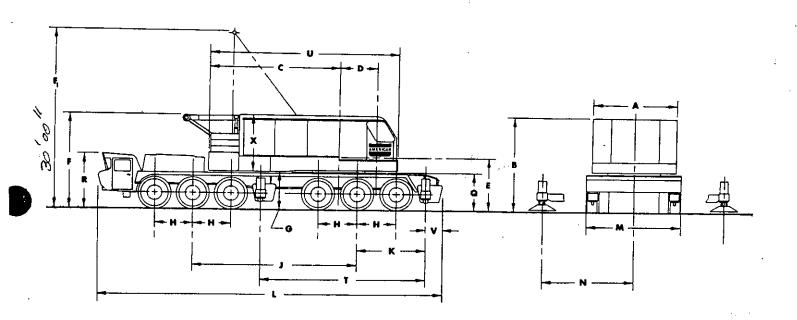




9530 CARRIER SPECIFICATIONS

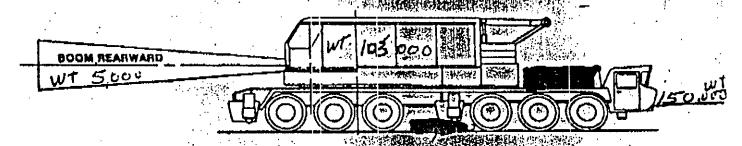


GENERAL DIMENSIONS

Α.	Width of Cab	L.	Overall Length of Carrier 47'7"
8.	Height to Top of Cab	M.	Overall Width of Carrier
C.	Tail Swing 17'7"	N.	Centerline of Carrier to Centerline
D.	Centerline of Rotation to Centerline of		of Outrigger
	Boom Foot	Q.	Top of Mounting Plate to Ground 5'3"
Ε.	Ground to Centerline of Boom Foot 7'7-3/4"	R.	Top of Carrier Cab to Ground
F.	Height Over A-Frame (Lowered) 13'6-1/2"	T.	Centerline Front Outrigger to Center Line
Fi	Height Over A-Frame (Raised)	o"	Rear Outrigger 22'5"
G.	Ground to Bottom of Counterweight 5'7"	U.	Rear of Counterweight to Front of Cab 25'9"
H.	Distance Between Axles 5'4"	V.	Centerline of Rear Outrigger to
1.	Centerline of Rotation to Centerline of		End of Carrier
	Rear Bogie 2'7-1/4"	Χ.	Bottom of Machinery Deck to Top of Cab 7'-10"
J.	Wheel Base		Turning Radius
K.	Centerline Rear Bogie to Centerline		Clearance Under Raised Outrigger Float 4-1/2"
	Rear Outrigger 9'4"		Clearance Under Equalizer Beam



"我是这**们生活,我们是这个**的是一个,我们就是一个 9530 TRAVELING



X = IN PLACE # REMOVED

Boom Rearwards

•	0 * REMOV	ED	大学 (1987年) 1987年 (1987年) 1
92" INNER BOOM	77" INNER BOOM	COUNTER- : FRONT OUT- WEIGHT RIGGER	REAR GROSS RIGGER TRIDEM TRIDEM WEIGHTS
0	Х	X	X 第137,750 第 第155,330 293,080
0	X	0 X	X 67,890 \$ \$135,200 203,090
0	Х	0	X 62,990 \$ 2131,100 194,090
0	×	0 4 5 X	0 71,680 凝 122,430 图 194,090 1
0	X	0 1450 0	0 68,760 第 118,330 第 185,090
X	. 0	X X	X 134,630 162,530 297,160
X	0	0 X	X 64,760 \$ 142,390 207,150
Tx	0	0 0	X 灣
X	0	0 \$2 (X)	0 5 68,530
X	0	0	0 \$ 63,640 \$ 125,520 189,160
0	0	X X	X 整 140,660
0	0	0 X	X 2 3 3 70,800
0	0	0 0	X 65,900 123,900 189,800
0	0	0 X	0 章 議 第74,570 章 图 115,230 章 189,800
0	0	0 0	0 69,670 111,130 180,800
\ \v.			100 man 2000年 - 1000 100 100 100 100 100 100 100 100

IMITED BY TIRE LOADS. icr - 104,150 165

upperworks wy bonift .- 103,000 165.

5,000 lbs

swung over the side or rear of the machine when the outriggers are not set, due

^{*}In all conditions, the weight distribution between the front and rest tridem is more equally balanced when the boom loot is



CRANE RATING DATA

Load ratings are in pounds and do not exceed 85% of the load which would cause tipping with crane standing level on firm uniformly supporting surface. Safe loads depend on ground conditions, boom length, radius of operation, and proper handling, all of which must be taken into consideration by user.

Tire inflation pressure for "Free Ratings" is 100 P.S.I. Free ratings do not exceed maximum permissible tire load. Tire pressure shall be reduced for over-the-road travel.

Approved working areas "Free Over Side" and "Free Over Flear" are shown under Diagram No. 1. Approved working areas "Outriggers Extended and Set Over Side or Rear" are shown under Diagram No. 2.

"Radius in feet" 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. The weight of the hoisting line has been deducted from these capacities. Retractable A-frame must be infully raised position for all ratings. Ratings in shaded areas are limited by strength of material or factors other than stability.

Main load line is 1-1/6 inch diameter with a minimum breaking strength of 130,000 pounds. Boom suspension line is 7/8 inch diameter with a minimum breaking strength of 79.600 pounds. Boom suspension pendants are 1-3/8 inch diameter with a minimum breaking strength of 211,000 pounds.

Boom and jib erection is over the rear of the machine with outriggers extended and set and with "Lift Rating" counterweight. A-frame must be fully raised and blocks, slings and other load carrying devices must be on the ground.

Compliance to B30.5 based on AMERICAN® carrier mounting.

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

LOAD HOISTING DATA*

Maximum Lifting Capacity - Lbs.	Min. Pts. of Line	Main (Rear) Drum With Controlled Load Lowering	Auxiliary (Front) Drum With Controlled Load Lowering
440,000	12	182	65
408,570	11	177	93
371,420	10	195	102
334,280	9	21 6	113
297.140	B	244	128
260,000	7	278	146
222,850	6	325	170
185,710	6 5	390	204
148,570	4	488	256
111,420	3	650	341
74,200	2	976	512
37.140	1 1	1952	1024

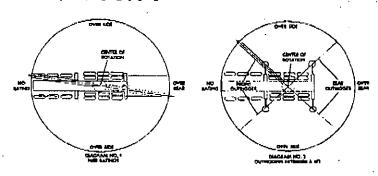
^{*}With 1-1/8 inch dia, rope on main drum and 1 inch dia, rope on aux, drum.

MAX BOOM AND JIB ERECTION WITH 90,000# CTWT.

77H Tubular Boom	No. 16 HL JIb
250' Hammerhead	100' No. 16 HL Jib
260' Hammerhead	80' No. 16 HL Jib
†260' Hammerhead	100' No. 16 HL Jib
290' Tapered Tip	100' No. 16 HL Jib

twith 10,000 lb front bumper counterweight and boom erection assistor.

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



77H HAMMERHEAD BOOM COMPOSITION

	Boom Length (In Feet)	30 Ft. 778 Inner	10 Ft. 778 Center	20 Ft. 77S Center	50 Ft. 77S Center	40 Ft. 77H Outer Base	Hammer- Head Tip
Ī	70'	1	_		_	1	1
1	80'	1	1	_		1	1
ı	90'	1	_	1	_	1	1 1
1	100'	1	1	1	_	1	1
1	110'	1	_	2	_	1	1
1	120'	1	_	-	1	1	1
١	13D'	1	1	_	1	1 1	1
1	140'	1	L -	1	1	1	1
1	150'	1	1	1	1	1 '	1 '
-	160'	1		2	1	1	1
1	170'	1	-	_	2	1	!
١	180'	1	1	 -	2	1 1	1
١	190'	1	-	1	2	1]] .
ı	200'	1 1	1	1 1	2] !	1
1	210'	1	-	2	2	1	!
	220'	1	-	-	3]	1
	230'	1	1	-	2 2 2 2 3 3 3 3 3 3 3	} }	
	240'] 1	-	1	3	1 !	1 1
	250'	1 1	1	1	3]]]
	260"	1		2	3	<u> </u>	1

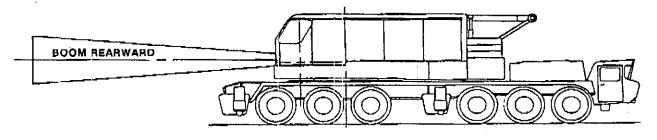
77H TAPERED TIP BOOM COMPOSITION

Boom Length In Feet)	30 Ft 77S Inner	10 Ft. 77S Center	20 Ft. 77S Center	50 Ft 77S Center	40 Ft. 77H Outer Base	30 Ft. 77H Tapered Tip
100' 110' 120' 130' 140' 150' 160' 170' 180' 200' 210' 220' 230' 240' 250' 260' 270' 280' 290'	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 - 1 - 1 - 1 - 1	1 1 2 - 1 1 2 - 1 1 2 - 1 1 2		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Page .



9530 TRAVELING WEIGHTS



BOOM REARWARD*

X = IN PLACE 0 = REMOVED

	0 - 111211101	- -					
92" INNER 800M	77" INNER BOOM	COUNTER- WEIGHT	FRONT OUT- RIGGER	REAR OUT- RIGGER	FRONT TRIDEM	REAR TRIDEM	GROSS WEIGHTS
0	X	Х	X	x	141,190	173,610	314,800
0	X	0	х	Х	71,350	153,450	224,800
0	X	0	0	X	63,060	146,470	209,530
0		0	*	0	77,820	131,700	209,520
0	X	0	0	0	69,540	124,720	194,260
X	0	X	X	X	137,920	181,150	319,070
x	0	0	Х	х	68,080	160,990	229,070
X	0	0	. 0	X	59,790	154,000	213,790
X	0	0	Х	0	74,560	139,240	213,800
X	0	0	0	0	66,270	132,260	198,530
0	0	X	X	X	144,100	166,410	301,510
0	0	0	X	х	74,260	146,250	220,510
0	0	0	0	X	65,970	139,270	205,240
0	1 0	0	X	0	80,730	124,500	205,230
0	0	0	0	0	72,450	117,520	189,970

NOTE: Because of variable manufacturing tolerances a variance of ±3% should be allowed on these weights.

SEE OPERATOR'S MANUAL FOR MAXIMUM MPH TRAVEL SPEED RESTRICTIONS AS LIMITED BY TIRE LOADS.

IMPORTANT

The full counterweight cannot be awang over the side or rear of the machine when the outriggers are not set, due to back

*In all conditions, the weight distribution between the front and rear tridem is more equally balanced when the boom foot is facing the rear of the carrier (boom rearward). Therefore, we have not charted the boom forward condition.



9530 GENERAL SPECIFICATIONS (Cont.)

CAB: Fully enclosed with glazed doors and windows; all safety glass windows mounted in rubber; removable windows in operator's cab; operator's compartment totally enclosed, shielding him from engine and machinery noise; door at rear of operator's compartment provides direct access to machinery; sliding doors on sides and rear; overhead window in operator's cab roof for unobstructed vision; ladder to roof at left front.

ATTACHMENTS:

GUY DERRICK ATTACHMENT: Increases load handling capacity to 600,000 pounds; modified 77" crane boom is fitted with 50 ft, mast tip with antifriction bearing guy cap and becomes guy derrick mast; derrick boom is 92" heavy duty with six sheave boom point; auxiliary holst drum becomes guy derrick boom hoist drum with special single lever control; main hoist drum is guy derrick load drum; included are required guide sheaves, boom suspension and 300 ton load tackle; 77" crane boom center sections and pendants are interchangeable in guy derrick mast; 92" crane boom sections are interchangeable in guy derrick boom; maximum mast height is 240 ft.; maximum boom length is 220 ft, with full 360° swing under the guy lines or up to 350 ft, with limited swing between guy lines.

container handling modification: Consists of an alteration to the main drum, lagging to permit reeving both load lines on the main hoist drum permitting the two load lines to spool evenly and run at the same line speed; a special double fall hammerhead permitting one load line to be reeved over the boom point through the crane block deadending on the machinery deck and the second load line to be reeved over the boom point through a second crane block deadending on the auxiliary drum; this line being used to raise or lower the second load block to equalize the load.

GENERAL:

CONTROLS: Graduated air controls, pioneered by AMERICAN, put "feel" at every operator's fingertips,

insure higher production, more accurate control; air line alcohol dispenser absorbs excess moisture in air system due to condensation. American has designed its control system to conform with ANSI code B30.5 requirements of standard control arrangement and control functions, which allows operators to easily shift from one machine to another.

MATERIALS: Gears and pinions are heat-treated alloy or high carbon steel; cut teeth on all gears except rotating ring gear which has accurately moulded teeth.

involute splines are used throughout machine for maximum tooth strength through minimum diameter where needed; self centering; equalized bearing and stresses among all teeth, smooth tooth surface; easy interchangeability of parts.

Anti-friction bearings are used on all constantly rotating 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 period lubrication are provided with pressure grease fittings; swing deck gears are provided with oil bath lubrication; drum gear train and the swing bullgear are arranged for grease lubrication.

PERFORMANCE:

Rated Swing Speed	2.28 rpm
Single Line Speed	
Main Holst Drum	186 FPM
Auxiliary Hoist Drum	189 FPM
Single Line Pull:	
Main Hoist Drum 40,00	0 lbs. SLP
Auxiliary Hoist Drum 30,00	0 lbs. SLP

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

CARRIER: For details and general dimensions see separate specification.

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

PRINTED IN U.S.A.

FORM NO. 9530-TGS-1

SOLD & SERVICED BY:



CONSTRUCTION EQUIPMENT GROUP 63 SO, ROBERT ST., ST. PAUL, MN 55107



AMERICAN HOIST & DERRICK COMPANY AN EQUAL OPPORTUNITY EMPLOYER



9530 CARRIER SPECIFICATIONS

CARRIER: SIx axle, 12 x 6 drive carrier with a gross vehicle weight (dynamic) rating of 270,000 lbs., 13 ft. wide over fenders with hydraulic outriggers retracted; 23'2-1/4" wheelbase; 47' overall length.

FRAME: Triple box fabricated design, manufactured from high tensile strength steel 100,000 lb. yield; alloy cast steel integral tooth bullgear with integral double tapered roller path is accurately located and welded to carrier frame; dropout hole is provided for removal of swing pinion; heavy duty front bumper; front and rear towing loops.

STANDARD ENGINE: GM. Diesel. Model 8V92TAC. 8 cylinder, 405 SAE BHP at 2100 RPM, 4.84" bore, 5" stroke, 736 cu. in. displacement; 1120 ft. ibs. torque at 1400 RPM; fuel injection; "Full-Flo" oil filter and oil cooler.

OPTIONAL ENGINE: Cummins diesel Model KT-450 six cylinder, 450 SAE BHP at 2100 RPM, 6-1/4" bore, 6-1/4" stroke, 1150 cu. in. displacement, 1350 ft. Ibs. torque at 1500 RPM, turbo-charged and aftercooled.

TRANSMISSION: Allison Powershift Model CLBT 5960, six speeds forward, one reverse fitted with single stage torque convertor ratio at stall 2.6:1. Cotta transfer box 1863C with ratio low 1.26 and high 1 has shift control located at the side of Carrier.

PROPEL SHAFTS: Mechanics 8LN and 9LN.

BRAKES: Bendix Westinghouse, internal expanding brake system on all wheels, two 12 cfm engine driven air compressors, four service reservoirs, spring set, air released parking and emergency brakes on three rear axies, two air reservoirs for release of spring set chambers, control lever mounted on dash panel, front brakes 20-1/4" x 5", reer brakes 20-1/4" x 7". Cummins engine has a single Cummins 30 cfm compressor.

RETARDER: Allison Hydro-Dynamic retarder brake fitted integrally into the power shift transmission to permit braking on long grades. Relarder offers 1200 ft. lbs. torque resistance at 2000 RPM, converter oil is radiator cooled through a GM two stage oil cooler in the engine.

FRONT AXLES: Rockwell FU-910 tubular tridem axle assembly, 90,000 lbs, total capacity, 129" track.

REAR AXLES: Clark BD 101000 planetary tridem assembly, 180,000 lbs. total capacity, 117" track, ratio 16.187:1. Fitted with heavy-duty carrier assembly in front rear axle to accommodate high through-drive torque converter conditions.

SUSPENSION: FRONT: Hendrickson tridem walking beam type solid mounted to frame and fitted with rubber bushed torque rods. REAR: Hendrickson tridem walking beam under-slung type; solid mounted; fitted with three tubular rubber bushed torque rods and cast steel hanger brackets.

STEERING: Ross TE-71 cam and lever gear; U-joint flex drive to column; 20" dia, steering wheel; self cancelling directional signal switch column mounted. Power steering with three independent Garrison rams mounted on axles; Vickers 25 gpm hydraulic pump direct coupled; hydraulic oil filter; flow control valve and pressure relief.

WHEELS: Dayton 25" spoke wheel assemblies mounted on front axles; rear wheels cast integrally with planetary hub assemblies. Rims 11.25, three piece demountable type.

FUEL SYSTEM: Fuel injection system; engine driven fuel pump; 150 gal. fuel tank; fuel filter engine mounted; large diameter suction and return lines, vents and 3" dia. filler neck with gauze filter.

TIRES: Eighteen 16.00 x 25-24 ply rating NDMS.

OPTIONAL TIRES: Michelin 1600 x 25 XRP two star.

CAB AND SHEET METAL: All steel full forward two man low profile cab; front and rear continuous fenders from #10 non-skid tread plate. Separate engine compartment; radiator grill; lock-up thood covers; rear air vents and side mounted tool and storage lockers.

ELECTRICAL: 12/24 volt system negative ground; 500 wattralternator with regulator; 24 volt starter; sealed beam dual headlights; front and rear directional signals; combination stop and tail lights; clearance lights on cab side and top; also on rear corners and on center decks; rotating amber flasher mounted on cab; cab dome light.

OUTRIGGERS: Front and rear hydraulic outriggers with 12" dia. vertical jacks operated from right and left hand consoles; 42" float assemblies; sliding beams to extend to a maximum of 11'5" from center of carrier to center line of hydraulic jack; overall width retracted with vertical jacks in place 13'0".

STANDARD EQUIPMENT: Bostrom Viking driver's seat: RH and LH West Coast mirrors with lights air windshield wipers; heater and defroster; hand throttle control; lock-up side mounted sling boxes; dry type "Cyclopac" engine air filters; front boom rest; four way flasher system; four alternating flashers on rear fenders, two rotating flashers on front; access step into cab, engine compartment and rear deck; tool kit comprising wheel wrench and bar, air chuck and pressure gauge, 50' air hose.

INSTRUMENTS: Indirectly lighted instrument panel with speedometer, engine oil pressure gauge, charge indicator, water temp. gauge, air pressure gauge, converter oil temp. gauge, engine tachometer, low air pressure warning, hi/low beam indicators, brake-lock and emergency air controls.

OPTIONAL FRONT BUMPER COUNTERWEIGHT: 10,000 lb., pin connected; required for maximum boom and jib erection.

PERFORMANCE:

Maximum governed speed (high-high): Minimum governed speed (low-low): Maximum gradeability based on torque converter	31 1.6	MPH (
stall (low-low): On Highway Off Highway		35% 28%

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



9530 GENERAL SPECIFICATIONS (cont.)

booms, is capable of holding the rated load indefinitely without attention from the operator, and will function under all conditions of brake temperature and lining wear, provided the brake mechanism receives proper adjustment.

AUXILIARY DRUM ASSEMBLY: Drum shaft is mounted on anti-friction bearings forward of main hoist drum; alloy cast iron friction drum with Integral brake and clutch surfaces is mounted in anti-friction bearings on the drum shaft; drum is skeleton type with full width split steel lagging bolted in place; drum has storage capacity of 1534 ft. of 1" dia. rope; dual, synchronized, air controlled clutches with tandem external contracting bands; dual, synchronized, external contracting band brakes with air assist; cooling flange on brake drums to dissipate heat, brake shafts and pins mounted on anti-friction bearings for positive, effortless response; brake and clutch surface stress relieved. Spring set, air released brake mechanism is similar to main drum brake.

CONTROLLED LOAD LOWERING FOR MAIN HOIST DRUM: Roller chain sprocket is bolt connected to drum lagging; heavy duty roller chain drives sprocket on auxiliary clutch shaft mounted below and between main and auxiliary drums; air operated internal expanding tandem band clutch; loads are lowered through overrunning friction torque of engine and converter; capable of lowering rated loads at stable speeds without brake assistance; included as standard equipment on main hoist drum; controlled load lowering is completely independent of all other operations.

CONTROLLED LOAD LOWERING FOR AUXILIARY HOIST DRUM: A second clutch and chain sprocket are mounted on auxiliary clutch shaft; lowering is controlled through roller chain driven from chain sprocket on auxiliary hoist drum; clutch and clutch shaft mounted on anti-friction bearings; loads are lowered through overrunning friction torque of engine and torque converter.

STANDARD BOOM: Pin connected deep section crane boom has chords of tubular T-1 steel and tubular lattice; boom is 77" cross section and can be extended to 290 ft.; the basic inner section is 30 ft. long; a 40 ft. long tapered intermediate section can be fitted either with a six sheave pin connected hammerhead or with a 30 ft. two sheave pin connected outer section: the hammerhead is for heavy lifts; the tapered outer section is for long boom operations and has a second sheave for an auxiliary load line or for occasional clamshell service; tapered tip is closed throat design, center sections are available in 10, 20 and 50 ft. lengths, pin connected; the maximum 290 ft. length is made up of three 50 ft. and two 20 ft. center sections; boom suspension arrangement consists of two double 1-3/8" diameter pendant suspension cables extending from the outer bail to the boom point; pendants are premium grade wire rope with swaged pendant fittings; pendants are added or removed for boom length changes; boom hoist line is 14 parts.

OPTIONAL 92" TUBULAR CHORD BOOM: Pin connected deep section crane boom has chords of tubular T-1 steel and tubular lattice; boom is 70 ft., 2 piece, 92" cross section, and can be extended to 260 ft., the basic Inner section is 30 ft. long; outer section is 40 ft. long with six 36" diameter sheaves mounted on anti-friction bearings in offset boom point; center sections are available in 10, 20, and 50 ft. lengths, boom suspension arrangement consists of two double 1-3/6" diameter pendant suspension cables extending from the outer ball to the boom point; pendants are premium grade wire rope with swaged pendant fittings, pendants are added or removed for boom length changes; boom sections and pendants are pin connected for quick, easy removal or replacement; boom hoist line is 14 parts. Maximum boom length can be increased to 350 ft. with the addition of lightweight 50 ft. transition section, 50 ft. tapered intermediate section, and 50 ft. 2-sheave tapered tip outer section. Boom suspension arrangement consists of two double 1-3/8" diameter pendant suspension cables, the lower set extending from the outer ball to approximately mid point on the boom and the upper set extending from the outer ball to the boom point.

