Rating in Kilograms	Meters From Boom Point To Ground
36.6 meters cont.	30.0	39.6	19,260	25
	32.0	34.4	17,610	22
	34.0	28.2	16,100	19
	36.0	20.3	14,770	14
39.6 meters	7.6	81.8	145,600	41
	8.0	81.3	134,410	41
	9.0	79.8	109,860	41
	10.0	78.3	92,490	41
	11.0	76.9	79,770	41
	12.0	75.4	70,030	40
	13.0	73.9	62,180	40
	14.0	72.3	55,810	40
	15.0	70.8	50,670	39
	16.0	69.3	46,220	39
	17.0	67.7	42,420	39
	18.0	66.1	39,140	38
	19.0	64.5	36,400	38
	20.0	62.9	33,880	37
	21.0	61.3	31,650	37
	22.0	59.6	29,660	36
	24.0	56.1	26,230	35
	26.0	52.6	23,420	33
	28.0	48.8	21,070	32
	30.0	44.8	19,060	30
	32.0	40.4	17,420	27
	34.0	35.7	15,920	25
	36.0	30.3	14,590	22
	38.0	23.7	13,410	18
42.7 meters	8.2	81.6	127,800	44
	9.0	80.6	109,700	44
	10.0	79.2	92,300	44
	11.0	77.8	79,590	44
	12.0	76.4	69,830	43
	13.0	75.0	61,990	43
	14.0	73.6	55,610	43
	15.0	72.2	50,460	43
	16.0	70.8	46,010	42
	17.0	69.4	42,210	42
	18.0	67.9	38,920	41
	19.0	66.5	36,190	41
	20.0	65.0	33,670	41
	21.0	63.5	31,430	40
	22.0	62.0	29,430	40
	24.0	58.9	26,020	38
	26.0	55.6	23,210	37
	28.0	52.3	20,850	36
	30.0	48.8	18,840	34
	32.0	45.1	17,210	32
	34.0	41.1	15,710	30
	36.0	36.8	14,380	27
	38.0	31.9	13,210	24
	40.0	26.3	12,160	21
	42.0	19.2	11,220	16
45.7 meters	8.5	81.8	119,840	47
	9.0	81.2	109,590	47
	10.0	79.9	92,170	47
	11.0	78.6	79,430	47

(Continued)
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**LIFT CRANE RATINGS IN KILOGRAMS (cont.)****With 92HT Tubular Chord Boom and "T-T" Counterweight (63504 kgs.)**

Boom Length	Radius In Meters	Boom Angle Degrees	Lift Rating In Kilograms	Meters From Boom Point To Ground
45.7 meters cont.	12.0	77.4	69,680	47
	13.0	76.1	61,810	46
	14.0	74.8	55,430	46
	15.0	73.5	50,280	46
	16.0	72.1	45,820	45
	17.0	70.8	42,020	45
	18.0	69.5	38,730	45
	19.0	68.1	36,000	44
	20.0	66.8	33,480	44
	21.0	65.4	31,230	43
	22.0	64.0	29,240	43
	24.0	61.2	25,810	42
	26.0	58.2	22,990	41
	28.0	55.2	20,630	39
	30.0	52.1	18,620	38
	32.0	48.8	17,010	36
	34.0	45.4	15,510	34
	36.0	41.7	14,170	32
	38.0	37.7	13,000	30
	40.0	33.3	11,950	27
	42.0	28.3	11,010	23
	44.0	22.4	10,160	19
48.8 meters	8.8	81.9	112,710	50
	9.0	81.7	109,480	50
	10.0	80.6	92,020	50
	11.0	79.4	79,280	50
	12.0	78.2	69,520	50
	13.0	76.9	61,640	50
	14.0	75.7	55,240	49
	15.0	74.5	50,100	49
	16.0	73.3	45,630	49
	17.0	72.1	41,810	48
	18.0	70.8	38,530	48
	19.0	69.6	35,800	48
	20.0	68.3	33,280	47
	21.0	67.0	31,030	47
	22.0	65.7	29,020	46
	24.0	63.1	25,600	45
	26.0	60.4	22,780	44
	28.0	57.7	20,410	43
	30.0	54.8	18,400	42
	32.0	51.9	16,800	40
	34.0	48.8	15,290	39
	36.0	45.6	13,960	37
	38.0	42.2	12,790	35
	40.0	38.5	11,730	32
	42.0	34.5	10,790	29
	44.0	30.0	9,940	26
	46.0	24.8	9,180	22
	48.0	18.3	8,480	17
51.8 meters	9.4	81.7	100,710	53
	10.0	81.1	91,800	53
	11.0	80.0	79,090	53
	12.0	78.9	69,340	53
	13.0	77.7	61,470	53
	14.0	76.6	55,080	52
	15.0	75.4	49,950	52

