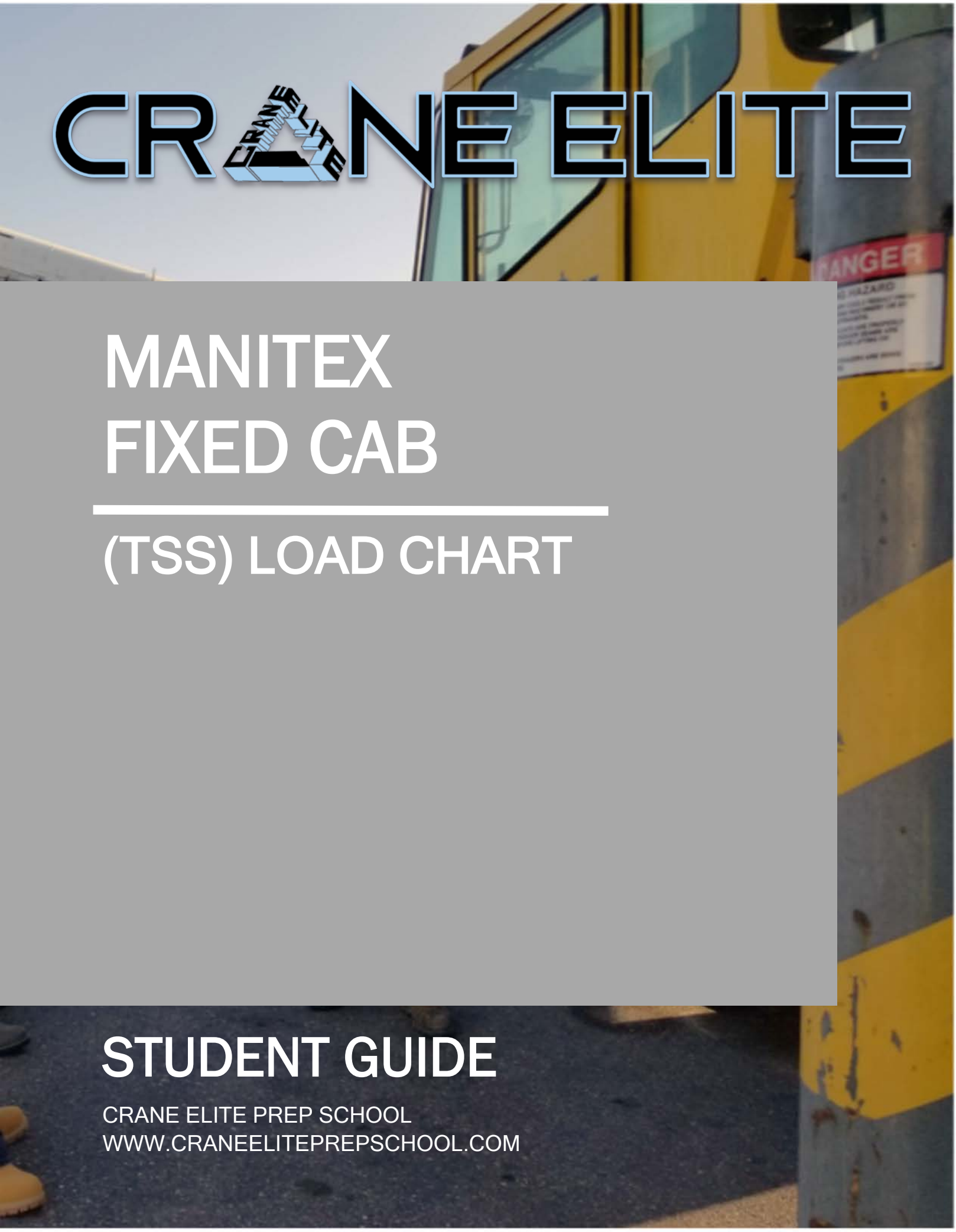

CRANE ELITE

MANITEX FIXED CAB

(TSS) LOAD CHART

STUDENT GUIDE

CRANE ELITE PREP SCHOOL
WWW.CRANEELITEPREPSCHOOL.COM

LOAD CHARTS for Use in CCO Written Examinations

MANITEX

TELESCOPIC BOOM CRANE—FIXED CAB (TSS)

These charts have been adapted from the original manufacturer's charts for use in NCCCO Written Examinations.

These charts are not to be used for any other purpose.

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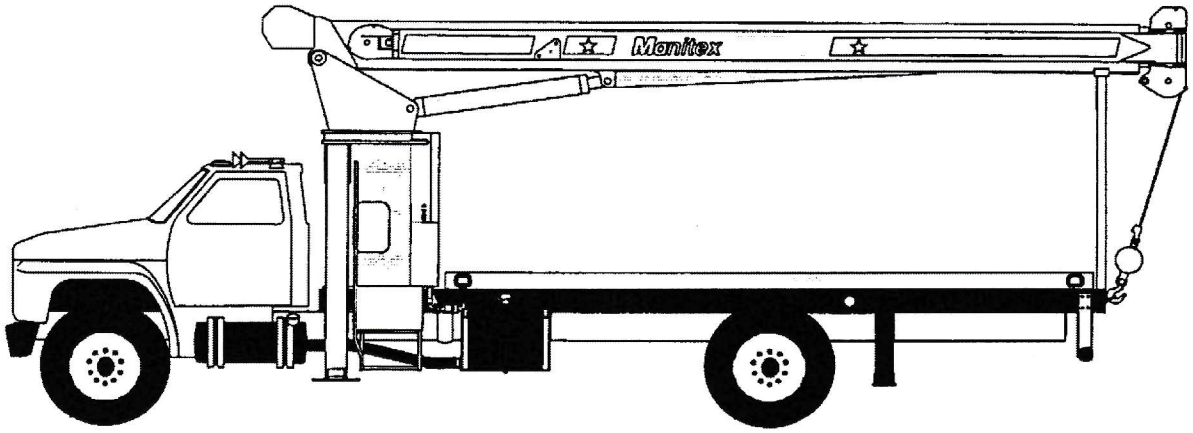
Millennium Series™ General Specifications



Model shown with optional jib.

STANDARD EQUIPMENT

- 2-Speed planetary hoist.
- 5-Ton (4.5 mt) hook and ball.
- 2 Sheave boom point.
- Anti-two-block shutoff.
- Boom hoist cylinder.
- System pressure gauge.
- 70-Gallon (265-liter) hydraulic reservoir.
- Removable boom rest.
- Finish paint in Manitex colors.
- Engine start/stop.
- Operator/service/parts manuals.
- 3-Section Telescopic boom 26' to 68' (7.93 m to 20.73 m).
- 260 Feet (79.25m) of 9/16" (14.3 mm) EIPS IWRC wire rope.
- 372° Non-continuous rotation.
- Pedestal, turret, rotation bearing and swing system
- Dual operator control stations.
- Hydraulic capacity alert warning system (HYCAS) - audio.
- Audible outrigger/stabilizer motion alarm.
- A-frame link type outriggers.
- A-frame rear stabilizer.
- 3-Section vane type hydraulic pump.
- Signal horn.
- 18-Foot (5.49m) Subframe.

STANDARD SPECIFICATIONS AND FEATURES

BOOM — 26' To 68' *(7.93m to 20.73m)*. Inverted-T cross section. 3-Section telescoping type, extended and retracted proportionally by double-acting hydraulic cylinder and cable-crowd system. Maximum tip height 79' *(24.09m)*.

BOOM POINT — Two high-density nylon sheaves mounted on heavy-duty roller bearings. Two removable pin-type rope guards.

HOIST — Maximum theoretical line speed 247 fpm *(75.29 mpm)*. Maximum theoretical bottom-layer line pull 12,000 lb *(5,443 kg)*. Two-speed planetary reducer. Spring-applied, pressure-released internal brake.

WIRE ROPE — 260' *(79.25m)* of 9/16" *(14.29mm)* diameter 6 x 25 EIPS IWRC.

BOOM ELEVATION — Double-acting hydraulic cylinder. Working range from 13° below horizontal to 80° above.

SWING SYSTEM — Externally mounted, double-reduction planetary driven by hydraulic motor. Maximum theoretical swing speed 1.80 rpm. Wet multi-disc internal brake is spring applied, pressure released. Oversized diameter ball bearing swing circle with external gear. 372° Non-continuous rotation.

OUTRIGGERS — 20'10" *(6.13m)* Extended. A-frame link type. Operated independently for precise leveling. Equipped with double-acting hydraulic cylinders. 16" x 20" *(406mm x 508mm)* Pivoting pads. 8 ½" *(215.9mm)* Maximum rise.

A-FRAME STABILIZERS — 8' *(2.44m)* Retracted; 10' *(3.05m)* extended. Operated independently for precise leveling. Double-acting hydraulic cylinders. 8" x 11" *(203mm x 279mm)* fixed pads. 9" *(229mm)* Maximum rise.

SUBFRAME — Torsionally resistant, rigid 4-plate design. Mounted under crane full length of truck frame.

REAR UNDERRIDE PROTECTION — Supplied on factory mounted cranes. Fabricated structure mounted under rear of bed.

BACK-UP ALARM — Supplied on factory-mounted cranes. Electronic audible motion alarm activated when truck transmission is in reverse gear.

MOUNTING — Pedestal and subframe are mounted to chassis by threaded rods and clamp plates. No welding, drilling, or bolting to truck.