BOOM STOPS: Telescoping tubular boom stops restrain the boom from overtopping in the event of hoist line or hoisting tackle failure; standard on all machines furnished with crane boom.

BOOM HOIST SHUT OFF: Automatically stops the boom hoist mechanism when the boom reaches a predetermined angle; the adjustable actuator arm, located near the base of the boom, simultaneously disengages the boom hoist clutch and sets the boom hoist brake when the boom reaches the pre-set high limit; standard on all machines sold with crane boom.

RETRACTABLE A-FRAME: Is raised or lowered by means of bail rigging with hydraulic cylinder assist from fully retracted position; standard on all machines.

JIB: Lightweight No. 16HL jib is constructed with T-1 tubular chords and tubular lattice; basic length is 40 ft. two piece; length extendable to 100 ft. maximum with 10 ft. and 20 ft. center sections; front stay and back stay lines are included on 77" boom.

Jib back stay ears are located on the 40 ft. outer base section; jib back stay length must equal or exceed jib length, for longer jibs the back stay line is attached at boom Inner section or optional ears on center boom section. On 92" boom jib back stay line is attached at boom inner section or on 50 ft. center sections which have back stay ears as standard equipment.



9530 GENERAL SPECIFICATIONS

UPPER MACHINERY:

ENGINE: Detroit Diesel (GM) 8V-71-N Model No. 7083-7000 diesel engine, eight cylinder, 4-1/4" bore, 5" stroke, 568 cu. in. displacement, net rated 268 h.p. (304 gröss h.p.) @ 2100 rpm converter input; Twin Disc three stage hydraulic torque converter; mechanical limiting speed engine governor with variable speed tail shaft governor; 24 volt electric starting.

POWER TRANSMISSION: Power is transmitted from angine to operating machinery by multiple strand roller chain, enclosed and running in oil.

FUEL TANK: 184 gallon capacity.

ROTATING MACHINERY BASE: Electric welded steel plate and alloy steel casting unit; tapered deep girder construction with integral walkways; accurate milling, boring and drilling with modern computer controlled machine tools using jigs and heavy duty fixtures insures proper alignment of machinery under the most severe operating conditions and provides accurate fit of replacement parts.

COUNTERWEIGHT:

Model	Typė Ci.Wi.	45,000s Bésic Casting	2,525# L.M. Corner Overley	0,950# Canter Overley	2,525k R.H. Center Overlay	Total Weight
9530	T-U-H-H		3	3	3	90.0004

After removal of the top layer (15,000 lbs) of overlays, the remaining 75,000 lbs of counterweight is removed, without assistance, through use of counterweight removal attachment; two cast alloy steel arms are pivoted from rear of machinery deck; alloy steel links suspend the counterweight from these arms and machined cast steel latches secure the arms; counterweight is further secured by two over-center locking arms; no bolts are employed; counterweight is lowered and raised by hydraulic cylinders.

LOAD AND HOOK ROLLERS: Tapered load rollers transmit downward loads to machined upper roller path on carrier; tapered hook rollers transmit uplift loads to lower path; two sets double equalizing antifriction bearing load rollers and two sets double equalizing bronze bushed hook rollers in front; two sets anti-friction bearings double equalizing hook rollers and two single bronze bushed load rollers in rear; hook rollers easily adjustable by eccentric hook roller axle.

DRIVE SHAFT ASSEMBLY: Independent primary drive shaft consists of alloy steel shaft with cut steel pinion and ductile iron roller chain sprocket with steel hub insert splined to shaft; shaft mounted in pressure grease lubricated anti-friction bearings. This shaft assembly has a single purpose of speed reduction and is not compromised by mounting clutches for other functions.

SWING ASSEMBLY: Variable displacement piston pump is direct driven off the front of the engine; two constant displacement piston motors are geared to

swing turntable through spur gear reduction; closed hydraulic circuit between pump motors; operator has direct control of the pressure exerted on the motors for swinging in either direction; swing motion is substantially independent of engine speed; swing brake on vertical swing shaft is spring set, air released; brake control valve on lever stand permits variable pressure from "released" to "set"; in addition, side motion of swing clutch lever applies variable air pressure to swing brake.

INDEPENDENT BOOM HOIST: Cast steel drum and integral cut steel spur gear operate on bronze bushings; boom hoist drum shaft is high carbon steel, mounted in bored holes in machinery base; auxiliary drum provided for take up of boom hoist line required for raising "A" frame and outer ball to working position; jaw clutch shifter with positive interlocks between main and auxiliary drums; spring set, air released locking pawl provided to hold boom during operation or when machine is standing idle; integral cut tooth spur gear and clutch ring are mounted on anti-friction bearings on clutch shaft; shaft is high carbon steel and operates in bronze bushings pressed into machinery deck; clutch spider and pinion splined to clutch shaft. Boom hoist clutch is air controlled, internal expanding band; cast alloy iron brake wheel is keyed to shaft to facilitate removal; brake is spring set and air released with single valve control for both hoisting and lowering.

CONTROLLING BOOM LOWERING: Boom lowering speed limited by speed of engine; rapid boom handling is possible; overrunning sprag clutch mechanism mounted on independent shaft engages positively and smoothly; disconnect provided for reversed gear operations; shifter inter-locked with boom brake to prevent "live boom."

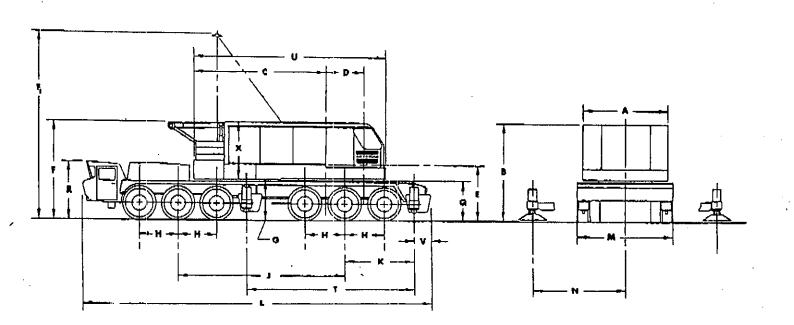
MAIN DRUM ASSEMBLY: Main hoist drum shaft is mounted on anti-friction bearings in machinery base; alloy cast iron friction drum with integral brake and clutch surfaces; drum mounted on anti-friction bearings; split steel lagging runs full width between friction drums for greater rope capacity; drum storage capacity is 2560 ft. of 1-1/8" dia. rope; dual, synchronized, air controlled clutches with tandem external contracting bands; dual synchronized brakes are large, external contracting bands with air assist, for smooth operation; extra thick moulded liners; raised cooling flanges on brake drums dissipate heat; brake and clutch surfaces are stress relieved for smooth operation without scoring; brake shafts and pins are mounted on antifriction bearings for responsive operation with minimum effort.

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 operations. This brake, furnished as standard equipment on all machines sold with crane





9530 CARRIER SPECIFICATIONS



GENERAL DIMENSIONS

Α.	Width of Cab 11'9"	L.	Overall Length of Carrier 47'7"
В.	Height to Top of Cab	М.	Overall Width of Carrier 13'
C.	Tail Swing 17'7"	N.	Centerline of Carrier to Centerline
D.	Centerline of Rotation to Centerline of		of Outrigger 11'6"
υ,	Boom Foot 5'0-3/4"	Q.	Top of Mounting Plate to Ground 5'3"
Ē.	Ground to Centerline of Boom Foot 7'7-3/4"	Ř.	Top of Carrier Cab to Ground
F.	Height Over A-Frame (Lowered) 13'6-1/2"	Т.	Centerline Front Outrigger to Center Line
F.	Height Over A-Frame (Raised) 29'3"		Rear Outrigger 22'5"
G.	Ground to Bottom of Counterweight 5'7"	U.	Rear of Counterweight to Front of Cab 25'9"
ы. Н.	Distance Between Axles	v.	Centerline of Rear Outrigger to
	Centerline of Rotation to Centerline of		End of Carrier 2'3"
١.	Rear Bogie 2'7-1/4"	įΧ.	Bottom of Machinery Deck to Top of Cab 7'-10"
J.	Wheel Base		Turning Radius 66'
K.	Centerline Rear Bogie to Centerline		Clearance Under Raised Outrigger Float 4-1/2"
• - •	Rear Outringer 9'4"		Clearance Under Equalizer Beam



601

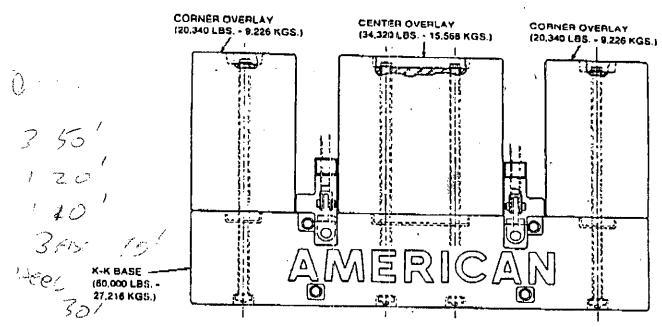
2 Pcs

American Crane Corporation Wilmington, North Carolina



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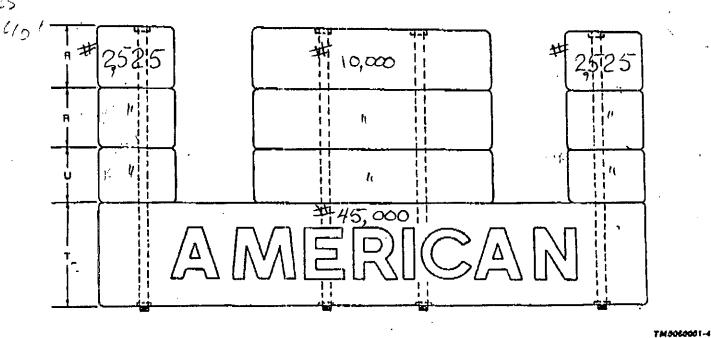
900 Series



TYPE "S-S" COUNTERWEIGHT 135,000 LBS. (61,236 KGS.)

TM0060001-3

TYPES "T-U-R" AND "T-U-R-R"



"T" Base weighs 44,000 lbs. (19,956 kgs.)
"U" Leyer weighs 15,500 lbs. (7,031 kgs.)
Each "R" layer weighs 15,500 lbs. (7,031 kgs.)

Printed in U.S.A. 7/75(R1-11/81)

TM:0050001

Page 823.1





LUBRICATION American Cranes

Lube Item #5 & #7: For enclosed gearing. Apply arctic (shaded column) or temperate lubricant (unshaded column), as conditions require.

1) Agma 5EP 3)	ndustry standards: ASTM Gr. 1000 Mil-L-2105 B/C	Must conform to industry standards: 1) Mil-L-2105C			
Manufacturer	Brand Name	Manufacture	Brand Name		
Amoco BP (British Petroleum) Chevron Citgo Conaco Exxon Fina Kendall Lubriplate Mobil Shell Texaco Whitmore	Permagear EP90 Energrease GG NL Gear Cmpnd 220 Citgo EP Compound Gear Oil 220 Spartan EP220 Giran 220 Super Three Star 80W/140 APG 90 Mobilube 46 SAE 90 Spirax 85W/140 Meropa 220 c17-HD	Amoco Conaco Emery Kendall Lubriplate Mobil Whitmore	Multi-Purpose Gear Lubricant No. 90 DN-600 Gear 011 Frigid-Go EP 75W-90 NS-MP 75W APG 80 SHC 629 17-HD		

Lube Item #6A: For open gears. Apply arctic (shaded column) or temperate lubricant (unshaded column), as conditions require.

Must conform to industry standards: 1) AGMA 15R 2) NLGI No. 2,3		Industry standards:
Manufacturer Brand Name	Manufacturer	Brand Name
Amoco Citgo Chevron Ch	Amoco Conaco Exxon Kendall Lubriplate Mobil Whirmore	Amono Polar Compound Polar Start DN-600 FRI Grease Beacon 325 Open Geat Compound SR-12X Low Temp Geat Shield RM TR 147 LGC Sub-zero
The above listed lubricants are for service in TEMPERATE climates, in ambient temperatures from 20°F to and 10°F (-7°C to 43°C).	service in ARCT	d lubricants are for IC climates, in tures from -45°F to 0°C).





LUBRICATION American Cranes

Lube Items #13: For railroad journal boxes, axle gear case bearings. Apply arctic (shaded column) or temperate lubricant (unshaded column), as conditions apply.

Manufacturer	Brand Name	Manufacturer	Brand Name
Amoco Getty Oil Gulf Shell Texaco Union	Superla AAR All-weather Car Oil Veedol Arvella 82 All Year Car Oil 35 All Year Car Oil 33 Engine Oil No. 30 Motoreze 40	Amoco Getty Oil Gulf Shell Texaco Union	Superia AAR All-Weather Car Oil Veedol Arvella 70 All Year Car Oil 35 All Year Car Oil 33 Engine Oil No. 206 Motoreze 20
service in TEMPE	lubricants are for RATE climates, in ures from 20°F to 3°C).	service in ARCT	tures from -45°F to ,

a service production of the second Lube Item #0: For special applications, such as low speed/medium-to-high load flexible gear couplings. Use where specified only. This light viscosity grease may be used in either temperate or arctic ambient temperatures, depending upon specific requirements for lubricant viscosity, adsorption and cohesiveness, as well as bearing load/speed conditions.

Manufacturer	Brand Name
Amoco Oil Company Chevron U.S.A., Inc. Exxon Company, USA Gulf Oil Company	Rykon Grease #0 EP Dura-Lith Grease EPO Lidok EP-O Gulfcrown Grease EP #0
Kendall Refining Co. Keystone Div. Pennwalt Corp. Mobil Oil Company Phillips Petroleum Co.	Kendall L-406 Grease Zeniplex #0 Mobilux EPO Philube EP-0
Shell Oil Company Standard Oil Co. (Ohio) Sun Oil Co. Texaco Oil Company Union Oil Co. (Calif.)	Alvania EP RO Bearing Gard LT-O Sun Prestige 740 EP Multifak EPO Union Unoba EPO

Printed in U.S.A.

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LUBRICATION CHECK LIST 900 SERIES CRANES

LUBRICATION CHECK LIST

ASSEMBLY	INTERVAL	DA'.	TE.	AND	LINI	IAL	OF	OILE	R
Crawler Drive Chains	40 Hrs.	<u> </u>	\Box			`			
Boom Clutch Pins	40 Hrs.								
Boom Gear Shifter Pins	40 Hrs.					<u> </u>	<u></u>	-	
Boom Hoist Dog	40 Hrs.	ń							
Swing Shaft Clutch Pins	40 Hrs.								
Shaft Bearing-Hydrostatic	40 Hrs.		\Box						
Swing Roller Brackets	40 Hrs.		\Box		اا			<u> </u>	
Vert. Swing Shaft Splines		ı	1		\ _ 			-	
& Jaw Clutch	40 Hrs.		\perp		<u></u>		1	1	<u> </u>
Swing-Travel Shifter	40 Hrs.						<u></u>	1	<u> </u>
Drive Shaft Sprocket				<u> </u>					
Bearings	40 Hrs.					<u></u>	1		1
Main Hoist Clutch Pins	40 Hrs.					<u> </u>	1	4	
Third Drum Clutch Pins	40 Hrs.					<u></u>	1	4	<u></u>
Aux. Shaft Clutch Pins	40 Hrs.						1		1
C. L. L. Sprockets	40 Hrs.								
Steering Shifter Pins and									
Shafts	40 Hrs.]						
Vert. Travel Shaft Splines									
& Jaw Clutch	40 Hrs.	}	\	· ·					
Bail, Jib and Boom Point	1			1					
Sheaves (Bearings)	40 Hrs.	` <u> </u>	_ 1	i	1				
Blocks & Hooks (Bearings)	40 Hrs.			<u> </u>					
Shaft Splines/Overrunning		'		<u> </u>			T-		
Shaft	40 Hrs.	`		<u></u>					
Inner Bail & A-Frame Axle	40 Hrs.								

ASSEMBLY	INTERVAL	DATE AND INIT	IAL OF OILER
Swing Brake	Monthly	į.	:
Boom Hoist Brake	Monthly		
Third Drum Brake	Monthly		
Main Hoist Brake	Monthly		
Main & Aux. Hoist Brake			
(Truck) - · ·	Monthly		

1 1 2 5 7 7 1	1.17 11 11		100 miles (100 miles)						
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Entre 17





HYDRAULIC SYSTEMS American Cranes

HYDRAULIC FLUID RECOMMENDATIONS

Figure 2 (a gear-type design) and Figure 3 (an axial-piston design with the pistons arranged parallel to the center shaft) show the types of pumps that are in widespread use in the majority of hydraulic systems. These designs do not require special fluids with higher viscosity at normal operating temperatures.

BCAUTION

WHICHEVER TYPE OF FLUID IS REQUIRED IN THE SYSTEM, IT IS EXTREMELY IMPORTANT FOR THE OPERATOR TO BE AWARE THAT NEGLIGENT DAMAGE TO EQUIPMENT CAN RESULT FROM OPERATION WITH COLD OIL, JUST AS IT CAN FROM OPERATION IN AN OVERHEATED CONDITION. FOR MAXIMUM SERVICE LIFE AND BEST RESULTS WITH WHATEVER BRAND OF HYDRAULIC FLUID IS USED, ALWAYS STAY WITHIN THE RECOMMENDED OPERATING TEMPERATURE LIMITS.

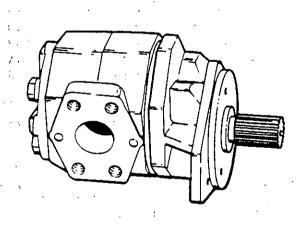


Figure 2

If duty cycling or other prolonged, repeated operation causes reservoir temperatures to exceed the recommended maximum, use a numerically higher ISO grade fluid, or change brands. To ensure adequate lubrication during start-up,

precautions such as tank heaters or heated enclosures should be used to warm oil to minimum start-up temperature, whenever required.

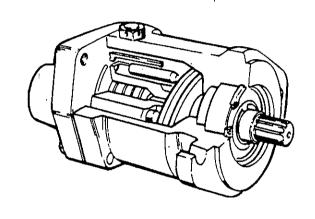


Figure 3

CAUTION

CONTAMINATED OR DIRTY OIL ACCOUNTS FOR THE LARGEST SHARE OF HYDRAULIC EQUIPMENT FAILURES. TO PREVENT, PREMATURE WEAR AND RESULTING SERVICE PROBLEMS, IT IS ESSENTIAL THAT ALL NEW HYDRAULIC FLUID BE PRE-FILTERED BEFORE BEING PUT INTO ANY AMERICAN CRANE MACHINE. IN TOO MANY CASES IT HAS BEEN FOUND THAT THE CONTAMINATION LEVEL OF NEW HYDRAULIC FLUID (AS RECEIVED) IS NOT ACCEPTABLE IN OUR HYDRAULIC SYSTEMS. IT IS RECOMMENDED THAT ALL FLUID BE PUMPED THROUGH A B₁₀=2 NON-BYPASS FILTER, BEFORE IT IS INTRODUCED INTO THE HYDRAULIC SYSTEM RESERVOIR.

NOTE: "BETA" values ro ratios for filtering media are derived from efficiency tests which compare the number of particles (of a given size X) upstream of the filter, against the number of particles downstream, according to





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HYDRAULIC SYSTEMS
American Cranes

HYDRAULIC FLUID RECOMMENDATIONS

ANSI spec B93.31-1973 and ISO DIS 4572. A filter with a B_{10} =2 rating is 50% efficient for 10 micron or larger particles.

Drums should be stored in a clean, dry location. Never allow water to collect around bungs— store all drums with the bungs down or horizontal, and clean around bungs throughly prior to opening.

All oils used must satisfy the following performance requirements.

1.) Specify Gravity - .84 to .90

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- 2.) Viscosity Index 90 or greater
- 3.) Anti-foam and Rust must pass ASTM standards D665 and D892. No foam allowable after 10 minutes.
- 4.) Fluid must meet military specification MIL-H-24459 including the following viscosity range:

· · · · · · · · · · · · · · · · · · ·	Axial Piston or Gear	Radial Piston
Start-up, SSU Max	7,500	48,000
Full Power	750	750
Full Power,	60	142



Page 416.2





HYDRAULIC SYSTEMS
American Cranes

TABLE OF APPROVED FLUID APPLICATIONS

		•••			
. :	• • •	TROPICAL	SUMMER	WINTER	ARCTIC
Minimum Reserve	oir Temperature -up Oil Temp Allowed)	60°F (15°C)	30°F (-1°C)	0°F (-18°C)	-30°F (-34°C)
	t Air Temperature	120°F (49°C)	н 90°F (32°C)	60°F (16°C)	30°F (-1°C)
	oir Temperature ial/Gear Equipment	200°F (93°C)	170°F (77°C)	140°F (60°C)	110°F (43°C)
	oir Temperature dial Piston Equipment	150°F (65°C)	140°F (60°C)	100°F (38°C)	70°F (21°C)
MAN UF ACT URE	R/BRAND NAME		TEMPERAT	URE/APPLICAT	ION
Autoline Su	per Blue Hyd. 011 32		i,	[**]	
			i ·	·	1

Autoline	Super Blue Hyd. 011 32			[**]	
Adtorne	Super Blue Hyd. 011 46		**	[**] [#]	ı
Van Alle	Super Blue Hyd. 011 68		** [+]	† 1	!!
-	Super Blue Hyd. 0il 100	**		,	1
-	Super Blue Hyd. Oil 150	** 0	10		ı
British	Energol HLP 32			[**]	1
Petroleum	Energol HLP 46		**		
	Energol HLP 68	**	# ** [⊕]	1	
·	Energol HLP 100	**	** •	, e f	1
	Energol HLP 150	** 9			_ 1
	Energol SHF 22			**	**
C 4	Energol SHF 32			**	
	Energol SHF 46		**	** 6	_ 1
V. 1.	Energol SHF 68	**	** [0]		
gran van van van series	Energol SHF 100	**	** •	.,	
Chevron	AW 32		v _.	**:	
j	AW 46		東 森		!
* ****	AW 68		** 6	, , , ,	,
Сопосо	Super Hyd. Oil 32			**	· - , ·
1	Super Hyd. 011 46		· **	,	1

KEY:

- ** APPROVED FOR GEAR/AXIAL PISTON EQUIPMENT --
- - APPROVED FOR RADIAL PISTON EQUIPMENT

11/09/11 17

[**] and [•]- APPROVED FOR USE ONLY IF MINIMUM ALLOWABLE (COLD START-UP)

RESERVOIR TEMPERATURE IS INCREASED BY 10°F [Summer conditions to 40°F (4°C), winter conditions to 10°F (-12°C), and arctic conditions to -20°F (-23°C)]. PREHEAT_WHEN REQUIRED.