Boom Length	Radius In Meters	Boom Angle Degrees	Lift Rating In Kilograms	Meters From Boom Point To Ground
51.8 meters cont.	16.0	74.3	45,500	52
	17.0	73.1	41,690	52
	18.0	72.0	38,400	51
	19.0	70.8	35,690	51
	20.0	69.6	33,170	51
	21.0	68.4	30,930	50
	22.0	67.3	28,930	50
	24.0	64.8	25,510	49
	26.0	62.3	22,690	48
	28.0	59.8	20,330	47
	30.0	57.2	18,320	45
	32.0	54.5	16,730	44
	34.0	51.7	15,230	43
	36.0	48.8	13,900	41
	38.0	45.8	12,740	39
	40.0	42.6	11,690	37
	42.0	39.2	10,760	34
	44.0	35.5	9,910	32
	46.0	31.4	9,150	29
	48.0	26.8	8,450	25
	50.0	21.3	7,800	20
54.9 meters	9.8	81.9	95,480	56
	10.0	81.6	91,680	56
	11.0	80.6	78,950	56
	12.0	79.5	69,210	56
	13.0	78.4	61,320	56
	14.0	77.4	54,920	56
	15.0	76.3	49,800	55
	16.0	75.2	45,330	55
	17.0	74.1	41,520	55
	18.0	73.0	38,220	54
	19.0	71.9	35,520	54
	20.0	70.8	32,990	54
	21.0	69.7	30,740	53
	22.0	68.6	28,740	53
	24.0	66.3	25,310	52
	26.0	64.0	22,490	51
	28.0	61.6	20,130	50
	30.0	59.2	18,280	49
	32.0	56.8	16,540	48
	34.0	54.2	15,030	46
	36.0	51.6	13,710	45
	38.0	48.8	12,540	43
	40.0	46.0	11,490	41
	42.0	43.0	10,550	39
	44.0	39.8	9,710	37
	46.0	36.4	8,940	34
	48.0	32.6	8,240	31
	50.0	28.4	7,600	28
	52.0	23.6	7,010	24
	54.0	17.5	6,470	18
57.9 meters	10.1	82.0	90,830	59
	11.0	81.1	78,770	59
	12.0	80.1	69,020	59
	13.0	79.0	61,120	59
	14.0	78.0	54,900	59
	15.0	77.0	49,590	58

(Continued)

**LIFT CRANE RATINGS IN KILOGRAMS (cont.)**

With 92HT Tubular Chord Boom and "T-T" Counterweight (63504 kgs.)

Boom Length	Radius In Meters	Boom Angle Degrees	Lift Rating In Kilograms	Meters From Boom Point To Ground
57.9 meters cont.	16.0	76.0	45,120	58
	17.0	75.0	41,290	58
	18.0	73.9	38,000	58
	19.0	72.9	35,310	57
	20.0	71.9	32,770	57
	21.0	70.8	30,520	57
	22.0	69.8	28,520	56
	24.0	67.6	25,090	55
	26.0	65.5	22,270	55
	28.0	63.3	19,890	54
	30.0	61.0	18,050	53
	32.0	58.7	16,320	51
	34.0	56.4	14,810	50
	36.0	53.9	13,490	49
	38.0	51.4	12,310	47
	40.0	48.8	11,270	45
	42.0	46.1	10,320	44
	44.0	43.3	9,480	41
	46.0	40.3	8,710	39
	48.0	37.1	8,010	37
61.0 meters	50.0	33.7	7,380	34
	52.0	29.9	6,790	31
	54.0	25.5	6,240	27
	56.0	20.4	5,750	22
	10.7	81.8	82,530	62
	11.0	81.5	78,620	62
	12.0	80.6	68,860	62
	13.0	79.6	60,950	62
	14.0	78.6	54,740	62
	15.0	77.7	49,410	62
	16.0	76.7	44,940	61
	17.0	75.7	41,110	61
	18.0	74.8	37,800	61
	19.0	73.8	35,120	61
	20.0	72.8	32,580	60
	21.0	71.8	30,330	60
	22.0	70.8	28,320	60
	24.0	68.8	24,880	59
	26.0	66.8	22,050	58
	28.0	64.7	19,680	57
	30.0	62.6	17,850	56
	32.0	60.5	16,100	55
	34.0	58.3	14,600	54
	36.0	56.0	13,260	52
	38.0	53.7	12,090	51
	40.0	51.3	11,040	49
	42.0	48.9	10,110	48
	44.0	46.3	9,260	46
	46.0	43.6	8,490	44
	48.0	40.8	7,790	42
	50.0	37.8	7,150	39
	52.0	34.6	6,560	36
	54.0	31.1	6,020	33
	56.0	27.1	5,520	30
	58.0	22.6	5,060	25
	60.0	16.9	4,630	19