CONTROL SYSTEM — Dual operator stations are equipped with four single-lever crane controls arranged to ANSI B30.5 standards. Fully proportional control valves and system pressure gauge. Each station also includes outrigger and stabilizer controls, engine start/stop, foot throttle, signal horn, capacity light indication, boom-angle indicator, bubble levels, load chart and range diagram.

HYDRAULIC SYSTEM — A 3-section vane pump direct mounted to power take-off on truck transmission provides 35 gpm *(133 lpm)* to the hoist, 8 gpm *(30 lpm)* to the swing circuit and 18 gpm *(68 lpm)* to other crane functions. 70-Gallon *(265-liter)* baffled reservoir includes 10-micron filter in the return line. Extensive use of SAE O-ring and face seal O-ring hydraulic fittings.

HYDRAULIC CYLINDERS — All are equipped with integral holding valves.

BOOM REST — Heavy-duty fabrication. Easily removed to simplify loading and unloading.

LOAD HOOK — 5-Ton *(4.5-mt)* capacity hook with heavy-duty swivel and weight is provided for single-line operation.

HYDRAULIC CAPACITY ALERT SYSTEM (HYCAS) — Hydraulically senses boom hoist cylinder pressures and indicates an overload condition with an audible alarm. Optional shutdown prevents continuing overload.

ANTI-TWO-BLOCK SYSTEM — Audible warning and shutoff functions prevent hook from contacting boom point.

ELECTRICAL — 12-Volt direct current. Environmentally sealed enclosure contains accessory circuit, terminal strips and relays. In-line fuse.

DESIGN/WELDING — Design conforms to ANSI B30.5. Welding conforms to AWS D1.1.

MANUALS — Operator, service and parts manuals depict correct crane operation, maintenance procedures and parts listing.

WARRANTY — 12-Month warranty covers parts and labor resulting from defects in material or workmanship.

OPERATOR ASSIST FEATURES

- Anti-Two-Block Warning and Shutoff
- Capacity-Alert System, Audio Warning
- Load Chart/Range Diagram
- Boom-Angle Indicator
- Audible Outrigger/Stabilizer Motion Alarm
- Engine Start/Stop
- Signal Horn
- Back-Up Alarm

OPTIONS

ELECTRONIC CAPACITY ALERT SYSTEM (ECAS) — Electronically senses boom hoist cylinder pressures. Color-coded gauge at each operator station and audible alarm indicate approaching overload. Optional shutdown system hydraulically prevents continuing overload.

FIXED SWING-AROUND JIB — 23' *(7.01m)* Fixed length. stows along boom base. Maximum tip height 101' *(30.79m)*.

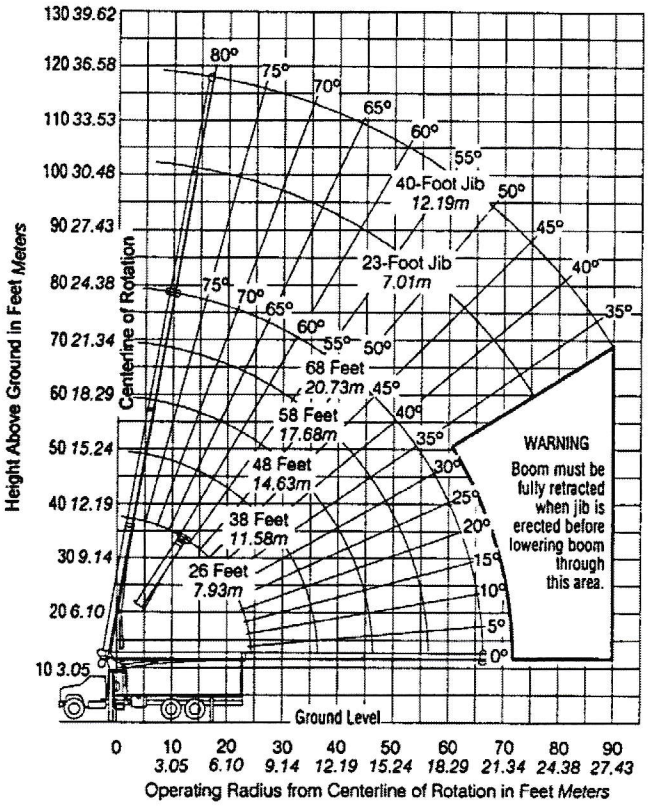
TELESCOPIC SWING-AROUND JIB — Working lengths 23' *(7.01m)* and 40' *(12.19m)*. Stows along boom base. Telescopic section stows inside jib base. Manually pinned in retracted or extended position. Maximum tip height 118' *(35.97m)*.

H-STYLE STABILIZERS — Two vertical double-acting hydraulic cylinders - 18" *(457.2mm)* stroke with 12" *(304.8mm)* diameter pivoting pads.

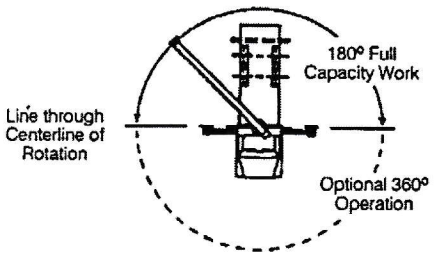
BED — Choice of 8' x 14' to 20' lengths *(2.44m x 4.27m to 6.10m)*. Deck of high density hardwood or diamond steel tread plate. Cross sills on 12" *(305mm)* centers. Bolts to subframe.

- 9/16" *(14.3mm)* rotation-resistant wire rope.
- Hook blocks for 2- to 4-part load line.
- Hanger sheave for 3- or 4-part line.
- Aerial baskets, 1- or 2-person.
- Top mounted work platform.
- Radio remote-control operation.
- Front-bumper stabilizer for 360° operation.
- Hydraulic swivel for continuous rotation.
- Capacity overload shutdown system.
- Dunnage/tool boxes.
- Air throttle.
- Various mountings.
- Special paint.
- Roofing application.
- Hydraulic hose reel.

Manitex Range Diagram



AREA OF OPERATION



WEIGHTS

Total crane, including hydraulic fluid..	13,900 lb	*6,305 kg*
23' (7.01m) Fixed length jib	545 lb	*247 kg*
40' (12.19m) Telescopic jib	820 lb	*372 kg*
15-Ton (13.6-mt) single-sheave block	260 lb	*118 kg*
20-Ton (18.1-mt) double-sheave block	350 lb	*159 kg*
Hanger sheave for 3- and 4-part line	50 lb	*23 kg*
20'4" (6.20m) steel or wood bed	1,900 lb	*862 kg*

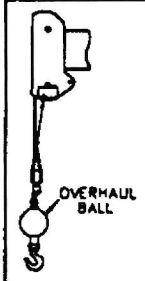
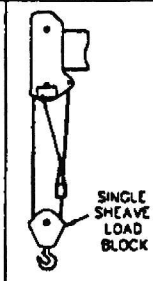
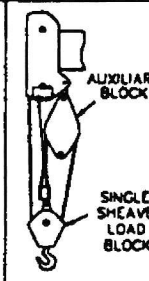
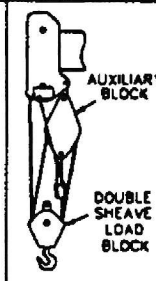
DEDUCTIONS

Auxiliary Block	50 lb	*22.68 kg*
Overhaul Ball	120 lb	*54.43 kg*
Single-Sheave Load Block	260 lb	*117.93 kg*
Double-Sheave Load Block	350 lb	*158.76 kg*
Hose Reel	190 lb	*86.18 kg*

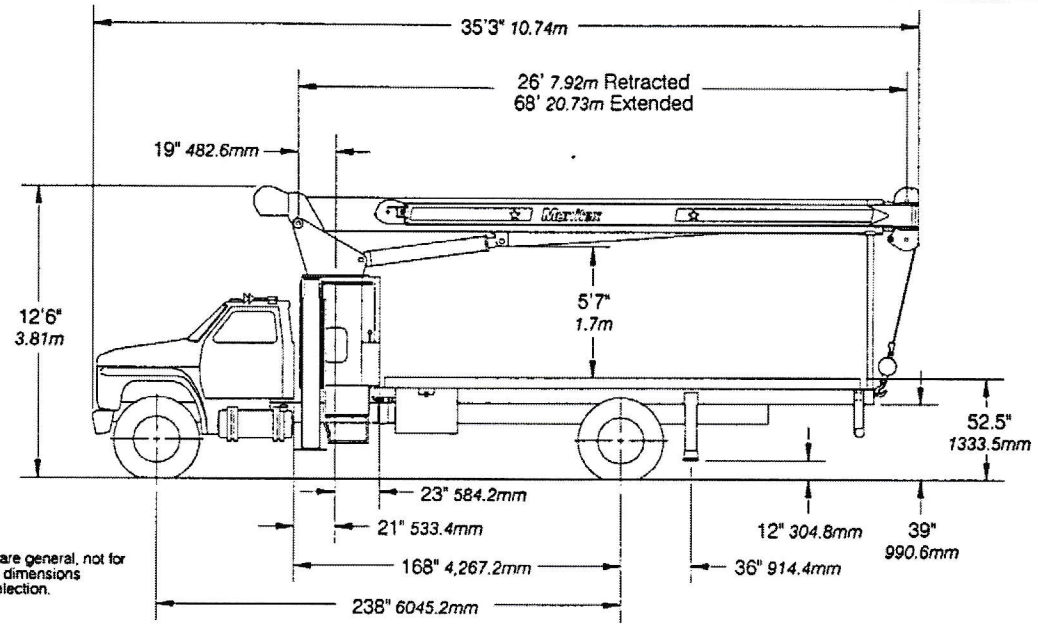
Swing-Around Jib (Stowed) ..... See Load Rating Chart

WARNING
Lifting off the main boom point while the swing-around jib is erected is not intended or approved.