Printedrim U.S.A. Combiner 1985 d338

r: Page 416.4-



American Crane Corporation

Wilmington, North Carolina



LUBRICATION American Cranes

MAINTENANCE

- Maintain oil level at one half full. (See illustration for location of oil ports.)
- Change oil every 6 months. 2.
- Flush clutch in the Spring and in the Fall of the year... when oil is changed.
- It is recommended that clutches which have been out of service or on machines being switched to booming operation be flushed to remove any wax or gum formation resulting from vaporization of the oil in the unit and reciled prior to committing the crane to operation.

FLUSHING PROCEDURE

- Drain clutch, then fill clutch 3/4 full with suitable mineral spirits, such as ESSO "Varsol No. 1" or Shell "Sol No. 340". Kerosene may be used as a substitute.
- Run clutch for 15-20 minutes to break up and dissolve oily residue which may have formed inside.
- Drain clutch completely and relubricate with any of the lubricants recommended on Page 230.

PREVENTATIVE MAINTENANCE

It is recommended that after two (2) years or five thousand hours (5,000) of machine operation, whichever comes first, this clutch be replaced. Contact the nearest American Crane distributor for all replacement clutch requirements.

CLUTCH RECONDITIONING SERVICE

Some clutches may be reconditioned by the manufacturer while others may not. Contact an American Crane distributor for information concerning clutch reconditioning services available. Reconditioned clutches carry a new clutch warranty.

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WARNING

Failure to strictly follow the maintenance procedures set forth herein may cause the boom to fall and impose a safety danger to personnel and property. The overunning clutch should be replaced every two years or 5,000 hours of machine use. Failure to follow proper lubrication and replacement procedures could affect any rights to warranty claims.

WARRANTY

The manufacturer of the clutch guarantees that its products will leave the factory in good condition. They warrant their products against defects in workmanship and material for a period of 365 days (1 year) after shipment. Adjustments under this warranty will be made only after completion of inspection of the part or product in manufacturer's factory. The manufacturer's liability under this warranty shall extend only to the replacement or correction of any defective part or product determined by inspection as not conforming to this warranty.

This warranty shall not apply to any product which shall have been repaired or altered without the manufacturer's knowledge and consent or operated or installed contrary to the manufacturer's instruction or subjected to misuse, improper maintenance or is damaged by accident or negligence. The first of the payer may to obtain a tile

This warranty is made in lieu of all warranties express or implied, including but not limited to warranties of merchantability or fitness for a particular purpose, and ; there are no other warranties that extend beyond this express warranty. 5.44

The manufacturer reserves the right to discontinue models or to change specifications at any time without notice. No discontinuance or change shall create any liability on the part of the manufacturer in respect to its products in the hands of its customers or products on order not incorporating such change even though delivered after any such change.

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NOTE: WAS A WOOD FOR THE These instructions cannot cover all details nor provide every possible contingency which may be met in installation, operation or maintenance. Should further information be needed, contact American Crane Corporation.

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10.00 TMO150002 Amenical Series Page 231



American Crane Corporation

Wilmington, North Carolina



LUBRICATION American Cranes

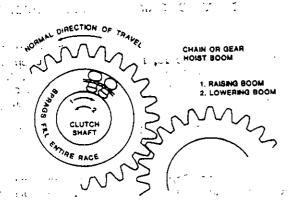
OVERRUNNING (SPRAG) CLUTCH

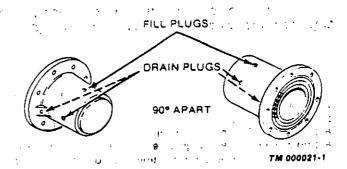
· Refer to your operator's manual for the location of the sprag clutch. This clutch is connected through a chain. , drive, or through gears, to the boom hoist drum.

(NOTE:)

1.5

The sprag clutch is a precision made product; it is very important to maintain and lubricate it properly. The clutch will then provide safe and excellent performance.





The drain plug may be located on the side of the barrel, or on the face of the housing.

IMPORTANT: Check the oil level every 30 days

Oils listed on the front of this page may be obtained in quarts by contacting the American, Crane Parts Department and ordering part number 1058094.

CAUTION: Improper lubrication maintenance may result in excessive wear. Follow maintenance instructions and check oil level every 30 days. Low oil level may prevent proper operation which could result in injury, death, or property damage.

REQUIREMENTS LUBRICATION

FOR TEMPERA (-) 40F (-40C) TC	ATURES FROM	
(*) 401 (*400) 10		
Chevron	Chevron Aviation	١.
· · · · · · · · · · · · · · · · · · ·	Hydraulic Fluid	١
	. Grade "A"	l
Shell Oil Co.	Aeroshell Fluid #4	
Mobil Oil Corp.	Aero HFA Oil	l
Exxon Oil Co.	Univis J-13	
The above oils are e specification MIL-H-	equivalent to military 5606 and can be	

obtained by contacting the nearest oil

company sales office.

THE USE OF ANY LUBRICANTS IN CLUTCH ASSEMBLIES, OTHER THAN THOSE SHOWN, CAN RESULT IN IMPROPER ENGAGEMENT. IMPROPER SPRAG ENGAGEMENT MAY CAUSE THE BOOM TO FALL RESULTING IN INJURY, DEATH OR PROPERTY DAMAGE.

WARNING

And the second

THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY CHANGES MADE BY THE MANUFAC-TURERS IN THEIR LUBRICANTS.

THE USE OF ANY LUBRICANTS, OTHER THAN THOSE LISTED AND/OR CONFORMING WITH MILITARY SPECIFICATIONS MIL-H-5606, WILL AUTOMATICALLY VOID ANY WARRANTY ON THE CLUTCH

IMPORTANT: Do not mix one brand of oil with another. They are not compatible. When switching from one brand to another, drain old oil and flush clutch before adding new oil. DO NOT ADD ANY EP OR SLIPPERY ADDITIVES TO ABOVE OILS.

> (OVER) TMO150002

Page 230

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DUTY CYCLE AND TRAVEL 900 SERIES CRANES

DUTY CYCLE AND TRAVEL

Different lubrication intervals are required for duty cycle work and operations in which the machine is continually under travel.

DUTY	CYCLE -	LUBRICATE	EVERY	FOUR	HOURS

Fairlead	Page 256
All Swing Rollers	Page 237
Center Pin Bushing	Page 236
Vertical Swing Shaft Lower Bushing	Page 236
Vertical Swing Shaft Upper Bushing	Page 238
Vertical Swing Shart Opper Danimet	U

TRAVEL - LUBRICATE EVERY 1/2 HOUR OR 1/2 MILE

Vertical Travel Shaft Bushings	Page 236, 244
Horizontal Travel Shaft Bushings	Page 244
	Page 245-246
Drive Tumblers	Page 245-246
Idler Tumblers	-, Page 245-246
Crawler Drive Sprocket Bushings	Page 245-246





LUBRICATION INTERVAL CHARTS 900 SERIES CRANES

LUBRICATION INTERVAL CHART (CONTINUED)

Daily	#2	Boom, Jib and Bail Sheaves	•	252
-		With Bushings		-
Daily	#2 ,	Positive Swing Lock Crawler	1	241.
	er en	. Cranes	ome of the second of the seco	
-		~	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	246
Weekly	#8 . ,		Coat	246
Weekly	#8,		Pins	,2,32 -
Weekly	#8	Boom Gear Shifter Pins	5 Places	232
Weekly	#2	Boom Hoist Dog	1, 2	233
Weekly	#8	Horizontal & Vertical Reverse	Pins	238
•••		Shaft Clutch Lever Pins	= 	
Weekly	#2_	Shaft Bearing-Hydrostatic	7 7 1	240 3
•)	Swing		
Weekly	#2 [†]	Swing Roller Brackets	4	237
Weekly	#8	Vertical Swing Shaft Splines	Oil Cup	238
च देश ते चित्रावर 	* *** *****	& Jaw Clutch		
Weekly	#8	Swing-Travel Shifter	Shaft	239
Weekly	#2 *	Drive Shaft Sprocket Bearings	2	220
Weekly	#8	Main Hoist Clutch Lever Pins	Pins	221
Weekly	#8 [:]	Third Drum Clutch Lever Pins	Pins	221
Weekly	#8 [*]	Auxiliary Shaft Clutch Lever		,
Weekly	πο	Pins	Pins	222
777 · -1_1	пэ	95 , *		
Weekly	#2 :)	Controlled Load Lowering	l Each	222
		Sprockets	f	
Weekly	#8	Steering Shifter Pins and		244
,		Shafts	r . 5	
Weekly	#8:	Vertical Travel Shaft Splines	Öil Cup	244
, ,	"2.	and Jaw Clutch		
Weekly	#2:	Bail, Jib and Boom Point		252
7171-1 ₋₁	шэ	Sheaves With Bearings Blocks & Hooks With Bearings	•	252
Weekly	#2 #8	Blocks & Hooks With Bearings		252
Weekly	#8	Shaft Splines On Overrunning	•	229
*** * * * *	"	Clutch Shaft	.9	266
Weekly	#2	Inner Bail and A-Frame Axle	`3	255
Monthly	#2	Thrust Nuts and Bearings on	• • • • • • • • • • • • • • • • • • •	
*************	u - ,	The Swing Brake	3	238
Monthly	#2·	Boom Hoist Brake Bearing	1	232
Monthly	#8	Third Drum Brake	Oil Shaft	224
Monthly	#0 #2	Main Hoist Brake Bearings	8	224
Monthly .	#2 #2	Main & Auxiliary Hoist	-	
MOHERTY .	π ⊆	Brake Bearings (Truck)	. 8	224





LUBRICATION 500/700/900/1100/1200 Series Cranes DH/DEH Locomotive Cranes

GENERAL LUBRICATION INFORMATION

In order to properly protect your machine and get the best performance and longest life out of it, schedules of lubrication and preventive maintenance must be adhered to. All lubrication and maintenance schedules are guidelines based upon normal work cycles under average working conditions. At any time that unusually tough working conditions and operation are encountered, maintenance and lubrication intervals must be shortened. Operating at extreme temperatures (hot or cold), under constant heavy load, operating intermittently, or operating in very dirty conditions consitute tougher than average working conditions and operation. Both service recommendations and actual working conditions must be taken into consideration to determine when the machine should be serviced.

Lubrication

1 11

Keeping your machine properly lubricated is the most effective way to prevent part failures and consequent costly repairs. The lubrication chart provided on page 210 shows the crane assemblies to be lubricated by interval. The pages following the chart illustrate the assemblies and their lubrication fittings.

The following information contains additional recommendations.

- a. Keep all lubricants and lubricating equipment clean and free of contamination both while in storage and while in use.
- b. Clean all grease fittings and surfaces before applying a grease gun. Dirt on fittings will be forced through along with clean grease, and will cause wear and premature material failures.
- c. Wipe off excess grease and other lubricants. Oily and greasy surfaces collect dirt which may work its way into moving parts and cause wear and failures.
- d. Avoid overgreasing. Excess lubricants will be thrown into clutches and brakes and will cause slipping.
- e. Always maintain a film of grease on exposed gears; however, avoid overgreasing (see "d" above and Lubrication Interval Chart).

IMPORTANT

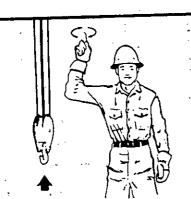
Under no circumstances may the recommended lubrication intervals be exceeded. Avoiding service intervals will be construed as negligence and will void the warranty on the machine.



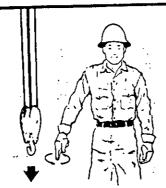


OPERATION AMERICAN® Cranes

Hand Signals



HOIST. With forearm vertical. forefinger pointing up, move hand in small horizontal circle.



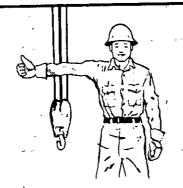
LOWER. With arm extended downward, forefinger pointing down, move hand in small horizontal circles:



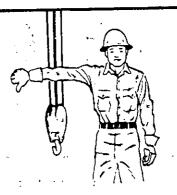
USE MAIN HOIST. Tap fist on head; then use regular signals.



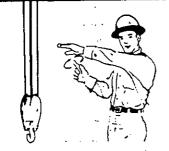
USE WHIPLINE (Auxiliary Hoist). Tap elbow with one hand; then use regular signals.



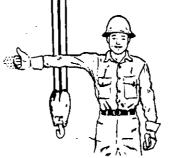
RAISE BOOM. Arm extended. fingers closed, thumb pointing upward.



LOWER BOOM. Arm extended. fingers closed, thumb pointing downward



MOVE SLOWLY. Use one hand to give any motion signal and place other hand motionless in front of hand giving the motion signal. (Hoist slowly shown as example.)



RAISE THE BOOM AND LOWER THE LOAD. With arm extended, thumb pointing up. flex fingers in and out as long as load movement is desired.



LOWER THE BOOM AND RAISE THE LOAD. With arm extended, thumb pointing down, flex fingers in and out as long as load movement is desired.

Hand Signals

TM 0000153

(OVER) TM 0000153





OPERATION All Series Cranes

E4.

COLD WEATHER OPERATION

The static load carrying characteristic of the steels used in our crane structures are not affected by cold temperatures. The impact and fatigue characteristics of these materials are affected, however, with the result that cyclic operations such as dragline, clamshell, magnet, backhoe, or concrete placing must be curtailed in extremely cold weather. Since some of our materials are more affected than others, this curtailment will vary depending upon the components used in the machine. For example, the T-1 steel crane booms have excellent cold weather characteristics and require no derating down to -30°F. Other components may require either reduced loading or insulation and heating provisions for low temperature cyclic operations.

During low temperature operation extreme care must be exercised to prevent shock loading during hoisting and lowering loads. Impacting results from sudden stops or quick engagement of clutches with machinery rotating at high speeds.

On the basis of studies and experience we do not reduce ratings for lift crane service in temperatures down to -30°F. The wire ropes used in lift crane work are subject to fatigue. Information received from wire rope manufacturers indicate that there should be no embrittlement at -30°F temperature, but rope lubrication may be a problem. Normal lubricants will become hard and chip off leaving the wires without lubrication. Special low temperature lubricants such as Texaco "#1973 Low-Temp" must be used on the wire rope and appropriate low temperature lubricants must be used throughout the crane.





OPERATION AMERICAN® Cranes

AVOIDING ROTATION OF SUSPENDED LOADS

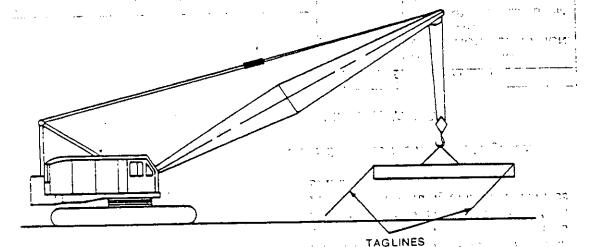
In order to prevent turning of the load lines, particularly when reeved with lesser parts of line, the swivel hook should be locked to the block by means of its locking pin. When the load must be swung, the swivel should not be locked in order that the load can be shifted into its designated drop position.

Load line spinning can be reduced in some cases by removing the load line from the drum and untwisting it until it is as straight as possible (5 to 10 turns) and reinstalling on the drum.

When lifting heavy or bulky loads it is recommended to attach taglines (ropes) to each side of the load to prevent its rotation.

-- WARNING

When using hand lines to guide or snub a load, do not wrap the line around any part of your body.



(CRAWLER CRANE SHOWN FOR REFERENCE ONLY).





OPERATION
500, 700, 900 & 1100 Series Cranes

TAILSHAFT AND ENGINE GOVERNOR OPERATION

Your crane may be equipped with both an engine governor and a tailshaft governor. These two governors are used to limit and control the maximum engine and torque converter output shaft speeds, which in turn controls drum speeds.

For crane or lifting work, set the tailshaft governor control in the wide open position. Set the engine governor control in its zero position. The operator now controls the engine speed up to maximum with the foot throttle. The engine governor control lever may be set at any position to keep the engine running at a desired speed. When it is not set at full speed, the foot throttle will still control the engine speed above the lever setting.

The tailshaft governor control will limit the engine speed as desired, and thus control maximum drum turning speed. With the tailshaft governor lever set below wide open, for example, the engine speed will be governed to less than full speed, even with the foot pedal fully depressed. This allows the operator to select and hold a desired drum speed below the maximum.

For high speed hook work disconnect the tail shaft governor. This will allow the engine to be operated at full governed speed, by the use of the foot throttle. In turn, the increased engine speed will increase the torque converter output. The drum shaft speed increases and the net result will be the ability to raise or lower a load more rapidly.

IMPORTANT

While doing high speed hook work, excessive heat build up developes in the torque converter, especially when lifting light loads. (HEAT BUILD UP VERY RAPID)! Check the torque converter temperature gauge located on the engine instrument panel, making sure the needle does not go into the red. If it does, slow the machine down to allow the oil in the torque converter to cool.





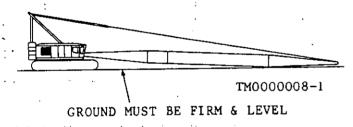
OPERATION ' American Cranes

RAISING AND LOWERING LONG BOOMS

With the increased length of booms on mobile cranes comes an increased need operating proper safe and The information in this procedures. writeup is generalized for long boom lengths on mobile cranes. Specific information on long boom lengths for your particular model crane may be found in your Operator's Manual.

The procedure for raising long booms is as follows:

The crane must be standing on firm and level ground. Familiarize yourself with the ground bearing pressure of your crane at MAXIMUM LOAD. Know the specified ground level limits of your machine.



2. Before raising or lowering the boom the outriggers must be set (truck cranes) or side frame tumblers must be blocked (crawler cranes--see "Blocking of Track Side Frames for Long Boom Erection" procedure in the installation Section of your Operator's Manual).

NOTE

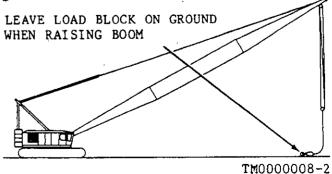
maximum boom or poom and A11 information supplied is based AMERICAN rating charts erecting the boom over the blocked end of the crawler side frames chains to the rear) or over the rear of the carrier on truck cranes.

- After the maximum allowable boom length is installed and while the boom is on the ground, carefully inspect the particular Pay boom for damage. attention to the outer base and taper tip lacings and chords. Bent lacings damaged chords can drastically reduce the structural strength of the boom. If any damage is discovered the appropriate boom sections must repaired or replaced before raising the boom (a lacing repair procedure can be found in the maintenance section of your Operator's Manual. A damaged chord member cannot be repaired.).
- Once the boom has been inspected and the crane appropriately stabilized, can raising procedure implemented unless the wind speed is greater than 20 mph (32 km/h). . The boom should be raised over the end of the machine.

CAUTION

LARGE WIND CATCHING SURFACES CAN RESULT IN LOSS OF CONTROL OF THE CRANE. WIND LOADING IS DEPENDENT ON SUCH FACTORS AS BOOM LENGTH, BOOM ANGLE AND DIRECTION AND SPEED OF THE WIND.

5. When raising the boom the load line should be payed out so that the load block remains on the ground until the boom is approximately 20 to 25 degrees above the ground. Do not stop booming during erection from ground until boom is at least 25 to 30 degrees above ground.



Printed in U.S.A. 1/00(R* 17/86) d20 (CONTINUED)

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DAILY START-UP PROCEDURE =500, 700, & 900 SERIES CRANES

PRE-START INSPECTION

Before starting the engine each day, it is important to inspect the machine to insure proper operating condition.

These levels must be correct:

Engine Oil
Engine Coolant
Transmission Fluid
Chain Case

Deck Gear Housing Center Bevel Gear Travel Case Formsprag Clutch Hydrostatic Swing Oil

Add the correct fluids as necessary to maintain recommended levels. Read the engine manual for suggested periodic maintenance.

The drain valves on the air reservoirs must be closed.

The engine air filter indicators must not show a need for change.

All lubrication requirements must be satisfied before operating. The lubrication section explains these requirements in detail.

The machine should carefully be checked for the condition and adjustment of the following items.

All Ropes and Sheaves
A-Frame
Engine Air Filter
All Pulleys and Belts
Radiator and Hoses
Compressor and Intake
Automatic Boom Hoist Shut Off

All Hoist Clutches and Brakes Drum Parking Brakes Swing Brake

Swing Brake Open Gears Boom Stops

Panel Lights and Instruments

Boom Lacings

Disengage the master clutch before starting the engine.

START-UP

Turn on the fuel solenoid toggle switch (when so equipped) located on the left cab wall. Set the throttle at 1/4 on and turn the starter switch. Do not crank the engine for more than 30 seconds at a time as starter motor damage could result. Should the engine fail to start within 30 seconds, allow the starting motor to rest for 1 or 2 minutes before cranking again.

Run the engine at 800 to 1000 RPM for a few minutes. As it warms up, run it at 75% of the rated speed until fully warmed up. Reduce the engine speed to idle and engage the master clutch. CAUTION: Only engage the master clutch at low engine RPM.

The correct operating air pressure will be 110 to 130 PSI (7.73 to 9.14kg/cm²) read on the console air pressure gage. Engine operating temperature for normal operation is between 160°F to 185°F (71°C to 85°C). Never allow the engine to operate at a temperature above 200°F (93°C).





TRUCK CRANE
TRAVEL RESTRICTIONS
AMERICAN® CRANES

TRAVEL RESTRICTIONS AROUND THE JOB SITE:

- A. Maximum job site travel speed is 5 MPH (8.05km/hr).
- B. Travel only with loads given in the ratings under "on rubber".
- C. Only travel on firm, level ground.
- D. The crane may travel with full counterweight. The boom should be over the rear only.

TRAVEL RESTRICTIONS OVER THE ROAD:

Depending upon weight restrictions, the crane may be traveled over the road in different configurations. See "Truck Crane Traveling Weights" for more information on specific models.

- A. With the boom inner and outer sections attached, travel with the boom over the carrier's rear. Load devices should be off.
- B. With only the boom inner section attached, suspend the boom a few inches above the carrier saddle and lash it in that position. Do not allow the boom to ride in contact with the saddle.
- C. Remove the counterweight for all over the road travel. Block the machinery deck to prevent the crane upperworks from rocking on its hook and load rollers.
- D. Set the swing brake and engage the spud lock when furnished.
- E. Lower the A-frame to allow bridge and underpass clearance.
- F. All truck crane carriers are governed to travel at only certain maximum speeds. WARNING: Attempting to exceed governed speeds may result in serious structural damage to the equipment.

