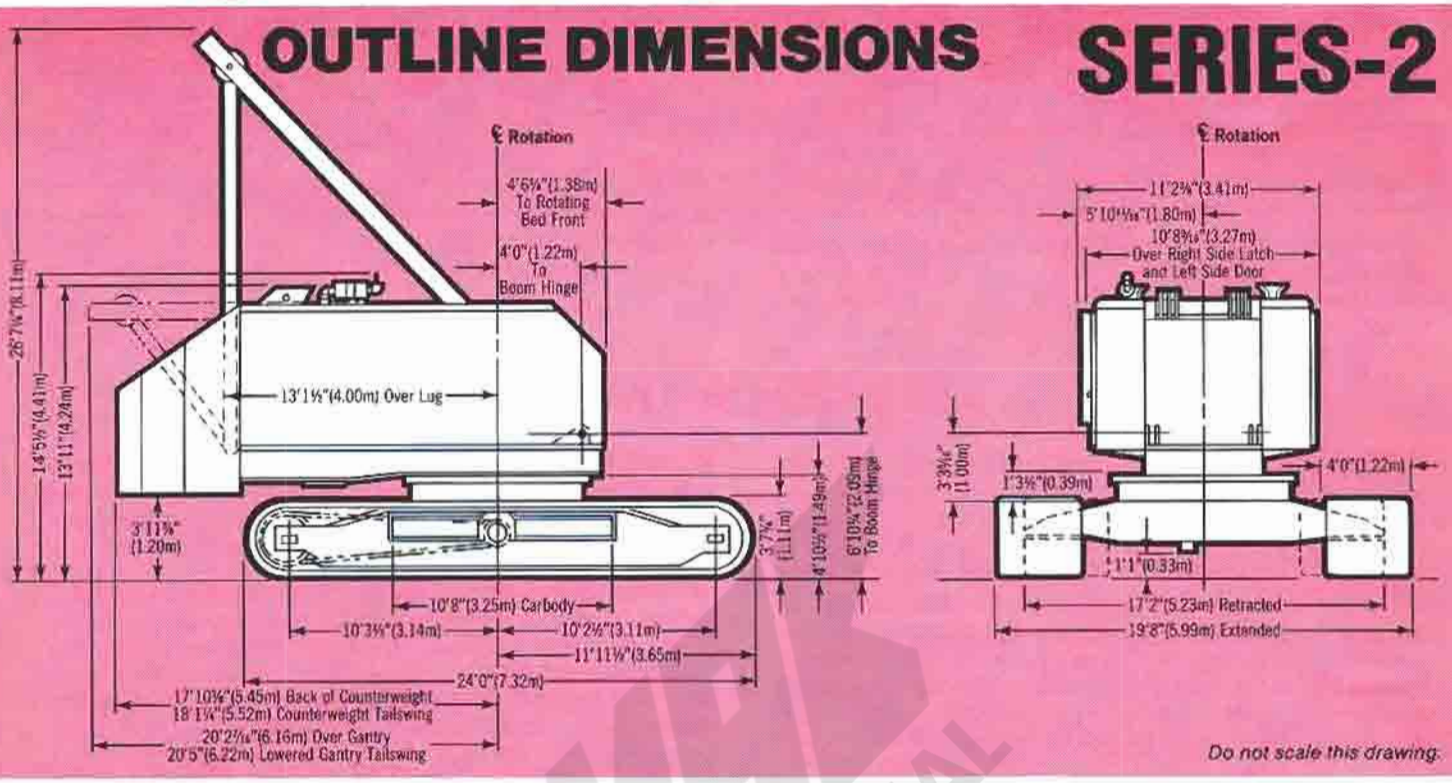
Manitowoc 3900W

OUTLINE DIMENSIONS SERIES-2



Do not scale this drawing.

WEIGHTS

	Pounds*
LIFTCRANE (complete): lowerworks, upperworks, and 60' basic boom	258,840
CARBODY AND UPPERWORKS (combined): complete with basic machinery, drums, gantry, backhitch, equalizer, and boom hoist wire rope	100,540
LOWERWORKS:	
Carbody, with travel mechanism, king pin, and roller path	34,700
Crawler Assemblies (2), with 48" wide treads and outside drive chains (each assembly 31,150)	62,300
UPPERWORKS:	
Rotating Bed, complete with basic machinery, including drums, but not gantry and backhitch, front end attachments, or counterweight	61,520
Gantry and Backhitch	4,320
Equalizer	1,330
Telescopic Boom Stop	660
Removable Counterweight (3-piece):	
Inner	43,000
Middle	30,000
Outer	11,600
Total	84,600
Dragline Fairlead	
Revolving Type	1,910
Hinged Type	5,120
BOOM NO. 9A:	
Butt, 30' (less wire rope and pendants)	4,375
Top, 30' (equipped with 5-sheave lower point, single-sheave upper point, and basic pendants)	5,185
Inserts:	
10' (with pendants & wire rope roller guide)	1,500
20' (with pendants & wire rope roller guide)	2,480
40' (with pendants & wire rope roller guides)	3,580
40' (with pendants, wire rope roller guides, and jib backstay lugs)	3,600
Pendant Spreader Bar	385
Wire Rope Guide	295
JIB NO. 123:	
Butt, 15'	690
Insert, 10'	340
Top, 15' (with point assembly)	695
Basic Pendant, (2 required, each 115)	230
Pendant, (2 per insert, each 65)	130
Backstay Pendant, (2 required, each 155)	310
Strut, 12' 6"	365
JIB NO. 124:	
Butt, 15'	410
Insert, 10'	175
Top, 15' (with point assembly)	480
Basic Pendant,	100
Pendant, (2 per insert, each 20)	40
Backstay Pendant, (2 required, each 140)	280
Strut, 18'	380

**Weights are approximate and may vary between machines as a result of design changes and component variations.*

POWER PLANTS

	Model	Cylinder	Bore	Stroke	Cubic Inch Displacement	Net HP @ RPM (at flywheel)
BASIC	Cummins NT-855-C310	6	5.500"	6.0"	855	287 @ 2000
OPTIONAL	Caterpillar 3406 DIT	6	5.400"	6.5"	893	300 @ 2000
	*Caterpillar 3406 PCTA	6	5.400"	6.5"	893	364 @ 2000
	*Cummins NTA-855-C360	6	5.500"	6.0"	855	334 @ 2000
	*Detroit Diesel 12V-71N	12	4.250"	5.0"	852	363 @ 1800

Air Compressor: 37.5 CFM. *Recommended For Duty Cycle Service. Fuel Tank Capacity: 219 Gallons.

LOWERWORKS

CARBODY: Single-piece, ribbed steel fabrication with integral side wings permits crawlers to be extended or retracted without reducing bearing area between crawler side frames and carbody wings. Side wings transmit loads directly to crawler side frames, eliminating axles and providing lower center of gravity.

ROLLER PATH AND RING GEAR: Machined from heat-treated alloy steel casting. Roller path has 105⅝" outside diameter, 6" width, and 3" thick hook roller flange. Integral internal ring gear has machine-cut teeth. Roller path secured to carbody with single row of high-strength bolts.

KING PIN: Machined steel fabrication. Secured to carbody with high-strength bolts. Provides support for vertical travel shaft and pivot for rotating bed. Mates with bronze bearing in rotating bed. Takes horizontal loads only, no uplift.

TRAVEL AND STEERING MECHANISM: Power transmitted from upperworks through vertical travel shaft to three-piece horizontal travel shaft. Vertical travel shaft mounted in king pin, horizontal travel shaft in carbody; both supported by bronze bearings. Bevel gears transmit power from vertical shaft to horizontal shaft.

Steering provided by air-controlled steering clutch-and-lock mechanisms located to each side of bevel gears. Both clutches engaged for straight travel; one clutch placed in neutral for gradual turns or locked position for sharp turns. Interlock prevents both clutches from being in neutral at same time. Ratchet wheel for travel locks located to left of bevel gears. Travel locks are gravity-applied, air-released pawls that engage ratchet wheel. Engaging one pawl permits travel in one direction while preventing movement in opposite direction. Engaging both pawls prevents all travel.

CRAWLER SIDE FRAMES: Two reinforced steel fabrications with integral pockets for mounting frames onto carbody wings. Each crawler frame provides mounting for front idler roller, 12 intermediate rollers, crawler sprocket and chain, drive tumbler, and crawler tread. Abrasion-resistant slide rails along top provide smooth, continuous support for tread, eliminating need for upper idler rollers.

FRONT IDLER ROLLER: Double-flanged, fabricated steel roller mounted on 6¼" diameter stationary shaft supported at both ends by crawler frame. Roller revolves on two large bronze bearings lubricated by a center grease pocket.

INTERMEDIATE ROLLERS: Double-flanged, 14" diameter rollers, bronze bearing mounted on 4⅜" diameter stationary shafts. Bearings lubricated by center grease pocket. Rollers located in pockets along underside of crawler frame. Shaft ends supported by welded frames and held in place by keeper bars.

CRAWLER DRIVE: Drive chains located outside crawler frames. Drive sprockets self-contained within crawler side frames telescope on hexagonal shaped horizontal travel shaft ends. Allows crawler extension, retraction, and removal without separating drive chain or tread.

CRAWLER SPROCKET AND TUMBLER: Transmit drive torque. Integral cast steel unit with flame-hardened sprocket teeth and tumbler rim. Mounted on stationary shaft supported at both ends by crawler frame. Sprocket-and-tumbler unit revolves on two large bronze bearings lubricated by center grease pocket. Self-cleaning tumbler has alternate sides open. Drive chain adjusted by positioning sprocket-and-tumbler support shaft with hydraulic jack, then inserting U-shaped shims to hold shaft in place.

CRAWLER PADS: Constructed of cast alloy steel in closed box-section design with center driving lug. Heavy internal ribbing provides great pad strength, especially next to driving lug, where intermediate rollers bear. Bottom edges taper upward to minimize digging-in during turns.

CRAWLER TREADS: 48" wide, 52 pads per crawler frame. Adjacent pads connected by two high-carbon steel pins. Pads' closed design prevents them from carrying dirt up onto crawler frames.

TREAD ADJUSTMENT: Crawler tread easily adjusted by positioning front idler roller support shaft with hydraulic jack, then inserting U-shaped shims to hold shaft in place.

UPPERWORKS

ROTATING BED: Single-piece, welded-steel fabrication with integral machinery side frames forms rigid deck for mounting all upperworks components. Fabricated construction provides high strength-to-weight ratio. Precision boring assures proper alignment of machinery components. Bed rotates on four house rollers: two front and two rear, all antifriction bearing mounted.

FRONT HOOK ROLLERS: Two antifriction bearing mounted rollers supported individually by fabricated frames integral with rotating bed. Frames spaced wide to provide stability. Rollers mounted on eccentric shafts for easy adjustment.