ALLOWABLE LINE PULL

1 PART LINE	2 PART LINE	3 PART LINE	4 PART LINE	WARNING
				Anti-Two-Block system must be in good operating condition before operating crane. Refer to Owner's Manual. Keep at least three wraps on load line on drum at all times.
8500 lb 3856 kg	17000 lb 7711 kg	25500 lb 11567 kg	34000 lb 15422 kg	9/16" (14.29 mm) 6x25 IWRC (3.5:1 SF). 29750 lb (13494 kg) Minimum breaking strength.
7400 lb 3357 kg	14800 lb 6313 kg	22200 lb 10070 kg	29600 lb 13426 kg	9/16" (14.29 mm) Rot resistant (5.0:1 SF). 37000 lb (16783 kg) Minimum breaking strength.

OUTLINE DIMENSIONS



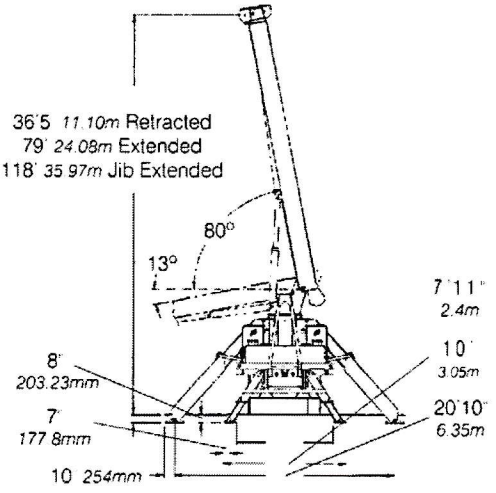
These dimensions are general, not for engineering. Some dimensions depend on truck selection.

TRUCK CHASSIS DATA

Minimum Requirements

Some configurations and options may increase requirements

Wheelbase	238 In	6,045mm
Cab to Axle	168 In	4,267mm
Frame Section Modulus	18 In^3	3.295cc
	50,000 psi	344,750 kPa
Frame Section Modulus	15.9 In^3	260cc
	110,000 psi	758,450 kPa
Nominal Frame Width	34 In	864mm
Front Axle Gross Weight Rating	12,000 lb	5,443 kg
Rear Axle Gross Weight Rating	21,000 lb	9,525 kg



Manitex Inc.

P.O. Box 1609 ■ Georgetown, TX 78627-1609 ■ Tel (512) 942-3000 ■ Fax (512) 863-3776

LOAD RATINGS IN LBS WITH OUTRIGGERS AND STABILIZERS EXTENDED											JIB LOAD RATINGS WITH OUTRIGGERS AND STABILIZERS EXTENDED				
OPERATING RADIUS FT	LOADED BOOM ANGLE / BOOM LENGTH	26 FT		38 FT		48 FT		58 FT		68 FT	OPERATING RADIUS FT	LOADED BOOM ANG	23 FT. JIB FOR ALL BOOM LENGTH SEE WARNING NOTE*	LOADED BOOM ANG	40 FT. JIB FOR ALL BOOM LENGTH SEE WARNING NOTE*
	∠		∠		∠		∠		∠			∠	RATED LOAD IN POUNDS	∠	RATED LOAD IN POUNDS
5	77	34000													
8	70	24000	77	21500											
10	66	20110	74	18460	78	14600					10				
12	61	17360	71	16010	76	12680	79	11810			12				
15	52	14310	66	13320	72	10500	76	9830	78	9200	15				
20	36	10490	57	10350	65	8160	70	7690	74	7280	20	78	3500		
25			47	8310	58	6570	65	6240	70	5910	25	75	3060	78	1940
30			36	6610	51	5420	59	5200	65	4940	30	72	2700	75	1690
35			17	4560	42	4470	53	4390	60	4200	35	69	2400	72	1490
40					32	3580	47	3720	55	3610	40	65	2150	70	1320
45					16	2380	39	3120	50	3110	45	62	1950	67	1180
50							29	2500	43	2670	50	58	1770	64	1060
55							15	1610	36	2240	55	55	1550	61	960
60									28	1780	60	50	1350	58	870
65									14	1400	65	46	1160	55	790
70											70	41	1010	51	730
75											75	36	830	48	670
80											80			44	610
85											85			40	570
90											90			35	520
95											95				
100											100				
	480 LBS.		330 LBS.		260 LBS.		220 LBS.		190 LBS.		DEDUCTIONS FOR STOWED JIB				

WARNING

1. THE OPERATOR MUST READ AND UNDERSTAND THE OWNER'S MANUAL BEFORE OPERATING THIS CRANE.
2. POSITIONING OR OPERATION OF CRANE BEYOND AREAS SHOWN ON THIS CHART IS NOT INTENDED OR APPROVED EXCEPT WHERE SPECIFIED IN OWNER'S MANUAL.
3. LOADED BOOM ANGLES AT SPECIFIED BOOM LENGTHS GIVE ONLY AN APPROXIMATION OF THE OPERATING RADIUS. THE BOOM ANGLE BEFORE LOADING SHOULD BE GREATER TO ACCOUNT FOR DEFLECTIONS. DO NOT EXCEED THE OPERATING RADIUS FOR RATED LOADS.
4. THE OPERATING RADIUS SHOWN IN THE JIB RATING CHART IS FOR FULLY EXTENDED BOOM ONLY. WHEN BOOM IS NOT FULLY EXTENDED, USE ONLY LOADED BOOM ANGLE TO DETERMINE LOAD RATING OF JIB. DO NOT RELY ON CAPACITY ALERT SYSTEM WHEN LIFTING FROM JIB.
5. BOOM MUST BE FULLY RETRACTED WHEN JIB IS ERECTED, BEFORE LOWERING BOOM THRU THIS AREA.
6. FOR BOOM ANGLES NOT SHOWN ON JIB LOAD RATING CHART, USE RATING OF NEXT LOWER BOOM ANGLE.
7. FOR BOOM LENGTHS NOT SHOWN, USE RATING OF NEXT LONGER BOOM LENGTH. FOR RADII NOT SHOWN, USE RATING OF NEXT LONGER RADIUS.
8. CRANE LOAD RATINGS ON OUTRIGGERS ARE BASED ON FREELY SUSPENDED LOADS WITH THE MACHINE LEVELED AND STANDING ON A FIRM UNIFORM SUPPORTING SURFACE. NO ATTEMPT SHALL BE MADE TO MOVE A LOAD HORIZONTALLY ON THE GROUND IN ANY DIRECTION.
9. PRACTICAL WORKING LOADS DEPEND ON SUPPORTING SURFACE, WIND, AND OTHER FACTORS AFFECTING STABILITY SUCH AS HAZARDOUS SURROUNDINGS, EXPERIENCE OF PERSONNEL, AND PROPER HANDLING, ALL OF WHICH MUST BE TAKEN INTO ACCOUNT BY THE OPERATOR.
10. THE MAXIMUM LOAD WHICH MAY BE TELESCOPED IS LIMITED BY HYDRAULIC PRESSURE, BOOM ANGLE, AND BOOM LUBRICATION. IT IS SAFE TO ATTEMPT TO TELESCOPE ANY LOAD WITHIN THE LIMITS OF THE LOAD RATING CHART.