TIRE PRESSURES

MODELS	STATIC & UP TO 1 MPH (0-1.61km/hr)	1-5 MPH (1.61- 8.05km/hr)	5-35 MPH (8.05- 56.32km/hr)	5-45 MPH (8.05- 72.41km/hr)	STATIC LIFTING
5460, 5470 5530, 7460	100 PSI (7.03kg/cm ²)	100 PSI (7.03kg/cm ²)		90 PSI (6.33kg/cm2)	100 PSI (7.03kg/cm²)
7530,8450	150 PSI (10.55kg/cm ²)	150 PSI (10.55kg/cm ²)		l15 PSI (8.09kg/cm²)	150 PSI (10,55kg/cm ²)
9520, 9530	100 PSI (7.03kg/cm²)	95 PSI (6.68kg/cm²)	70 PSI (4.92kg/cm ²)		100 PSI (7.03kg/cm ²)

*With Michelin tire G24Y 14:00 x 24, 4 steel ply





OPERATING INSTRUCTIONS
900 TRUCK CRANES

OPERATING INSTRUCTIONS (CONTINUED)

- 12. AIR PRESSURE GAGE
- 13. CRANE LEVEL
- 14. WINDSHIELD WIPERS

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- 15. AUXILIARY HOIST FOOT BRAKE
- 16. MAIN HOIST FOOT BRAKE
- 17. 0-300 PSI (0-21.09kg/cm²) GAGE

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CAUTION:

HYDROSTATIC SWING GAGE DO NOT OPERATE BELOW 30 PSI (2.11kg/cm²) IN-CREASE ENGINE RPM TO RAISE PRESSURE.





OPERATING INSTRUCTIONS 900 TRUCK CRANES

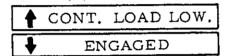
OPERATING INSTRUCTIONS

BOOM HOIST CLUTCH CONTROL

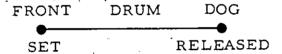
1	BOOM LOWER
	BOOM HOIST

(Power Boom Lowering)

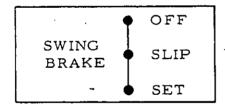
2 & 3. HOIST CLUTCH CONTROL 2=MAIN HOIST 3=AUXILIARY HOIST



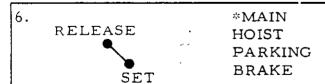
AUXILIARY HOIST DOG



SWING BRAKE

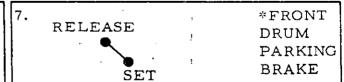


- MAIN HOIST PARKING BRAKE
- 7. AUXILIARY HOIST PARKING BRAKE



*FOOT PEDAL TO BE USED IN CON-JUNTION WITH PARKING BRAKE FOR PARKING WITH FULL LINE PULL.

BRAKE WILL SET AUTOMATICALLY IN CASE OF AIR LOSS.



*FOOT PEDAL TO BE USED IN CON-JUNTION WITH PARKING BRAKE FOR PARKING WITH FULL LINE PULL.

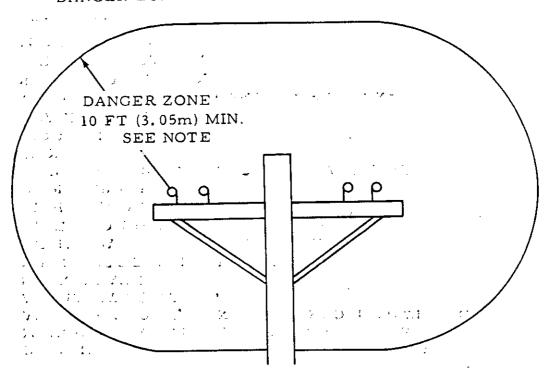
BRAKE WILL SET AUTOMATICALLY IN CASE OF AIR LOSS.





OPERATION
American Cranes

DANGER ZONE NEAR ELECTRICAL TRANSMISSION



WHEN OPERATING NEAR HIGH VOLTAGE POWER LINES:

NORMAL VOLTAGE	MINIMUM REQUIRED
(PHASE TO PHASE)	CLEARANCE
To 50 KV	10 Ft (3.05m)
Over 50 To 200 KV	. 15 Ft (4.60m)
Over 200 To 350 KV	20 Ft (6.10m)
Over 350 To 500 KV	25 Ft (7.62m)
Over 500 To 750 KV	35 Ft (10.67m)
Over 750 To 1,000 KV	45 Ft (13.72m)

WHILE IN TRANSIT WITH NO LOAD AND BOOM OR MAST LOWERED:

NORMAL VOLTAGE	MINIMUM REQUIRED
(PHASE TO PHASE)	CLEARANCE
To .75 KV	4 Ft (1.22m)
Over .75 To 50 KV	6 Ft (1.83m)
Over 50 To 345 KV	10 Ft (3.05m)
Over 345 To 750 KV	. 16 Ft.(4.87m)
Over 750 To 1,000 KV	20 Ft (6.10m)





OPERATION
All Series Cranes

ACCIDENT PREVENTION SIGNS

GENERAL INFORMATION:

Accident prevention signs are found in several locations on American cranes. They are color and format coded to convey 5 different types of messages. The first two of these five designs will be found on every American product that has been issued with accident prevention signs. The latter 3 types may or may not be found on a given machine, depending upon the safety requirements for that product. If any sign is lost or damaged, a replacement may be ordered from the Parts Book supplied with The correct mounting your machine. location for each sign can be found on a separate drawing in the Parts Book which is included for reference, so that the crane owner may be assured that all required safety information is properly posted at all times.

Accident prevention signs on your machine should be read, understood and complied with.

I. Signs marked "DANGER" are posted to warn anyone in the vicinity of the machine of an immediate hazard or peril capable of causing serious injuries or severe equipment damage. This sign may also be used to prohibit any activity or practice which is hazardous. The right half of each sign carries a graphic symbol inside a red circle identifying the type of hazard or prohibiting a specific activity. The sign shown in Figure 1, for example, warns of the danger present during assembly or disassembly of boom sections. A falling boom can cause serious injury to anyone standing on, in, or under a boom section. Booms can fall when pins are removed, if not properly supported by blocking, or if boom suspension ropes are not relocated as described in the operator's manual.

A DANGER

To avoid serious injury never allow anyone to stand on, in, or under boom sections during assembly or disassembly. Booms can fall when pins are removed if not properly supported by blocking, or if boom suspension ropes are not relocated as described in the operator's manual. Consult the operator's manual for proper assembly and disassembly procedures. In the absence of proper instructions consult your AMERICAN CRANE dealer or the factory.

Co not delete or remove this lebel from the machine. Order replacement labels from AMERICAN CRANE Service Dept. 207 RALEIGH Street, WILASHGTON, N.C. 28403

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Figure 1

Printed in U.S.A. 2/84 (R2-11/93)

(CONTINUED) TM0150017

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OPERATING TIPS 500, 700, 900 & 1100 SERIES

OBSERVATION OF THE FOLLOWING NOTES WILL HELP KEEP THE MACHINE OPERATING SAFELY AND EFFICIENTLY.

- Do not make any lifts without first becoming totally familiar with all the load lifting restrictions and regulations on page 3499 in the Ratings Section of this book.
- Never exceed the rated capacity of your machine. Rating charts are found on the cab wall of the crane. Radius in feet is the horizontal distance at the crane base level from the center of rotation to a vertical line through the center of gravity of the suspended load.
- Never make lifts while the machine is on soft ground. Use mats to properly 3. support the machine.
- Do not start or stop the engine with the master clutch engaged. 4.
- Do not engage the master clutch unless the engine is at an idle. Be sure 5. everything is in the clear and in neutral.
- Do not lift loads without first checking the brakes, clutches and rigging. 6. Wire rope should be replaced immediately if worn out or defective.
- After a machine has been standing in rainy weather, ride the brakes while 7. hoisting before handling a load to evaporate moisture.
- Do not allow a load to swing back and forth or in and out while traveling. 8. This may side load the boom or cause the crane to tip. Use taglines to steady the load.
- 9. Never drag a load sideways by swinging.
- Do not travel over rough ground with the boom high. Do not back up with 10. the boom high without being certain that the ground is firm, level, and free of obstructions.
- Do not travel long distances with the crawler drive chains ahead. 11.
- Keep clear of high voltage lines. See Page 106 for detailed restrictions 12.
- Block the crawlers when operating on steep slopes. Set the travel locks. 13. in both directions.
- Turning sharply on loose ground results in a large accumulation of dirt on 14. the crawler shoes and chains. Keep them free of dirt.

Printed in U.S.A. 677

(OVER)

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AMERICAN CRANE CORPORATION WILMINGTON, NORTH CAROLINA 28412

IMPORTANT LOAD LIFTING RESTRICTIONS & REGULATIONS

IMPORTANT LOAD LIFTING RESTRICTIONS AND REGULATIONS

Crawlers and Truck Cranes

WARNING

Study the following carefully.

Failure to observe any of the following limitations may result in serious structural or mechanical failure or accidents.

Ratings have been established by American Crane on the basis of sound engineering methods and testing procedures. The machine complies with applicable U. S. Industry standards for stability and material strength factors. These standards require operation within rated capacities and in accordance with goo operating practice, including the limitations shown on these pages and Page

DO NOT EXCEED THE RATING OF THE MACHINE. Lifting loads greater than those shown on the rating chart or operation at positions not shown CAN CAUSE STRUCTURAL FAILURE, TIPPING OR COLLAPSE OF THE BOOM OR CRANE.

- 1. All ratings apply only to machines as originally manufactured and equipped but include machines on which repairs or replacements have been made in accordance with original specifications. American Crane shall have no responsibility for machines or components on which replacements have been made with parts or spares not manufactured by American Crane, or on which any unauthorized changes have been made, or which are operated after damage which has not been repaired. The safe handling of loads with a crane depends on ground conditions, boom length and radius. These factors as well as many others must be taken into consideration by the operator.
- Ratings are based on the machine standing level on a firm, uniformly supporting surface. Level should be within 1/2% of true level and the supporting surface must be sufficiently firm to maintain this level under load. If the operating surface is not level, the crane should be

removed and the foundation leveled before making a lift. If the operating surface is not sufficiently firm and stable, crane mats should be used to reduce soil loadings. If operation is necessary under adverse conditions, contact American Crane for further information before attempting operation.

- 3. For operation of land-based cranes (truck, crawler or wagon mounted) from a barge or other floating platform the above listed level requirements must be maintained throughout the lift cycle. In addition, other factors such as securing the crane to the platform must be considered by the user. Contact American Crane for further information.
- 4. Under certain conditions cranes can be overturned without load. This can be prevented by observing the rating chart and avoiding been positions which show no load ratings.
- 5. The rating charts apply up to maximum wind speds as indicated in the table below. This table lists the maximum wind velocity for which ratings apply. These wind speeds refer to steady winds or gusts where the maximum wind speeds reached are the magnitudes stated. Velocities must be measured at a point equivalent to the highest boom or job elevation and should be taken at some location in close proximity to the crane. No account is taken of the wind force on the load. This effect, which is substantial for loads with large surface areas, must be considered by the user and ratings reduced accordingly. For more information contact American Crane.



AMERICAN CRANE CORPORATION WILMINGTON, NORTH CAROLINA 28412

IMPORTANT LOAD LIFTING RESTRICTIONS & REGULATIONS

WIND SPEED LIMITATIONS

BOOM SIZE	Boom or Boom Plus Jib	Operation	No operation. Lower boom to 50-60 degrees. Position rear of crane into wind.	Lower or secure boom
37"	0-140	0-30 mph	30-50 mph	Over 50 mon
	(0-42.3m)	(0-13.4 mps)	(13.4-22 mps)	(22,4 mps)
37"	Over 140	0-20 mph	20-30 mph	Over 30 mon
	(42.3m)	(0-8.9 mps)	(8.9-13.4 mps)	(13.4 mps)
46"-47"	Q-170°	0-30 mph	30-50 mph	Over 50 mon
	(Q-51.8m)	(0-13.4 mps)	(13.4-22.4 mps)	(22,4 mps)
46"-47"	Over170'	0-20 mph	20-30 mph	Over 30 mph
	(51.8m)	(0-8.9 mps)	(8.9-13.4 mps)	(13.4 mps)
58"-59"	0-220	0-30 mph	30-50 mph	Over 50 mph
<u>. </u>	(0-67.1m)	(0-13.4 mps)	(13.4-22.4 mps)	(22.4 mps)
58"-59"	Over 220	0-30 mph	20-30 mph	Over 30 mph
	(67.1m)	(0-8.9 mps)	(8.9-13.4 mps)	(13.4 mps)
77"	0-290	0-30 mph	30-50 mph	Over 50 mpn
	(0-88.4m)	(0-13.4 mps)	(13.4-22.4 mps)	(22.4 mps)
. 77"	Over 290'	0-20 mph	20-30 mph	Over 30 mph
	(88.4m)	(0-8.9 mps)	(8.9-13.4 mps)	(13.4 mps) ·
92"-94"-118"	0-360	0-30 mph	30-50 mph	Over 50 mph
	(0-109.8m)	(0-13.4 mps)	(13.4-22.4 mps)	(22.4 mps)
92"-94"-118"	Over 360	0-20 mph	20-30 mph	Over 30 mpn
. <u></u>	(109.8m)	(0-8.9 mps)	(8.9-13.4 mps)	(13.4 mps)
130"	0-400	0-30 mph	30-50 mpn	Over 50 mph
l	(0-122m)	(0-13.4 mps)	(13.4-22.4 mps)	(22.4 mps)
130"	Over 400	0-20 mph	20-30 mph	Over 30 mpn
	(1 22m)	(0-8.9 mps)	(8.9-13.4 mps)	(13.4 mps)

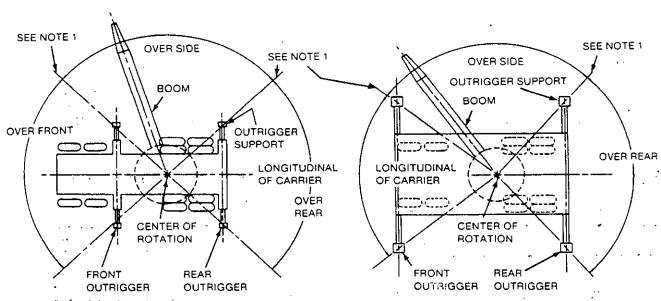
- 6. Crawier sideframes and truck or wagon crane outriggers must be fully extended and set to maximum width to obtain ratings listed for such on the chart. When operating in the "FREE" condition without outriggers on a truck or wagon crane, the boom must never be operated at radii for which no ratings are shown in the "Outriggers Free-Over The Side" area of the chart. Tires must be in good condition and properly inflated for operation. For truck cranes equipped with a front outrigger jack, the ratings designated "Outriggers Set-Over Side" can be used for 360 degree rotation.
- 7. Do not lift over the front of a truck crane either with or without outriggers. See diagrams on next page for definition of working areas with various types of cranes. If such a lift is unavoidable, consult American Crane for special instructions and suitably reduced ratings.
- 8. NEVER SIDELOAD THE BOOM. Such sideloading can cause structural failure or collapse. Always keep the boom point directly over the load to avoid sideloading. Operating the crane while out of level or in high winds as well as dragging a load sideways by swinging or pulling on a load while it is partially or fully attached to a structure are all causes of sideloading and must be avoided.

. 7 .

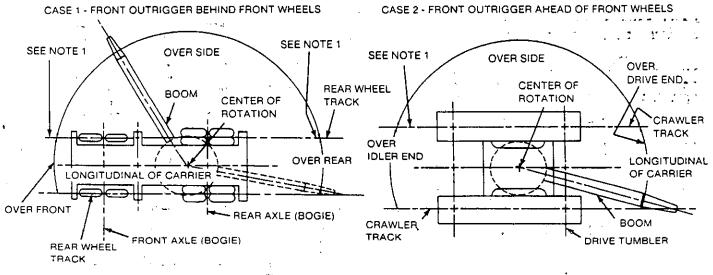




IMPORTANT LOAD LIFTING RESTRICTIONS & REGULATIONS



CARRIERS ON OUTRIGGERS



CARRIER ON TIRES

CRAWLER TYPE LOWER

WORKING AREA DEFINITIONS

NOTE 1

These lines determine the limiting position of any load for operation within working areas indicated.

Printed in U.S.A. 2/78(R1-3/84)

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#16HL Jib Ratings In Pounds Model 9530 Truck Crane 77H Hammerhead Tip Boom 90,000 Pound Counterweight

	······································					·	Counterweight
воом	JIB	5° JIB	OFFSET	15° JIE	OFFSET		OFFSET
& JIB	RADIUS [воом	RATINGS	BOOM	RATINGS	воом	RATINGS
LENGTH	(FEET)	ANGLE	(LBS)	ANGLE	(LBS)	ANGLE	(LBS)
	48	82.8	27,270*		i	`.	
·	50	82.4	27,110*		1	Ì	1
	60	80.5	26,680*	82.4	23,860*		
\	70	78.6	26,130*	80.5	23,560*	82.3	21,180*
	80	76.6	25,580*	78.5	23,240*	80.3	21,080*
}	90	74.7	25,040*	76.6	22,890*	78.3	20,880*
	100	72.7	24,570*	74.6	22,490*	76.3	20,290*
1	110	70.7	24,000*	72.5	22,130*	74.3	19,260*
60'	120	68.7	23,540*	70.5	21,780*	72.2	18,410*
JIB	130	66.6	21,720	68.4	21,460*	70.1	17,600*
&	140	64.5	18,840	66.3	18,850	68.0	16,910*
240'	150	62.3	16,390	64.2	16,400	65.8	16,240*
воом	160	60.2	14,260	62.0	14,270	63.6	14,280
	170	57.9	12,420	59.7	12,420	61.3	12,440
	180	55.6	10,780	57.4	10,790	58.9	10,800
1	190	53.3	9,340	55.0	9,350	56.5	9,360
	200	50.8	8,050	52.6	8,060	54.0	8,070
	210	48.3	6,900	50.0	6,910	51.4	6,920
	220	45.7	5,870	47.4	5,870	48.7	5,890
1	230	42.9	4,930	44.6	4,930	45.9	4,950
	240	40.0	4,070	41.6	4,080	42.9	4,100
	49	82.9	26,690*				
	50	82.7	26,660*				
Ì	60	80.8	26,200*	82.7	23,450*		
	70	79.0	25,720*	80.8	23,220*	82.6	20,720*
	80	77.1	25,140*	78.9	22,860*	80.6	20,580*
	90	75.2	24,680*	77.0	22,480*	78,7	20,300*
	100	73.3	24,070*	75.1	22,150*	76.8	19,390*
	110	71.3	23,580*1	73.1	21,760*	74.8	18,410*
601	120	69.4	23,010*	71.2	21,110*	72.8	17,390*
JIB	130	67.4	21,220	69.2	19,990*	70⊶8	16,400*
&	140	65.4	18,340	67.1	18,350	68.7	15,480*
250'	150	63.3	15,890	65.1	15,900	66.6	14,570*
воом	160	61.2	13,760	63.0	13,770	64.5	13,710*
	170	59.1	11,900	60.8	11,910	62.3	11,920
	180 `	56.9	10,280	58.6	10,280	60.1	10,300
1	190	54.7	8,830	56.4	8,840	57.8	8,850
	200	52.3	7,540	54.0	7,550	55.5	7,560
ļ	210	50.0	6,380	51.6	6,390	53.0	6,400
	220	47.5	5,350	49.1	5,350	50.5	5,370
	230	44.9	4,400	46.5	4,410	47.8	4,430
	240	42.2	3,550	43.8	3,560	45.0	3,580
1	250	39.3	2,780	40.9	2,790	42.0	2,800
60'	50	82.9	26,050*		1 - 2 - 2 : 2 :		1
JIB	60	81.1	25,630*	82.9	22,940*	020	19,840*
&	70	79.3	25,110*	81.1	22,600*	82.8	18,840*
260'	80	77.5	24,510*	79.3	22,300*	80.9	17,810*
BOOM	90	75.7	24,020*	77.4	21,790*	79.1	T. Joro
	1	<u></u>					

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#16HL Jib Ratings In Pounds Model 9530 Truck Crane 77H Hammerhead Tip Boom 90,000 Pound Counterweight

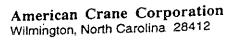
							<u> </u>	 1
	воом	JIB	5° JIB	OFFSET	15° JIB	OFFSET	25° JIB	
	JIB	RADIUS	воом	RATINGS	воом	RATINGS	воом	RATINGS
	ENGTH	(FEET)	ANGLE	(LBS)	ANGLE	(LBS)	ANGLE	(LBS)
		120	66.1	23,920*	68.2	22,160*	70.0	17,680*
		130	63.8	23,170	65.8	21,120*	67.7	16,890*
	60'	14G•	61.4	20,310	63.4	20,030*	65.2	16,190*
	JIB	150	59.0	17,850	60.9	17,860	62.7	15,540*
		160	56.4	15,740	58.4	15,740	60.1	14,990*
	210'	170	53.8	13,890	55.8	13,900	57.5	13,910
	воом	180	51.1	12,270	53.1	12,280	54.7	12,290
]	190	48.3	10,830	50.2	10,840	51.8	10,860
		200	45.4	9,550	47.3	9,560	48.8	9,570
İ	Ì	210	42.3	8,400	44.1	8,410	45.6	8,420
-		45	82.9	28,120*			3 4	: [
	Ì	50	81.9	27,810*			• •	
	· [60	79.8	27,240*	81.9	24,510*	0.60	i sulting or
	. [70	77.8	26,630*	79.8	24,080*	81.7	21,880*
	ì	. 80	75.7	26,120*	77.7	23,730*	79.6	21,670*
*		. 90	73.6	25,440*	75.6	23,330*	774	20,890*
1		100	71.4	24,960*	73.4	22,880*	75.3	19,790*
1	(0)	· 110	69.2	24,370*	71.2	22,530*	73.1	18,850*
l	60'	120	67.0	23,920*	69.0	22,180*	70.8	17,920*
1	JIB		64.8	22,710	66.8	21,550*	68.5	17,180*
	&	130	62.5	19,840	64.5	19,840	66.2	16,410*
1	220'	140		17,390	62.1	17,390	63.8	15,780*
}	воом	150	60.2		59.7	15,280	61.4	15,250*
1		160	57.8	15,270	57.2	13,420	58.9	13,440
}		170	55.3	13,420	54.7	11,800	56.3	11,810
ļ		180	52.8	11,790	52.0	10,360	53.5	10,380
1		190	50.1	10,350		9,080	50.7	9,090
	į	200	47.4	9,070	49.2	7,930	47.8	7,950`
1	•	210	44.5	7,930	46.3	6,890	44.6	6,910
ļ		220	41.5	6,890	43.3	0,050	1	
		46	83.0	27,760*	į .		, ,	و د ښه د
		50	82.2	27,570*	١	24,170*	!	1
1		60	80.2	26,960*	82.2	24,170	82.0	21,570*
-		70	78.2	26,430*	80.2	23,920*	80.0	21,410*
1		80	76.2	25,920*	78.1	23,530*	77.9	21,110*
1		90	74.1	25,300*	76.1	23,100*	•	20,060*
-		100	72.1	24,750*	74.0	22,740*	75.8	19,030*
	60¹.	110	70.0	24,290*	71.9	22,410*	73.7	19,030
1		120	67.9	23,780*	69.8	21,990*	71.5	18,180*
	JIB	130	65.7	22,210	67.6	21,690*	69.3	17,360*
ł	& 2201	140	63.5	19,330	65.4	19,340	67.1	16,690*
	230'		61.3	16,880	63.2	16,890	64.8	16,010*
ŀ	BOOM (150	59.0	14,770	60.9	14,770	62.5	14,790
1	•	160	56.7	12,910	58.5	12,920	60.1	12,930
- {		170	1	11,290	56.1	11,290	57.7	11,310
- 1		180	54.3		53.6	9,850	55.1	9,870
- {		190	51.8	9,850	51.0	8,560	52.5	8,580
1		200	49.2	8,560	48.3	7,420	49.7	7,440
- {		210	46.5	7,410	45.4	6,380	46.8	6,390
1	_	220	43.7		a contract the second second	+5-440	43.7	表5,460元
1	,	230	40.7	. 5,430	والفي حرف			