Boom Length	Radius In Meters	Boom Angle Degrees	Lift Rating In Kilograms	Meters From Boom Point To Ground
64.0 meters	11.0	81.9	78,760	65
	12.0	81.0	68,710	65
	13.0	80.1	60,790	65
	14.0	79.2	54,570	65
	15.0	78.3	49,230	65
	16.0	77.4	44,740	64
	17.0	76.4	40,920	64
	18.0	75.5	37,600	64
	19.0	74.6	34,920	64
	20.0	73.6	32,390	63
	21.0	72.7	30,130	63
	22.0	71.8	28,110	63
	24.0	69.9	24,660	62
	26.0	67.9	21,830	61
	28.0	66.0	19,460	60
	30.0	64.0	17,640	59
	32.0	62.0	15,890	58
	34.0	59.9	14,380	57
	36.0	57.8	13,050	56
	38.0	55.7	11,880	55
	40.0	53.5	10,820	53
67.1 meters	42.0	51.2	9,890	52
	44.0	48.9	9,030	50
	46.0	46.4	8,270	48
	48.0	43.9	7,570	46
	50.0	41.2	6,920	44
	52.0	38.4	6,330	41
	54.0	35.4	5,790	39
	56.0	32.1	5,290	36
	58.0	28.5	4,820	32
	60.0	24.4	4,400	28
	62.0	19.6	4,000	23
	64.0	13.1	3,620	16
	11.6	81.8	69,200	68
	12.0	81.4	68,470	68
	13.0	80.6	60,580	68
	14.0	79.7	54,370	68
	15.0	78.8	49,040	68
	16.0	77.9	44,550	68
	17.0	77.1	40,720	67
	18.0	76.2	37,420	67
	19.0	75.3	34,760	67
	20.0	74.4	32,220	67
	21.0	73.5	29,960	66
	22.0	72.6	27,960	66
	24.0	70.8	24,520	65
	26.0	69.0	21,690	65
	28.0	67.1	19,310	64
	30.0	65.3	17,510	63
	32.0	63.4	15,770	62
	34.0	61.4	14,250	61
	36.0	59.5	12,930	60
	38.0	57.5	11,750	58
	40.0	55.4	10,710	57
	42.0	53.3	9,770	56
	44.0	51.1	8,930	54
	46.0	48.9	8,160	52

(Continued)

**LIFT CRANE RATINGS IN KILOGRAMS (cont.)****With 92HT Tubular Chord Boom and "T-T" Counterweight (63504 kgs.)**

Boom Length	Radius In Meters	Boom Angle Degrees	Lift Rating In Kilograms	Meters From Boom Point To Ground
67.1 meters cont.	48.0	46.5	7,460	50
	50.0	44.1	6,820	48
	52.0	41.6	6,230	46
	54.0	38.9	5,690	44
	56.0	36.1	5,190	41
	58.0	33.1	4,730	38
	60.0	29.7	4,300	35
	62.0	26.0	3,910	31
	64.0	21.7	3,530	27
	66.0	16.4	3,180	21
70.1 meters	11.9	81.9	62,770	71
	12.0	81.8	62,770	71
	13.0	81.0	60,420	71
	14.0	80.1	54,210	71
	15.0	79.3	48,880	71
	16.0	78.5	44,390	71
	17.0	77.6	40,550	70
	18.0	76.8	37,240	70
	19.0	75.9	34,580	70
	20.0	75.1	32,040	70
	21.0	74.3	29,780	69
	22.0	73.4	27,760	69
	24.0	71.7	24,330	69
	26.0	70.0	21,480	68
	28.0	68.2	19,110	67
	30.0	66.4	17,320	66
	32.0	64.6	15,570	65
	34.0	62.8	14,050	64
	36.0	60.9	12,730	63
	38.0	59.0	11,550	62
	40.0	57.1	10,500	61
	42.0	55.1	9,560	59
	44.0	53.1	8,710	58
	46.0	51.0	7,950	56
	48.0	48.9	7,250	55
	50.0	46.6	6,610	53
	52.0	44.3	6,020	51
	54.0	41.9	5,480	49
	56.0	39.4	4,970	46
	58.0	36.7	4,510	44
	60.0	33.9	4,080	41
	62.0	30.8	3,680	38
	64.0	27.4	3,310	34
	66.0	23.5	2,960	30
	68.0	18.9	2,640	24
	70.0	12.8	2,340	17
73.2 meters	12.2	82.0	60,020	74
	13.0	81.4	60,020	74
	14.0	80.6	54,020	74
	15.0	79.8	48,670	74
	16.0	79.0	44,180	74
	17.0	78.2	40,340	74
	18.0	77.4	37,020	73
	19.0	76.6	34,370	73
	20.0	75.7	31,830	73
	21.0	74.9	29,570	73
	22.0	74.1	27,550	72