REAR HOOK ROLLERS: Four antifriction bearing mounted rollers supported in pairs by heavy steel hangers that pivot to equalize roller loads. Hangers spaced wide apart to provide stability. Rollers mounted on eccentric shafts for easy adjustment.

A-FRAME: Fabricated steel rear column, roof support, and vertical center legs. Bar-type front legs. All joints pin-connected. Structure supports gantry, counterweights, and optional rear auxiliary drum shaft.

POWER TRANSMISSION, VICON®: The patented VICON (**V**ariable **I**ndependent **CON**trol) system provides stepless variable power transmission for major machine functions. Engine power is divided at transmission case to two controlled torque converters and a hydraulic pump. Front converter powers hoisting drums. Rear converter powers main drive shaft for swing and travel. Hydraulic pump powers independent boom hoist. With VICON, clutches engage when little or no torque is transmitted from power source, virtually eliminating clutch slippage and wear. After clutch sets, controlled torque converter output is increased to provide infinitely-variable speed and torque.

MAIN DRIVE SHAFT: Antifriction bearing mounted, alloy-steel shaft chain-driven by rear VICON converter. Powers two single-disc clutches that control travel and standard swing. Clutch hubs splined to shaft; integral clutch spiders and bevel pinions antifriction bearing mounted. Clutches applied by air-actuated cam levers and released by springs. Cam faces separated by roller bearings that minimize friction. Fully-enclosed, oil-spray-lubricated bevel pinions drive slide pinion shaft that permits selection of travel or standard swing functions. Operator selects each function by manually positioning slide pinion to engage travel or swing gear train.

INDEPENDENT SWING SHAFT: Standard. Heat-treated, alloy-steel shaft, antifriction bearing mounted on rotating bed behind main drive shaft. Chain-driven by sprocket on main drive shaft. Powers two double-disc reversing clutches that control direction of independent swing. Clutch hubs splined to shaft. Clutch spiders with integral bevel pinions, antifriction bearing mounted. Clutch pressure plates applied by manually-actuated, axial-pressure cam levers, and released by springs. Cam lever faces separated by antifriction roller bearings that take axial thrust to minimize friction. Disc assemblies remove easily for lining replacement. Bevel pinions drive through gear train to ring gear on carbody. Swing brake provided on vertical independent swing shaft. With independent swing, travel is also independent.

SWING LOCK: Spring-loaded, gear segment type lock engages swing gear for positive locking. With independent swing, lock is air-controlled. With standard swing, lock is operated by slide pinion control: lock engages when pinion is in neutral or travel position, and disengages when pinion is in swing position.

SPLIT DRUM SHAFT ASSEMBLY: Heat-treated alloy-steel shaft, antifriction bearing mounted. Drums antifriction bearing mounted on shaft. Each drum is cast steel with a bolt-on cast iron combination clutch-and-brake flange on outboard side. Drum clutch spiders splined to shaft. Clutches, air-controlled, internal-expanding, band-type. Brakes, external-contracting, band-type; manually controlled on liftcrane, air assisted on duty cycle machines.

Optional auxiliary drums are available to provide three operating lines for specialized applications. Rear auxiliary drum provides 20,000-pound line pull; front auxiliary drum provides 5,000-pound line pull. Full-width rear drum mounted on A-frame above and behind main drums has single, air-applied, internal-expanding, band-type clutch, and double, external-contracting, band-type brakes that are spring-set, air-released, and air-operated. Front drum mounted ahead of main drums on rotating bed has an air-applied, single-disc clutch and an external-contracting, band-type brake that is spring-applied and automatically released upon clutch application.

VICON® POWER LOWERING: Controlled power load lowering with any hoist drum for line pull in excess of 6,000 pounds is an integral part of the VICON control system. It enables raising, holding, or lowering the load using stepless variable torque output from hoist converter. Drum clutch remains engaged, eliminating transfer of load from clutch to brake during normal operation.

FULL-RANGE VICON POWER LOWERING: Optional. An engine-driven hydraulic pump powers a hydraulic motor which rotates output shaft of VICON hoist converter in reverse direction. Provides power lowering for drum line pull less than 6,000 pounds. The hydraulic equipment permits a full range of lowering speeds from empty hook through maximum capacity.

INDEPENDENT BOOM HOIST: Dual drums mounted on heat-treated alloy-steel shaft. Driven through planetary gear reduction by bronze worm and gear. All rotating shafts antifriction bearing mounted. Gears fully enclosed and run in oil. Boom hoist powered by variable-displacement hydraulic motor, providing full-range speed control. Boom hoist main brake is external-contracting band-type, spring-applied, air-released. Auxiliary brake is external-contracting band-type, manually-applied from operator's station. Ratchet and pawl enclosed inside gear housing. Ratchet mounted to worm gear; pawl gravity-engaged, air-released. Drum rotation indicator standard. Boom hoist mounted in rear of rotating bed.

FRONT END EQUIPMENT

NO. 9A BOOM: 30' butt, 10', 20', and 40' inserts, 30' open throat top. Rectangular box-section design. All-welded construction with inverted-angle chords and tubular lacings. Chords are 100,000 PSI-yield steel; lacings are 90,000 PSI-yield steel. All boom sections 74" wide x 72" deep at pin-connected joints. Each insert matched with two pair of 1¼" diameter, single-length pendants. Lower boom point equipped with five 24" diameter sheaves. Upper boom point has single 27" diameter sheave with rope guard for liftcrane or cheek plate for dragline. For clamshell, upper point has two 27" diameter sheaves with cheek plates. All sheaves antifriction bearing mounted. Basic boom length 60'; maximum length 250'.

GANTRY AND BACKHITCH: Gantry is fabricated plate with parallel box-section legs. Supported on large pins by A-frame center leg. Backhitch is three-piece, telescoping, link-type construction, pin-connected to rear of rotating bed and gantry. Vertical sheaves antifriction bearing mounted; horizontal sheave bronze bearing mounted. Floating, vertical boom hoist wire rope sheaves bronze bearing mounted.

GANTRY LIFTING DEVICE: Electrically-powered hydraulic unit begins raising of gantry and controls lowering of gantry into cab roof.

BOOM RIGGING: Ten-part line reeved between gantry and equalizer (twelve-part line optional). Controls boom angle by single line reeved continuously from boom hoist drums, which power boom up and down. Equalizer connected to boom point by two pair of 1¼" diameter pendants. For longer booms, pendants are matched to insert lengths.

EQUALIZER: Fabricated steel frame supporting four vertical sheaves and two horizontal sheaves, all antifriction bearing mounted.

AUTOMATIC BOOM STOP: Boom contacts push rod, automatically stopping boom hoist when boom angle reaches 82° from horizontal.

TELESCOPIC BOOM STOP: Air-cushioned telescoping tubes pinned to boom and A-frame. Starts cushioning at 77° boom angle. Provides positive physical stop at 85° from horizontal. Standard on liftcrane.

WIRE ROPE GUIDE: Mounted on top side of boom top. Two fleeting sheaves, bronze bearing mounted.

WIRE ROPE ROLLER GUIDES: Mounted on top side of boom inserts. Roller is induction hardened tubing, antifriction bearing mounted.

4½° OFFSET BOOM TOP: Optional. Permits greater clearance between load and boom. Standard boom top converted by adapter links at upper joints. May be used on all boom lengths up to 250'.

HAMMERHEAD BOOM TOP: Optional. Replaces standard boom top to permit lifting maximum capacity loads in areas with restricted overhead clearance. Standard boom converted by adding 3' hammerhead top. May be used on all boom lengths from 33' to 223'.

NO. 123 JIB: Optional. 20-ton maximum capacity. 30' basic length extendible to 40', 50', or 60' with 10' inserts and matching pendants. Jib offset angle adjustable to 0, 10, or 20 degrees. All-welded construction with tubular chords and lacings. Chords 100,000 PSI-yield steel. Rectangular box section 30" wide x 30" deep at pin-connected joints. Jib point has 24" OD, antifriction bearing mounted sheave, cheek plates, and anchor for two-part line.

NO. 124 JIB: Optional. 10-ton maximum capacity. 30' basic length extendible to 40', 50', or 60' with 10' inserts and matching pendants. Jib offset angle adjustable to 0, 10, 20, or 30 degrees. All-welded construction with tubular chords and lacings. Chords 100,000 PSI-yield steel. Rectangular box section 29½" wide x 22" deep at pin-connected joints. Jib point has 19½" OD, antifriction bearing mounted sheave with wire rope guide. Anchor joint for two-part line, optional.

CONSULT JIB LIFTING CAPACITY CHARTS FOR SPECIFIC CAPACITY WHEN USED ON VARIOUS BOOM LENGTHS.

REVOLVING FAIRLEAD: Furnished only on dragline-equipped machines. Full revolving, antifriction bearing mounted in support at front of rotating bed. All joints taper-pin-connected for maximum rigidity. Two sheaves mounted on tapered shaft and sleeve for maximum stability. Trunnion shaft bronze bearing mounted. Two large side guide rollers, case hardened and bronze bearing mounted. Two end guide rollers. For boom lengths through 80'.

HINGED FAIRLEAD: Optional. Recommended for booms longer than 80'. Stationary frame mounted to boom hinge lugs and front of rotating bed with taper pins for maximum rigidity. Extends guide sheaves for greater fleet angle on drag rope. Drag rope fully guided through swivel frame by sheaves and rollers. Swivel frame antifriction bearing mounted. Sheaves mounted on tapered shaft for maximum stability; shafts antifriction bearing mounted.

TAGLINE: Furnished only on clamshell-equipped machines. Boom mounted, three-barrel tagline with 30" wheel.

GENERAL

MACHINERY CAB: Fully encloses upperworks machinery. Sliding service doors on left side and in roof; hinged service door at left front. Power plant radiator shutter and ladder to roof provided. Catwalks and railings on both sides of cab, optional.

OPERATOR'S STATION: Fully enclosed. Located in right front corner of cab. Insulated door behind seat isolates operator from machinery noise. Large, rubber-mounted safety glass windows provide wide-angle view. Sliding door on right side; sliding window on left side; overhead window for high-boom vision. Controls conveniently located and arranged for efficient operation. Air signal horn standard; heater, windshield wiper, and circulating fan, optional. Elevated operator's module with duplicate controls, optional. Module is mounted forward of main cab and provides eye level 26' 6" above ground.

CONTROLS: Modulating air controls engage boom hoist, main drive shaft clutches, and drum clutches. Drum and main drive shaft control levers are combination clutch and converter control: first movement engages clutch; further movement increases converter output torque, permitting variable speed. Drum brakes are pedal-operated and manually-controlled on liftcrane, air-assisted on clam-drag machines. Travel locks and steering, air-controlled. Slide pinion and swing lock, manually-controlled.

SWING SPEED: Variable, 4.90 RPM maximum.

TRAVEL SPEED: Variable, 1.45 MPH maximum.