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#16HL Jib Ratings In Pounds Model 9530 Truck Crane 77H Hammerhead Tip Boom 90,000 Pound Counterweight

	TTP T	50 110	OFFSET	15° JIB	OFFSET		OFFSET
воом	JIB	BOOM	RATINGS	воом	RATINGS	воом	RATINGS
& JIB	RADIUS (FEET)	ANGLE	(LBS)	ANGLE	(LBS)	ANGLE	(LBS)
LENGTH	110	65.6	24,170*	67.9	22,310*	70.0	17,760*
(0)	120	62.9	23,580*	65.2	20,970*	67.3	16,880*
60'	130	60.2	23,040*	62.5	19,790*	64.5	16,130*
JIB	140	57.4	21,810	59.6	18,750*	61.6	15,410*
& 180'	150	54.5	19,370	56.7	17,840*	58.6	14,780*
	160	51.5	17,250	53.7	17,050*	55.6	14,280*
воом	170	48.4	15,420	50.5	15,420	52.3	13,770*
	180	45.0	13,800	47.2	13,810	48.9	13.380*
	42	82.8	28,950*				
	50	80.9	28,400*		. 1		1 . 1
	60	78.6	27,660*	80.9	24,920*		
		76.3	26,910*	78.6	24,420*	80.7	22,400*
	70	73.9	26,210*	76.2	23,990*	78.3	21,480*
	80		25,530*	73.8	23,500*	75.9	20,200*
60'	90	71.5		71.3	22,970*	73.4	19,080*
JIB	100	69.1	24,940*	68.8	22,530*	70.9	18,100*
&	110	66.6	24,360*		21,390*	68.3	17,150*
190'	120	64.1	23,720*	66.3	20,220*	65.6	16,400*
BOOM	130	61.5	23,250*	63.7	20,220	62.9	15,670*
	140	58.9	21,310	61.0	19,220*	60.1	15,050*
	150	56.1	18,870	58.3	18,260*		14,510*
	160	53.3	16,760	55.4	16,760	57.2	
	170	50.4	14,920	52.5	14,920	54.2	14,040*
	180	47.3	13,290	49.4	13,300	51.1	13,310
	190	44.1	11,860	46.1	11,870	47.7	11,880
	43	82.8	28,650*		1	1	
i	50	81.3	28,200*			1	\
. 1	60	79.1	27,590*	81.3	24,860*		22,270*
	70	76.8	26,910*	79.0	24,350*	81.1	22,270
	80	74.5	26,230*	76.7	23,860*	78.8	21,790*
Į	90	72.3	25,570*	74.4	23,450*	76.4	20,430*
60:	100	69.9	24,950*	72.1	23,050*	74.1	19,300*
60'	110	67.6	24,410*	69.7	22,630*	71.7	18,290*
JIB		65.2	23,820*	67.3	21,950*	69.2	17,470*
3.	120	62.7	23,320*	64.8	20,660*	66.7	16,650*
200 '	130		20,800	62.3	19,640*	64.1	15,950*
BOOM	140	60.2		59.7	18,360	61.5	15,340*
	150	57.6	18,350	57.0	16,250	58.8	14,750*
	160	54.9	16,240	54.2	14,410	55.9	14,250*
t	170	52.2	14,400	51.3	12,790	53.0	12,800
1	180	49.3	12,780	48.3	11,350	49.9	
	190	46.3	11,350		10,070	46.6	10,090
	200	43.2	10,060	45.1			
	. 44	82.9	28,480*			1	
601	50	81.6	28,050*		2/ 6204		_ i
JIB	60	79.5	27,400*	81.6	24,630*	81.4	22,110*
8	70	77.3	26,830*	79.4	24,250*	4	21,840*
210'	80	75.1	26,130	77.2	23,850*	79.2	
1 210	1	72.9	25,540	175.0	23,440*	77.0	10 (204
) qn	1 / 4 = 7					
воом	90	k .		_	22,980*	74.7	19,620*
	100 110	70.7	24,970 ⁴ 24,460 ⁴	k 72.8			

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#16HL Jib Ratings In Pounds Model 9530 Truck Crane 77H Hammerhead Tip Boom 90,000 Pound Counterweight

			50 1TW	OFFSET	15° JIB	OFFSET_		B OFFSET
	300M	JIB	BOOM	RATINGS	BOOM	RATINGS	BOOM	RATINGS
	JIB	RADIUS	ANGLE	(LBS)	ANGLE	(LBS)	ANGLE	(LBS)
LE	ENGTH	(FEET)	82.8	29,810*				,
	, 1	37	81.9	29,440*	٠		,	~
Į	1	40	79.2	28,530*	81.9	25,810*	,	\ !
ļ	'	· 50		27,560*	79.1	25,150*	81.7	23,090*
1		60	76.4	26,660*	76.3	24,480*	78.8	22,030*
	60'	70	73.6		73.4	23,780*	75.9	20,400*
.	JIB	80	70.8	25,810*	70.5	23,200*	72.9	19,010*
1	&	90	67.8	25,030*	67.5	22,200*	69.9	17,840*
	150'	100	64.9	24,270*	64.4	20,700*	66.8	16,810*
1	BOOM	110	61.8	23,650*	61.2	19,370*	63.5	15,930*
	. [120	58.6	22,890*	57.9	18,270*	60.2	15,200*
		130	55.4	21,150*	54.5	17,340*	56.7	14,500*
1	()	140	52.0	19,730*		16,450*	52.9	13,950*
L		150	48.4	18,510*	50.9	1 2 2		T • •
		38	82.8	29,650*	1	•		· -
1	ļ	<i>i</i> 40	82.3	29,410*	02 2	25,730*	1	**
1		50	79.7	28,530*	82.3	25,090*	82.1	23,090*
1		60 .	77.0	27,660*	79.6	24,460*	79.4	22,290*
	60 '	• 70 .	74.4	26,730*	76.9		76.6	20,680*
	JIB	80	71.7	25,960*	74.2	23,310*	73.8	19,350*
ļ	&	90	68.9	25,220*	71.4	22,770*	70.9	18,190*
-	1601,	100	66.1	24,520*	68.6	21,280*	68.0	17,140*
-	BOOM	110	63.2	23,810*	65.7	21,200	64.9	16,290*
_		120	60.2	23,210*	62.7	19,910*	61.8	15,530*
- 1		130	57.2	22,030*	59.6	18,760*	58.5	14,820*
1		140	54.0	20,500*	56.4	17,800*		14,220*
Ì		150	50.7	19,190*	53.1	16,900*	55.1	13.720*
ļ		160	47.2	18,110*	49.5	16,160*	51.5	120120
		39	82.9	29,470*			1.	1.00
1		40	82.6	29,360*		1	· 1	
1		50	80.1	28,560*	82.6	25,610*		02 0104
ļ			77.6	27,650*	80.1	25,040*	82.5	23,010*
		60	75.1	26,880*		24,540*	79.9	22,580*
- }		70		26,030*		23,930*	77.2	21,010*
- 1	60'	80	72.5	25,310*		23,430*	74.5	19,690*
1	JIB	90	69.9	23,310		22,920*		18,480*
- {	. B	100	67.2	24,640*		21,770*		17,470*
1	1701	110.	64.4	24,070*		20,420		16,630*
Ì	BOOM	120	61.6	23,420*		19,310		
ļ		130	58.8	22,910*		18,300		
.		140	55.8	21,320*	58.1	17 390	× 57.0	
j		150	52.7	19,880	55.0	17,380		
		160	49.5	17,770	51.7	16,620		
	1	170_	46.1	15,940	48.3	15,860		
	 	40	82.9	29,210	k	05 560	ا ي	1 , 1
	601	50	80.6	28,460	* 82.9		* 82.8	22,850*
		60	78.1	27,660	* 80.5			والمراكب والمراجع والمراجع المراجع الم
	JIB	70	75.7	26,900	* 78.1	24,530		The contract of the base of the contract of th
	\$ 1001	80	73.2	26,180	* 75.6	Programme Andrews Andr	* 77.8	
	180'	1	70.7		* 73.1		* 75.2	
	W-AAT-							
	воом	100	68.4		*	22,950)* * 72 · 6	

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#16HL Jib Ratings In Pounds Model 9530 Truck Crane 77H Hammerhead Tip Boom 90,000 Pound Counterweight

BOOM	JIB	5° JII	OFFSET	15° JII	B OFFSET	25° JII	OFFSET
& JIB	RADIUS	BOOM	RATINGS	воом	RATINGS	BOOM	RATINGS
LENGTH	(FEET)	ANGLE	(LBS)	ANGLE	(LBS)	ANGLE	(LBS)
50	200	49.0	7,760	50.5	7,760	51.7	7,780
JIB	210	46.4	6,600	47.8	6,610	49.0	6,620
&	220	43.5	5,560	45.0	5,570	46.1	5,580
240 '	230	40.6	4,630	42.0	4,640	43.0	4,650
BOOM	240	37.4	3,780			39.7	3,800
Воон	47	82.9	29,690*	38.7	3,790	39.7	2,000
	50	82.3				•	,
	60	80.4	29,540*	000	26,200*		
	70	78.4	28,940*	82.0	25,850*	81.5	23,410*
	80	76.5	28,310*	80.0		79.5	22,720*
			27,790*	78.1	25,410*		
•	90	74.5	27,220*	76.1	25,070*	77.5	21,580*
	100	72.5	26,620*	74.1	24,550*	75.5	20,430*
	110	70.5	25,090*	72.1	23,180*	73.5	19,250*
50'	120	68.5	23,620*	70.0	21,890*	71.4	18,200*
JIB	130	66.4	20,920	68.0	20,630*	69.3	17,140*
&	140	64.3	18,040	65.8	18,050	67.2	16,120*
250'	150	62.2	15,580	63.7	15,590	65.0	15,100*
BOOM	160	60.0	13,460	61.5	13,470	62.8	13,480
	170	57.8	11,610	59.3	11,610	60.5	11,620
	180	55.5	9,970	56.9	9,980	58.2.	9,990
	190	53.1	8,530	54.6	8,530	55.8	8,550
	200	50.7	7,240	52.1	7,240	53.3	7,260
	210	48.2	6,090	49.6	6,100	50.7	6,110
	220	45.5	5,050	46.9	5,050	48.0	5,070
	230	42.8	4,110	44.1	4,110	45.2	4,130
	240	39.8	3,260	41.2	3,270	42.2	3,280
•	250	36.7	2,490	38.0	2,500	39.0	2,510
	48	82.9		30.0	2,500		
	50		29,010*	1			: 1 1
		82.5	28,820*		25,640*		• • • •
	60	80.7	28,250*	82.2		01 0	21,170*
	70	78.8	27,640*	80.3	25,260*	81.8	
	80	76.9	26,560*	78.4	24,230*	79.9	19,890*
	90	75.0	24,720*	76.5	22,720*	78.0	18,750*
	100	73.1	23,080*	74.6	21,300*	76.0	17,570*
•	110	71.2	21,610*	72.7	19,990*	74.0	16,480*
l	120	69.2	20,130*	70.7	18,700*	72.1	15,430*
50'	130	67.2	18,850*	68.7	17,540*	70.0	14,330*
JIB .	140	65.2	17,550	66.7	16,350*	68.0	13,350*
&	150	63.2	15,090	64.6	15,100	65.9	12,420*
260'	160	61.1	12,960	62.5	12,970	63.8	11,480*
воом	170	58.9	11,100	60.4	11,110	61.6	10,620*
200	180	56.7	9,480	58.2	9,480	59.4	9,490
•	190	54.5	8,020	55.9	8,030	57.1	8,040
		52.2	6,740	53.6	6,750	54.8	6,760
1	200	В			5,590	52.3	5,600
	210	49.8	5,580	51.2		49.8	4,550
Į	220	47.3	4,540	48.7	4,540		
	230	44.7	3,590	46.1	3,600	47.1	3,610
	240	42.0	2,740	43.3	2,750	44.3	2,760
	1 000	1 20 0	1 1 070	1 10 5	1 T 070	41.4	1,990
ĺ	250	39.2	1,970	40.5	1,970 1,260	38.2	1,280

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#16HL Jib Ratings In Pounds Model 9530 Truck Crane _ 77H Hammerhead Tip Boom 90,000 Pound Counterweight

воом	JIB	5° JIE	OFFSET	15° JIE	OFFSET		OFFSET
& JIB	RADIUS	воом	RATINGS	BOOM	RATINGS	BOOM	RATINGS
LENGTH	(FEET)	ANGLE	(LBS)	ANGLE	(LBS)	ANGLE	(LBS)
,	130	63.6	22,400	65.3	22,400	66.8	19,870*
	140	61.2	19,530	62.9	19,530	64.4	19,090*
501	150	58.8	17,080	60.4	17,090	61.9	17,100
JIB	160	56.3	14,970	57.9	14,970	59.3	14,980
6	170	53.7	13,110	55.3	13,120	56.6	13,130
220	180	51.0	11,490	52.6	11,500	53.9	11,510
воом	190	48.2	10,050	49.7	10,060	51.0	10,070
B 00	200	45.2	8,770	46.8	8,780	48.0	8,790
1	210	42.1	7,630	43.6	7,640	44.8	· `7 , 650
	220	38.8	6,590	40.3	6,600	41.4	6,620
	44	83.0	30,700*				·
•	50	81.7	30,410*	Ī		and a	
*	60	79.7	29,770*	81.4	27,020*	83.0	24,580*
	70	77.6	29,100*	79.3	26,540*	80.9	24,400*
	80	75.5	28,530*	77.2	26,160*	78.7	24,140*
1				75.1	25,790*	76.6	23,860*
	90	73.4	27,950*		25,430*	74.4	23,210*
50'	100	71.2	27,350*	72.9	25,430*	72.2	22,150*
'JIB	110	69.1	26,870*	70.7	25,040"	70.0	21,130*
* &	120	66.9	25,300	68.5	24,610*	67.7	20,190*
2301	130	64.6	21,910	66.3	21,910		19,050
BOOM	140	62.3	19,040	64.0	19,040	65.4	
	150	60.0	16,580	61.6	16,580	63.0	16,590
!	160	57.6	14,460	59.2	14,470	60.6	14,480
; :	170	55.1	12,610	56.7	12,610	58.1	12,620
į	180	52.6	10,980	54.2	10,990	55.5	11,000
, !	190	50.0	9,540	51.5	9,550	52.8	9,560
3	200	47.2	8,260	48.7	8,260	50.0	8,280 +
+ i	210	44.4	7,110	45.8	7,110	47.0	7,130
Y	1		6,080	42.8	6,080	43.9	6,100
ı	220	41.3			5,150	40.5	5,170
	230	38.1	5,140	39.5	1 - J Ju	13.13	
Ť	46	82.8	30,140*	}		! .	1
	50	82.0	30,030*	1	06 6504	1	1
	.60	80.0	29,350*	81.7	26,650*	01 2	23,950*
	70	78.0	28,770*	79.7	26,250*	81.2	
	80	76.0	28,280*	77.6	25,860*	79.2	23,750*
501	90	74.0	27,630*	75.6	25,530*	77.1	23,440*
JIB	100	71.9	27,170*	73.5	25,150*	75.0	23,260*
&	110	69.8	26,630*	71.4	24,730*	72.9	22,410*
2401	120	67.7	24,820	69.3	24,360*	70.7	21,220*
воом	130	65.6	21,420	67.1	21,420	68.6	20,150*
-,	140	63.4	18,540	64.9	18,550	66.3	18,560
:	150	61.1	16,080	62.7	16,090	64.1	16,100
	160	58.9	13,970	60.4	13,970	61.7	13,980
	170	56.5	12,110	58.0	12,120	59.3	12,130
, .	180	54.1	10,490	55.6	10,490	56.9	10,500
	(TOA	1 74.7			9,040	54.4	19,050

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SHEET, 19530.02



#16HL Jib Ratings In Pounds
Model 9530 Truck Crane
77H Hammerhead Tip Boom
90,000 Pound Counterweight

& JIB LENGTH	DADTUC		OFFSET	17. 210	OFFSET	73 JIE	OFFSET
י דוא בידע ו	RADIUS	BOOM	RATINGS	BOOM	RATINGS	BOOM	RATINGS
PERGIU	(FEET)	ANGLE	(LBS)	ANGLE	(LBS)	ANGLE	(LBS)
50'	150	54.3	18,560	56.1	18,560	57.7	17,460*
JIB	160	51.3	16,440	53.1	16,450	54.6	16,460
&	170	48.2	14,610	. 49.9	14,610	51.4	14,630
190'	180	44.8	12,980	46.6	12,990	48.0	13,000
воом	190	41.3	11,550	43.0	11,560	44.3	11,570
i	41	82.8	31,710*	·		,	
	50	80.7	30,970*	82.6	27,970*		
}	60	78.4	30,310*	80.3	27,500*	82.1	25,360*
i	70	76.1	29,590*	78.0	27,100*	79.7	25,040*
	80	73.7	28,890*	75.6	26,610*	77.3	24,780*
!	90	71.3	28,160*	73.2	26,070*	74.9	23,630*
50' j	100	68.9	27,510*	70.7	25,630*	72.4	22,300*
JIB	110	66.4	26,970*	68.3	25,280*	69.9	21,210*
&	120	63.9	26,390*	65.7	24,860*	67.4	20,180*
2001	130	61.3	23,350	63.1	23,360	64.7	19,270*
воом	140	58.7	20,490	60.5	20,500	62.0	18,480*
. 1	·150	55.9	18,050	57.7	18,050	59.2	17,770*
	160	53.1	15,940	54.9	15,940	56.4	15,950
	170	50.2	14,090	51.9	14,090	53.3	14,100
	180	47.1	12,470	48.8	12,480	50.2	12,490
	190	43.9	11,040	45.5	11,050	46.9	11,060
	200	40.4	9,760	42.1	9,770	43.3	9,780
	42	82.9	31,360*				
	50	81.1	30,830*	82.9	27,800*		
	60	78.9	30,100*	80.7	27,440*	82.4	25,120*
	70	76.6	29,490*	78.4	26,910*	80.1	24,920*
f	80	74.4	28,860*	76.2	26,470*	77.8	24,570*
,	90	72.1	28,210*	73.9	26,060*	75.5	23,910*
50'	100	69.7	27,540*	71.5	25,660*	73.2	22,670*
JIB	110	67.4	27,080*	69.2	25,210*	70.8	21,500* 20,480*
& <u></u>	120	65.0	26,260	66.7	24,860*	68.3	19,590*
210'	130	62.5	22,860	64.3	22,870	65.8	
BOOM	140	60.0	19,990	61.7	20,000	63.3	18,780*
	150	57.4	17,540	59.1	17,550	60.6	17,560
1	160	54.8	15,430	56.5	15,440	57.9	15,450
1	170	52.0	13,590	53.7	13,590	55.1	13,610
1	180	49.1	11,960	50.8	11,970	52.1	11,980
	190	46.1	10,530	47.8	10,530	49.1	10,540
1	200	43.0	9,240	44.6	9,250	45.8	9,260
	210	39.6	8,110_	41.2	8,110	42.3	8,130
	43	82.9	31,020*		.1	,	
	50	81.4	30,680*	1	1		24 000+
50	60	79.3	29,960*	81.0	27,170*	82.7	24,900*
JIB	70	77.1	29,390*	78.9	26,840*	80.5	24,660*
&	80	74.9	28,750*	76.7	26,390*	78.3	24,440*
220'	90	72.7	28,140*	74.5	25,940*	76.1	24,200*
	100	70.5	27,520*	72.2	25,550*	73.8	22,960*
BOOM	110	68.3	27,000*	70.0	25,140*	71.5	21,800*
	1 110	66.0	25,800	67.7	24,740*	69.2	20,800*

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#16HL Jib Ratings In Pounds
Model 9530 Truck Crane
77H Hammerhead Tip Boom
90,000 Pound Counterweight