Boom Length	Radius In Meters	Boom Angle Degrees	Lift Rating In Kilograms	Meters From Boom Point To Ground
73.2 meters cont.	24.0	72.5	24,100	72
	26.0	70.8	21,260	71
	28.0	69.2	18,890	70
	30.0	67.5	17,090	70
	32.0	65.8	15,350	69
	34.0	64.0	13,830	68
	36.0	62.3	12,500	67
	38.0	60.5	11,330	66
	40.0	58.6	10,270	64
	42.0	56.8	9,340	63
	44.0	54.9	8,480	62
	46.0	52.9	7,720	60
	48.0	50.9	7,010	59
	50.0	48.9	6,380	57
	52.0	46.8	5,780	55
	54.0	44.5	5,250	53
	56.0	42.3	4,750	51
	58.0	39.9	4,290	49
	60.0	37.3	3,860	46
	62.0	34.6	3,460	43
76.2 meters	64.0	31.7	3,080	40
	66.0	28.6	2,730	37
	68.0	25.1	2,400	33
	70.0	21.0	2,100	28
	72.0	16.0	1,810	22
	12.8	81.9	54,490	77
	13.0	81.7	54,490	77
	14.0	80.9	53,860	77
	15.0	80.2	48,510	77
	16.0	79.4	44,000	77
	17.0	78.6	40,160	77
	18.0	77.9	36,830	77
	19.0	77.1	34,190	76
	20.0	76.3	31,640	76
	21.0	75.6	29,370	76
	22.0	74.8	27,350	76
	24.0	73.2	23,890	75
	26.0	71.6	21,050	74
	28.0	70.0	18,660	74
	30.0	68.4	16,680	73
	32.0	66.8	15,140	72
	34.0	65.1	13,620	71
	36.0	63.5	12,290	70
	38.0	61.8	11,110	69
	40.0	60.0	10,060	68
	42.0	58.3	9,110	67
	44.0	56.5	8,270	65
	46.0	54.6	7,490	64
	48.0	52.8	6,790	63
	50.0	50.9	6,150	61
	52.0	48.9	5,560	59
	54.0	46.8	5,020	57
	56.0	44.7	4,520	55
	58.0	42.5	4,060	53
	60.0	40.3	3,630	51
	62.0	37.8	3,230	48
	64.0	35.3	2,850	46