GRADEABILITY: 30%.

MANITOWOC ENGINEERING CO.
Division of The Manitowoc Company, Inc.
Manitowoc, Wisconsin 54220

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MANITOWOC ENGINEERING CO.

Division of The Manitowoc Company, Inc. Manitowoc, Wisconsin 54220

LIFTCRANE CAPACITIES — 3900W SERIES 2

MEETS ANSI B30.5 REQUIREMENTS

BOOM NO. 9A WITH OPEN THROAT TOP
84,600 LB. COUNTERWEIGHT
360 DEGREE RATING

CAPACITIES FOR VARIOUS BOOM LENGTHS AND OPERATING RADII ARE FOR FREELY SUSPENDED LOADS AND DO NOT EXCEED 75% OF A STATIC TIPPING LOAD. CAPACITIES BASED ON STRUCTURAL COMPETENCE ARE DENOTED BY AN ASTERISK (•). CAPACITIES INDICATED BY (b) REPRESENT BOOM POSITIONS WHICH, WITHOUT LOAD, PROVIDE LESS THAN REQUIRED ANSI B30.5 BACKWARD STABILITY.

UPPER BOOM POINT CAPACITY FOR LIFTCRANE SERVICE WITH SINGLE PART WHIP LINE OR COMBINATION OF TWO SINGLE PART LINES IS 22,500 LBS. (20,000 LBS. ON FIRST THREE LAYERS, 14,000 LBS. THEREAFTER WHEN REAR AUXILIARY DRUM IS USED). IN ALL CASES, UPPER BOOM POINT CAPACITIES CANNOT EXCEED THOSE LISTED FOR THE MAIN BOOM CAPACITY.

WEIGHT OF JIB, ALL LOAD BLOCKS, HOOKS, WEIGHT BALL, SLINGS, HOIST LINES, ETC., BENEATH BOOM AND JIB POINT SHEAVES, IS CONSIDERED PART OF THE MAIN BOOM LOAD. BOOM IS NOT TO BE LOWERED BEYOND RADII WHERE COMBINED WEIGHTS ARE GREATER THAN RATED CAPACITY. WHERE NO CAPACITY IS SHOWN, OPERATION IS NOT INTENDED OR APPROVED.

MACHINE TO OPERATE IN A LEVEL POSITION ON A FIRM UNIFORMLY SUPPORTING SURFACE WITH GANTRY UP. REFER TO BOOM RIGGING NO. 49501 AND WIRE ROPE SPECIFICATION CHART NO. 6437-A. CRANE OPERATOR JUDGMENT MUST BE USED TO ALLOW FOR DYNAMIC LOAD EFFECTS OF SWINGING, HOISTING OR LOWERING, TRAVEL, WIND CONDITIONS, AS WELL AS ADVERSE OPERATING CONDITIONS AND PHYSICAL MACHINE DEPRECIATION.

OPERATING RADIUS IS THE HORIZONTAL DISTANCE FROM THE AXIS OF ROTATION TO THE CENTER OF VERTICAL HOIST LINE OR LOAD BLOCK. BOOM ANGLE IS THE ANGLE BETWEEN HORIZONTAL AND CENTERLINE OF BOOM BUTT AND INSERTS AND IS AN INDICATION OF OPERATING RADIUS. IN ALL CASES, OPERATING RADIUS SHALL GOVERN CAPACITY. BOOM POINT ELEVATION IS VERTICAL DISTANCE FROM GROUND LEVEL TO CENTERLINE OF BOOM POINT SHAFT.

MACHINE EQUIPPED WITH 24' EXTENDIBLE CRAWLERS, 48" TREADS, 16' RETRACTABLE GANTRY, 10 OR 12 PART BOOM HOIST REEVING, FOUR 1-1/4" BOOM PENDANTS, 1ST COUNTERWEIGHT = 43,000 LBS., 2ND COUNTERWEIGHT = 30,000 LBS., AND 3RD COUNTERWEIGHT = 11,600 LBS.

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED								
OVER END OF BLOCKED CRAWLERS			OVER SIDE OF EXTENDED CRAWLERS			OVER SIDE OF RETRACTED CRAWLERS		
BOOM LGTH.	JIB NO. 123	JIB NO. 124	BOOM LGTH.	JIB NO. 123	JIB NO. 124	BOOM LGTH.	JIB NO. 123	JIB NO. 124
250'	---	---	240'	---	---	220'	---	---
240'	30'	50'	230'	---	---	210'	---	---
230'	50'	60'	220'	30'	40'	200'	40'	50'
220'	60'	60'	210'	40'	60'	190'	50'	60'
			200'	60'	60'	180'	60'	60'
LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START.								

DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED		
JIB LGTH.	JIB NO. 123	JIB NO. 124
30'	2,500 LBS.	1,800 LBS.
40'	3,100 LBS.	2,050 LBS.
50'	3,700 LBS.	2,300 LBS.
60'	4,400 LBS.	2,500 LBS.

CONSULT JIB CHART FOR JIB CAPACITIES.

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
60	15	79.4	65.8	280,000b•	280,000•
	16	78.5	65.6	258,100b	268,700•
	17	77.5	65.4	232,300b	255,500•
	18	76.5	65.2	211,000b	243,400•
	19	75.5	64.9	193,300b	232,500•
	20	74.5	64.7	178,300b	217,000
	22	72.5	64.1	154,100b	185,100
	24	70.5	63.4	135,600b	161,300
	26	68.5	62.7	121,000b	142,700
	28	66.4	61.8	109,100b	127,900
	30	64.3	60.9	99,200b	115,800
	32	62.2	59.9	91,000b	105,700
	34	60.0	58.8	83,900b	97,200
	36	57.8	57.6	77,800b	89,900
	38	55.5	56.3	72,500b	83,600
	40	53.1	54.9	67,900b	78,000
	45	46.9	50.7	58,400b	66,800
	50	39.9	45.4	51,000b	58,300
	55	31.8	38.5	45,200	51,500
	60	21.0	28.4	40,500	46,100

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
70	15	81.0	76.0	273,700b•	273,700•
	16	80.1	75.8	257,900b	267,800•
	17	79.3	75.6	232,000b	254,600•
	18	78.5	75.4	210,700b	242,500•
	19	77.6	75.2	193,000b	231,600•
	20	76.8	75.0	177,900b	216,800
	22	75.1	74.5	153,800b	184,900
	24	73.4	73.9	135,200b	161,000
	26	71.7	73.3	120,600b	142,400
	28	69.9	72.6	108,700b	127,600
	30	68.2	71.8	98,900b	115,500
	32	66.4	71.0	90,600b	105,400
	34	64.6	70.1	83,500b	96,800
	36	62.8	69.1	77,400b	89,500
	38	60.9	68.0	72,100b	83,200
	40	59.1	66.9	67,500b	77,600
	45	54.1	63.6	57,900b	66,400
	50	48.9	59.6	50,600	57,900
	55	43.2	54.8	44,800	51,100
	60	36.9	48.9	40,100	45,700
	65	29.4	41.2	36,200	41,200
	70	19.5	30.2	32,900	37,500

LIFTCRANE CAPACITIES — MEETS ANSI B30.5 REQUIREMENTS — 3900W SERIES 2

BOOM NO. 9A WITH OPEN THROAT TOP
84,600 LB. COUNTERWEIGHT
360 DEGREE RATING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
80	16	81.4	85.9	249,800b•	249,800•
	17	80.6	85.8	231,800b	245,000•
	18	79.9	85.6	210,500b	240,500•
	19	79.2	85.4	192,700b	230,900•
	20	78.5	85.2	177,700b	216,600
	22	77.0	84.8	153,500b	184,700
	24	75.5	84.3	135,000b	160,700
	26	74.0	83.8	120,300b	142,200
	28	72.5	83.2	108,400b	127,300
	30	71.0	82.5	98,600b	115,200
	32	69.5	81.8	90,300b	105,100
	34	68.0	81.0	83,200b	96,600
	36	66.4	80.2	77,200b	89,300
	38	64.8	79.3	71,800b	82,900
	40	63.3	78.3	67,200b	77,400
	45	59.2	75.5	57,600	66,100
	50	54.9	72.3	50,300	57,600
	55	50.4	68.5	44,500	50,800
	60	45.6	64.0	39,800	45,400
	65	40.3	58.6	35,900	40,900
	70	34.4	52.1	32,600	37,200
	75	27.4	43.7	29,800	34,000
	80	18.2	31.8	27,400	31,200
90	18	81.1	95.8	210,200b	228,300•
	19	80.4	95.6	192,400b	224,300•
	20	79.8	95.4	177,300b	216,300
	22	78.5	95.0	153,200b	184,300
	24	77.2	94.6	134,600b	160,400
	26	75.9	94.1	119,900b	141,800
	28	74.5	93.6	108,000b	127,000
	30	73.2	93.0	98,200b	114,800
	32	71.9	92.4	89,900b	104,700
	34	70.5	91.7	82,800b	96,200
	36	69.2	91.0	76,700b	88,900
	38	67.8	90.2	71,400b	82,500
	40	66.4	89.3	66,800	77,000
	45	62.9	87.0	57,200	65,700
	50	59.3	84.2	49,900	57,200
	55	55.5	81.0	44,100	50,400
	60	51.5	77.3	39,400	45,000
	65	47.3	73.0	35,500	40,500
	70	42.8	68.0	32,200	36,700
	75	37.9	62.2	29,400	33,500
	80	32.4	55.1	27,000	30,800
	85	25.8	46.1	24,800	28,400
	90	17.1	33.4	23,000	26,300
100	19	81.4	105.7	192,500b	196,400•
	20	80.8	105.6	177,400b	193,300•
	22	79.6	105.2	153,200b	184,400
	24	78.5	104.8	134,700b	160,500
	26	77.3	104.4	120,000b	141,900
	28	76.1	103.9	108,100b	127,000
	30	74.9	103.4	98,200b	114,900
	32	73.7	102.9	89,900b	104,800
	34	72.5	102.2	82,900b	96,200
	36	71.3	101.6	76,800	88,900
	38	70.1	100.9	71,500	82,600
	40	68.9	100.1	66,800	77,000
	45	65.8	98.1	57,300	65,800
	50	62.6	95.6	49,900	57,200
	55	59.3	92.9	44,100	50,500
	60	55.9	89.7	39,400	45,000
	65	52.4	86.1	35,500	40,600
	70	48.7	82.0	32,200	36,800
	75	44.8	77.3	29,400	33,600
	80	40.5	71.8	27,000	30,800
	85	35.9	65.5	24,900	28,500
	90	30.7	57.9	23,000	26,400
	95	24.5	48.3	21,400	24,500
	100	16.3	34.9	19,900	22,800