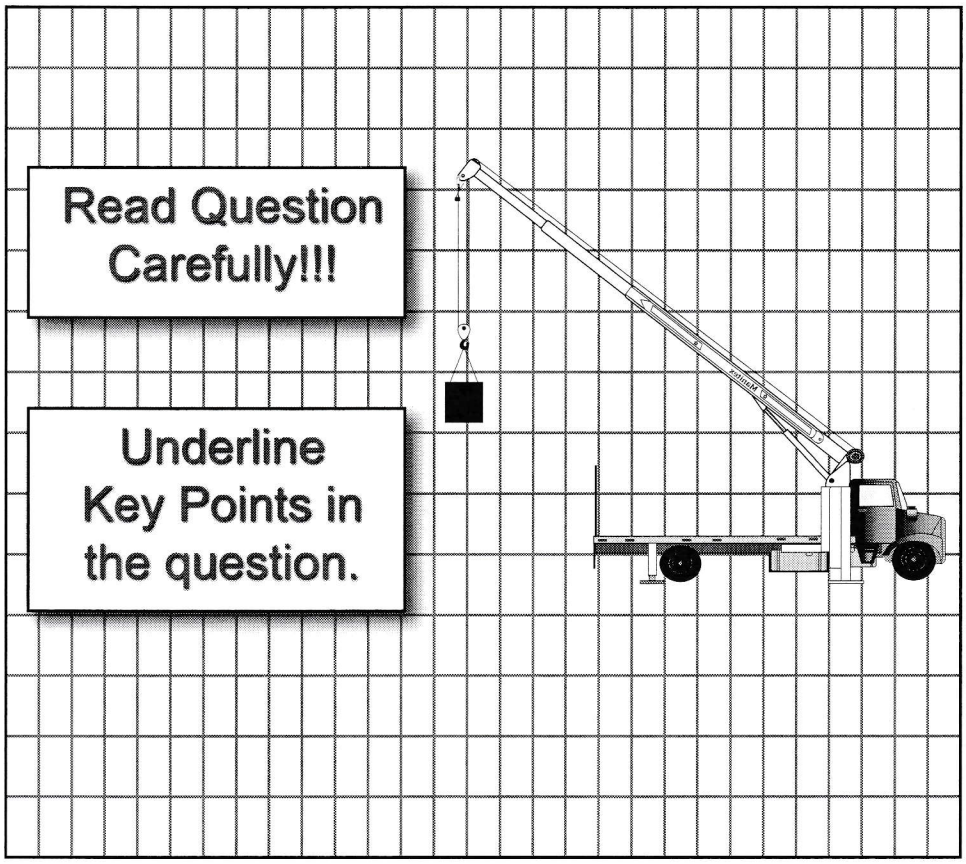
INFORMATION

1. DEDUCTIONS MUST BE MADE FROM RATED LOADS FOR STOWED JIB, OPTIONAL ATTACHMENTS, HOOKS, AND LOAD BLOCKS (SEE DEDUCTION CHART). WEIGHTS OF SLINGS AND ALL OTHER LOAD HANDLING DEVICES SHALL BE CONSIDERED A PART OF THE LOAD.
2. CRANE LOAD RATINGS WITH OUTRIGGERS ARE BASED ON OUTRIGGERS AND STABILIZERS EXTENDED AND SET WITH MACHINE LEVELED.
3. LOAD RATINGS ABOVE THE HEAVY LINE ARE STRUCTURALLY LIMITED CAPACITIES. LOAD RATINGS BELOW THE HEAVY LINE ARE STABILITY LIMITED CAPACITIES AND DO NOT EXCEED 85% OF TIPPING.

DEFINITIONS

1. OPERATING RADIUS IS THE HORIZONTAL DISTANCE FROM THE AXIS OF ROTATION TO THE CENTER OF THE VERTICAL HOIST LINE OR TACKLE WITH LOAD APPLIED.
2. LOADED BOOM ANGLE AS SHOWN IN THE COLUMN HEADED BY ∠, IS THE INCLUDED ANGLE BETWEEN THE HORIZONTAL AND LONGITUDINAL AXES OF THE BOOM BASE AFTER LIFTING RATED LOAD AT RATED RADIUS.

What is the net capacity lifting off the main over the rear?



Configuration

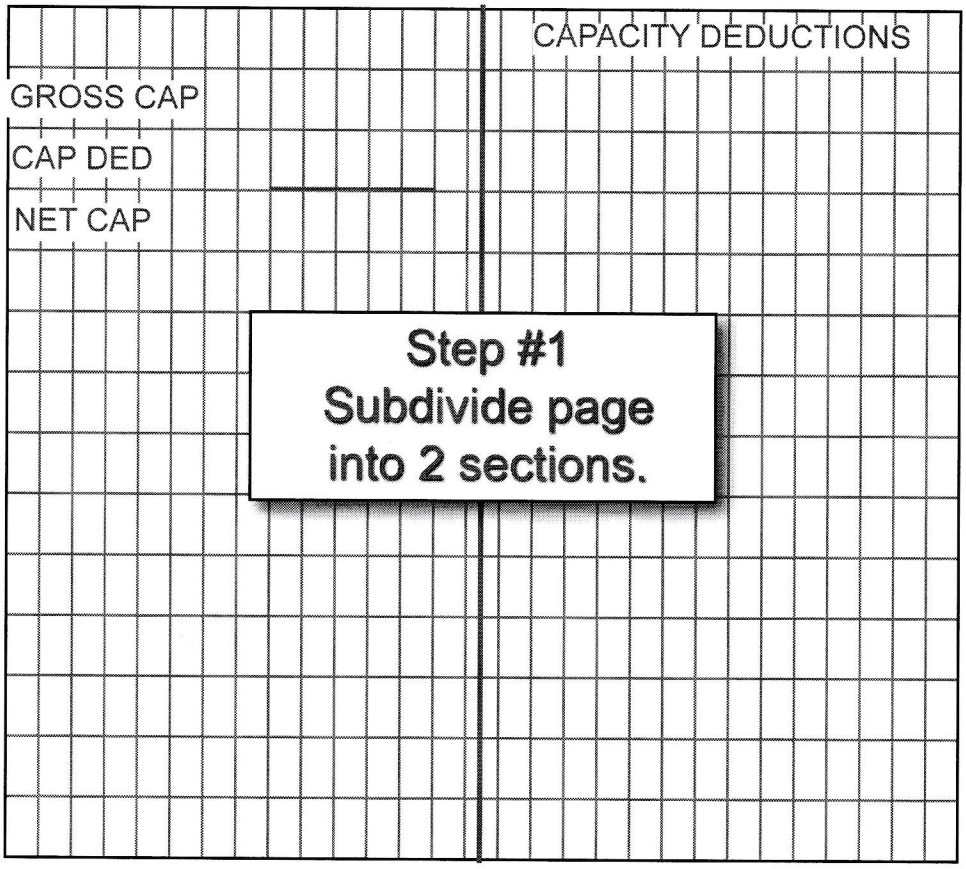
Main Boom: 35'
Outriggers/Stabilizers: Extended & Set
Radius: 30'
Main Boom Angle: N/A
Jib Length: 23' stowed
Block: Single Sheave. (2 Part)
Ball: N/A
Rigging: 100 lbs.
Other: Hose Reel
Wire Rope: 9/16" - 6x25 IWRC

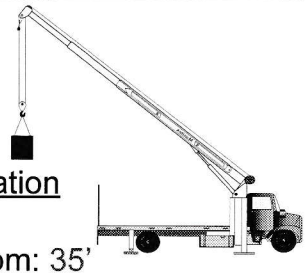
IMPORTANT!!!

READ THE QUESTION CAREFULLY!!!!!

MAKE SURE
TO
UNDERLINE THE KEY POINTS OF THE QUESTION.

What is the net capacity lifting off the main over the rear?





Configuration

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Jib Length: 23' stowed
Block: Single Sheave. (2 Part)
Ball: N/A
Rigging: 100 lbs.
Other: Hose Reel
Wire Rope:
9/16" - 6x25 IWRC

Step #1: Subdivide the grid into 2 work areas

Label the work areas as follows:

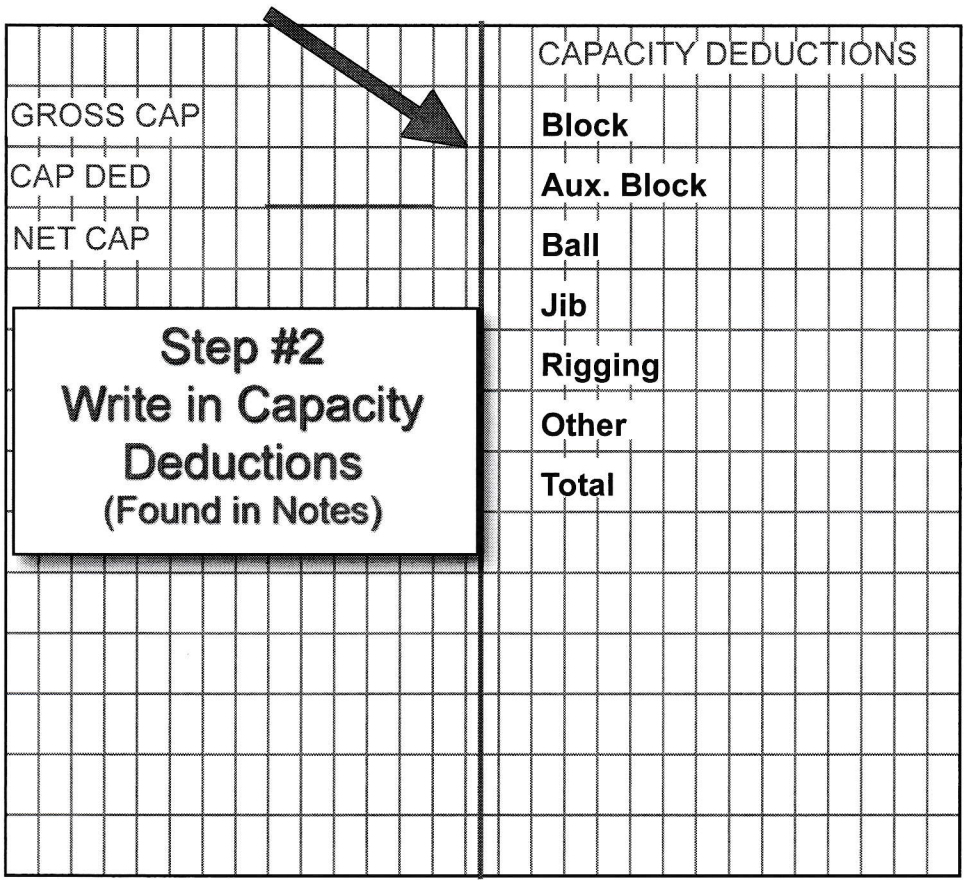
1. Gross Capacity
2. Capacity Deductions

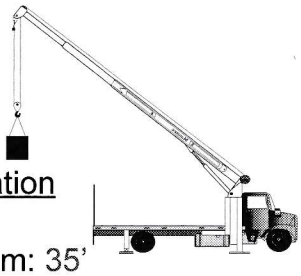
It is important to be consistent when working out load chart problems. Your page should look exactly the same for every problem.