**LIFT CRANE RATINGS IN KILOGRAMS (cont.)****With 92HT Tubular Chord Boom and "T-T" Counterweight (63504 kgs.)**

Boom Length	Radius in Meters	Boom Angle Degrees	Lift Rating in Kilograms	Meters From Boom Point To Ground
76.2 meters	66.0	32.6	2,500	43
	68.0	29.6	2,170	39
	70.0	26.4	1,860	36
79.2 meters	13.1	81.9	49,560	81
	14.0	81.3	49,560	80
	15.0	80.6	48,330	80
	16.0	79.8	43,820	80
	17.0	79.1	39,960	80
	18.0	78.4	36,540	80
	19.0	77.6	33,990	79
	20.0	76.9	31,440	79
	21.0	76.1	29,180	79
	22.0	75.4	27,150	79
	24.0	73.9	23,680	78
	26.0	72.4	20,840	77
	28.0	70.8	18,540	77
	30.0	69.3	16,670	76
	32.0	67.7	14,920	75
	34.0	66.1	13,410	74
	36.0	64.6	12,070	73
	38.0	62.9	10,880	72
	40.0	61.3	9,840	71
	42.0	59.6	8,890	70
	44.0	57.9	8,040	69
	46.0	56.2	7,270	68
	48.0	54.4	6,560	66
	50.0	52.6	5,920	65
	52.0	50.8	5,340	63
	54.0	48.9	4,790	62
	56.0	46.9	4,290	60
	58.0	44.9	3,820	58
	60.0	42.8	3,390	56
	62.0	40.6	2,990	53
	64.0	38.3	2,620	51
	66.0	35.9	2,260	48
	68.0	33.3	1,930	45
82.3 meters	13.7	81.8	43,360	84
	14.0	81.6	43,360	83
	15.0	80.9	43,180	83
	16.0	80.2	43,010	83
	17.0	79.5	39,740	83
	18.0	78.8	36,420	83
	19.0	78.1	33,790	83
	20.0	77.4	31,240	82
	21.0	76.6	28,980	82
	22.0	75.9	26,960	82
	24.0	74.5	23,500	81
	26.0	73.0	20,650	81
	28.0	71.6	18,280	80
	30.0	70.1	16,510	79
	32.0	68.6	14,770	79
82.3 meters	34.0	67.1	13,250	78
	36.0	65.6	11,920	77
	38.0	64.0	10,740	76
	40.0	62.5	9,690	75
	42.0	60.9	8,750	74
	44.0	59.3	7,890	73
	46.0	57.6	7,130	71
	48.0	55.9	6,420	70
	50.0	54.3	5,790	69
	52.0	52.5	5,190	67
	54.0	50.7	4,660	66
	56.0	48.9	4,150	64
	58.0	47.0	3,690	62
	60.0	45.1	3,260	60
	62.0	43.0	2,850	58
	64.0	40.9	2,480	56
	66.0	38.8	2,130	53
	68.0	36.5	1,810	51
85.3 meters	14.0	81.9	39,730	87
	15.0	81.2	39,570	86
	16.0	80.6	39,420	86
	17.0	79.9	39,260	86
	18.0	79.2	36,240	86
	19.0	78.5	33,620	86
	20.0	77.8	31,060	85
	21.0	77.1	28,790	85
	22.0	76.4	26,770	85
	24.0	75.1	23,310	84
	26.0	73.6	20,460	84
	28.0	72.3	18,070	83
	30.0	70.8	16,320	83
	32.0	69.4	14,570	82
	34.0	67.9	13,040	81
	36.0	66.5	11,720	80
	38.0	65.0	10,530	79
	40.0	63.5	9,480	78
	42.0	62.0	8,540	77
	44.0	60.5	7,680	76
	46.0	58.9	6,910	75
	48.0	57.3	6,210	74
	50.0	55.7	5,570	72
	52.0	54.1	4,980	71
	54.0	52.4	4,430	69
	56.0	50.7	3,940	68
	58.0	48.9	3,480	66
	60.0	47.1	3,040	64
	62.0	45.2	2,640	62
	64.0	43.3	2,270	60
	66.0	41.3	1,910	58

9320.09M

CRANE RATING DATA

Load ratings are in pounds (kilograms) and do not exceed 75% of the load which would cause tipping with crane standing level on firm uniformly supporting surface. Safe loads depend on ground conditions, boom lengths, radius of operation, and proper handling, all of which must be taken into consideration by user.

"Radius in feet (meters)" is the horizontal distance at crane base level from center of rotation to a vertical line through the center of gravity of the suspended load.

Lifting is approved only in those areas for which ratings are shown in the rating chart. Blocks, slings, buckets, and other load carrying devices are considered part of the load. Retractable A-frame must be in fully raised position for all ratings. Ratings in shaded areas are limited by strength of material, or factors other than stability. The weight of standard hoisting rope for the rating at a given radius has been calculated as part of the load and need not be considered in determining net allowable loads.

Main load line is 1 1/8 inch (28.6 mm) diameter with a minimum breaking strength of 143,000 pounds (64,865 kilograms). Boom suspension line is 7/8 inch (22 mm) diameter with a minimum breaking strength of 79,600 pounds (36,110 kilograms). Boom suspension pendants are 1 1/8 inch (34.9 mm) diameter with a minimum breaking strength of 211,000 pounds (95,710 kilograms).

Boom and jib erection is over the end of the machine with idler tumblers blocked and with "T-T" counterweight.

Designed and rated to comply with ANSI Code B30.5.

**LOAD HOISTING DATA**

Maximum Lifting Capacity In Pounds	Minimum Parts of Load Line	Maximum Hoisting Distance		
		RH Drum With Controlled Load Lowering	LH Drum With Controlled Load Lowering	LH Drum Without Controlled Load Lowering
		FL	FL	FL
*500,000	14	59	30	46
490,280	12	69	35	53
449,427	11	76	38	58
408,570	10	83	42	64
367,710	9	93	47	71
326,850	8	104	52	80
286,000	7	119	60	92
245,140	6	139	70	107
204,280	5	167	84	129
163,420	4	209	105	161
122,570	3	279	141	215
81,710	2	419	211	323
40,850	1	839	423	647

*Requires boom point hanger block. Based on 1 1/4 in. super grade loadline with 143,000 lbs. minimum breaking strength.