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
110	22	80.6	115.4	152,900b	179,100•
	24	79.5	115.0	134,300b	160,200
	26	78.5	114.6	119,600b	141,600
	28	77.4	114.2	107,700b	126,700
	30	76.3	113.7	97,900b	114,600
	32	75.3	113.2	89,600b	104,500
	34	74.2	112.7	82,500	95,900
	36	73.1	112.1	76,400	88,600
	38	72.0	111.5	71,100	82,200
	40	70.9	110.8	66,400	76,700
	45	68.1	108.9	56,900	65,400
	50	65.3	106.8	49,500	56,800
	55	62.4	104.3	43,700	50,100
	60	59.4	101.5	39,000	44,700
	65	56.3	98.4	35,100	40,200
	70	53.1	94.9	31,800	36,400
	75	49.8	90.9	29,000	33,200
	80	46.3	86.4	26,600	30,400
	85	42.6	81.3	24,500	28,100
	90	38.6	75.4	22,600	25,900
	95	34.2	68.7	21,000	24,100
	100	29.2	60.6	19,500	22,400
	105	23.3	50.4	18,200	20,900
	110	15.5	36.2	17,000	19,600
120	22	81.4	125.5	152,600b	172,000•
	24	80.4	125.2	134,000b	159,900
	26	79.4	124.8	119,300b	141,300
	28	78.5	124.4	107,400b	126,400
	30	77.5	124.0	97,600b	114,300
	32	76.5	123.5	89,300	104,200
	34	75.5	123.0	82,200	95,600
	36	74.5	122.5	76,100	88,300
	38	73.5	121.9	70,800	81,900
	40	72.5	121.3	66,100	76,400
	45	70.0	119.6	56,500	65,100
	50	67.5	117.7	49,200	56,500
	55	64.8	115.5	43,400	49,800
	60	62.2	113.0	38,700	44,300
	65	59.4	110.2	34,800	39,800
	70	56.6	107.1	31,500	36,100
	75	53.7	103.6	28,700	32,900
	80	50.7	99.7	26,300	30,100
	85	47.5	95.4	24,100	27,700
	90	44.2	90.5	22,300	25,600
	95	40.7	85.1	20,600	23,700
	100	36.9	78.9	19,200	22,100
	105	32.7	71.7	17,800	20,600
	110	28.0	63.1	16,600	19,300
	115	22.3	52.5	15,600	18,000

LIFTCRANE CAPACITIES — MEETS ANSI B30.5 REQUIREMENTS — 3900W SERIES 2

BOOM NO. 9A WITH OPEN THROAT TOP
84,600 LB. COUNTERWEIGHT
360 DEGREE RATING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
130	24	81.2	135.3	133,500b	154,800•
	26	80.3	135.0	118,800b	140,800
	28	79.4	134.6	106,900b	126,000
	30	78.5	134.2	97,000	113,800
	32	77.6	133.8	88,700	103,700
	34	76.7	133.3	81,600	95,100
	36	75.7	132.9	75,500	87,700
	38	74.8	132.3	70,200	81,400
	40	73.9	131.8	65,500	75,800
	45	71.6	130.2	56,000	64,500
	50	69.3	128.4	48,600	56,000
	55	66.9	126.4	42,800	49,200
	60	64.5	124.2	38,100	43,800
	65	62.0	121.7	34,200	39,300
	70	59.5	118.9	30,900	35,500
	75	56.9	115.8	28,100	32,300
	80	54.2	112.3	25,600	29,500
	85	51.5	108.5	23,500	27,100
	90	48.6	104.3	21,700	25,000
	95	45.6	99.7	20,000	23,100
	100	42.4	94.5	18,600	21,500
	105	39.0	88.7	17,200	20,000
	110	35.4	82.1	16,000	18,600
	115	31.4	74.5	15,000	17,400
	120	26.8	65.5	14,000	16,300
	125	21.4	54.4	13,100	15,300
140	26	81.0	145.1	118,700b	136,000•
	28	80.1	144.8	106,700	125,800
	30	79.3	144.4	96,900	113,600
	32	78.5	144.0	88,600	103,500
	34	77.6	143.6	81,500	94,900
	36	76.8	143.1	75,400	87,600
	38	75.9	142.7	70,100	81,200
	40	75.1	142.1	65,400	75,700
	45	73.0	140.7	55,800	64,400
	50	70.8	139.1	48,500	55,800
	55	68.6	137.2	42,700	49,100
	60	66.4	135.2	37,900	43,600
	65	64.2	132.9	34,000	39,100
	70	61.9	130.3	30,700	35,300
	75	59.5	127.5	27,900	32,100
	80	57.1	124.4	25,500	29,400
	85	54.6	121.0	23,400	27,000
	90	52.1	117.3	21,500	24,900
	95	49.5	113.2	19,900	23,000
	100	46.7	108.8	18,400	21,300
	105	43.8	103.8	17,100	19,900
	110	40.8	98.3	15,900	18,500
	115	37.5	92.2	14,800	17,300
	120	34.0	85.2	13,800	16,200
	125	30.2	77.3	12,900	15,200
	130	25.8	67.9	12,100	14,200
	135	20.7	56.2	11,300	13,400
150	28	80.8	154.9	106,400	124,900•
	30	80.0	154.6	96,500	113,300
	32	79.2	154.2	88,200	103,200
	34	78.5	153.8	81,100	94,600
	36	77.7	153.4	75,000	87,200
	38	76.9	153.0	69,700	80,900
	40	76.1	152.5	65,000	75,300
	45	74.1	151.1	55,400	64,000
	50	72.1	149.6	48,100	55,400
	55	70.1	147.9	42,300	48,700
	60	68.1	146.0	37,500	43,200
	65	66.0	143.9	33,600	38,700
	70	63.9	141.6	30,300	35,000
	75	61.7	139.0	27,500	31,700
	80	59.6	136.2	25,100	29,000
	85	57.3	133.1	23,000	26,600
	90	55.0	129.8	21,100	24,500
	95	52.7	126.1	19,500	22,600
	100	50.2	122.1	18,000	20,900
	105	47.7	117.8	16,700	19,500

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
150	110	45.0	113.0	15,500	18,100
	115	42.3	107.7	14,400	16,900
	120	39.3	102.0	13,400	15,800
	125	36.2	95.5	12,500	14,800
	130	32.9	88.2	11,700	13,800
	135	29.2	79.9	10,900	13,000
	140	25.0	70.1	10,200	12,200
	145	19.9	58.0	9,500	11,400
160	28	81.4	165.0	106,100	118,500•
	30	80.6	164.7	96,200	113,000
	32	79.9	164.4	87,900	102,900
	34	79.2	164.0	80,800	94,300
	36	78.5	163.6	74,700	87,000
	38	77.7	163.2	69,400	80,600
	40	77.0	162.8	64,700	75,000
	45	75.2	161.5	55,100	63,700
	50	73.3	160.1	47,800	55,100
	55	71.4	158.5	42,000	48,400
	60	69.5	156.7	37,200	42,900
	65	67.6	154.8	33,300	38,400
	70	65.6	152.6	30,000	34,700
	75	63.7	150.2	27,200	31,400
	80	61.6	147.7	24,800	28,700
	85	59.6	144.8	22,700	26,300
	90	57.5	141.8	20,800	24,200
	95	55.3	138.5	19,200	22,300
	100	53.1	134.9	17,700	20,600
	105	50.9	130.9	16,400	19,100
	110	48.5	126.7	15,200	17,800
	115	46.1	122.1	14,100	16,600
	120	43.5	117.1	13,100	15,500
	125	40.9	111.5	12,200	14,400
	130	38.0	105.5	11,400	13,500
	135	35.0	98.7	10,600	12,700
	140	31.8	91.1	9,900	11,900
	145	28.2	82.5	9,200	11,100
	150	24.1	72.3	8,600	10,400
	155	19.3	59.8	8,000	9,800
170	30	81.2	174.9	95,800	109,600•
	32	80.5	174.5	87,500	102,500
	34	79.8	174.2	80,400	93,900
	36	79.2	173.8	74,300	86,600
	38	78.5	173.4	69,000	80,200
	40	77.8	173.0	64,300	74,600
	45	76.0	171.8	54,700	63,300
	50	74.3	170.5	47,400	54,700
	55	72.5	169.0	41,500	48,000
	60	70.8	167.4	36,800	42,500
	65	69.0	165.5	32,900	38,000
	70	67.2	163.5	29,600	34,200
	75	65.3	161.3	26,800	31,000
	80	63.4	158.9	24,300	28,200
	85	61.5	156.3	22,200	25,800
	90	59.6	153.5	20,400	23,700
	95	57.6	150.4	18,700	21,800
	100	55.6	147.2	17,200	20,200
	105	53.6	143.6	15,900	18,700
	110	51.4	139.8	14,700	17,300
	115	49.2	135.6	13,600	16,100
	120	47.0	131.1	12,600	15,000
	125	44.6	126.3	11,700	14,000
	130	42.2	121.0	10,900	13,100
	135	39.6	115.2	10,100	12,200
	140	36.9	108.9	9,400	11,400
	145	34.0	101.8	8,800	10,700
	150	30.8	93.9	8,100	10,000
	155	27.3	85.0	7,600	9,300
	160	23.4	74.4	7,000	8,700
	165	18.7	61.4	6,500	8,200

LIFTCRANE CAPACITIES — MEETS ANSI B30.5 REQUIREMENTS — 3900W SERIES 2

BOOM NO. 9A WITH OPEN THROAT TOP
84,600 LB. COUNTERWEIGHT
360 DEGREE RATING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
180	32	81.1	184.7	87,300	96,100•
	34	80.4	184.3	80,200	93,700
	36	79.8	184.0	74,100	86,300
	38	79.1	183.6	68,700	80,000
	40	78.5	183.2	64,100	74,400
	45	76.8	182.1	54,500	63,100
	50	75.2	180.9	47,100	54,500
	55	73.5	179.5	41,300	47,700
	60	71.9	177.9	36,600	42,300
	65	70.2	176.2	32,700	37,800
	70	68.5	174.3	29,400	34,000
	75	66.8	172.3	26,500	30,800
	80	65.0	170.0	24,100	28,000
	85	63.3	167.6	22,000	25,600
	90	61.5	165.0	20,100	23,500
	95	59.6	162.2	18,500	21,600
	100	57.8	159.1	17,000	20,000
	105	55.9	155.8	15,700	18,500
	110	53.9	152.3	14,500	17,100
	115	51.9	148.6	13,400	15,900
	120	49.9	144.5	12,400	14,800
	125	47.8	140.1	11,500	13,800
	130	45.6	135.4	10,700	12,800
	135	43.3	130.3	9,900	12,000
	140	40.9	124.8	9,200	11,200
	145	38.4	118.7	8,500	10,400
	150	35.8	112.1	7,900	9,800
	155	33.0	104.8	7,400	9,100
	160	29.9	96.7	6,800	8,500
	165	26.6	87.3	6,300	8,000
	170	22.7	76.5	5,800	7,400
	175	18.2	63.1	5,400	6,900
190	34	80.9	194.5	79,900	88,600•
	36	80.3	194.1	73,700	86,000
	38	79.7	193.8	68,400	79,700
	40	79.1	193.4	63,700	74,100
	45	77.5	192.4	54,100	62,800
	50	76.0	191.2	46,800	54,200
	55	74.4	189.9	40,900	47,400
	60	72.9	188.4	36,200	41,900
	65	71.3	186.8	32,300	37,400
	70	69.7	185.0	29,000	33,600
	75	68.1	183.1	26,200	30,400
	80	66.4	181.0	23,700	27,700
	85	64.8	178.7	21,600	25,200
	90	63.1	176.3	19,800	23,100
	95	61.4	173.6	18,100	21,300
	100	59.7	170.8	16,600	19,600
	105	57.9	167.8	15,300	18,100
	110	56.1	164.5	14,100	16,700
	115	54.3	161.1	13,000	15,500
	120	52.4	157.3	12,000	14,400
	125	50.4	153.3	11,100	13,400
	130	48.5	149.1	10,300	12,500
	135	46.4	144.5	9,500	11,600
	140	44.3	139.5	8,800	10,800
	145	42.1	134.2	8,200	10,100
	150	39.8	128.4	7,500	9,400
	155	37.4	122.2	7,000	8,700
	160	34.8	115.3	6,400	8,100
	165	32.1	107.7	5,900	7,600
	170	29.1	99.3	5,500	7,100
	175	25.8	89.7	5,000	6,600
	180	22.1	78.4	4,600	6,100
	185	17.7	64.6	4,200	5,700