Small telescopic (TSS) have NO wire rope deductions.

MAKE SURE YOU'RE IN THE RIGHT CHART!

What is the net capacity lifting off the main over the rear?





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Radius: 30'
Main Boom Angle: N/A
Jib Length: 23' stowed
Block: Single Sheave. (2 Part)
Ball: N/A
Rigging: 100 lbs.
Other: Hose Reel
Wire Rope: 9/16" - 6x25 IWRC

Step #2: Write in the Capacity Deductions:

Deductions must be made from rated loads for stowed jib, optional attachments, hooks, and load blocks (see deduction chart), weights of slings and all other load handling devices shall be considered a part of the load. (NO wire rope deduction)

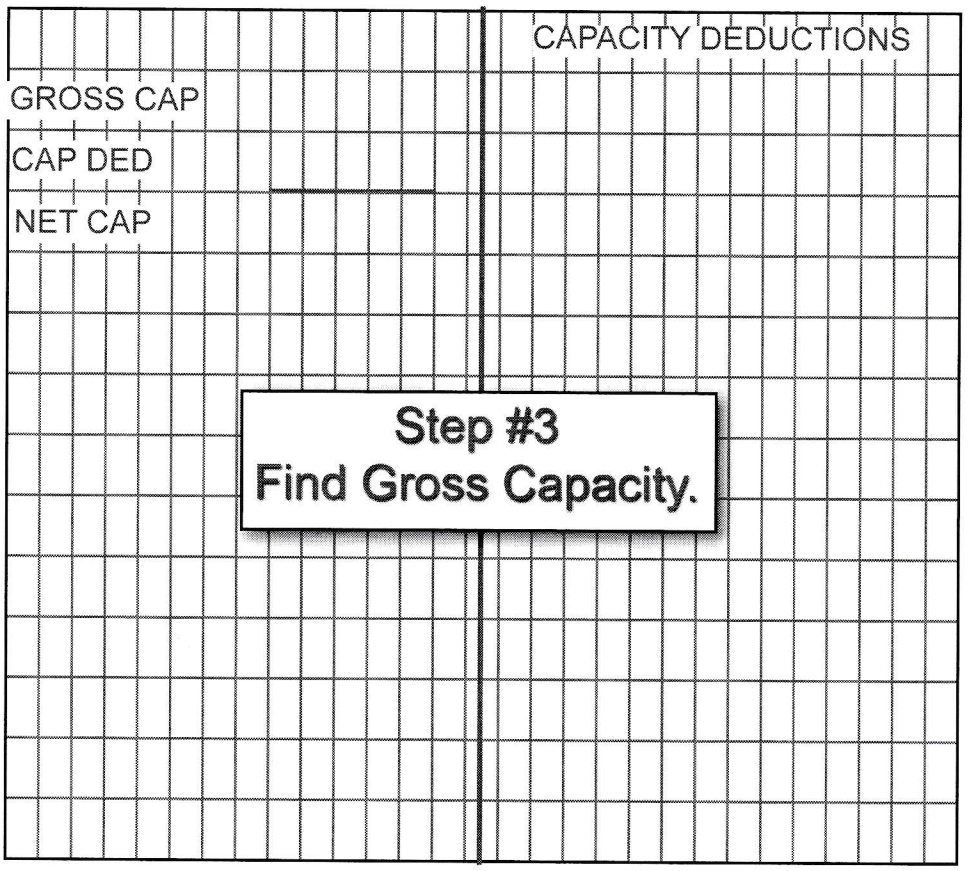
This step is for writing what the deductions are or could be. It might be best to write all possible deductions down and then if a possible deduction does not apply then mark it with a "0". This makes sure that no deductions are forgotten.

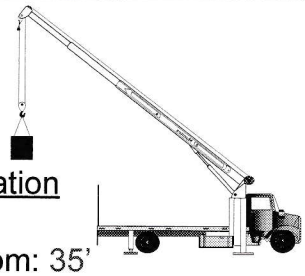
1. Block (Blk)
2. Auxiliary Block
3. Ball (Bl)
4. Jib (Jb)
5. Rigging (Rg)
6. Other (If an auxiliary device is used add this one) (Ot)

It is important to be consistent. The best way is to write this in the same way every time.

The stowed jib deductions will be found at the bottom of the main boom chart.

What is the net capacity lifting off the main over the rear?





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Jib Length: 23' stowed
Block: Single Sheave. (2 Part)
Ball: N/A
Rigging: 100 lbs.
Other: Hose Reel
Wire Rope: 9/16" - 6x25 IWRC

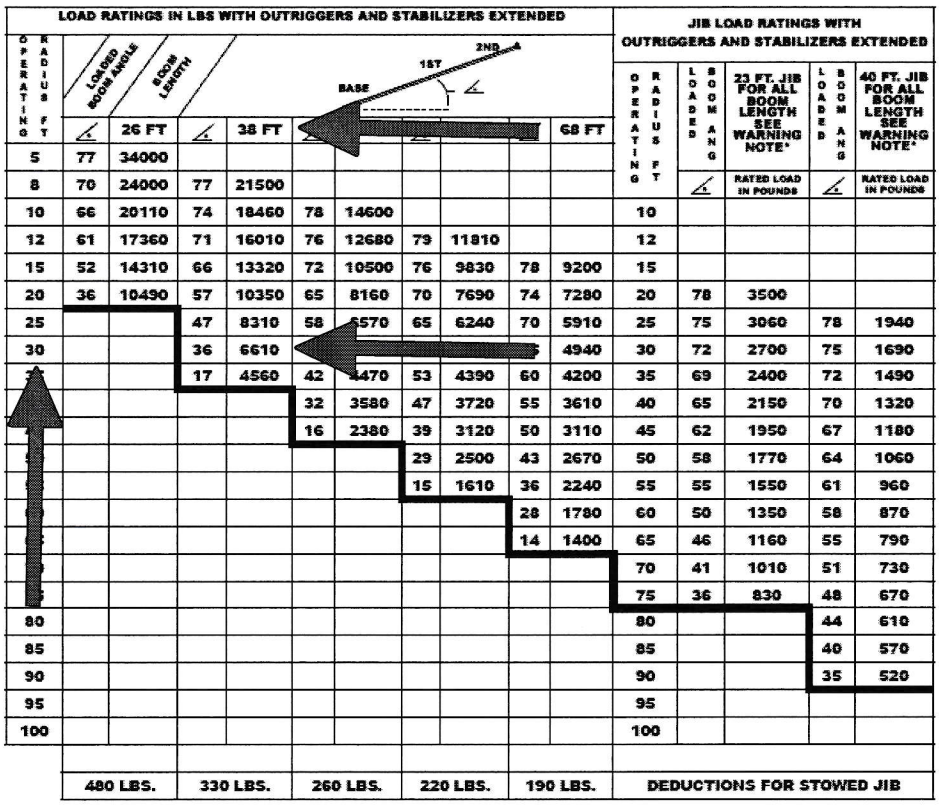
Step #3: Find the Gross Capacity

Make sure you are in the correct load chart. This is determined by what you're lifting off, main boom or jib.

1. Find correct boom length.
2. Find correct radius or boom angle, whichever one is given.
3. Find the rated capacity.
4. Do we have enough parts?
5. Write the gross capacity in the correct work area on your grid.

(Main line or auxiliary line, whichever you're lifting off).

MAKE SURE YOU'RE IN THE RIGHT CHART!



LOAD RATINGS IN LBS WITH OUTRIGGERS AND STABILIZERS EXTENDED

OPERATING RADIUS FT	LOADED BOOM ANGLE / BOOM LENGTH	26 FT		38 FT						68 FT
	∠		∠							
5	77	34000								
8	70	24000	77	21500						
10	66	20110	74	18460	78	14600				
12	61	17360	71	16010	76	12680	79	11810		
15	52	14310	66	13320	72	10500	76	9830	78	9200
20	36	10490	57	10350	65	8160	70	7690	74	7280
25			47	8310	58	6570	65	6240	70	5910
30			36	6610						4940
			17	4560	42	3470	53	4390	60	4200
					32	3580	47	3720	55	3610
					16	2380	39	3120	50	3110
							29	2500	43	2670
							15	1610	36	2240
									28	1780
									14	1400
80										
85										
90										
95										
100										
		480 LBS.		330 LBS.		260 LBS.		220 LBS.		190 LBS.

JIB LOAD RATINGS WITH OUTRIGGERS AND STABILIZERS EXTENDED

OPERATING RADIUS FT	BOOM ANG LOADED ∠	23 FT. JIB FOR ALL BOOM LENGTH SEE WARNING NOTE* RATED LOAD IN POUNDS	BOOM ANG LOADED ∠	40 FT. JIB FOR ALL BOOM LENGTH SEE WARNING NOTE* RATED LOAD IN POUNDS
10				
12				
15				
20	78	3500		
25	75	3060	78	1940
30	72	2700	75	1690
35	69	2400	72	1490
40	65	2150	70	1320
45	62	1950	67	1180
50	58	1770	64	1060
55	55	1550	61	960
60	50	1350	58	870
65	46	1160	55	790
70	41	1010	51	730
75	36	830	48	670
80			44	610
85			40	570
90			35	520
95				
100				

DEDUCTIONS FOR STOWED JIB

Step #3: Find the Gross Capacity

Make sure you're in the right chart. For this problem because we are in between boom lengths we must follow the instructions in note 7.