BOOM STIB RADIUS BOOM RATINGS BOOM RATINGS CLBS) RADIUS CLBS SOOM RATINGS CLBS ANGLE CLBS ANGLE CLBS CLBS ANGLE CLBS CLBS ANGLE CLBS CLB							000 1 0011	
## ADJUS BOOM RATINGS BOOM RATINGS CLBS ANGLE CLBS ANGLE CLBS	ROOM	TTR	50 .TTB	OFFSET	150 JIB	OFFSET	25° JIB	OFFSET -
LENGTH (FEET) ANGLE (LBS) ANGLE (LBS) ANGLE (LBS)	· .						BOOM	RATINGS
120	1 }			,			ANGLE	(LBS)
JIB 130 55.1 25,180% 57.3 21,640% 59.1 17,160% 17,100% 160 44.3 17,930 46.3 17,930 47.9 15,920% 16,500% 160 44.3 17,930 46.3 17,930 47.9 15,920% 16,500% 16,500% 160 44.3 17,930 46.3 17,930 47.9 15,920% 16,500%						22.860*	62.4	
\$\begin{array}{c c c c c c c c c c c c c c c c c c c	1 .					21.640*	59.1	17,860*
160								17,100*
160						19.490*		
37								
\$\begin{array}{c c c c c c c c c c c c c c c c c c c	BOOM				40.5	2,9500		
So	1				 	٠	,	
100				31 150*	81.6	28.360*		
To						27.760*	81.0	25,630*
The color of the	,					27.090*		25,240*
JIB 90 68.7 27,860* 70.8 26,010* 72.7 69.8 21,240* 170' 110 63.0 26,610* 65.0 25,470* 66.9 20,140* 130 56.9 24,860 59.0 130 56.9 24,860 59.0 150 160 47.0 17,460 48.9 17,470 50.5 16,240* 170 43.3 15,620 45.1 15,630 46.6 15,640 170 43.3 15,620 45.1 15,630 46.6 15,640 170 43.3 15,620 45.1 15,630 46.6 15,640 170 47.0 17.4 17.4 17.4 17.4 17.4 17.4 17.4 17.4	(24,070*
STB 90 65.9 27,240% 67.9 25,470% 69.8 21,240% 170° 110 63.0 26,610% 65.0 25,070% 66.9 29,140% 130 56.9 24,860 59.0 22,240% 60.7 18,260% 140 53.8 22,010 55.8 21,070% 57.5 17,480% 150 50.5 19,570 52.4 19,580 54.1 16,790% 170 43.3 15,620 45.1 15,630 46.6 15,640						26,030		22,560*
\$\begin{array}{c c c c c c c c c c c c c c c c c c c	JIB			27,860				21.240*
170				27,240*				20.140*
BOOM	170'	L.						19.120*
130	воом	120	L .					18.260*
140	1	130				22,240		17.480*
150	,	140	53.8					16-790*
160	·	150	50.5					16.240*
170		160	47.0	17,460				15 640
38 82.9 32,000* 32,000* 32,000* 32,000* 32,000* 32,000* 32,000* 31,190* 82.0 28,270* 76.2 27,640* 77.4 29,560* 76.9 27,180* 78.8 25,210* 76.2 24,440* 78.8 25,210* 76.2 24,440* 78.8 25,210* 77.3 28,720* 77.3 77.3 77.3 77.3 77.3 77.3 77.3 77.	}		43.3	15,620_	45.1	15,630	40.0	13,040
So			82.9			1	1	
SO	1		82.4	32,000*			1	
50' 77.4 30,330* 79.5 27,640* 81.4 25,530* 50' 80 72.3 28,720* 74.3 26,570* 76.2 24,440* JIB 90 69.6 28,060* 71.7 26,060* 73.5 22,930* & 100 67.0 27,350* 69.0 25,610* 70.8 21,650* 180' 110 64.2 26,790* 66.2 25,160* 68.0 20,530* 180' 120 61.4 26,180* 63.4 24,120* 65.2 19,470* 130 58.6 24,360 60.5 22,770* 62.2 18,600* 140 55.6 21,490 57.5 21,500 59.2 17,860* 150 49.3 16,950 51.1 16,960 52.7 16,560* 170 45.9 15,110 47.7 15,110 49.2 15,130 180 42.2 13,500 44.0 13,500 45.4 13,520 50' 80.3 31,030* 82.3 27,670*	! :	•						05 5504
50' 80 72.3 28,720* 74.3 26,570* 76.2 24,440* JIB 90 69.6 28,060* 71.7 26,060* 73.5 22,930* & 100 67.0 27,350* 69.0 25,610* 68.0 20,530* 180' 110 64.2 26,180* 63.4 24,120* 65.2 19,470* BOOM 120 61.4 26,180* 63.4 24,120* 65.2 19,470* 130 58.6 24,360 60.5 22,770* 62.2 18,600* 140 55.6 21,490 57.5 21,500 59.2 17,860* 150 52.5 19,060 54.4 19,070 56.0 17,160* 160 49.3 16,950 51.1 16,960 52.7 16,560* 170 45.9 15,110 47.7 15,110 49.2 15,130 180 82.7 31,920* 24.0 27,670* 81.8<	1		1			27,640*		25,550*
50' 80 72.3 28,720* 74.3 26,570* 76.2 24,440* 71.7 26,060* 73.5 22,930* 25,610* 70.8 21,650* 25,610* 70.8 21,650* 25,610* 70.8 21,650* 25,610* 70.8 21,650* 25,610* 70.8 21,650* 25,610* 70.8 21,650* 25,610* 70.8 21,650* 25,610* 70.8 21,650* 25,610* 70.8 21,650* 25,610* 70.8 21,650* 25,610* 70.8 21,650* 70.8 70.8 70.8 70.8 70.8 70.8 70.8 70.8	\ :	•	•			27,180*	1	25,210*
JIB 90 69.6 28,060* 71.7 26,060* 73.5 22,930* 21,650* 21,650* 22,7350* 69.0 25,610* 70.8 21,650* 21,650* 22,760* 22,770* 68.0 20,530* 19,470* 120 61.4 26,180* 63.4 24,120* 65.2 19,470* 130 58.6 24,360 60.5 22,770* 62.2 18,600* 140 55.6 21,490 57.5 21,500 59.2 17,860* 150 52.5 19,060 54.4 19,070 56.0 17,160* 160 49.3 16,950 51.1 16,960 52.7 16,560* 170 45.9 15,110 47.7 15,110 49.2 15,130 180 42.2 13,500 44.0 13,500 45.4 13,520					1	26,570*	76.2	24,440*
& 100 67.0 27,350* 69.0 25,610* 70.8 21,650* 180' 110 64.2 26,790* 66.2 25,160* 68.0 20,530* BOOM 120 61.4 26,180* 63.4 24,120* 65.2 19,470* 130 58.6 24,360 60.5 22,770* 62.2 18,600* 140 55.6 21,490 57.5 21,500 59.2 17,860* 150 52.5 19,060 54.4 19,070 56.0 17,160* 160 49.3 16,950 51.1 16,960 52.7 16,560* 170 45.9 15,110 47.7 15,110 49.2 15,130 180 42.2 13,500 44.0 13,500 45.4 13,520 30 83.0 31,920* 30,340* 79.9 27,670* 81.8 25,510* 50' 60 77.9 30,340* 79.9 27,670* 81.8 25,110*		1		28,060*		26,060*	73.5	22,930*
180' 110 64.2 26,790* 66.2 25,160* 68.0 20,530* 19,470* 120 61.4 26,180* 63.4 24,120* 65.2 19,470* 130 58.6 24,360 60.5 22,770* 62.2 18,600* 140 55.6 21,490 57.5 21,500 59.2 17,860* 150 52.5 19,060 54.4 19,070 56.0 17,160* 160 49.3 16,950 51.1 16,960 52.7 16,560* 170 45.9 15,110 47.7 15,110 49.2 15,130 13,520 180 42.2 13,500 44.0 13,500 45.4 13,520 13,520 150' 60 77.9 30,340* 79.9 27,670* 81.8 25,510* 29,520* 77.5 27,090* 79.3 25,110*						25.610*	70.8	21,650*
180' 110						25.160*	68.0	20,530*
BOOM 120	180'					24.120*	L L	19,470*
130	BOOM					22 770*	L.	
140								17,860*
150		140						
160 49.3 16,930 31.1 15,110 49.2 15,130 17.1 180 42.2 13,500 44.0 13,500 45.4 13,520 15.1 15,110 49.2 15,130 13,520 15.1 15,110 49.2 15,130 13,520 15.1 15,110 49.2 15,130 13,520 15.1 15,110 49.2 15,130 13,520 15.1 15,110 49.2 15,130 13,520 15.1 15,110 49.2 15,130 13,520 15.1 15,110 49.2 15,110		150	52.5	19,060				
170	0.0	160	49.3	16,950				
180 42.2 13,300 47.5 23,300 47.5 23,300 47.5 23,300 47.5 23,300 47.5 23,300 47.5 23,510* 180 42.2 13,300 47.5 28,110* 180 42.2 13,300 47.5 28,110* 20 83.0 31,920* 20 82.3 28,110* 21,670* 81.8 25,510* 22,510* 23,500* 77.5 27,090* 79.3 25,110*		170	45.9	15,110	47.7			13.520
39 83.0 31,920* 40 82.7 31,920* 50 80.3 31,030* 82.3 28,110* 50 77.9 30,340* 79.9 27,670* 81.8 25,510* 70 75.5 29.520* 77.5 27,090* 79.3 25,110*	i ·		42.2			13,500	47.4	13,520
40 82.7 31,920* 50 80.3 31,030* 82.3 28,110* 50' 77.9 30,340* 79.9 27,670* 81.8 25,510* 75.5 29.520* 77.5 27,090* 79.3 25,110*				31,920	*	1	1	2 4
50 80.3 31,030* 82.3 28,110* 27,670* 81.8 25,510* 27,670* 27,090* 79.3 25,110* 25,110*	\ ·		1	31,920	* .	000	.	• 1
50' 60 77.9 30,340* 79.9 27,670* 61.6 25,110* 75.5 29.520* 77.5 27,090* 79.3 25,110*	ţ			31,030	★ 82.3		2 01 0	25 510*
75 5 29.520* 77.5 27,090* 79.5	501		1	30,340	★ 79.9			
1 11K 1 /U 1 /2*2 1 = / * * * * * * * * * * * * * * * * * *	JIB	.70	75.5	29,520)* 77.5	1		
73.0 28,810* 75.0 26,590* 70.8 24,320*) * 75. 0		1	
70.5 28.110* 72.5 26,100* 74.2 23,320)* 72.5	26,100		1
130 48 0 27 440* 69.9 25,630* 71.7 22,7000		1)* 69.9	25,630		
500h 26,950* 67,3 25,230* 69.0 20,050	ROOM				0* 67.3	25,230		
110 62.7 26.310* 64.6 24.770* 66.3 19.830*	\ ,	L L		26.31	· .	24,770		
120 60.0 23.860 61.9 23,360* 63.5 18,990*	1					23,360)* 63.5	
130 00.0 23,000 60.7 18,200	1 .			1	- I		60.7	18,200*
140 57.2 21,000 59.1 21,000	Ι, ,	140	3/.2	21,00				

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Wilmington, North Carolina 28412

Model 9530 Truck Crane 77H Hammerhead Tip Boom 90,000 Pound Counterweight

воом	JIB	5° JIB	OFFSET	15° JII	OFFSET	25° JIB	OFFSET
& JIB	RADIUS	воом	RATINGS	BOOM	RATINGS	воом	RATINGS
LENGTH	(FEET)	ANGLE	(LBS)	ANGLE	(LBS)	ANGLE	(LBS)
•	32	82.9	32,000*				-
}	35	81.9	32,000*		1		
ł	. 40	80.3	32,000*	83.0	29,160*		
50'	50	77.1	30,890*	79.7	28,350*	82.2	26,320*
JIB	60	73.8	29,760*	76.5	27,580*	78.9	25,790*
&	70	70.5	28,730*	73.1	26,760*	75.5	24,200*
1301	80	67.1	27,820*	69.7	26,140*	72.0	22,370*
воом	90	63.6	27,000*	66.2	25,540*	68.5	20,820*
	100	60.0	26,250*	62.5	23,840*	64.8	19,530*
	110	56.3	25,640*	58.7	22,210*	60.9	18,410*
	120	52.3	23,810*	54.8	20,890*	56.9	17,500*
	130	48.1	22,110*	50.5	19,660*	52.5	16,640*
	33	82.9	32,000*		25,000		
	35	82.3	32,000*	1			
	40	80.8	32,000*			•	٠,
1	50	77.8	30,950*	80.3	28,430*	82.7	26,300*
501	- 60	74.7	29,930*	77,2	27,670*	79.5	25,800*
50¹	· 70	71.6	28,970*	74.0	26,920*	76.3	24,630*
JIB	80	68.4	28,110*	70.8	26,300*	73.1	22,870*
& 1/0!	90	65.1	27,350*	67.5	25,660*	69.7	21,320*
1401	100	61.7	26,550*	64.1	24,600*	66.3	20,040*
BOOM	110	58.2	25,910*	60.6	23,020*	62.7	18,870*
	120	54.6	24,890*	56.9	21,560*	59.0	17,890*
	130	50.8	23,160*	53.1	20,330*	55.1	17,080*
	140	46.8	21,540*	49.0	19,320*	50.9	16,390*
	35	82.7	32,000*	· · · · · · · · · · · · · · · · · · ·			
	40	81.3	32,000*	1	,		5 2 6
	50	78.4	31,130*	80.8	28,430*		
	60	75.5	30,150*	77.8	27,650*	80.1	25,810*
50'	70	72.5	29,180*	74.9	27,050*	77.1	25,100*
	80	69.5	28,360*	71.8	26,350*	74.0	23,260*
JIB &	90	66.4	27,540*	68.7	25,860*	70.8	21,730*
150'	100	63.3	26,780*	65.5	25,300*	67.6	20,410*
BOOM	110	60.0	26,110*	62.3	23,650*	64.3	19,340*
BOOM	120	56.6	25,560*	58.9	22,240*	60.8	18,350*
•	130	53.1	24,190*	55.3	20,980*	57.2	17,500*
	140	49.4	22,560*	51.6	19,870*	53.4	16,740*
	150	45.5	20,540	47.6	18,950*	49.3	16,150*
		82.8	32,000*	 `` ``	-{ -		
İ	36 40	81.7	32,000*	1			
	50	79.0	31,200*	81.2	28,430*	1	
50'		76.2	30,240*	78.4	27,750*	80.6	25,800*
JIB	60 70	73.4	29,260*	75.6	27,070*	77.7	25,370*
&		70.5	28,490*	72.7	26,500*	74.8	23,650*
160'	80 90	67.6	27,720*	69.8	25,930*	71.8	22,150*
BOOM	4	64.6	27,070*	66.8	25,390*	68.8	20,840*
	100	61.6	26,370*	63.7	24,320*	65.7	19,740*
	110	1 01.0	20,570			_1	To Differ Alary

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#16HL Jib Ratings In Pounds
Model 9530 Truck Crane
77H Hammerhead Tip Boom
90,000 Pound Counterweight

воом	JIB		OFFSET	15° JII	B OFFSET	25° JIE	OFFSET
& JIB	RADIUS	воом	RATINGS	воом	RATINGS	BOOM .	RATINGS -
LENGTH .	(FEET)	ANGLE	(LBS)	ANGLE	(LBS)	ANGLE	(LBS)
•	45	82.8	32,000*				
•	50	81.8	32,000*				* *
	60	79.9	32,000*	81.2	32,000*	82.4	-26,790*
	70	77.9	32,000*	79.2	30,450*	80.4	25,360*
~	80	75.8	31,110*	77.1	28,720*	78.3	. 24,050*
	90	73.8	29,240*	75.1	27,010*	76.3	22,650*
where y are	100	71.7	27,380*	73.0	25,460*	74.2	21,360*
	110	69.7	25,790*	70.9	24,060*	72.1	20,100*
40'	120	67.5	24,000	68:8	22,600*	69.9	18,940*
JIB	130	65.4	20,600	66.6	20,600	67.8	17,770*
&	140	63.2	17,720	64.4	17,730	65.5	16,640*
250'	150	61.0	15,260	62.2	15,270	63.3	15,280
воом	160	58.7	13,150	59.9	13,150	61.0	13,160
	170	56.3	11,290	57.6	11,300	58.6	11,300
	180 '	53.9	9,660	55.1	9,660	56.1	9,670
,	, 190	51.5	8,220	52.6	8,220	53.6	8,230
	200	48.9	6,930	50.0	6,930	51.0	6,940
	210	46.2	5,770	47.3	5,780	48.2	5,790
-	220	43.4	4,740	44.5	4,750	45.4	4,760
	- 230	40.4	3,800	41.5	3,810	42.3	3,820
	240	37.2	2,950	38.3	2,960	39.1	2,970
	250	33.8	2,180	34.8	2,190	35.5	2,200 "
} 	46	82.9	32,000*				
İ	50	82.1	32,000*			1	
٠, ,	60	80.2	31,440*	81.5	28,700*	82.7	23,800*
	70	78.3	29,260*	79.5	26,870*	80.7	22,390*
**	80	76.3	27,170*	77.6	25,100*	78.7	21,000*
}	90	74.3	25,420*	75.6	23,550*	76.8	19,640*
	100	72.4	23,710*	73.6	22,030*	74.7	18,370*
	110	70.4	22,070*	71.6	20,630*	72.7	17,140*
40'	120	68.3	20,620*	69.5	19,260*	70.7	15,940*
	130	66.3	19,280*	67.5	18,000*	68.6	14,830*
JIB	140	64.2	17,230	65.4	16,790*	66.4	13,720*
&		62.0	14,770	63.2	14,780	64.3	12,740*
260'	150	59.8	12,640	61.0	12,650	62.1	11,760*
воом	160		10,800	58.8	10,800	59.8	10,810*
	170	57.6	1 '	56.5	9,170	57.5	9,180
Ì	180	55.3	9,160		7,720	55.1	7,730
1	190	53.0	7,720	54.1	6,430	52.6	6,440
	200	50.5	6,430	51.7	5,280	50.0	5,290
	210	48.0	5,270	49.1	4,230	47.3	4,240
1	220	45.4	4,230	46.5	3,290	44.5	3,300
1	230	42.6	3,290	43.7	2,450	41.5	2,460
1	240	39.7	2,440	40.7		38.3	1,680
l	250	36.6	1,660	37.6	1,660	30.3	

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#16HL Jib Ratings In Pounds*
Model 9530 Truck Crane
77H Hammerhead Tip Boom
90,000 Pound Counterweight

2001	77.72	50 TTD	OFFSET	150 TTR	OFFSET	25° JIB	OFFSET
воом	JIB	BOOM	RATINGS	BOOM	RATINGS	воом	RATINGS
& JIB	RADIUS (FEET)	ANGLE	(LBS)	ANGLE	(LBS)	ANGLE	(LBS)
LENGTH		49.0 4	11,170	50.3	11,180	51.3	11,190
40'	180	46.0	9,740	47.2	9,740	48.3	9,750
JIB	190			44.0	8,460	45.0	8,470
&	200	42.8	8,450	40.6	7,310	41.5	7,330
220'	210	39.4	7,310		6,290	37.8	6,310
воом	220	35.8	6,290	37.0	0,230		
•	42	82.9	32,000*	69.7	32,000*		
İ	50	81.2	32,000*	82.7	32,000*	81.8	32,000*
	60	79.1	32,000*	80.5	32,000*	79.6	32,000*
· ·	70	76.9	32,000*	78.3	32,000*	77.4	31,180*
	80	74.8	32,000*	76.2	32,000*	75.2	29,470*
	90	72.6	32,000*	73.9		73.0	27,930*
	100	70.3	32,000*	71.7	32,000*	70.7	26,570*
40'	110	68.1	29,070	69.4	29,080	68.3	24,990
JIB	120	65.8	24,980	67.1	24,980	66.0	21,590
&	130	63.4	21,580	64.8	21,580	63.5	18,720
2301	140	61.0	18,710	62.4	18,710	61.0	16,270
воом	150	58.6	16,260	59.9	16,270	58.5	14,150
	160	56.1	14,130	57.4	14,140	55.8	12,310
	170	53.5	12,290	54.8	12,300		10,680
	180	50.8	10,660	52.1	10,670	53.1	9,240
	190	48.0	9,220	49.2	9,230	50.2	7,960
	200	45.0	7,940	46.3	7,950	47.2	6,820
	210	41.9	6,800	43.1	6,810	44.1	5,780
•	220	38.6	5,760	39.8	5,770	40.7	
	230	35.1	4,840	36.2	4,840	37.0	4,860
	43	83.0	32,000*				1
· 	2	81.6	32,000*	82.9	32,000*	1.	00 0104
	50	79.5	32,000*	80.9	32,000*	82.1	30,010*
	60	1	32,000*	78.8	32,000*	80.0	28,720
	:70	77.4	32,000*	76.7	32,000*	77.9	27,390
ł	80	75.3	32,000*	74.5	30,960*	75.8	26,070
l	,90	73.2		72.4	29,310*	73.6	24,750
	100	71.1	31,630*	70.2	27,840*	71.4	23,450
	110	68.9	28,590		24,500	69.2	22,220
40'	120	66.7	24,500	68.0	21,100	66.9	21,050
JIB	130	64.5	21,100	65.7	10 220	64.6	18,230
\ & .	140	62.2	18,220	63.5	18,220	62.2	15,780
240	150	59.8	15,770	61.1	15,770	59.8	13,650
1	160	57.4	13,640	58.7	13,640	57.3	11,810
BOOM	170	55.0	11,800	56.2	11,800	54.7	10,180
	180	52.4	10,160	53.7	10,170	52.0	8,740
1	190	49.8	8,720	51.0	8,730	49.2	7,450
1	200	47.1	7,440	48.3	7,440	46.3	6,300
ļ	210	44.2		45.4	6,290	43.2	5,27
- [1	41.2		42.3	5,260	1	4,34
	220	37.9	1	39.0			~ ~~
	230	34.4		35.5	3,480	36.2	יייי ו

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#16HL Jib Ratings In Pounds Model 9530 Truck Crane 77H Hammerhead Tip Boom 90,000 Pound Counterweight

	·		*		· · · · · · · · · · · · · · · · · · ·		
воом	JIB		OFFSET		OFFSET		OFFSET
& JIB	RADIUS	BOOM	RATINGS	BOOM	RATINGS	воом	RATINGS
LENGTH	(FEET)	ANGLE	(LBS)	ANGLE	(LBS)	ANGLE	(LBS)
1	80	72.8	32,000*	74.4	32,000*	75.8	29,960*
1	90	70.3	32,000*	71.9	32,000*	73.3	28,170*
·	100	67.8	32,000*	69.3	32,000*	70.7	26,680*
	110	65.2	30,500	66.7	30,500	68.1	25,380*
40'	120	62.5	26,410	64.0	26,420	65.4	24,140*
JIB	130	59.8	23,030	61.3	23,030	62.6	23,040
&	140	57.0	20,160	58.5	20,160	59.7	20,170
200'	150	54.1	17,710	55.6	17,720	56.8	17,730
,BOOM .	160	51.1	15,600	52.5	15,610	53.7	15,620
1	170	48.0	13,770	49.4	13,770	50.5	13,780
	180	44.6	12,140	46.0	12,150	47.1	12,160
	190	41.1	10,710	42.5	10,720	43.5	10,730
	200	37.3	9,440	38.6	9,450	39.5	9,460
1	40	82.8	32,000*				
1	50	80.5	32,000*	82.1	32,000*	1 .	
	60	78.2	32,000*	79.7	32,000*	81.2	32,000*
	70 [.]	75.9	32,000*	77.4	32,000*	78.8	32,000*
	80	73.5	32,000*	75.0	32,000*	76.4	30,400*
1	90	71.1	32,000*	72.6	32,000*	74.0	28,670*
401	. 100	68.7	32,000*	70.2	32,000*	71.5	27,160*
JIB	110	66.2	30,010	67.7	30,020	69.0.	25,760*
&	120	63.7	25,920	65.2	25,930	66.4	24,530*
210'	130	61.1	22,530	62.6	22,540	63.8	22,550
воом	140	58.5	19,660	59.9	19,670	61.1	19,680
1	150	55.8	17,220	57.2	17,220	58.4	17,230
[160	52.9	15,110	54.3	15,110	55.5	15,120
	170	50.0	13,260	51.4	13,260	52.5	13,270
1	180	46.9	11,640	48.3	11,650	49.3	11,660
	190	43.7	10,210	45.0	10,210	46.0	10,220
	200	40.2	8,930	41.5	8,940	42.5	8,950
	210	36.5	7,790	37.8	7,800	38.6	7,810
	41	82.9	32,000*		00004	,	,.
	50	80.9	32,000*	82.4	32,000*	01 6	32,000*
1	60	78.7	32,000*	80.1	32,000*	81.5	32,000*
	70	76.4	32,000*	77.9	32,000*	79.2	30,800*
40'	80	74.2	32,000*	75.6	32,000*	76.9	29,080*
JIB	90	71.9	32,000*	73.3	32,000*	74.6	27,490*
&	100	69.6	32,000*	71.0	32,000*		26,220*
2201	110	67.2	29,560	68.6	29,570	69.9	24,950*
воом	120	64.8	25,470	66.2	25,480	67.4	22,080
	130	62.3	22,070	63.7	22,070	64.9	19,220
	140	59.8	19,210	61.2	19,220	62.4	
,,	150	57.2	16,750	58.6	16,760	59.8	16,770
1	160	54.6	14,640	55.9	14,650	57.1	14,650
	170	51.8	12,800	53.1	12,800	54.2	12,810
·			<u> </u>	<u> 1</u>	ا	Same of the	