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
200	34	81.4	204.6	79,700	82,500•
	36	80.8	204.3	73,600	81,700•
	38	80.2	203.9	68,200	79,500
	40	79.6	203.6	63,500	73,900
	45	78.2	202.6	54,000	62,600
	50	76.7	201.5	46,600	54,000
	55	75.2	200.2	40,800	47,200
	60	73.7	198.9	36,000	41,800
	65	72.2	197.3	32,100	37,200
	70	70.7	195.7	28,800	33,500
	75	69.2	193.8	26,000	30,200
	80	67.7	191.9	23,600	27,500
	85	66.1	189.7	21,400	25,100
	90	64.5	187.4	19,600	22,900
	95	62.9	185.0	17,900	21,100
	100	61.3	182.3	16,400	19,400
	105	59.7	179.5	15,100	17,900
	110	58.0	176.5	13,900	16,600
	115	56.3	173.2	12,800	15,300
	120	54.5	169.8	11,800	14,200
	125	52.8	166.1	10,900	13,200
	130	50.9	162.2	10,100	12,300
	135	49.1	158.0	9,300	11,400
	140	47.2	153.5	8,600	10,600
	145	45.2	148.7	8,000	9,900
	150	43.1	143.5	7,400	9,200
	155	41.0	138.0	6,800	8,600
	160	38.7	132.0	6,200	8,000
	165	36.4	125.5	5,700	7,400
	170	33.9	118.4	5,300	6,900
	175	31.2	110.6	4,800	6,400
	180	28.4	101.8	4,400	5,900
	185	25.2	91.9	4,000	5,500
	190	21.6	80.4	3,700	5,100
	195	17.3	66.2	3,300	4,700
210	36	81.2	214.4	73,100•	73,100•
	38	80.7	214.1	67,900	72,700•
	40	80.1	213.7	63,200	72,200•
	45	78.7	212.8	53,600	62,300
	50	77.3	211.8	46,200	53,600
	55	75.9	210.6	40,400	46,900
	60	74.5	209.2	35,600	41,400
	65	73.1	207.8	31,700	36,900
	70	71.7	206.2	28,400	33,100
	75	70.2	204.5	25,600	29,900
	80	68.8	202.6	23,200	27,100
	85	67.3	200.6	21,000	24,700
	90	65.8	198.4	19,200	22,600
	95	64.3	196.1	17,500	20,700
	100	62.8	193.6	16,000	19,000
	105	61.3	191.0	14,700	17,500
	110	59.7	188.1	13,500	16,200
	115	58.1	185.1	12,400	14,900
	120	56.5	181.9	11,400	13,800
	125	54.8	178.5	10,500	12,800
	130	53.1	174.9	9,700	11,900
	135	51.4	171.0	8,900	11,000
	140	49.6	166.9	8,200	10,200
	145	47.8	162.5	7,600	9,500
	150	46.0	157.8	6,900	8,800
	155	44.0	152.8	6,400	8,100
	160	42.0	147.4	5,800	7,500
	165	39.9	141.7	5,300	7,000
	170	37.8	135.5	4,900	6,500
	175	35.5	128.8	4,400	6,000
	180	33.1	121.4	4,000	5,500
	185	30.5	113.3	3,600	5,100
	190	27.7	104.3	3,200	4,700
	195	24.6	94.1		4,300
	200	21.0	82.2		3,900
	205	16.8	67.7		3,500

LIFTCRANE CAPACITIES — 3900W SERIES 2

MEETS ANSI B30.5 REQUIREMENTS

BOOM NO. 9A WITH OPEN THROAT TOP
84,600 LB. COUNTERWEIGHT
360 DEGREE RATING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
220	38	81.1	224.2	62,000•	62,000•
	40	80.6	223.9	61,700•	61,700•
	45	79.3	223.0	53,400	60,800•
	50	77.9	222.0	46,000	53,400
	55	76.6	220.9	40,200	46,600
	60	75.3	219.6	35,400	41,200
	65	73.9	218.2	31,500	36,700
	70	72.5	216.7	28,200	32,900
	75	71.2	215.1	25,400	29,700
	80	69.8	213.3	23,000	26,900
	85	68.4	211.4	20,800	24,500
	90	67.0	209.3	19,000	22,400
	95	65.6	207.2	17,300	20,500
	100	64.1	204.8	15,800	18,800
	105	62.7	202.3	14,500	17,300
	110	61.2	199.6	13,300	16,000
	115	59.7	196.8	12,200	14,700
	120	58.2	193.8	11,200	13,600
	125	56.6	190.6	10,300	12,600
	130	55.1	187.2	9,500	11,700
	135	53.5	183.6	8,700	10,800
	140	51.8	179.8	8,000	10,000
	145	50.1	175.7	7,400	9,300
	150	48.4	171.4	6,800	8,600
	155	46.7	166.9	6,200	8,000
	160	44.8	162.0	5,600	7,400
	165	43.0	156.8	5,100	6,800
	170	41.0	151.2	4,700	6,300
	175	39.0	145.3	4,200	5,800
	180	36.9	138.9	3,800	5,300
	185	34.6	131.9	3,400	4,900
	190	32.3	124.3	3,000	4,500
	195	29.8	116.0		4,100
	200	27.0	106.8		3,700
	205	24.0	96.3		3,300
	210	20.6	84.1		3,000
230	40	81.0	234.0	56,300•	56,300•
	45	79.7	233.2	53,000	55,400•
	50	78.5	232.2	45,700	53,100
	55	77.2	231.1	39,800	46,300
	60	75.9	229.9	35,100	40,800
	65	74.6	228.6	31,100	36,300
	70	73.3	227.2	27,800	32,500
	75	72.0	225.6	25,000	29,300
	80	70.7	223.9	22,600	26,500
	85	69.4	222.1	20,500	24,100
	90	68.0	220.2	18,600	22,000
	95	66.7	218.1	16,900	20,100
	100	65.3	215.9	15,500	18,400
	105	64.0	213.5	14,100	16,900
	110	62.6	211.0	12,900	15,600
	115	61.1	208.3	11,800	14,400
	120	59.7	205.5	10,900	13,300
	125	58.3	202.5	9,900	12,200
	130	56.8	199.3	9,100	11,300
	135	55.3	195.9	8,300	10,400
	140	53.8	192.3	7,600	9,600
	145	52.2	188.6	7,000	8,900
	150	50.6	184.6	6,400	8,200
	155	49.0	180.3	5,800	7,600
	160	47.3	175.9	5,300	7,000
	165	45.6	171.1	4,800	6,400
	170	43.8	166.1	4,300	5,900
	175	42.0	160.7	3,800	5,400
	180	40.1	154.9	3,400	4,900
	185	38.1	148.8	3,000	4,500
	190	36.0	142.1		4,100
	195	33.9	135.0		3,700
	200	31.6	127.2		3,300
	205	29.1	118.7		3,000

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
240	45	80.2	243.3	49,000•	49,000•
	50	78.9	242.4	45,300	48,200•
	55	77.7	241.4	39,500	46,000
	60	76.5	240.2	34,700	40,500
	65	75.3	239.0	30,800	36,000
	70	74.0	237.6	27,500	32,200
	75	72.8	236.1	24,700	28,900
	80	71.5	234.5	22,200	26,200
	85	70.3	232.8	20,100	23,800
	90	69.0	230.9	18,200	21,600
	95	67.7	228.9	16,600	19,800
	100	66.4	226.8	15,100	18,100
	105	65.1	224.6	13,800	16,600
	110	63.8	222.2	12,600	15,200
	115	62.5	219.6	11,500	14,000
	120	61.1	217.0	10,500	12,900
	125	59.7	214.1	9,600	11,900
	130	58.3	211.1	8,800	10,900
	135	56.9	207.9	8,000	10,100
	140	55.5	204.6	7,300	9,300
	145	54.0	201.1	6,600	8,500
	150	52.5	197.3	6,000	7,900
	155	51.0	193.4	5,400	7,200
	160	49.5	189.2	4,900	6,600
	165	47.9	184.8	4,400	6,100
	170	46.2	180.2	3,900	5,500
	175	44.6	175.3	3,500	5,000
	180	42.8	170.0	3,100	4,600
	185	41.0	164.5		4,100
	190	39.2	158.5		3,700
	195	37.3	152.2		3,300
	200	35.2	145.4		3,000
250	45	80.6	253.5	44,800•	44,800•
	50	79.4	252.6	44,000•	44,000•
	55	78.2	251.6	39,100	43,200•
	60	77.1	250.5	34,300	40,100
	65	75.9	249.3	30,400	35,600
	70	74.7	248.0	27,100	31,800
	75	73.5	246.6	24,300	28,600
	80	72.3	245.0	21,800	25,800
	85	71.1	243.4	19,700	23,400
	90	69.9	241.6	17,900	21,300
	95	68.7	239.7	16,200	19,400
	100	67.4	237.7	14,700	17,700
	105	66.2	235.5	13,400	16,200
	110	64.9	233.3	12,200	14,900
	115	63.6	230.9	11,100	13,600
	120	62.4	228.3	10,100	12,500
	125	61.1	225.6	9,200	11,500
	130	59.7	222.8	8,400	10,600
	135	58.4	219.8	7,600	9,700
	140	57.0	216.6	6,900	8,900
	145	55.7	213.3	6,200	8,100
	150	54.3	209.8	5,600	7,500
	155	52.8	206.1	5,000	6,800
	160	51.4	202.2	4,500	6,200
	165	49.9	198.1	4,000	5,700
	170	48.4	193.8	3,500	5,100
	175	46.8	189.2	3,100	4,600
	180	45.3	184.4		4,200
	185	43.6	179.3		3,700
	190	41.9	173.9		3,300

LIFTCRANE CAPACITIES — 3900W SERIES-2 CRAWLER

BOOM NO. 9 WITH OPEN THROAT TOP
USING 10', 20', AND 40' INSERTS
24'0" CRAWLERS — 84,600 LB. COUNTERWEIGHT

LIFTING CAPACITIES: Capacities for various boom lengths and operating radii may be based on per cent of tipping, strength of structural components, operating speeds and other factors.