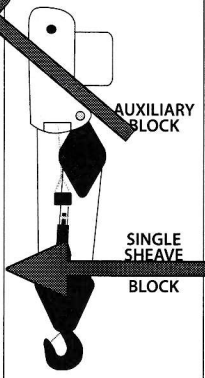
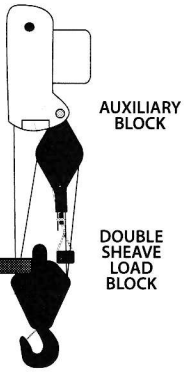
7. FOR BOOM LENGTHS NOT SHOWN, USE RATING OF NEXT LONGER BOOM LENGTH.

The next longer boom length is 38 feet.

Go to the radius column and find 30 ft.

Follow the row to the rated capacity for 38' boom length (6,610 lbs).

MAKE SURE YOU'RE IN THE RIGHT CHART!

ALLOWABLE LINE PULL				
1 PART OF LINE	2 PART OF LINE	3 PART OF LINE	4 PART OF LINE	
				**WARNING** Anti-Two-Block system must be in good operating condition before operating crane. Refer to Owner's Manual. Keep at least three wraps on load line on drum at all times
8500 lb 3856 kg	17000 lb 7711 kg	11567 kg	34000 lb 15422 kg	9/16" (14.29 mm) 6x25 IWRC (3.5:1 SF). 29750 lb (13494 kg) Minimum breaking streng
7400 lb 3357 kg	14800 lb 6313 kg	22200 lb 10070 kg	29600 lb 13426 kg	9/16" (14.29 mm) Rot resistant (5.0:1 SF). 37000 lb (16783 kg) Minimum breaking strength.

ARE 2 PARTS SUFFICIENT TO LIFT THE RATED CAPACITY? (6,610 lbs.)

Step #3: Find the Gross Capacity

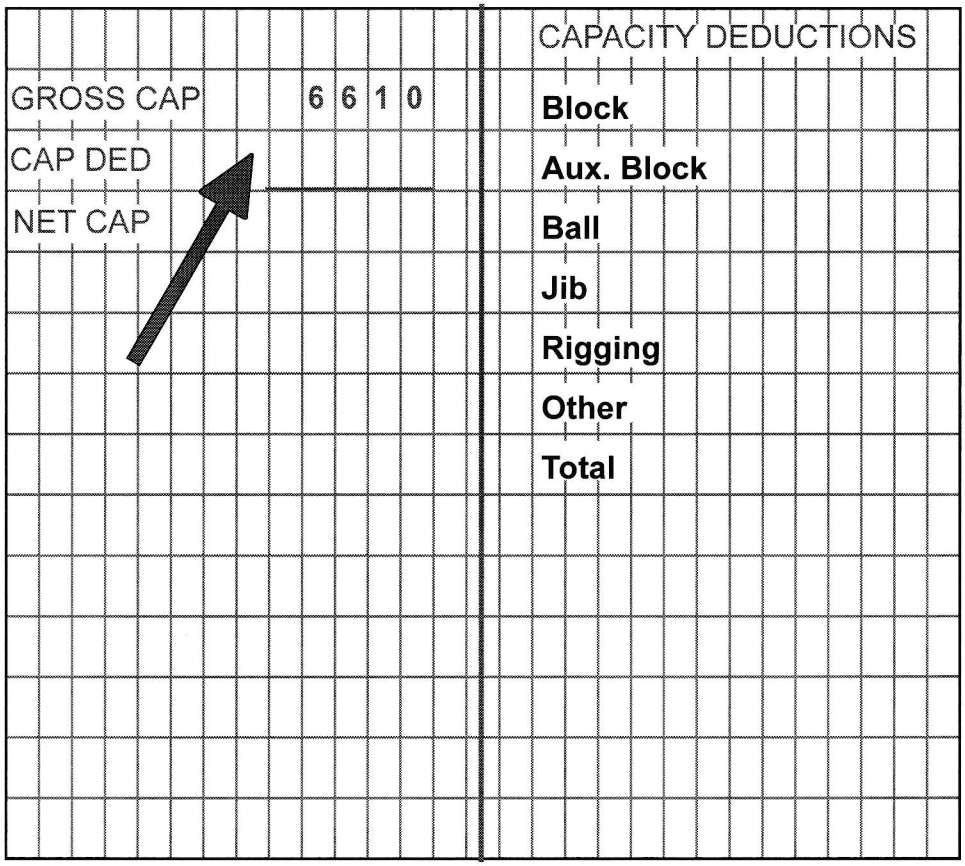
Are 2 parts enough to lift the Rated Capacity?

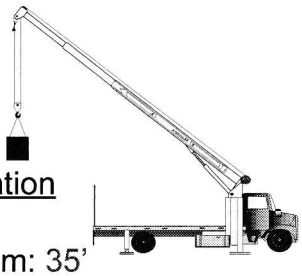
There must be enough parts to lift the rated capacity or line pull would be the limiting factor and would be used for the gross capacity instead of the load rating chart.

Allowable line pull chart shows with 2 parts of 6x25 IWRC wire rope, that the line pull for this configuration is 17,000 lbs.

MAKE SURE YOU'RE IN THE RIGHT CHART!

What is the net capacity lifting off the main over the rear?





Configuration

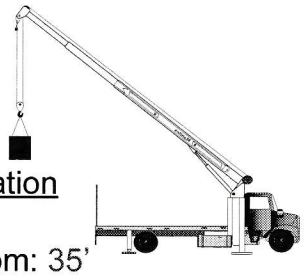
Main Boom: 35'
Outriggers/Stabilizers: Extended & Set
Radius: 30'
Main Boom Angle: N/A
Jib Length: 23' stowed
Block: Single Sheave. (2 Part)
Ball: N/A
Rigging: 100 lbs.
Other: Hose Reel
Wire Rope: 9/16" - 6x25 IWRC

Step #3: Write in the Gross Capacity

Write "6,610" in the gross capacity work area on your grid.

WRITE THE NUMBERS IN THE GRID SPACES!!!!!

What is the net capacity lifting off the main over the rear?



Configuration

Main Boom: 35'
Outriggers/Stabilizers: Extended & Set
Radius: 30'
Main Boom Angle: N/A
Jib Length: 23' stowed
Block: ***Single Sheave. (2 Part)***
Ball: N/A
Rigging: 100 lbs.
Other: Hose Reel
Wire Rope: 9/16" - 6x25 IWRC

		CAPACITY DEDUCTIONS	
GROSS CAP	6610	Block	260
CAP DED		Aux. Block	
NET CAP		Ball	
		Jib	
		Rigging	
		Other	
		Total	

Step #4
Fill in Capacity Deductions.

Step #4: Fill in the Capacity Deductions

Fill in the weight for the block.

You will find this information either in the configuration section or in the load chart.

DEDUCTIONS

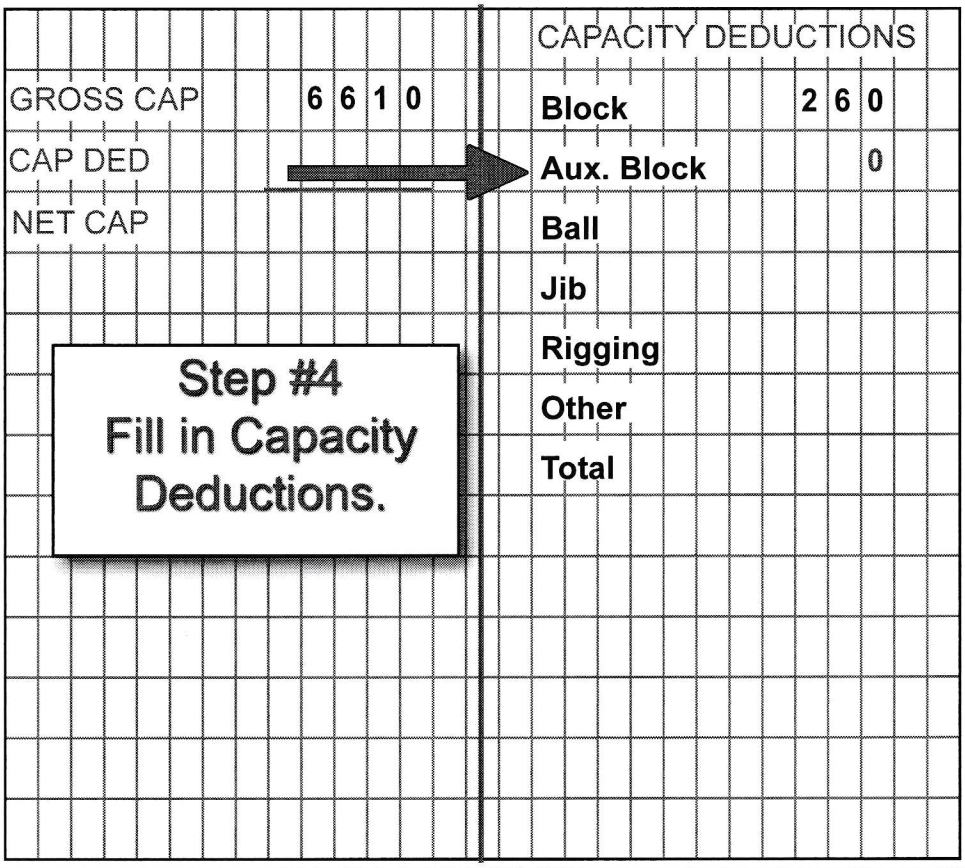
Auxiliary B...	...	22.68 kg
Overhaul B...	12... lb	54.43 kg
Single-Sheave Load Block	260 lb	117.93 kg
Double-Sheave Load Block	350 lb	158.76 kg
Hose Reel	190 lb	86.18 kg

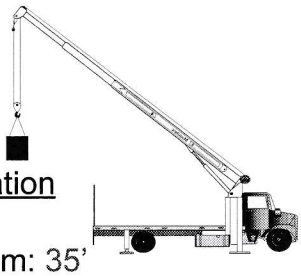
Swing-Around Jib (Stowed) ..... See Load Rating Chart

WARNING
Lifting off the main boom point while the swing-around jib is erected is not intended or approved.