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#16HL Jib Ratings In Pounds Model 9530 Truck Crane 77H Hammerhead Tip Boom 90,000 Pound Counterweight

	· · · · · · · · · · · · · · · · · · ·	· 					d Counterweigi
воом	JIB		OFFSET	15° JII	3 OFFSET		B OFFSET
& JIB	RADIUS	BOOM	RATINGS	BOOM	RATINGS	воом	RATINGS
LENGTH	(FEET)	ANGLE	(LBS)	ANGLE	(LBS)	ANGLE	(LBS)
·	80	70.3	32,000*	72.1	32,000*	73.7	28,530*
	90	67.4	32,000*	69.1	32,000*	70.7	26,770*
40'	100	64.4	32,000*	66.1	31,370*	67.7	25,220*
JIB	110	61.3	31,970	63.1	29,460*	64.6	23,960*
6	120	58.2	27,900	59.9	27,690*	61.4	22,810*
170'	130	54.9	24,520	56.6	24,520	58.0	21,810*
воом	140	51.5	21,670	53.2	21,670	54.5	20,900*
1	150	47.9	19,230	49.5	19,230	50.9	19,240
1	160	44.1	17,130	45.7	17,130	46.9	17,140
}	170	40,.0	15,290	41.5	15,290	42.7	15,310
	36	82.9	32,000*			. 1	
	40	81.9	32,000*		00000	00 /	20 0004
1	50	79.2	32,000*	81.0	32,000*	82.6	32,000*
	60	76.6	32,000*	78.3	32,000*	79.9	32,000*
401	70	73.9	32,000*	75.6	32,000*	77.2	31,140*
40'	80	71.2	32,000*	72.9	32,000*	74.5	29,010*
JIB	90	68.4	32,000*	70.1	32,000*	71.6	27,330*
8	100	65.6	32,000*	67.3	32,000*	68.8	25,710*
180'	110	62.7	31,480	64.4	30,250*	65.9	24,460*
воом	120	59.8	27,400	61.4	27,400	62.8	23,240*
	130	56.7	24,010	58.3	24,020	59.7	22,260*
, ,	140	53.6	21,160	55.1	21,160	56.5	21,170
	150	50.2	18,720	51.8	18,720	53.1	18,730
	160	46.7	16,610	48.3	16,620	49.5	16,630
,	170	43.0	14,780	44.5	14,790	45.7	14,800
ļ	180	39.0	13,170	40.5	13,170	41.6	13,180
	37	83.0	32,000*				
	40	82.2	32,000*			06.5	00.000
	50	79.7	32,000*	81.4	32,000*	82.9	32,000*
] '	60	77.2	32,000*	78.8	32,000*	80.4	32,000*
}	70	74.6	32,000*	76.3	32,000*	77.8	31,580*
1 .	80	72.1	32,000*	73.7	32,000*	75.2	29,590*
40'	90	69.4	32,000*	71.0	32,000*	72.5	27,750*
JIB	. 100	66.8	32,000*	68.3	32,000*	69.8	26,250*
&	110	64.0	31,000	65.6	30,980*	67.0	24,850*
190'	120	61.2	26,920	62.8	26,920	64.2	23,720*
воом	130	58.3	23,530	59.9	23,530	61.2	22,660*
	140	55.4	20,660	56.9	20,670	58.2	20,680
	150	52.3	18,220	53.8	18,230	55.0	18,240
	160	49.1	16,110	50.5	16,120	51.7	16,130
• 4	170	45.7	14,280	47.1	14,280	48.3	14,290
	180	42.0	12,660	43.5	12,660	44.5	12,670
ł	190	38.1	11,230	39.5	11,240	40.5	11,250
40'	39	82.8	32,000*			1]
JIB	40	82.5	32,000*				
&	50	80.1	32,000*	81.7	32,000*		
2001	60	77.7	32,000*	79.3	32,000*	80.8	32,000*
BOOM	70	75.3	32,000*	76.9	32,000*	78.3	32,000*
	1						

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#16HL Jib Ratings In Pounds Model 9530 Truck Crane 77H Hammerhead Tip Boom 90,000 Pound Counterweight

40 JI 8	IB GTH B O'	JIB RADIUS (FEET) 31 35 40 50 60 70 80 90 100 110 120 130 140 32 35 40 50	BOOM ANGLE 82:9 81.7 80.1 76.8 73.6 70.2 66.8 63.3 59.7 56.0 52.0 47.9 43.4 83.0 82.1	RATINGS (LBS) 32,000* 32,000* 32,000* 32,000* 32,000* 32,000* 32,000* 32,000* 31,440* 28,960* 25,980 23,140	82.2 78.9 75.7 72.3 68.9 65.4 61.7 57.9 54.0 49.8 45.2	RATINGS (LBS) 32,000* 32,000* 32,000* 32,000* 32,000* 32,000* 28,730* 26,890* 25,290* 23,960* 22,730*	80.9 77.6 74.2 70.7 67.2 63.5 59.7 55.6 51.3	32,000* 31,640* 29,030* 26,940* 25,170* 23,650* 22,310* 21,220* 20,290*
40 JI & 14 BO	TH B O'	31 35 40 50 60 70 80 90 100 110 120 130 140 32 35 40	82:9 81.7 80.1 76.8 73.6 70.2 66.8 63.3 59.7 56.0 52.0 47.9 43.4 83.0 82.1	(LBS) 32,000* 32,000* 32,000* 32,000* 32,000* 32,000* 32,000* 31,440* 28,960* 25,980 23,140	82.2 78.9 75.7 72.3 68.9 65.4 61.7 57.9 54.0 49.8	32,000* 32,000* 32,000* 32,000* 32,000* 30,930* 28,730* 26,890* 25,290* 23,960*	80.9 77.6 74.2 70.7 67.2 63.5 59.7 55.6 51.3	32,000* 31,640* 29,030* 26,940* 25,170* 23,650* 22,310* 21,220*
40 JI & 14 BO	B O' OM	31 35 40 50 60 70 80 90 100 110 120 130 140 32 35 40	82:9 81.7 80.1 76.8 73.6 70.2 66.8 63.3 59.7 56.0 52.0 47.9 43.4 83.0 82.1	32,000* 32,000* 32,000* 32,000* 32,000* 32,000* 32,000* 32,000* 31,440* 28,960* 25,980 23,140	82.2 78.9 75.7 72.3 68.9 65.4 61.7 57.9 54.0 49.8	32,000* 32,000* 32,000* 32,000* 32,000* 30,930* 28,730* 26,890* 25,290* 23,960*	77.6 74.2 70.7 67.2 -63.5 59.7 55.6 51.3	31,640* 29,030* 26,940* 25,170* 23,650* 22,310* 21,220*
JI & 144 BO	B O' OM	40 50 60 70 80 90 100 110 120 130 140 32 35 40	80.1 76.8 73.6 70.2 66.8 63.3 59.7 56.0 52.0 47.9 43.4 83.0 82.1	32,000* 32,000* 32,000* 32,000* 32,000* 32,000* 31,440* 28,960* 25,980 23,140	78.9 75.7 72.3 68.9 65.4 61.7 57.9 54.0 49.8	32,000* 32,000* 32,000* 32,000* 30,930* 28,730* 26,890* 25,290* 23,960*	77.6 74.2 70.7 67.2 -63.5 59.7 55.6 51.3	31,640* 29,030* 26,940* 25,170* 23,650* 22,310* 21,220*
JI & 144 BO	B O' OM	50 60 70 80 90 100 110 120 130 140 32 35 40	76.8 73.6 70.2 66.8 63.3 59.7 56.0 52.0 47.9 43.4 83.0 82.1	32,000* 32,000* 32,000* 32,000* 32,000* 31,440* 28,960* 25,980 23,140	78.9 75.7 72.3 68.9 65.4 61.7 57.9 54.0 49.8	32,000* 32,000* 32,000* 32,000* 30,930* 28,730* 26,890* 25,290* 23,960*	77.6 74.2 70.7 67.2 -63.5 59.7 55.6 51.3	31,640* 29,030* 26,940* 25,170* 23,650* 22,310* 21,220*
JI & 144 BO	B O' OM	60 70 80 90 100 110 120 130 140 32 35 40	73.6 70.2 66.8 63.3 59.7 56.0 52.0 47.9 43.4 83.0 82.1	32,000* 32,000* 32,000* 32,000* 32,000* 31,440* 28,960* 25,980 23,140	75.7 72.3 68.9 65.4 61.7 57.9 54.0 49.8	32,000* 32,000* 32,000* 30,930* 28,730* 26,890* 25,290* 23,960*	77.6 74.2 70.7 67.2 -63.5 59.7 55.6 51.3	31,640* 29,030* 26,940* 25,170* 23,650* 22,310* 21,220*
JI & 144 BO	B O' OM	70 80 90 100 110 120 130 140 32 35 40	70.2 66.8 63.3 59.7 56.0 52.0 47.9 43.4 83.0 82.1	32,000* 32,000* 32,000* 32,000* 31,440* 28,960* 25,980 23,140	72.3 68.9 65.4 61.7 57.9 54.0 49.8	32,000* 32,000* 30,930* 28,730* 26,890* 25,290* 23,960*	74.2 70.7 -67.2 -63.5 59.7 55.6 51.3	29,030* 26,940* 25,170* 23,650* 22,310* 21,220*
& 14 BO	0' ЮМ	80 90 100 110 120 130 140 32 35 40	66.8 63.3 59.7 56.0 52.0 47.9 43.4 83.0 82.1	32,000* 32,000* 32,000* 31,440* 28,960* 25,980 23,140	68.9 65.4 61.7 57.9 54.0 49.8	32,000* 30,930* 28,730* 26,890* 25,290* 23,960*	70.7 -67.2 -63.5 59.7 55.6 51.3	26,940* .25,170* .23,650* .22,310* .21,220*
& 14 BO	0' ЮМ	90 100 110 120 130 140 32 35 40	63.3 59.7 56.0 52.0 47.9 43.4 83.0 82.1	32,000* 32,000* 31,440* 28,960* 25,980 23,140	65.4 61.7 57.9 54.0 49.8	30,930* 28,730* 26,890* 25,290* 23,960*	67.2 -63.5 59.7 55.6 51.3	25,170* 23,650* 22,310* 21,220*
14 BO 40 JI 8	O'	100 110 120 130 140 32 35 40	59.7 56.0 52.0 47.9 43.4 83.0 82.1	32,000* 31,440* 28,960* 25,980 23,140	61.7 57.9 54.0 49.8	28,730* 26,890* 25,290* 23,960*	- 63.5 59.7 55.6 51.3	23,650* 22,310* 21,220*
40 JI 8		110 120 130 140 32 35 40	56.0 52.0 47.9 43.4 83.0 82.1	31,440* 28,960* 25,980 23,140	57.9 54.0 49.8	26,890* 25,290* 23,960*	59.7 55.6 51.3	22,310*
40 JI 8		110 120 130 140 32 35 40	52.0 47.9 43.4 83.0 82.1	31,440* 28,960* 25,980 23,140	54.0 49.8	25,290* 23,960*	55.6 51.3	21,220*
JI 8)'	120 130 140 32 35 40	52.0 47.9 43.4 83.0 82.1	28,960* 25,980 23,140	54.0 49.8	23,960*	51.3	
JI 8)'	130 140 32 35 40	47.9 43.4 83.0 82.1	25,980 23,140			1	20,290*
JI 8)'	140 32 35 40	43.4 83.0 82.1	23,140	45.2	22 720+		i i
JI 8)'	32 35 40	83.0 82.1			22,730"	46.7	19,560*
JI 8)'	35 [′] 40	82.1	, ~~ 1				
JI 8) '	40		32,000*]	
JI 8)'		80.6	32,000*	82.6	32,000*		2 *
JI 8) '		77.5	32,000*	79.5	32,000*	81.4	32,000*
JI 8	,	60	74.5	32,000*	76.4	32,000*	78.3	32,000*
8	·	70	71.3	32,000*	73.3	32,000*	75.1	29,610*
1		80	68.1	32,000*	70.1	32,000*	71.8	27,520*
	201	90	64.8	32,000*	66.8	31,920*	68.5	25,740*
	50¹	100	61.5	32,000*	63.4	29,680*	65.1	24,240*
1 20	MOC	110	-58.0	32,000*	59.9	27,800*	61.5	22,920*
1		120	54.4	28,850	56.2	26,080*	57.8	21,730*
1		130	50.6	25,470	52.4	24,740*	53.9	20,810*
1		140	46.5	22,630	48.3	22,630	49.7	19,970*
1	•	150	42.2	20,200	43.9	20.200	45.2	19.280*
<u> </u>			82.8	32,000*	1337			
	Ū	34	82.5	32,000*	<u> </u>	ì		
1		35	1	32,000*	83.0	32,000*		` -
		40	81.0		80.1	32,000*	81.8	32,000*
	•	50	78.2	32,000*	77.1	32,000*	78.9	32,000*
		60	75.2	32,000*	74.1	32,000*	75.9	30,170*
	0'	70	72.3	32,000*	71.1	32,000*	72.8	28,050*
J	IB	80	69.3	32,000*		32,000*	69.7	26,260*
	. 3	′90	66.2	32,000*	68.0	30,610*	66.4	24,720*
1	60'	100	63.0	32,000*	64.8	28,630*	63.1	23,400*
В	MOO	110	59.8	32,000*	61.6	20,030	59.7	22,290*
l l		120	56.4	28,360	58.2	26,880*	56.1	21,260*
- 1	,	130	52.9	24,970	54.6	24,980	52.3	20,480*
-		140	49.2	22,130	50.9	22,130	48.3	19,710
1.	•	150	45.3	19,690	46.9	19,700	43.9	17,610
j		160	41.0	17,590	42.7	17,600	43.7	1 + 1 1 0 ± 0 -
17	401	35	82.8	32,000*	1	•		1.
	JIB	40	81.5	32,000*		1	1	32,000*
١٠	&]	50	78.7	32,000*	80.5	32,000*	82.2	
_	170'	60	76.0	32,000*	77.7	32,000*	79.4	32,000*
	BOOM	70	73.1	32,000*	74.9	32,000*	76.6	30,620*

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✓ Wilmington North Carolina 204 (2)



477H Hammerhead Tip Boom 90,000 Pound Counterweights

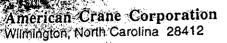
MOOM	JIB	5° JIB	OFFSET	15° JIB	OFFSET	25° JIB	OFFSET
BOOM & JIB	RADIUS	воом	RATINGS	BOOM	RATINGS	BOOM	RATINGS
LENGTH	(FEET)	ANGLE	(LBS)	ANGLE	(LBS)	ANGLE	(LBS)
LENGIN	26	83.0	32,000*	MODE			
	30	81.3	32,000*		1	1	•
40'	35	79.3	32,000*	82.0	32,000*	Į.	1
JIB	40	77.2	32,000*	79.9	32,000*	82.5	32,000*
&	50	73.0	32,000*	75.7	32,000*	78.2	32,000*
100'	60	68.7	32,000*	71.4	32,000*	73.8	28,910*
воом	70	64.3	32,000*	66.9	32,000*	69.3	26,260*
50011	80	59.7	32,000*	62.2	29,210*	64.5	24,210*
	90	54.8	30,740*	57.3	26,800*	59.5	22,410*
	100	49.6	27,820*	52.1	24,760*	54.2	21,020*
·····	28	82.7	32,000*	-			
	30	81.9	32,000*			•	- 1
i	35	80.0	32,000*	82.5	32,000*	02.0	32 000*
40'	40	78.1	32,000*	80.6	32,000*	83.0	32,000*
JIB	50	74.2	32,000*	76.7	32,000*	79.0	32,000*
&	60	70.2	32,000*	72.7	32,000*	75.0	29,700*
110'	70	66.1	32,000*	68.5	32,000*	70.8	27,080*
воом	80	61.9	32,000*	64.3	30,410*	66.5	24,910*
] 200	90	57.5	32,000*	59.8	27,840*	61.9	23,190*
<u> </u>	100	52.8	29,510*	55.1	25,770*	57.1	21,710*
1	110	47.8	27,020*	50.1	24,080*	52.0	20,500*
	29	82.8	32,000*				;
İ	30	82.4	32,000*	,			
1	35	80.6	32,000*	83.0	32,000*		<u>.</u>
40'	40	78.8	32,000*	81.2	32,000*		32 000+
1	50	75.2	32,000*	77.5	32,000*	79.7	32,000*
JIB	60	71.5	32,000*	73.8	32,000*	76.0	30,350*
\ & 1201	70	67.7	32,000*	70.0	32,000*	72.1	27,810*
120'	80	63.8	32,000*	66.0	31,510*	68.1	25,680*
BOOM	90	59.7	32,000*	62.0	28,940*	63.9	23,850*
1		55.5	31,110*	57.7	26,830*	59.6	22,380*
	100	51.0	28,460*	53.2	25,090*	55.0	21,180*
1	110 120	46.2	26,300*	48.3	23,520*	50.0	20,120*
	30	82.8	32,000*	 			
	35	81.2	32,000*			1	
	40	79.5	32,000*	81.7	32,000*		22 000+
401	50	76.1	32,000*	78.3	32,000*	80.4	32,000*
40'	60	72.6	32,000*	74.8	32,000*	76.8	30,940*
JIB	70	69.0	32,000*	71.2	32,000*	73.2	28,460* 26,340*
& 1301	80	65.4	32,000*		32,000*	69.5	26,340*
130'	90	61.7	32,000*		30,020*	65.7	23,000*
воом	100	57.8	32,000*	59.9	27,880*	61.7	21,770*
	110	53.7	29,990*	55.7	26,000*	57.5 53.1	20,690*
	120	49.4	27,630*	51.4	24,480*		19,810*
l l	130	44.7	25,690*	46.7	23,140*	40.3	

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SHEET J9530.02

8110AO2577





Model 9530 Truck Crane - Ratings In Pounds 77H Tubular Boom with Hammerhead 90,000 Pounds Counterweight - American Carrier

	5.40440	воом	FR	ΕE	OUTRIGG	ERS SET	FEETFROM
воом	RADIUS	ANGLE		T		OVER REAR	BOOM POINT
LENGTH	IN FEET	DEGREES	OVER SIDE	OVERREAR	OVER SIDE	OVER REAL	TO GROUND
(FEET)					12,930	18,340°	206
	160	52.4			11,030	15,930*	.198
	170	49.4			9,370	13,740°	189
	180	46.3		1	7,890	11,780*	179
250′	190	43.0			6,570	10,040*	167
250	200	39.5	}		5,390	8,490	154
	210	35.7	•	1	4,310	7,090	139
	220	31.6]		3,350	5,820°	121
	230	26.8			2,460	4,650*	98
	240	21.1			1,660	3,580*	64
	250	13.1		<u> </u>	70,960°	70,960*	267
	39	83.0	ļ	l	70,790°	70,790*	266
	40	82.8			69,340°	69,340	265
	50	80.5		į	67,590*	67,590	263
	60	78.3			57,980	65,500*	261
•	70	76.0			46,900	58,940°	258
	80	73.8			38,640	49,070*	255
	90	71.5			32,810	41,900°	251
	100	69.1			27,710	35,870°	247
	110	66.7			23,550	30,740	243
260′	120	64.3		J	20,080	26,590°	238 232
200	130	61.9			17,170	23,790	232
	140	59.3	1		14,660	20,580*	219
	150	56.7	1	`	12,500	17,810	219
:	160	54.0		1	10,600	15,300*	203
	170	51.3			8,939	13,120*	193
l I	180	48.4			7,460	11,310*	183
	190	45.3			6,130	9.510*	171
<u> </u>	209/	42.1			4,950	7,950	157
1	2/0	38.7	1		3,870	6,520*	152
	/220	35.0			2,900	5,260°	123
	230	30.9	\		2,010	4,090*	100
	240	26.3		1	· \ 0	3,050*	66
	250	20.7	}	}	0	2,060*	
i	260	12.8	l l	1	_1		 -

(NOTE) WE HAVE ONLY 250' OF BOOM Jib CAN be 40' OR GO' ONLY

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8110AO2577

SHEET 9530.01 3



Model 9530 Truck Crane - Ratings In Pounds 77H Tubular Boom with Hammerhead 90,000 Pounds Counterweight - American Carrier

						90,00	00 Po	unds Counte	erweight - Ameri	can Carrier
<u></u>	воом	RADIUS	В	MOON	FR	EE	1	OUTRIGG	ERS SET	FEET FROM
۱,	ENGTH	IN		NGLE -		[<u> </u>	VER SIDE	OVER REAR	BOOM POINT
	(FEET)	FEET	DE	GREES	OVER SIDE	OVER REAR	1 0	VERSIDE	OVER NEAR	TO GROUND
-		70		74.2				59,190	71,640*	230
		80		71.6			i	48,150	59,290°	227
1		90.		68.9			Ì	39,920	50,940°	223
		100		66.2			!	34,050	43,630*	219
!		110		63.5		1		28,960	37,500*	214
		120		60.7			:	24,810	32,580*	209
1	230'	130		57.8		•	:	21,360	28,270°	203
1		140		54.8			:	18,450	24,720°	196
1		150	i	51.7			į.	15,950	22,070	. 189
		160	į	48.4			i	13,800	19,490	180
		170	1	45.0			:	11,910	17,010°	171
1		180	ļ	41.3			•	10,240	14,830*	160
1		190	į	37.3				8,760	12,900	148 133
		200	ļ	33.0				7,450	11,200*	116
1		210	.	28.0				6,270	- 9,610°	94
j		220	, i	22.0		Ì	!	5,200	8,200	62
İ	•	230		13.7			:	4,230	6,890°	}
\perp							- !	86,400°	86,400	247
-		37		82.9		ļ	-	86,240	86,240°	246
-		40		82.2	•	Į.	•	84,610	84,610	245
		50	}	79.7			1	73,850	83,300°	243
		60		77.3			1	58,790	71,170°	240
1		70	· [74.9			ì	47,730	58,750*	237
1		80	1.	72.4				39,500	50,400.*	234
ì		90	1:	69.9			.	33,640	43,140*	230
- 1		100	1	67.3		1	1	28,550	37,030*	. 225
ı		j 110		64.7		- [ł	24,390	31,980	220
-		120	,	62.0			i	20,940	27,750	215
ı	240′	130		59.3	· .		Ì	18,030	24,120	208
		140		56.4	1	1	.	15,530	21,650	201
1	=	150		53.5		l	1	13,370	18,950	193
		160		50.5	1	\	Ì	11,480	16,470*	; 185
	,	170	t t	47.3	}	1	- }	9,820	14,320	175
		180		44.0	1		i	8,340	12,390*	164
	·	190		40.4	1		1	7,020	10,620	151 136
	1	20	1	36.5			1	5,830	9,050*	118
		21		32.2		1	1	4,760	7,650*	96
	.]	22		27.4		1	- 1	3,790	6,380*	63
		23	- 1	21.5		1	- 1	2,920	5,190*	
		24	0	13.4				79,130°	79,130	256
		•	8	82.9		,	ĺ	78,760°	78,760*	
			0	82.5	1	1	1	77,190 °	77,190*	253
		i i	0 .	80.2	ĺ	1	}	73,450	75,830*	251
	1	1	50 \	77.8	\	1	1	58,380	71,940	248
		!	70	75.5	1	1	1	47,310	59,290*	244
			80 (73.1	1	1	Ì	39,070	49,590*	241
	250	,	90	70.7	1	1	}	33,230	42,630°	
		i	00 '	68.2	1		Ì	28,130	36,360*	236
			10	65.8	4		}	23,970	31,360*	232
	1		20	63.2	. \	Ì	ţ	20,510	27,170°	226
			30	60.6		1		17,590	24,200	220
			140	58.0		1		15,090		214
			150	55.2				1		