Capacities are for freely suspended loads and do not exceed **75%** of a static load required to tip machine with boom across crawlers. Capacities indicated by **"B"** represent boom positions which, without load and with crawlers retracted, provide less than standard backward stability. Do not swing machine without boom when crawlers are retracted. Capacities based on structural competence are shown by shaded areas.

Capacities are shown in pounds. Weight of jib, (see chart A), all load blocks, hooks, weight ball, slings, hoist lines beneath boom and jib point sheaves, etc., is considered part of the main boom load. Boom is not to be lowered beyond radii where combined weights are greater than rated capacity. Where no capacity is shown, operation is not intended or approved.

OPERATING CONDITIONS: Machine to operate in level position on a firm surface with gantry in working position and under conditions referred to in rigging drawing No. 48782 and load line specification chart No. 5344.

Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, travel as well as adverse operating conditions or physical machine depreciation.

OPERATING RADIUS: Operating radius is the horizontal distance from the axis of rotation to the center of vertical hoist line or load block with the load freely suspended. Add 11" to boom point radius for radius of sheave when using single part hoist line.

Boom angle is the angle between horizontal and centerline of boom butt and inserts and is an indication of operating radius. In all cases, operating radius shall govern capacity.

BOOM POINT ELEVATION: Boom point elevation, in feet, is the vertical distance from ground level to centerline of boom point shaft.

MACHINE EQUIPMENT: Machine equipped with 24'0" extendible crawlers, 48" treads, 16' retractable gantry, 10 or 12 part boom hoist reeving, two 1½" pendants, 1st ctwt. 43,000 lbs., 2nd ctwt. 30,000 lbs., 3rd ctwt. 11,600 lbs. Total counterweight 84,600 pounds.

HOIST REEVING FOR MAIN LOAD BLOCK						
No. Parts of Line	1	2	3	4	5	6
Max. Load — Lbs.	25,800	51,600	77,400	103,200	129,000	154,800
No. Parts of Line	7	8	9	10	11	
Max. Load — Lbs.	180,600	206,400	232,200	258,000	280,000	

LOAD AND WHIP LINE SPECIFICATIONS
LOAD LINE: 1" — 6x25 Filler Wire, Extra Improved Plow Steel, Regular Lay, IWRC. Minimum Breaking Strength 51.7 Ton.
WHIP LINE: 1" — 6x25 Filler Wire, Improved Plow Steel, Regular Lay, IWRC. Minimum Breaking Strength 44.9 Ton. Maximum Load — 22,500 lbs. per Line.

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED					
OVER FRONT OF BLOCKED CRAWLERS			OVER SIDE OF EXTENDED CRAWLERS		
Bm. Lgth.	**Jib No. 123**	**Jib No. 124**	**Bm. Lgth.**	**Jib No. 123**	**Jib No. 124**
250'	—	—	230'	—	—
240'	30'	50'	220'	—	30'
230'	50'	60'	210'	40'	60'
220'	60'	60'	200'	60'	60'
OVER SIDE OF RETRACTED CRAWLERS			(A) DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED		
Bm. Lgth.	**Jib No. 123**	**Jib No. 124**	**Jib Lgth.**	**Jib No. 123**	**Jib No. 124**
220'	—	—	30'	2,500 lb.	1,800 lb.
210'	—	40'	40'	3,100 lb.	2,050 lb.
200'	40'	60'	50'	3,700 lb.	2,300 lb.
190'	60'	60'	60'	4,400 lb.	2,500 lb.
Load block, hook and weight ball on ground at start.					

For jib capacities, consult jib chart.

Boom Lgth.: Feet	Oper. Rad.: Feet	Bm. Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Retracted	Capacity: Crawlers Extended
60	15	79.4	65.8	280,000B	280,000
	16	78.5	65.6	258,400B	269,300
	17	77.5	65.4	232,500B	256,000
	18	76.5	65.2	211,300B	244,000
	19	75.5	64.9	193,600B	233,000
	20	74.5	64.7	178,500B	217,200
	22	72.5	64.1	154,400B	185,400
	24	70.5	63.4	135,900B	161,500
	26	68.5	62.7	121,200B	143,000
	28	66.4	61.8	109,400B	128,200
	30	64.3	60.9	99,500B	116,100
	32	62.2	59.9	91,300B	106,000
	34	60.0	58.8	84,200B	97,500
	36	57.8	57.6	78,100B	90,200
	38	55.5	56.3	72,800B	83,800
	40	53.1	54.9	68,200B	78,300
	45	46.9	50.7	58,700B	67,100
	50	39.9	45.4	51,300B	58,600
	55	31.8	38.5	45,600	51,800
	60	21.0	28.4	40,800	46,400
70	15	81.0	76.0	261,200B	261,200
	16	80.1	75.8	256,200B	256,200
	17	79.3	75.6	232,200B	251,500
	18	78.5	75.4	211,000B	243,200
	19	77.6	75.2	193,300B	232,200
	20	76.8	75.0	178,200B	217,000
	22	75.1	74.5	154,100B	185,100
	24	73.4	73.9	135,600B	161,200
	26	71.7	73.3	120,900B	142,700
	28	69.9	72.6	109,000B	127,900
	30	68.2	71.8	99,200B	115,800
	32	66.4	71.0	90,900B	105,700
	34	64.6	70.1	83,900B	97,100
	36	62.8	69.1	77,800B	89,800
	38	60.9	68.0	72,500B	83,500

Boom Lgth.: Feet	Oper. Rad.: Feet	Bm. Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Retracted	Capacity: Crawlers Extended
70	40	59.1	66.9	67,800B	78,000
	45	54.1	63.6	58,300B	66,700
	50	48.9	59.6	51,000	58,200
	55	43.2	54.8	45,200	51,500
	60	36.9	48.9	40,500	46,100
	65	29.4	41.2	36,600	41,600
	70	19.5	30.2	33,300	37,800
80	16	81.4	85.9	238,100B	238,100
	17	80.6	85.8	232,000B	233,800
	18	79.9	85.6	210,800B	229,700
	19	79.2	85.4	193,000B	225,800
	20	78.5	85.2	178,000B	216,800
	22	77.0	84.8	153,800B	184,900
	24	75.5	84.3	135,300B	161,000
	26	74.0	83.8	120,700B	142,500
	28	72.5	83.2	108,800B	127,700
	30	71.0	82.5	98,900B	115,500
	32	69.5	81.8	90,700B	105,400
	34	68.0	81.0	83,600B	96,900
	36	66.4	80.2	77,500B	89,600
	38	64.8	79.3	72,200B	83,300
	40	63.3	78.3	67,500B	77,700
	45	59.2	75.5	58,000	66,500
	50	54.9	72.3	50,700	57,900
	55	50.4	68.5	44,900	51,200
	60	45.6	64.0	40,200	45,800
	65	40.3	58.6	36,300	41,300
	70	34.4	52.1	33,000	37,600
	75	27.4	43.7	30,200	34,400
	80	18.2	31.8	27,800	31,600

Boom Lgth.: Feet	Oper. Rad.: Feet	Bm. Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Retracted	Capacity: Crawlers Extended
90	18	81.1	95.8	210,500B	214,100
	19	80.4	95.6	192,700B	210,600
	20	79.8	95.4	177,700B	207,200
	22	78.5	95.0	153,500B	184,700
	24	77.2	94.6	135,000B	160,700
	26	75.9	94.1	120,300B	142,200
	28	74.5	93.6	108,400B	127,300
	30	73.2	93.0	98,600B	115,200
	32	71.9	92.4	90,300B	105,100
	34	70.5	91.7	83,200B	96,600
	36	69.2	91.0	77,100B	89,200
	38	67.8	90.2	71,800B	82,900
	40	66.4	89.3	67,200	77,400
	45	62.9	87.0	57,600	66,100
	50	59.3	84.2	50,300	57,600
	55	55.5	81.0	44,500	50,800
	60	51.5	77.3	39,800	45,400
	65	47.3	73.0	35,900	40,900
	70	42.8	68.0	32,600	37,200
	75	37.9	62.2	29,800	34,000
	80	32.4	55.1	27,400	31,200
	85	25.8	46.1	25,300	28,800
	90	17.1	33.4	23,400	26,700

Capacities continued on reverse side.