WRITE THE NUMBERS IN THE GRID SPACES!!!!!

What is the net capacity lifting off the main over the rear?





Configuration

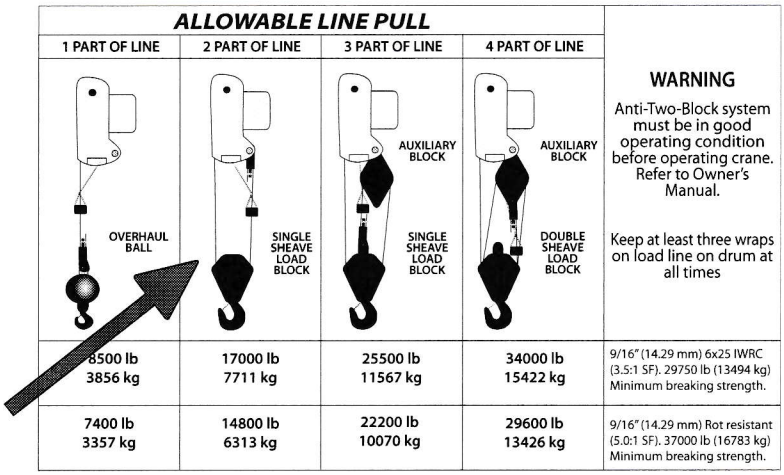
Main Boom: 35'
Outriggers/Stabilizers: Extended & Set
Radius: 30'
Main Boom Angle: N/A
Jib Length: 23' stowed
Block: Single Sheave. (2 Part)
Ball: N/A
Rigging: 100 lbs.
Other: Hose Reel
Wire Rope: 9/16" - 6x25 IWRC

Step #4: Fill in the Capacity Deductions

Fill in the weight for the auxiliary block.

You will find this information either in the configuration section or in the load chart.

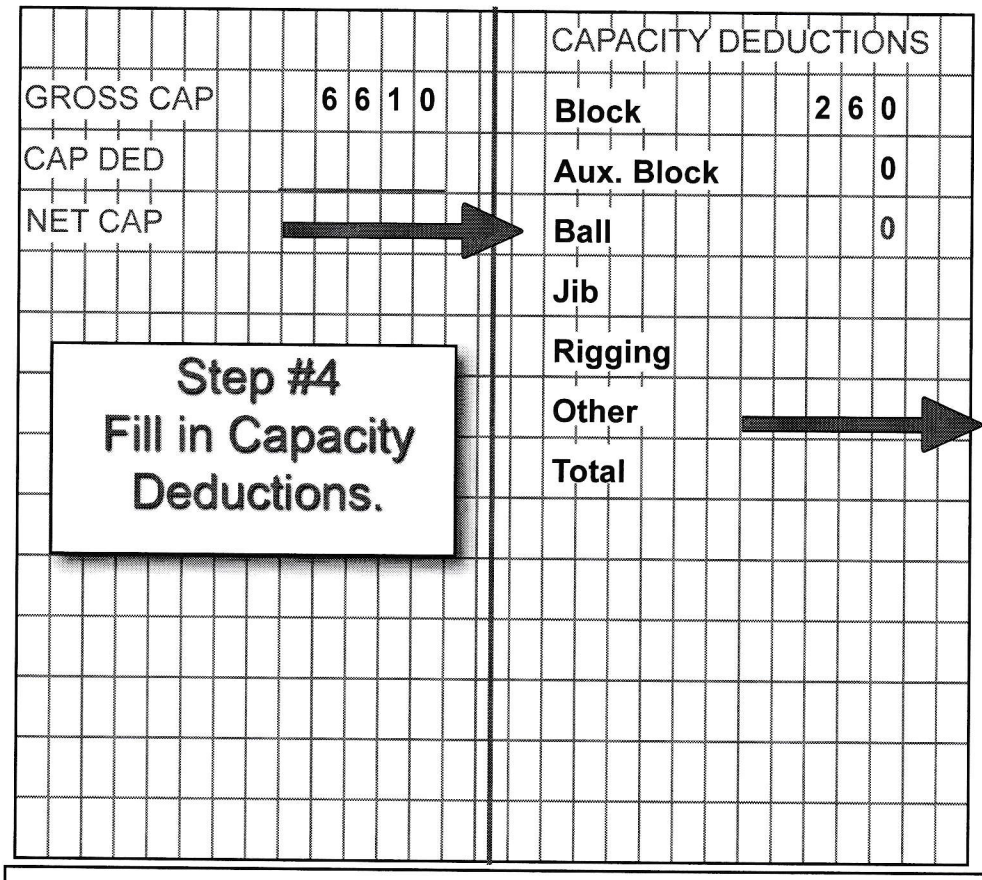
No auxiliary block required.

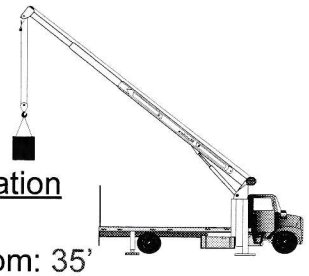


ALLOWABLE LINE PULL				
1 PART OF LINE	2 PART OF LINE	3 PART OF LINE	4 PART OF LINE	
OVERHAUL BALL	SINGLE SHEAVE LOAD BLOCK	AUXILIARY BLOCK / SINGLE SHEAVE LOAD BLOCK	AUXILIARY BLOCK / DOUBLE SHEAVE LOAD BLOCK	**WARNING** Anti-Two-Block system must be in good operating condition before operating crane. Refer to Owner's Manual. Keep at least three wraps on load line on drum at all times
8500 lb 3856 kg	17000 lb 7711 kg	25500 lb 11567 kg	34000 lb 15422 kg	9/16" (14.29 mm) 6x25 IWRC (3.5:1 SF). 29750 lb (13494 kg) Minimum breaking strength.
7400 lb 3357 kg	14800 lb 6313 kg	22200 lb 10070 kg	29600 lb 13426 kg	9/16" (14.29 mm) Rot resistant (5.0:1 SF). 37000 lb (16783 kg) Minimum breaking strength.

WRITE THE NUMBERS IN THE GRID SPACES!!!!!

What is the net capacity lifting off the main over the rear?





Configuration

Main Boom: 35'
Outriggers/Stabilizers:
Extended & Set
Radius: 30'
Main Boom Angle: N/A
Jib Length: 23' stowed
Block: Single Sheave. (2 Part)
Ball: N/A
Rigging: 100 lbs.
Other: Hose Reel
Wire Rope:
9/16" - 6x25 IWRC

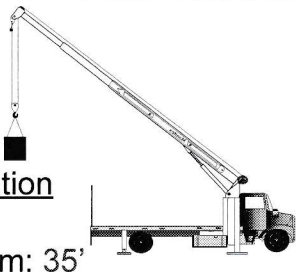
Step #4: Fill in the Capacity Deductions

Fill in the weight of the ball.

Since no ball is being used, simply enter "0" into the correct box.

WRITE THE NUMBERS IN THE GRID SPACES!!!!!

What is the net capacity lifting off the main over the rear?



Configuration

Main Boom: 35'
Outriggers/Stabilizers: Extended & Set
Radius: 30'
Main Boom Angle: N/A
Jib Length: **23' stowed**
Block: Single Sheave. (2 Part)
Ball: N/A
Rigging: 100 lbs.
Other: Hose Reel
Wire Rope: 9/16" - 6x25 IWRC

		CAPACITY DEDUCTIONS	
GROSS CAP	6610	Block	260
CAP DED		Aux. Block	0
NET CAP		Ball	0
		Jib	330
		Rigging	
		Other	
		Total	

Step #4 Fill in Capacity Deductions.

Step #4: Fill in the Capacity Deductions

Fill in the weight of the jib capacity deduction. This is found at the bottom of the column for the boom length.

Write 330 lbs. in the correct box.