METRIC

Maximum Lifting Capacity In Kilograms	Minimum Parts of Load Line	Maximum Hoisting Distance		
		RH Drum With Controlled Load Lowering	LH Drum With Controlled Load Lowering	LH Drum Without Controlled Load Lowering
		M	M	M
*226,800	14	18.3	9.2	14.0
222,390	12	21.0	10.7	16.2
203,860	11	23.2	11.6	17.7
185,320	10	25.3	12.8	19.5
166,790	9	28.3	14.3	21.6
148,260	8	31.7	15.8	24.4
129,720	7	36.3	18.3	28.0
111,190	6	42.4	21.3	32.6
92,660	5	50.9	25.6	39.3
74,130	4	63.7	32.0	49.1
55,590	3	85.0	50.0	65.5
37,060	2	127.7	64.3	98.5
18,530	1	255.7	128.9	197.2

*Requires boom point hanger block. Based on 28.6 mm dia. load line with 64865 kgs. minimum breaking strength.

BOOM AND JIB ERECTION

92 HT Boom Length in Feet	Maximum No. 30H Jib in Feet
280	0
270	0
260	45
250	85
240	95

METRIC

92 HT Boom Length in Meters	Maximum No. 30H Jib in Meters
85.3	0
82.3	0
79.3	13.7
76.2	25.9
73.2	29.0

Erection is over the idler end of the crawlers with A-frame fully raised and tumbler blocked.

NOTE: In accordance with varying material situations and the Company's policy of constant product improvement these specifications are subject to change without notice and without incurring responsibility to units previously sold.

92HT BOOM COMPOSITION

Boom Length		30 FL (9.1 m) 92HT Inner	20 FL (6.1 m) 92HT Center	10 FL (3.0 m) 92ST Center	50 FL (15.2 m) 92ST Center	40 FL (12.2 m) 92H Outer
In Feet	In Meters					
70	21.3	1	—	—	—	1
80	24.4	1	—	1	—	1
90	27.4	1	1	—	—	1
100	30.5	1	1	1	—	1
110	33.5	1	1	2	—	1
120	36.6	1	—	—	1	1
130	39.6	1	—	1	1	1
140	42.7	1	1	—	1	1
150	45.7	1	1	1	1	1
160	48.8	1	1	2	1	1
170	51.8	1	—	—	2	1
180	54.9	1	—	1	2	1
190	57.9	1	1	—	2	1
200	61.0	1	1	1	2	1
210	64.0	1	1	2	2	1
220	67.1	1	—	—	3	1
230	70.1	1	—	1	3	1
240	73.2	1	1	0	3	1
250	76.2	1	1	1	3	1
260	79.3	1	1	2	3	1
270	82.3	1	0	0	4	1
280	85.3	1	0	1	4	1

PERFORMANCE

Travel Speed0 to 1.1 MPH maximum (1.77 KmPH)
Friction Swing2.28 RPM maximum
Hydrostatic Swing1.9 RPM maximum

HOISTING PERFORMANCE:

Function	Single Line Pull at Single Line Speed	
	SLP (Pounds) at SLS (Feet Per Min.)	SLP (Kilograms) at SLS (Meters Per Min.)
Crane	40,000 lbs. at 165 FPM	18144 kg at 50.1 MPM
Third Drum	15,000 lbs. at 225 FPM	6804 kg at 68.6 MPM
Third Drum	21,000 lbs. at 220 FPM	9525 kg at 67.0 MPM
G.D./S.H. Third Drum	40,000 lbs. at 90 FPM	18144 kg at 27.4 MPM