SEE CONDITIONS ON REVERSE SIDE

Boom Lgth.: Feet	Oper. Rad.: Feet	Bm. Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Retracted	Capacity: Crawlers Extended
100	19	81.4	105.7	192,500B	196,100
	20	80.8	105.6	177,400B	193,100
	22	79.6	105.2	153,200B	184,400
	24	78.5	104.8	134,700B	160,500
	26	77.3	104.4	120,000B	141,900
	28	76.1	103.9	108,100B	127,100
	30	74.9	103.4	98,300B	114,900
	32	73.7	102.9	90,000B	104,800
	34	72.5	102.2	82,900B	96,300
	36	71.3	101.6	76,800	89,000
	38	70.1	100.9	71,500	82,600
	40	68.9	100.1	66,900	77,100
	45	65.8	98.1	57,300	65,800
	50	62.6	95.6	50,000	57,300
	55	59.3	92.9	44,200	50,500
	60	55.9	89.7	39,500	45,100
	65	52.4	86.1	35,600	40,600
	70	48.7	82.0	32,300	36,900
	75	44.8	77.3	29,500	33,700
	80	40.5	71.8	27,100	30,900
	85	35.9	65.5	25,000	28,500
	90	30.7	57.9	23,100	26,400
	95	24.5	48.3	21,500	24,600
	100	16.3	34.9	20,000	22,900
110	22	80.6	115.4	152,900B	174,700
	24	79.5	115.0	134,400B	160,200
	26	78.5	114.6	119,700B	141,600
	28	77.4	114.2	107,800B	126,800
	30	76.3	113.7	97,900B	114,600
	32	75.3	113.2	89,600B	104,500
	34	74.2	112.7	82,600	95,900
	36	73.1	112.1	76,500	88,600
	38	72.0	111.5	71,200	82,300
	40	70.9	110.8	66,500	76,700
	45	68.1	108.9	56,900	65,500
	50	65.3	106.8	49,600	56,900
	55	62.4	104.3	43,800	50,200
	60	59.4	101.5	39,100	44,700
	65	56.3	98.4	35,200	40,200
	70	53.1	94.9	31,900	36,500
	75	49.8	90.9	29,100	33,300
	80	46.3	86.4	26,700	30,500
	85	42.6	81.3	24,600	28,100
	90	38.6	75.4	22,700	26,000
	95	34.2	68.7	21,100	24,200
	100	29.2	60.6	19,600	22,500
	105	23.3	50.4	18,300	21,000
	110	15.5	36.2	17,100	19,700
120	22	81.4	125.5	152,900B	163,900
	24	80.4	125.2	134,300B	159,700
	26	79.4	124.8	119,600B	141,600
	28	78.5	124.4	107,700B	126,700
	30	77.5	124.0	97,900B	114,600
	32	76.5	123.5	89,600	104,500
	34	75.5	123.0	82,500	95,900
	36	74.5	122.5	76,400	88,600
	38	73.5	121.9	71,100	82,200
	40	72.5	121.3	66,400	76,700
	45	70.0	119.6	56,900	65,400
	50	67.5	117.7	49,600	56,900
	55	64.8	115.5	43,800	50,100
	60	62.2	113.0	39,000	44,700
	65	59.4	110.2	35,100	40,200
	70	56.6	107.1	31,800	36,400
	75	53.7	103.6	29,000	33,200
	80	50.7	99.7	26,600	30,500
	85	47.5	95.4	24,500	28,100
	90	44.2	90.5	22,600	26,000
	95	40.7	85.1	21,000	24,100
	100	36.9	78.9	19,500	22,400
	105	32.7	71.7	18,200	21,000
	110	28.0	63.1	17,000	19,600
	115	22.3	52.5	15,900	18,400
130	24	81.2	135.3	133,900B	148,700
	26	80.3	135.0	119,200B	141,200
	28	79.4	134.6	107,300B	126,300
	30	78.5	134.2	97,400	114,200
	32	77.6	133.8	89,200	104,100
	34	76.7	133.3	82,100	95,500
	36	75.7	132.9	76,000	88,200
	38	74.8	132.3	70,700	81,800
	40	73.9	131.8	66,000	76,200
	45	71.6	130.2	56,400	65,000
	50	69.3	128.4	49,100	56,400
	55	66.9	126.4	43,300	49,700
	60	64.5	124.2	38,600	44,200
	65	62.0	121.7	34,700	39,700
	70	59.5	118.9	31,400	36,000
	75	56.9	115.8	28,600	32,800
	80	54.2	112.3	26,100	30,000
	85	51.5	108.5	24,000	27,600
	90	48.6	104.3	22,200	25,500
	95	45.6	99.7	20,500	23,600
	100	42.4	94.5	19,000	22,000
	105	39.0	88.7	17,700	20,500
	110	35.4	82.1	16,500	19,100
	115	31.4	74.5	15,400	17,900
	120	26.8	65.5	14,500	16,800
	125	21.4	54.4	13,500	15,800
140	26	81.0	145.1	118,900B	136,200
	28	80.1	144.8	107,000	126,100
	30	79.3	144.4	97,100	113,900
	32	78.5	144.0	88,800	103,800
	34	77.6	143.6	81,800	95,200
	36	76.8	143.1	75,700	87,900
	38	75.9	142.7	70,300	81,500
	40	75.1	142.1	65,700	75,900
	45	73.0	140.7	56,100	64,700
	50	70.8	139.1	48,800	56,100
	55	68.6	137.2	42,900	49,300
	60	66.4	135.2	38,200	43,900
	65	64.2	132.9	34,300	39,400
	70	61.9	130.3	31,000	35,600
	75	59.5	127.5	28,200	32,400
	80	57.1	124.4	25,800	29,700
	85	54.6	121.0	23,700	27,300
	90	52.1	117.3	21,800	25,200
	95	49.5	113.2	20,200	23,300
	100	46.7	108.8	18,700	21,600
	105	43.8	103.8	17,400	20,100
	110	40.8	98.3	16,200	18,800
	115	37.5	92.2	15,100	17,600
	120	34.0	85.2	14,100	16,500
	125	30.2	77.3	13,200	15,400
	130	25.8	67.9	12,400	14,500
	135	20.7	56.2	11,600	13,700
150	28	80.8	154.9	106,600	124,000
	30	80.0	154.6	96,800	113,600
	32	79.2	154.2	88,500	103,400
	34	78.5	153.8	81,400	94,900
	36	77.7	153.4	75,300	87,500
	38	76.9	153.0	70,000	81,100
	40	76.1	152.5	65,300	75,600
	45	74.1	151.1	55,700	64,300
	50	72.1	149.6	48,400	55,700
	55	70.1	147.9	42,600	49,000
	60	68.1	146.0	37,800	43,500
	65	66.0	143.9	33,900	39,000
	70	63.9	141.6	30,600	35,200
	75	61.7	139.0	27,800	32,000
	80	59.6	136.2	25,400	29,300
	85	57.3	133.1	23,300	26,900
	90	55.0	129.8	21,400	24,800
	95	52.7	126.1	19,800	22,900
	100	50.2	122.1	18,300	21,200
	105	47.7	117.8	17,000	19,700
	110	45.0	113.0	15,800	18,400
	115	42.3	107.7	14,700	17,200
	120	39.3	102.0	13,700	16,100
	125	36.2	95.5	12,800	15,000
	130	32.9	88.2	12,000	14,100
	135	29.2	79.9	11,200	13,300
	140	25.0	70.1	10,500	12,500
	145	19.9	58.0	9,800	11,700
160	28	81.4	165.0	106,500	116,200
	30	80.6	164.7	96,600	113,400
	32	79.9	164.4	88,300	103,300
	34	79.2	164.0	81,300	94,700
	36	78.5	163.6	75,200	87,400
	38	77.7	163.2	69,800	81,000
	40	77.0	162.8	65,100	75,400
	45	75.2	161.5	55,600	64,200
	50	73.3	160.1	48,200	55,600
	55	71.4	158.5	42,400	48,800
	60	69.5	156.7	37,700	43,400
	65	67.6	154.8	33,800	38,900
	70	65.6	152.6	30,500	35,100
	75	63.7	150.2	27,700	31,900
	80	61.6	147.7	25,300	29,100
	85	59.6	144.8	23,100	26,700
	90	57.5	141.8	21,300	24,600
	95	55.3	138.5	19,600	22,800
	100	53.1	134.9	18,200	21,100
	105	50.9	130.9	16,800	19,600
	110	48.5	126.7	15,600	18,300
	115	46.1	122.1	14,600	17,000
	120	43.5	117.1	13,600	15,900
	125	40.9	111.5	12,700	14,900
	130	38.0	105.5	11,800	14,000
	135	35.0	98.7	11,100	13,100
	140	31.8	91.1	10,400	12,300
	145	28.2	82.5	9,700	11,600
	150	24.1	72.3	9,100	10,900
	155	19.3	59.8	8,500	10,300
170	30	81.2	174.9	96,300	106,700
	32	80.5	174.5	88,000	103,000
	34	79.8	174.2	80,900	94,400
	36	79.2	173.8	74,800	87,100
	38	78.5	173.4	69,500	80,700
	40	77.8	173.0	64,800	75,100
	45	76.0	171.8	55,200	63,800
	50	74.3	170.5	47,900	55,200
	55	72.5	169.0	42,100	48,500
	60	70.8	167.4	37,300	43,000
	65	69.0	165.5	33,400	38,500
	70	67.2	163.5	30,100	34,700
	75	65.3	161.3	27,300	31,500
	80	63.4	158.9	24,900	28,800
	85	61.5	156.3	22,800	26,400
	90	59.6	153.5	20,900	24,300
	95	57.6	150.4	19,300	22,400
	100	55.6	147.2	17,800	20,700
	105	53.6	143.6	16,500	19,200
	110	51.4	139.8	15,300	17,900
	115	49.2	135.6	14,200	16,700
	120	47.0	131.1	13,200	15,600
	125	44.6	126.3	12,300	14,500
	130	42.2	121.0	11,400	13,600
	135	39.6	115.2	10,700	12,700
	140	36.9	108.9	10,000	11,900
	145	34.0	101.8	9,300	11,200
	150	30.8	93.9	8,700	10,500
	155	27.3	85.0	8,100	9,900
	160	23.4	74.4	7,600	9,300
	165	18.7	61.4	7,100	8,700
180	32	81.1	184.7	87,700	97,100
	34	80.4	184.3	80,600	94,100
	36	79.8	184.0	74,500	86,700
	38	79.1	183.6	69,200	80,400
	40	78.5	183.2	64,500	74,800
	45	76.8	182.1	54,900	63,500
	50	75.2	180.9	47,500	54,900
	55	73.5	179.5	41,700	48,100
	60	71.9	177.9	37,000	42,700
	65	70.2	176.2	33,100	38,200
	70	68.5	174.3	29,800	34,400
	75	66.8	172.3	27,000	31,200
	80	65.0	170.0	24,500	28,400
	85	63.3	167.6	22,400	26,000
	90	61.5	165.0	20,600	23,900
	95	59.6	162.2	18,900	22,000
	100	57.8	159.1	17,400	20,400
	105	55.9	155.8	16,100	18,900
	110	53.9	152.3	14,900	17,500
	115	51.9	148.6	13,800	16,300
	120	49.9	144.5	12,800	15,200
	125	47.8	140.1	11,900	14,200
	130	45.6	135.4	11,100	13,300
	135	43.3	130.3	10,300	12,400
	140	40.9	124.8	9,600	11,600
	145	38.4	118.7	9,000	10,900
	150	35.8	112.1	8,400	10,200
	155	33.0	104.8	7,800	9,500
	160	29.9	96.7	7,200	8,900
	165	26.6	87.3	6,700	8,400
	170	22.7	76.5	6,300	7,900
	175	18.2	63.1	5,800	7,400
190	34	80.9	194.5	80,200	89,100
	36	80.3	194.1	74,100	86,400
	38	79.7	193.8	68,800	80,000
	40	79.1	193.4	64,100	74,500
	45	77.5	192.4	54,500	63,200
	50	76.0	191.2	47,200	54,600
	55	74.4	189.9	41,400	47,800
	60	72.9	188.4	36,600	42,300
	65	71.3	186.8	32,700	37,800
	70	69.7	185.0	29,400	34,000
	75	68.1	183.1	26,600	30,800
	80	66.4	181.0	24,200	28,100
	85	64.8	178.7	22,000	25,700
	90	63.1	176.3	20,200	23,500
	95	61.4	173.6	18,500	21,700
	100	59.7	170.8	17,000	20,000
	105	57.9	167.8	15,700	18,500
	110	56.1	164.5	14,500	17,200
	115	54.3	161.1	13,400	15,900
	120	52.4	157.3	12,400	14,800
	125	50.4	153.3	11,500	13,800
	130	48.5	149.1	10,700	12,900
	135	46.4	144.5	9,900	12,000
	140	44.3	139.5	9,200	11,200
	145	42.1	134.2	8,600	10,500
	150	39.8	128.4	8,000	9,800
	155	37.4	122.2	7,400	9,200
	160	34.8	115.3	6,900	8,600
	165	32.1	107.7	6,400	8,000
	170	29.1	99.3	5,900	7,500
	175	25.8	89.7	5,400	7,000
	180	22.1	78.4	5,000	6,500
	185	17.7	64.6	4,600	6,100

Capacities continued on next page.