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Model 9530 Truck Crane - Ratings In Pounds 77H Tubular Boom with Hammerhead 90,000 Pounds Counterweight - American Carrier

воом	RA	DIUS	воом		FR	EE			OUTRIGGE	RS SE	<u>r </u>		FROM POINT
ENGTH		IN	ANGLE	0)/[D CIDE	OVE	R REAR	OVE	RSIDE	OVER	REAR		ROUND
(FEET)	F	EET	DEGREES	UVE	R SIDE	0 7 4					700		37
4.	1	60	40.2	1					5,020		,700 ,450		24
•	1	70	35.5	1		Ì			3,140		5,430		08
200'		180	30.1			ļ .			1,470		1,460°		88
	١.	190	23.7	ļ		Į.]	0,000		2,650*		59
	1	200	14.7	}					8,690		5,320*	-	217
		33	83.0			1			15,320* 15,320*		5,320°		217
	-	35	82.4			1			15,320*		5,320*		216
	1	40	81.0	1		1			98,640		1,560*	1	214
		50	78.3			1			75,030		7,800*	1	212
	ì	60	75.5						59,940		2,600*	1	209
	l l	70	72.6			1			48,940	e	0,370	ł	206
	ł	80	69.8			1		1	40,730	5	1,810	Į.	202
		90	66.8	}		1		Ì	34,820	1 4	4,570	1	197
	4	100	63.8	1.		į.	,	1	29,740) :	38,460	1	192
-401	1 .	110	60.7			1		1	25,600		33,470	1	186 179
210′	-	120	57.6			1			22,160		29,340	}	173
	ļ	130	54.3			1		1	19,250		25,770°	1	162
	ł	140	50.8	İ		ì		Ì	16,760		22,870	1	152
	1	150	47.2	1		1		1	14,600	1	20,290	.	141
	1	160	43.3	ļ		1		1	12,720	1	18,040	ļ	127
	Ì	170	39.2	1		1		1	11,060	•	15,910*	-	111
	Ì	180	34.6	Ì		1		1	9,590	1	13,950*	1	90
	1	190	29.3	1		1		- 1	8,270	1	12,200*	1	60
		200	23.1			į		1	7,090	i	10,590*		
	Ì	210	14.3	\					103,880*		103,880	1	227
			82.8			- 1		- }	103,500	ł	103,500*	ŀ	226
	l	35	81.4	- 1		1		- 1	98,300	1	102,340*	1	224
	1	40				1		l	74,660	1	88,590*	Į.	222
	1	50	78.8	1		1		}		- 1	72,070*	1	219
	1	60	76.1		•	- 1		1	59,580 48,560	1	59,850*	1	216
	1	70	73.5			1		1	40,350	1:	51,430*	1	212
	}	80	70.7	•		1		1	34,450	- 1	44,210	- 1	208
	1	90	67.9		-	1.		l	29,370	- I.	38,090	ļ	203
į	- 1	100	65.1					1	25,240	}	33,110	1	197
	. 1	110	62.2			1	,	. 1	25,240		28,790	•	191
220	, ,	120				1		1	18,880		25,300	•	184
į	1	130	۱			1		1	16,390		22,500		176
	Ì	140	م ا			1		1	14,230		19,910		167 156
	1	150	40	1		1		1	12,340		17,580	•	144
	. 1	160	'			1		1	10,680		15,430	,*	130
1		170	´ l aa			1		1	9,20		13,450)	114
1		180	, ,					ţ	7,89		11,740	P"	92
1		190	~ 1 ~~				1		6,70		10,13	ן יינ	61
į.		20	٠ ١	2.5	•				5,65	io 1	8,70	<u> </u>	
١		21	_ 1	.0					1		94,60	00.	237
l		22	·~						94,6	υ υ	94,2	80°	236
		3		2.8				•	94,2	20°	92,9	30°	235
		1 4	10 8	1.8			1		92,9		88,6	en*	233
1				9.3			1		74.2	~~		QU	l

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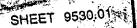


Model 9530 Truck Crane - Ratings In Pounds 77H Tubular Boom with Hammerhead 90,000 Pounds Counterweight - American Carrier

			•	in the state of			
· · · · · · · · · · · · · · · · · · ·	242112	воом	FRE	F T	OUTRIGGE	RS SET	FEET FROM
BOOM	RADIUS IN	ANGLE	T		OVER SIDE	OVER REAR	BOOM POINT
LENGTH (FEET)	FEET	DEGREES	OVER SIDE	OVER REAR		<u> </u>	TO GROUND
(PEEI)		82.7			158,580*	158,580	187
	30	1			158,580*	158,580*	186
Ì	35	81.1			139,340	149,200°	186
.	40	79.5 76.3			99,740	113,880*	183
1.	50	73.0	1		76,220	89,790°	181
!	60	69.6	1		61,120	74,450*	177 173
	70		ļ		50,160	62,060*	168
, ·	80	66.2			41,980	52,710*	163
180'	90	62.7			36,010	45,750	156
	100	59:0	li I		30,950	39,650	
	110	55.2			26,830	34,690	149
1	120	51.2			23,390	30,560	140
ļ	130	47.0	!		20,480	27,080	130
1	140	42.5		į	18,000	24,100	118
	150	37.5	,	İ	15,850*	21,530	103
1	160	31.8			13,960	19,270	84
ነ	170	25.0	1		12,310	17,290	56
<i>'</i>	180	15.5		<u> </u>	141,400°	141,400°	_197
 	31	82.8			141,400*	141,400*	197
ļ	35	81.6				141,400*	196
ł	40	80.1	,	1	139,020 99,380	113,280*	194
	50	77.0	Ì		L .	89,100	191
1	60	73.9		i	75,820	73,830*	.188
	70	70.7		į	60,740	61,510°	184 A
,	80	67.5	ļ		49,760	52,250	180
* \ \	90	64.2	\		41,570	45,370	1 2 174 4 4
. 2	100	60.8			35,620	39,260	168
190′	110	57.3			30,560 26,430	34,300	161
1	× 120	53.6			22,990	30,170	153
l l	130	49.8			20,090	26,680	144
l l		45.7	1		17,610	23,710	134
Ì	140	41.3			15,450	21,130	4472
1	150			4 . 4	13,560	18,870	# 106
1-	160	30.9		1 11 1	11,910	16,890	
ļ l	170	24.3	· · · · · · · · · · · · · · · · · · ·		10,430	14 900	生物的 人名
l l	180		34			1127,700;	* *** * 207.
	190		The state of the s	2000年,人中的1000	A27,700	127/700	
	32	82.9		A STATE OF THE STA	127,700	127,700	206
	32 , 35	82.0	23 5 44 7 5 4 6		127,700		PT 204
	40	ነ ፡፡ - ነገ ፡፡ ም''BU.O	于 国内联系管辖区	and the Marian	99,000	#100 V20	201
n to a line with the	5.35.55	分类 计写 77.7			75,420	2,460 39,420 3,78,700	198
	6	1. 10. 200 March 1984 1982 1984 1984 1984 1984 1984 1984 1984 1984			60.340	1 60.930 ·	# 75195. \
	7.7	100 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1		Land Bar	# 49,340		191 (5)
L'agradus de la company de la company de la company de la company de la company de la company de la company de	A A	0 1 68.7	45 CONTRACTOR OF THE PROPERTY	数: 除在第二次	41:150	# 62,220 kg	186***
20		65.6 30			35,210	1,44,960	180
		00 6234			30,150	# (* 138,860)	474
ALCO A TO A STATE OF		- A-A-			26,010	33,880 3	166 1
FE VILLA	イニニカー (1965年) 2000年 日 神子 (1965年) 1100年	Andrews and the Contract of th		in in a second	¹ 22,570	29,750	
				Carlo Company	19,670	26,210	168 148 148 148 148 148 148 148 148 148 14
CLAD.				Part of the second	** ***********************************	23,280	
		三字 洗泥 医线		en grand and an artist of the second and artist of the second artist of the second and artist of the second and artist of the second artist of the second and artist of the second artist of the second artist of the second artist of the second artist of the second artist of the second artist of the second artist of the second artist of the second artist of the second artist of the second artist of the second artist of the second artist of the second artist of the second artist of the second artist of the second artist of the second artist of the second artist of the	The state of the s		Table 1
		50 44.	<u> </u>	A Same of the second	心鬼 化二乙基 山東新	MA THE SHOP	《文文》

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Model 9530g rück Granet. Ratings in Pounds 77H Tubular Boom with Hammerhead 5000 Pounds Counterweight - American Carrier

			A STATE OF THE STA	. 4					3 5.1	A SAME	Carl Carlotte		DEFFT	FROM	÷į	
*				_: <u>_:</u> _	-	FRE	Ē		T 338	OUTRIGG	ERSSE	S 33 / 14	BOON	POINT		
1	воом»,	B/A	DIUS	воом	1000 1000	2 Walter 1971			- OV	R SIDE	.ovef	REAR	TÔG	ROUND		
1 6	ENGTH	77	an i	ANGLE	OVER	SIDE	OVE	REAR	*				7	157		•
	(FEET)	7		DEGREES	75 PM		(4)	V.	2	27,370		7,370*	1.4	157	à	
-		<u>- </u>	26	82.8	1		14.0			12,120	21	2,120°	. 4	156	7.	,
-		3	.30	, 81.3			10.00			72,590		4,520		155.	-	
1			35	79.4	7	-	1		1	40,280		9,110		152	1	
1	· .		40	77.4			••.		1	00,760		4.060	١.	149	1	
-	``		50	73.5	} - '			27	1	77,330	, je 1	91,520°	1	145	1	
- 1	•	A-1	60	69.5	1		l		1	62,220 . ₇		76,220	1	140	1	
-	•	· }	70 -	65.3	1	÷	Ì		1	51,290		63,760* 54,190	\	134	1	
	150′	1	\ ₈₀	61.0				i		43,150				126	1	
1	34.		. 90	56.6			}	•	1.	36,830		46,830	1	.118	1	
- }			-100	51.8	1		1		1	32,060	1	40,740	1	107	}	
- 1		- 1 5	110	46.8			1		\	27,940	1	35,790	1	94	1	
	i	:	F[20]	41.2		·	1		1	24,510	i	31,670	100	77	- }	
ļ	j		130	35.0	<u>.</u>]	· · ·	1		- 1	21,600	1.	28,180	1	.52	1	
- }	1	1	140	27:5	4	•	1		- }	19,110_		25,200		167	_	
Ì	•	1	150	17.1						200,040	_	200,040*	1	167		
1				82.9			1		1	200,040	Ì	200,040*	1	166	- 1	
Ī		. !	27	81.8	\	•	1		- }	172,290	l	175,750	, ' `	165	Ì	
1		1	30	80.0	1		1	`.	- 1	139,960	1	148.820	*' \	163	1	
1		į	35	78.2	1		- }		1	100,400	1	113,730*	-	160	1	
		ļ	. 40		1		-		1	76,940	1	90,760*	.	156	,	
	\	1	50	74.5	1		1	`.	- \	61,840	1	75,640°	1	151	1	
	1	1	60	70.8			- 1	``			.	63,360*		145.	. 1	
	1	Į į	70	67.0	1		l	1	1	50,910	į	53,710°	'		· . \	
	1	.	80	63.0			1.	1	- 1	42,750		46,460		139		
	160		90	58.9	' \		1		}	36,730		40,380		131 '		l
	}	į	100	54.6	,		1			31,680		35,410		122		1.
		1	110	50.1	i' \		1		.	27,560		31,290		111		1
		!	120	45.	2		Ì	J."		24,130)	27,810		97,		1
	1	ļ	130	39.	8		1		1	21,220)	24,830		80		1
45*	1		L	33.			1		1	∀18, Ž31		22,240		53		
÷.	1		140				1		Ì	16,57	0			177		\
	1		150	1 40						176,64	0*	176,640	*	17,7	1	i
4	}	_	160				Ī			176,64	10.	176,64	U_	17,0	3	1
4			28	'	2.3		l			172,00	00 1	176,64	0 }	*17	È,	
ă;	- {		30	1 "	0.6	•	1			139,6	70 Å	149,43	, l	17	31	$-\left\{ i_{1}^{i}\right\}$
			1 . 35	· 1 -						100.0	90	112,95	50	17	φ	
	-1/		4		8.9					76,6	10	90,5	30 1	17	57	1.
	V_{\cdot}			· .	5.5] .		61,5		75,0	90		52	1
	į	•	· 6		2.0			1		50,5		62.6	00		57	-
	11		1		8.4			1		42,		53,4			51	<u>,</u> 1
1	/ '				54.7		٠.				410	46,1			44	
	1	170'	-		60.9			1			350	40,0			36	ļ
/	1		. 1	00	57.0		44			31,	,230		090		126	1
(1	•		10	52.8		•				,230 ,790	30,	960	1	114	1
١,			•	20	48.5	Area Cont.					900		480		100	1
, §.		·≠ ·		130	43.8 🦯	\		1			,410		,500		82	į
-		3		140	38:6	1		1			3,260		,930	ĺ	55	
· y.		-05.		150	32.8	1	-	1			4,37 <u>0 </u>	' 19	,670			
1	,			160	25.7	1		.			4,370					
4-	\		1.	170	16.0			, elus	K.							
	\									•						

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SHEET 9530:01



American Crane Corporation
Wilmington, North Carolina, 28412

Model 9530 Truck Crane - Ratings In Pounds 77H Tubular Boom with Hammerhead 90,000 Pounds Counterweight - American Carrier

***	, 📆				,	***	1 4 4	·	a " 1
		*.				OUTRIGGI	ERS SET	FEET FROM	F .
800M	RADIUS	воом	FRE		Wasa J	2000 2000 10 10	OVER REAR	BOOM POINT	• '
LENGTH	IN A	ANGLE	OVER SIDE	OVER REA	R OV	ER SIDE	OVER REAR	TO GROUND	· ^
TERNOTH,	÷	DEGREES	OAFH SIDE	0,0 2.1, 112				91	J. · ·
(FEET)	<u> </u>		20,450	24,850	•	52,670	65:410		
	80	48.6	20,450	20,730		44,550	55,560	81.	1
Art San	90	* 41.2	16,860*			38,270	47,970	67	-4
110′	100	32.3	13,960*	17,470		33,330	42,000	46	1 6
1	110	20.1	11,630	14,890			309,800*	128	1
44 31	110		0*	4116,210		309,880*	309,800	127	
	22	82.9	0*	107,850		263,390°	263,390*		
100	25	81.5		88,610		212,700	212,700	126	
	30	79.1	0*			173,430	177,130	ં 125 🥸	
	7 May 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	76.7	0*	73,350)**s - {		151,460°	124	- Z
	35	L .	o* `	62,240)*	141,200	115,780	121	19
A to	40	74.2	38,230	46,930	o*	101,770	37,000	116	1
Transit.	50	69.2	30,230	36,76	o*	78,440	93,050	111	3 7.(
120	60	64.0	30,240*	29,85	n• I	63,310	78,010°		
120	70 4	58.5	24,570*	25,03	ă• Ì	52,420	65,170	104	ì
,		52.7	20,050*	24,54	0 ;	44,300,	55,320	. 95	1
	80	46.4	16,470*	20,43		38,010	47,710	,84	į į
"	90	C.5 1-3*****	13,580*	17,16		38,010	41,810	70	
	100	39.3	11,320*	14,65	io !	33,140	36,830	47	. :
	110	30.9	0.000*	12,40		29,000		137	
	120	19.2	9,260*	1		278,690	278,690°		: :
	24	82.6	0*	109,5	50-	264,920	264,920°	137	
. 1		82.2	0*	106,8	10		211,870°	* 137	
	25	79.9	0*	0,88	80 👸	211,870	176,380*	136	
<u> </u>	1 30	77.7	0*	72,8	40**	្លាំ73,160	150,820	134	. 4
	35		0*	61,7	40*	140,900	115,400	131	1 8
	40	75.4	i 37,660*	46,4	40*	101,430	92,490	1275	
	50	70.8	37,000 - 50,000	36.2	280*	78,070	92,430	vi s	
	60	66.1	29,600°	20,2	00*	62,950	77,490°	4.3	7
130	70	61.2	23,970	20,	80*	52,050	64,750°	109	
	80	56.0	19,450°	1 / .	100 i	43,910	54,940		ŀ
ļ		50.5	15,880*		980 È	37,620	47,340	99	į
	90	44.5	13,000*	16,	720 j		41,460	188	
89 Fra	100	••	10,800	/ 14,	240	32,780	36,500	72	A
e i 🕶	110	37.7	8,760	12:	010	28,660	32,360	49	, , , , , , , , , , , , , , , , , , ,
*	120	29.6	7,000	h	100	25,210	i	• 1 147	
· sa	130	18.4				259,280	259,600	' l <u> </u>	\
7		82.7	0		850	211,720	• 211,/24	• 147	- {
24	25		l o	• \ 87	580	470.000	000)* 140	
1	30	80.7	_	• \ 72	2,350	172,880	1)* ¦ 145	
	35	78.6	! .	• 6	1,270*	140,590	444451		1
ļ	40	76.5			6,000	101,110	04.02	138	1
<u> </u>	50		37,000	·	5,830 °	77,710	91,82		
}		1	, j 29,00t		5,030 5,030	62,610	76,75	0. 128	, .
1	60	' 1	: 00 40V	o* 2	8,970°	51,680	64,37		
14	o' \ 70		40.00	o* .2	3,650	43,54	·	12	
\ .	` √ ` 80	58.7	45.00	o* ']	9,550	93,04		so (* 119	
5 1	90	53.8	1 40 45	ō• . I	6,290	37,24	• l	30 10	
1	10	بمصند	5	- 1	13:860	32,45	0 1		1
,	11		8 10,30	•	11,630	28,33	1 1	10 1	. 5
\		المنتسب ا	8.28		9,740	24,88		** }	50
1	كيب ا		<u>. 6</u> 54	0	0,179	21,97	70 28.5	<u>برداد</u> ۱۹۰۰	
	1.203	5 6 1 65 L		30*	8,120				
*		10 17	<u></u>	TO AND THE REST					

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SHEET 9530:01



Model 9530 Truck Crane - Ratings in Pounds 77H Tubular Boom with Hammerhead 90,000 Pounds Counterweight - American Carner

					OUTRIGG		FEET FROM
воом	RADIUS	воом	FR	<u> </u>			BOOM POINT
ENGTH	IN	ANGLE DEGREES	OVER SIDE	OVER REAR	OVER SIDE	OVER REAR	TO GROUND
(FEET)	FEET			142,320*	440,000*	440,000*	78
	16	82.8	0*	127,420*	349,600*	349,600*	77
1	, 20	79.5	0*	112,440°	265,050*	265,050	76
1	25	75.4			213,710*	213,710*	75
	30	71.1	0*	90,820*	174,400	178,330°	73
70'	35	66.7	0*	75,470*	142,270	153,700*	70
1	40	62.2	0°	64,250°	102,980	118,370*	64
ļ	50	52.4	o *	48,830*	•	95,230*	54
	60 ·	41.0	0*	38,660*	79,790 64,560	79,580*	38
	70	25.6	26,890*	31,560*		433,460*	- 88
	17	83.0	0*	137,070*	433,460° 349,360°	349,360*	88
	20	80.8	o*	126,340°		264,510°	87
	25	77.2	0*	111,470°	264,510°	213,340*	85
	30	73.5	0*	90,390*	213,340°	213,340	84
	35	69.8	0*	75,060*	174,260	179,180*	
80'	1 .	65.9		63,870*	142,120	153,320°	82
	40		0*	48,460*	102,790	117,580*	76
•	50	57.8	32,320*	38,300°	79,560	94,930*	68
	60	48.8		31,260°	64,380	79,440	. 58
	70	38.2	26,470*		53,500	66,210	40
	80	23.8	21,870*	25,910°	·	373,410°	98
	19	82.5	0°	128,650*	373,410*	348,810*	98
	20	81.9	0*	125,350*	348,810*		97
•	25	78.7	0*	110,570*	264,950°	264,950*	96
	1	75.4	0*	89,970*	213,210*	213,210	94
	30	72.1	0*	74,660*	174,100	178,840*	92
	35		0*	63,480*	141,920	152,970°	
- 90'	40	68.7	0.	48,110*	102,580	117,600*	88
	50	61.7		37,950*	79,320	94,800*	81 .
	60	54.2	31,840	30,950°	64,160	79,130*	73
	70	45.8	26,040*	30,950	53,290	66,020	61
	80	35.9	21,480	25,620*	45,170	56,170	42
	90	22.4	17,850*	21,490*		348,120*	108
	20	82.7	0*	124,250*	348,120*	265,520*	107
		79.8	0*	109,550*	265,520*		
	25	76.9	0*	89,470*	213,930*	213,930*	1
	30	3	0*	74,180°	173,870	177,980°	
	35	73.9	0*	63,020°	141,670	151,860	1
1001	40	70.9	0.	47,680*	102,290	117,040	1
1001	50	64.8		37,520	1	93,970	1
	60	58.2	31,250°	30,550*		78,610	
	70	51.2	25,500°	30,550	1	65,710	77
	80	43.3	20,950*	25,220°	1	55,870	64
!	. 90	34.0	17,350°	21,110*	38,580	48,280	44
ļ	100	21.2	14,430	17,840		328,320	• 118
		82.8	0,	120,170°	328,320		1 447
	21		0*	108,610	263,830		
	25	80.7	0*	88,990	212,620	212,620	'
ļ	30	78.1	0*	73,730	173,640	177,040	' 1
	35	75.4		62,600	and a Common and	152,050	' 1
110'	40	72.7	0*	02,000	1	116,510)• 105
1	50	67.2	38,770*	47,260			ne 105
į.		61.4	30,690*	37,110		1	99
	60	1 01.4	24,980*		• 63,560	78.43	ו ט

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