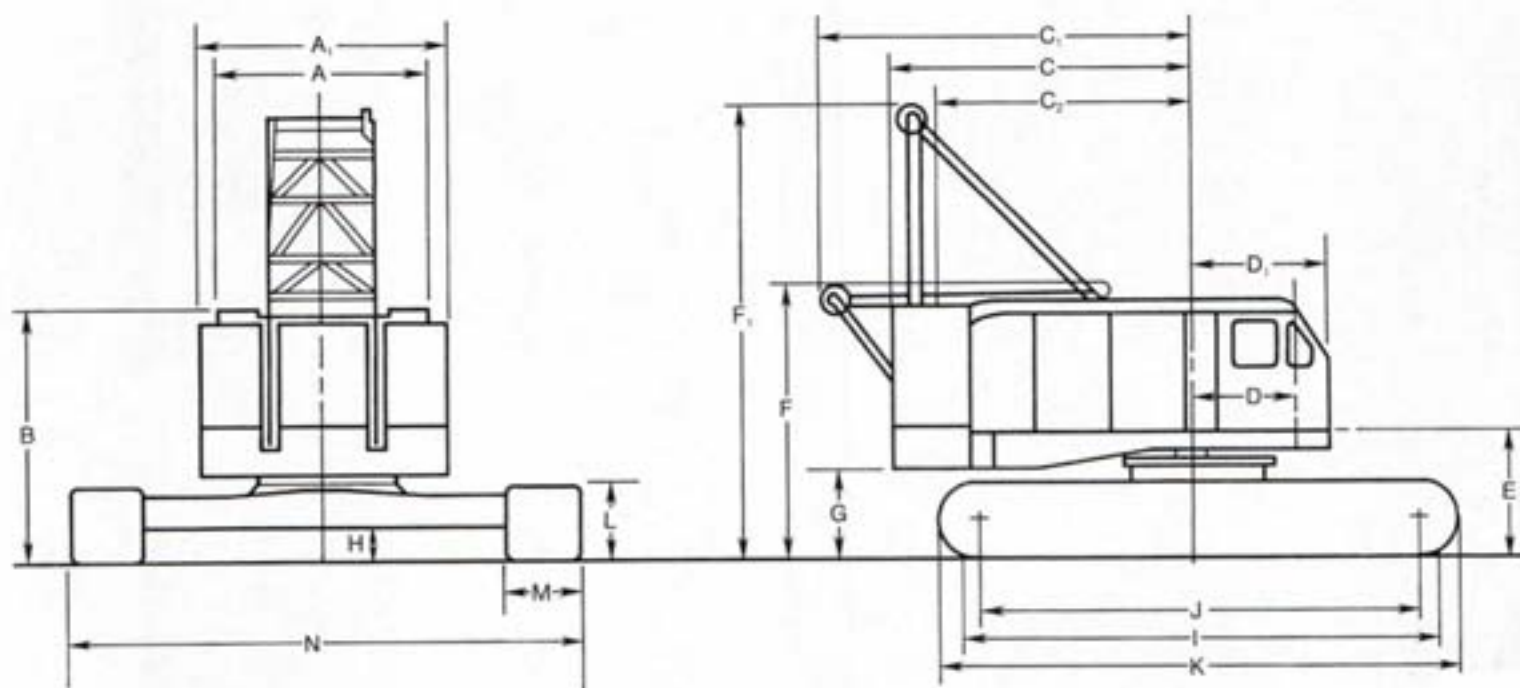
Performance figures are based on machine equipped with standard engine and torque converter.

WEIGHTS

	Lbs.	Kg.
Lifting Crane with Basic 70 ft. 92HT Crane Boom	384,280	174,306
Components Removable for Shipment:		
Counterweight	140,000	63,504
Boom Outer	10,070	4,568
Boom Inner	8,560	3,883
Telescopic Boom Stops	300	136
Outer Bail Assembly	2,450	1,111
A-Frame	5,320	2,413
Side Frames, 50 in. (1270 mm)		
Shoes (2)	91,260	41,395
Torque Tubes (2)	2,670	1,211
Carbody	47,460	21,528
Ground Bearing Pressure:		
Standard Equipped Lift Crane ...	11.5 PSI	kg/m ²