SEE CONDITIONS ON REVERSE SIDE

LIFTCRANE CAPACITIES — 3900W SERIES-2
BOOM NO. 9 WITH OPEN THROAT TOP
USING 10', 20' AND 40' INSERTS, CONT'D.

SEE CONDITIONS ON FRONT PAGE

Boom Lgth.: Feet	Oper. Rad.: Feet	Bm. Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Retracted	Capacity: Crawlers Extended
200	34	81.4	204.6	80,100	81,500
	36	80.8	204.3	73,900	81,000
	38	80.2	203.9	68,600	79,900
	40	79.6	203.6	63,900	74,300
	45	78.2	202.6	54,400	63,000
	50	76.7	201.5	47,000	54,400
	55	75.2	200.2	41,200	47,600
	60	73.7	198.9	36,400	42,100
	65	72.2	197.3	32,500	37,600
	70	70.7	195.7	29,200	33,900
	75	69.2	193.8	26,400	30,600
	80	67.7	191.9	24,000	27,900
	85	66.1	189.7	21,900	25,500
	90	64.5	187.4	20,000	23,400
	95	62.9	185.0	18,300	21,500
	100	61.3	182.3	16,900	19,800
	105	59.7	179.5	15,500	18,300
	110	58.0	176.5	14,300	17,000
	115	56.3	173.2	13,300	15,800
	120	54.5	169.8	12,300	14,600
	125	52.8	166.1	11,400	13,600
	130	50.9	162.2	10,500	12,700
	135	49.1	158.0	9,800	11,800
	140	47.2	153.5	9,100	11,000
	145	45.2	148.7	8,400	10,300
	150	43.1	143.5	7,800	9,600
	155	41.0	138.0	7,200	9,000
	160	38.7	132.0	6,700	8,400
	165	36.4	125.5	6,200	7,800
	170	33.9	118.4	5,700	7,300
	175	31.2	110.6	5,300	6,800
	180	28.4	101.8	4,800	6,300
	185	25.2	91.9	4,500	5,900
	190	21.6	80.4	4,100	5,500
	195	17.3	66.2	3,700	5,100
210	36	81.2	214.4	70,800	70,800
	38	80.7	214.1	68,300	70,400
	40	80.1	213.7	63,600	70,300
	45	78.7	212.8	54,000	62,600
	50	77.3	211.8	46,600	54,000
	55	75.9	210.6	40,800	47,300
	60	74.5	209.2	36,100	41,800
	65	73.1	207.8	32,200	37,300
	70	71.7	206.2	28,900	33,500
	75	70.2	204.5	26,000	30,300
	80	68.8	202.6	23,600	27,500
	85	67.3	200.6	21,500	25,100
	90	65.8	198.4	19,600	23,000
	95	64.3	196.1	18,000	21,100
	100	62.8	193.6	16,500	19,500
	105	61.3	191.0	15,200	18,000
	110	59.7	188.1	14,000	16,600
	115	58.1	185.1	12,900	15,400
	120	56.5	181.9	11,900	14,300
	125	54.8	178.5	11,000	13,300
	130	53.1	174.9	10,200	12,300
	135	51.4	171.0	9,400	11,500
	140	49.6	166.9	8,700	10,700
	145	47.8	162.5	8,000	9,900
	150	46.0	157.8	7,400	9,200
	155	44.0	152.8	6,800	8,600
	160	42.0	147.4	6,300	8,000
	165	39.9	141.7	5,800	7,400
	170	37.8	135.5	5,300	6,900
	175	35.5	128.8	4,900	6,400
	180	33.1	121.4	4,500	6,000
	185	30.5	113.3	4,100	5,500
	190	27.7	104.3	3,700	5,100
	195	24.6	94.1	3,400	4,700
	200	21.0	82.2	3,000	4,400

Boom Lgth.: Feet	Oper. Rad.: Feet	Bm. Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Retracted	Capacity: Crawlers Extended
220	38	81.1	224.2	63,500	63,500
	40	80.6	223.9	63,100	63,100
	45	79.3	223.0	53,700	62,300
	50	77.9	222.0	46,300	53,700
	55	76.6	220.9	40,500	46,900
	60	75.3	219.6	35,700	41,500
	65	73.9	218.2	31,800	37,000
	70	72.5	216.7	28,500	33,200
	75	71.2	215.1	25,700	30,000
	80	69.8	213.3	23,300	27,200
	85	68.4	211.4	21,100	24,800
	90	67.0	209.3	19,300	22,700
	95	65.6	207.2	17,600	20,800
	100	64.1	204.8	16,200	19,100
	105	62.7	202.3	14,800	17,600
	110	61.2	199.6	13,600	16,300
	115	59.7	196.8	12,500	15,100
	120	58.2	193.8	11,600	13,900
	125	56.6	190.6	10,600	12,900
	130	55.1	187.2	9,800	12,000
	135	53.5	183.6	9,000	11,100
	140	51.8	179.8	8,300	10,300
	145	50.1	175.7	7,700	9,600
	150	48.4	171.4	7,100	8,900
	155	46.7	166.9	6,500	8,300
	160	44.8	162.0	6,000	7,700
	165	43.0	156.8	5,500	7,100
	170	41.0	151.2	5,000	6,600
	175	39.0	145.3	4,500	6,100
	180	36.9	138.9	4,100	5,600
	185	34.6	131.9	3,700	5,200
	190	32.3	124.3	3,400	4,800
	195	29.8	116.0	3,000	4,400
	200	27.0	106.8		4,000
230	40	81.0	234.0	55,400	55,400
	45	79.7	233.2	53,300	54,800
	50	78.5	232.2	46,000	53,400
	55	77.2	231.1	40,100	46,600
	60	75.9	229.9	35,400	41,100
	65	74.6	228.6	31,500	36,600
	70	73.3	227.2	28,200	32,800
	75	72.0	225.6	25,300	29,600
	80	70.7	223.9	22,900	26,800
	85	69.4	222.1	20,800	24,400
	90	68.0	220.2	18,900	22,300
	95	66.7	218.1	17,300	20,400
	100	65.3	215.9	15,800	18,800
	105	64.0	213.5	14,400	17,300
	110	62.6	211.0	13,300	15,900
	115	61.1	208.3	12,200	14,700
	120	59.7	205.5	11,200	13,600
	125	58.3	202.5	10,300	12,500
	130	56.8	199.3	9,400	11,600
	135	55.3	195.9	8,700	10,700
	140	53.8	192.3	8,000	9,900
	145	52.2	188.6	7,300	9,200
	150	50.6	184.6	6,700	8,500
	155	49.0	180.3	6,100	7,900
	160	47.3	175.9	5,600	7,300
	165	45.6	171.1	5,100	6,700
	170	43.8	166.1	4,600	6,200
	175	42.0	160.7	4,200	5,700
	180	40.1	154.9	3,700	5,200
	185	38.1	148.8	3,300	4,800
	190	36.0	142.1	3,000	4,400
	195	33.9	135.0		4,000
	200	31.6	127.2		3,600

Boom Lgth.: Feet	Oper. Rad.: Feet	Bm. Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Retracted	Capacity: Crawlers Extended
240	45	80.2	243.3	49,000	49,000
	50	78.9	242.4	45,700	47,700
	55	77.7	241.4	39,900	46,400
	60	76.5	240.2	35,200	40,900
	65	75.3	239.0	31,200	36,400
	70	74.0	237.6	27,900	32,600
	75	72.8	236.1	25,100	29,400
	80	71.5	234.5	22,700	26,600
	85	70.3	232.8	20,600	24,200
	90	69.0	230.9	18,700	22,100
	95	67.7	228.9	17,000	20,200
	100	66.4	226.8	15,600	18,500
	105	65.1	224.6	14,200	17,000
	110	63.8	222.2	13,000	15,700
	115	62.5	219.6	12,000	14,500
	120	61.1	217.0	11,000	13,400
	125	59.7	214.1	10,100	12,300
	130	58.3	211.1	9,200	11,400
	135	56.9	207.9	8,500	10,500
	140	55.5	204.6	7,700	9,700
	145	54.0	201.1	7,100	9,000
	150	52.5	197.3	6,500	8,300
	155	51.0	193.4	5,900	7,700
	160	49.5	189.2	5,400	7,100
	165	47.9	184.8	4,900	6,500
	170	46.2	180.2	4,400	6,000
	175	44.6	175.3	3,900	5,500
	180	42.8	170.0	3,500	5,000
	185	41.0	164.5	3,100	4,600
	190	39.2	158.5		4,200
	195	37.3	152.2		3,800
	200	35.2	145.4		3,400
250	45	80.6	253.5	40,500	40,500
	50	79.4	252.6	39,400	39,400
	55	78.2	251.6	38,500	38,500
	60	77.1	250.5	34,800	37,800
	65	75.9	249.3	30,900	36,000
	70	74.7	248.0	27,600	32,300
	75	73.5	246.6	24,800	29,000
	80	72.3	245.0	22,300	26,300
	85	71.1	243.4	20,200	23,800
	90	69.9	241.6	18,300	21,700
	95	68.7	239.7	16,700	19,900
	100	67.4	237.7	15,200	18,200
	105	66.2	235.5	13,900	16,700
	110	64.9	233.3	12,700	15,300
	115	63.6	230.9	11,600	14,100
	120	62.4	228.3	10,600	13,000
	125	61.1	225.6	9,700	12,000
	130	59.7	222.8	8,900	11,000
	135	58.4	219.8	8,100	10,200
	140	57.0	216.6	7,400	9,400
	145	55.7	213.3	6,700	8,600
	150	54.3	209.8	6,100	8,000
	155	52.8	206.1	5,500	7,300
	160	51.4	202.2	5,000	6,700
	165	49.9	198.1	4,500	6,200
	170	48.4	193.8	4,000	5,600
	175	46.8	189.2	3,600	5,100
	180	45.3	184.4	3,200	4,700
	185	43.6	179.3		4,200
	190	41.9	173.9		3,500

Combined From Charts:

No. 6223-A	*6-22-77*
No. 6223-B	*6-22-77*
No. 5344	*6-24-77*
No. 5355	*6-20-77*

SEE CONDITIONS ON FRONT PAGE