AMERICAN MODEL 9320 CRAWLER CRANE

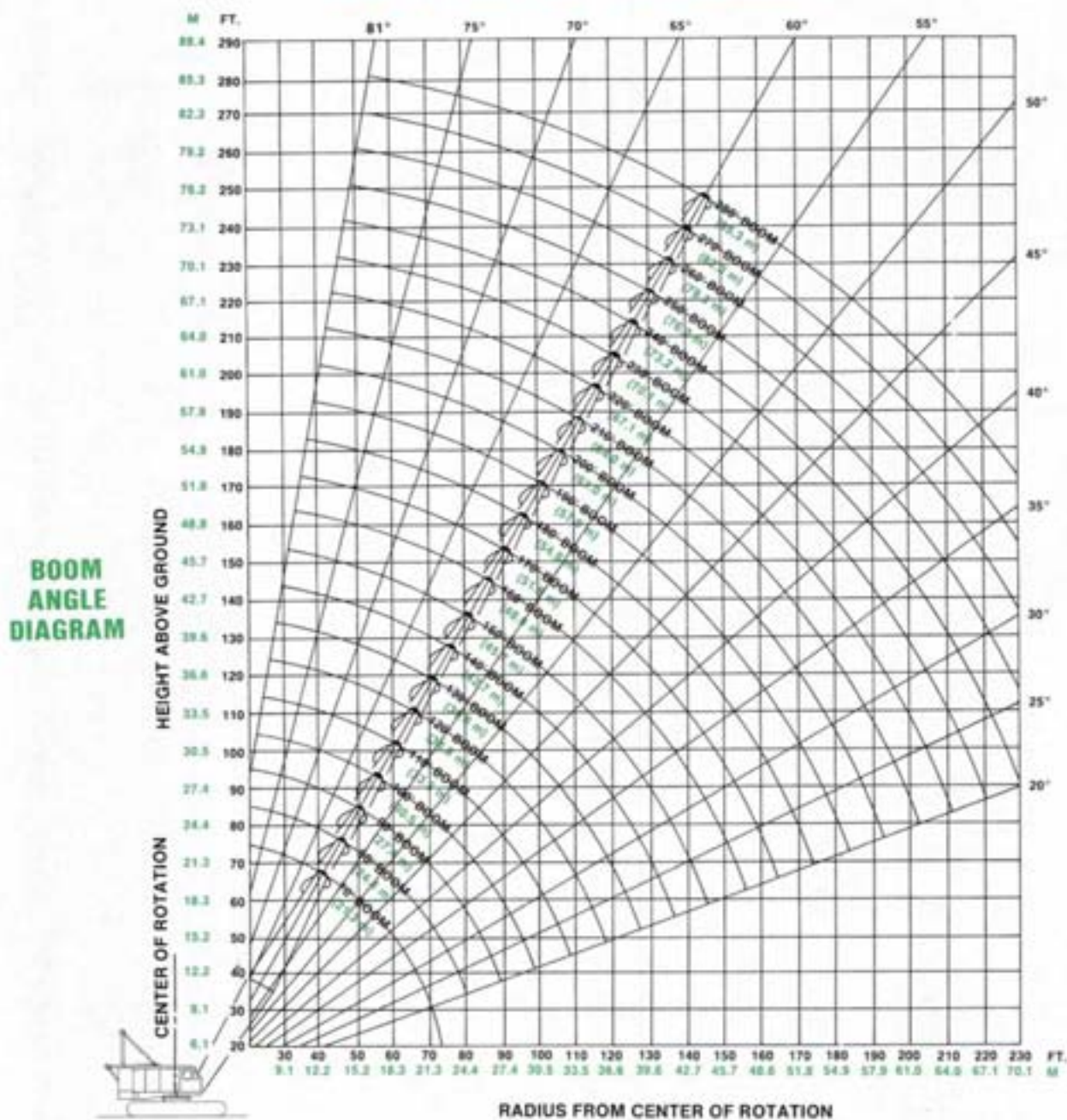


GENERAL DIMENSIONS

		Ft.	MM
A.	Width of Cab	11'0"	3,343
A ₁	Width Over Counterweight	13'2"	4,013
B.	Height Over Cab	13'7 ¹ / ₈ "	4,143
C.	Tailswing	17'0"	5,182
C ₁	Tailswing with A-Frame, Lowered	24'9"	7,544
C ₂	Tailswing less A-Frame and Counterweight	14'11"	4,546
D.	Center of Pivot to Center of Boom Foot	5'0 ³ / ₄ "	1,542
D ₁	Center of Pivot to Front of Cab	6'10 ¹ / ₂ "	2,095
E.	Ground to Center Boom Foot	6'9 ¹ / ₈ "	2,060
F.	Height Over A-Frame, Lowered-Ctw. On	14'8 ⁵ / ₈ "	4,486
F.	Height Over A-Frame, Lowered-Ctw. Off	14'9 ⁷ / ₈ "	4,518
F ₁	Height Over A-Frame, Raised	30'4 ⁷ / ₈ "	9,268
G.	Ground to Bottom of Counterweight	4'8 ³ / ₈ "	1,432
H.	Minimum Ground Clearance Under Crawler Base	1'7 ¹ / ₂ "	495
I.	Crawler Bearing Length	27'9 ¹ / ₂ "	8,491
J.	Center to Center Crawler Tumblers	26'5"	8,053
K.	Overall Length of Crawlers	30'5"	9,272
L.	Height of Crawler Track	3'11 ¹ / ₈ "	1,197
M.	Width of Tread Shoes	50"	1,270
N.	Overall Width Over Crawlers	25'6"	7,772



AMERICAN MODEL 9320 CRAWLER CRANE WORKING RANGES



3JR891

FORM NO. 9320-CR-1

PRINTED IN U.S.A

SOLD & SERVICED BY:



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Wilmington, North Carolina 28403
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