LOAD RATINGS IN LBS WITH OUTRIGGERS AND STABILIZERS EXTENDED

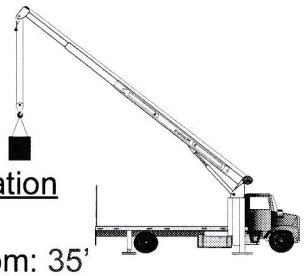
OPERATING RADIUS FT	LOWERED BOOM ANGLE / BOOM LENGTH									
	∠	26 FT	∠	38 FT	∠	48 FT	∠	58 FT	∠	68 FT
5	77	34000								
8	70	24000	77	21500						
10	66	20110	74	18460	78	14600				
12	61	17360	71	16010	76	12680	79	11810		
15	52	14310	66	13320	72	10500	76	9830	78	9200
20	36	10490	57	10350	65	8160	70	7690	74	7280
25			47	8310	58	6570	65	6240	70	5910
30			36	6610	51	5420	59	5200	65	4940
35			17	4560	42	4470	53	4390	60	4200
40					32	3580	47	3720	55	3610
45					16	2380	39	3120	50	3110
50							29	2500	43	2670
55							15	1610	36	2240
60									28	1780
65									14	1400
70										
75										
80										
85										
90										
95										
100										
			330 LBS.		260 LBS.		220 LBS.		190 LBS.	

JIB LOAD RATINGS WITH OUTRIGGERS AND STABILIZERS EXTENDED

OPERATING RADIUS FT	LOADED BOOM ANG ∠	23 FT. JIB FOR ALL BOOM LENGTH SEE WARNING NOTE* RATED LOAD IN POUNDS	LOADED BOOM ANG ∠	40 FT. JIB FOR ALL BOOM LENGTH SEE WARNING NOTE* RATED LOAD IN POUNDS
10				
12				
15				
20	78	3500		
25	75	3060	78	1940
30	72	2700	75	1690
35	69	2400	72	1490
40	65	2150	70	1320
45	62	1950	67	1180
50	58	1770	64	1060
55	55	1550	61	960
60	50	1350	58	870
65	46	1160	55	790
70	41	1010	51	730
75	36	830	48	670
80			44	610
85			40	570
90			35	520
95				
100				
		DEDUCTIONS FOR STOWED JIB		

WRITE THE NUMBERS IN THE GRID SPACES!!!!!

What is the net capacity lifting off the main over the rear?



Configuration

Main Boom: 35'
Outriggers/Stabilizers: Extended & Set
Radius: 30'
Main Boom Angle: N/A
Jib Length: 23' stowed
Block: Single Sheave. (2 Part)
Ball: N/A
Rigging: 100 lbs.
Other: Hose Reel
Wire Rope: 9/16" - 6x25 IWRC

		CAPACITY DEDUCTIONS	
GROSS CAP	6610	Block	260
CAP DED		Aux. Block	0
NET CAP		Ball	0
		Jib	330
		Rigging	100
		Other	
		Total	

Step #4
Fill in Capacity Deductions.

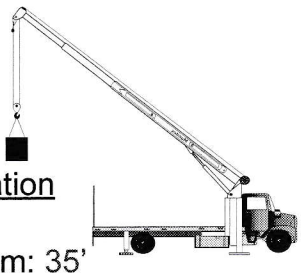
Step #4: Fill in the Capacity Deductions

Fill in the weight of the rigging deduction.

You will find this information in the configuration section.

WRITE THE NUMBERS IN THE GRID SPACES!!!!!

What is the net capacity lifting off the main over the rear?



		CAPACITY DEDUCTIONS	
GROSS CAP	6610	Block	260
CAP DED		Aux. Block	0
NET CAP		Ball	0
		Jib	330
		Rigging	100
		Other	190
		Total	

Step #4
Fill in Capacity Deductions.

Configuration

Main Boom: 35'
Outriggers/Stabilizers: Extended & Set
Radius: 30'
Main Boom Angle: N/A
Jib Length: 23' stowed
Block: Single Sheave. (2 Part)
Ball: N/A
Rigging: 100 lbs.
Other: **Hose Reel**
Wire Rope: 9/16" - 6x25 IWRC

Step #4: Fill in the Capacity Deductions

Fill in the weight of any additional lifting devices. You will find this information in the configuration section.

In this case we have a hose reel mounted on the crane and 190 lbs. must be deducted.

DEDUCTIONS

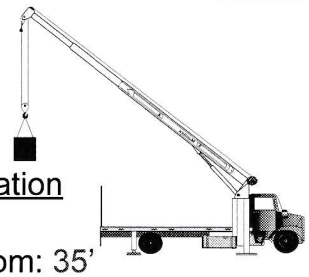
Auxiliary Block	50 lb	22.68 kg
Overhaul Ball	120 lb	54.43 kg
Single-Sheave Load Block	260 lb	117.93 kg
Double-Sheave Load Block	350 lb	158.76 kg
Hose Reel	190 lb	86.18 kg

Swing-Around Jib (Stowed) ..... See Load Rating Chart

WARNING
Lifting off the main boom point while the swing-around jib is erected is not intended or approved.

WRITE THE NUMBERS IN THE GRID SPACES!!!!!

What is the net capacity lifting off the main over the rear?



Configuration

Main Boom: 35'
Outriggers/Stabilizers: Extended & Set
Radius: 30'
Main Boom Angle: N/A
Jib Length: 23' stowed
Block: Single Sheave. (2 Part)
Ball: N/A
Rigging: 100 lbs.
Other: Hose Reel
Wire Rope: 9/16" - 6x25 IWRC

		CAPACITY DEDUCTIONS	
GROSS CAP	6610	Block	260
CAP DED		Aux. Block	0
NET CAP		Ball	0
		Jib	330
		Rigging	100
		Other	190
		Total	880

Step #5 Total Capacity Deductions.

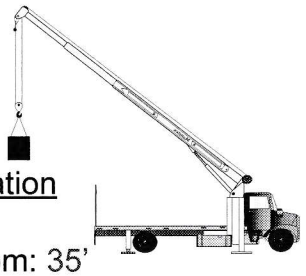
Step #5: Total the Capacity Deductions

Add all the capacity deductions.

CAPACITY DEDUCTIONS ARE 880 lbs.

WRITE THE NUMBERS IN THE GRID SPACES!!!!!

What is the net capacity lifting off the main over the rear?



Configuration

Main Boom: 35'
Outriggers/Stabilizers: Extended & Set
Radius: 30'
Main Boom Angle: N/A
Jib Length: 23' stowed
Block: Single Sheave. (2 Part)
Ball: N/A
Rigging: 100 lbs.
Other: Hose Reel
Wire Rope: 9/16" - 6x25 IWRC

		CAPACITY DEDUCTIONS	
GROSS CAP	6610	Block	260
CAP DED	880		
NET CAP	5730	Other	190
		Total	880

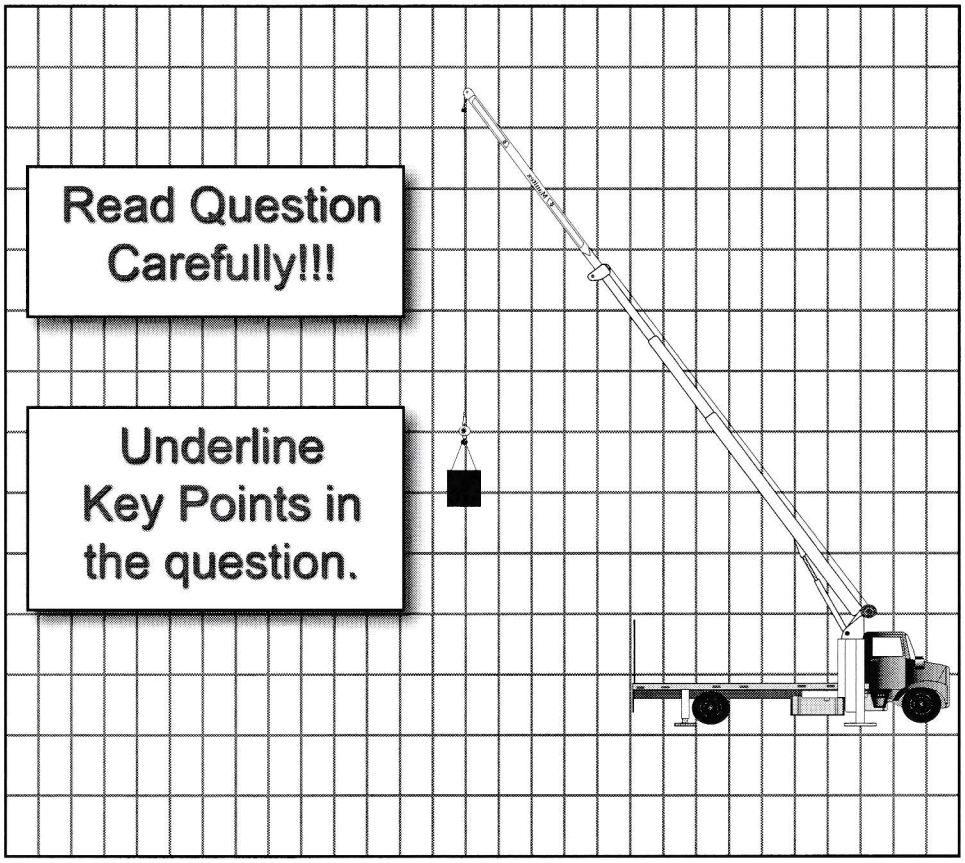
Step #6 Subtract Capacity Deductions from Gross Capacity.

Step #6: Subtract Capacity Deductions from Gross Capacity.

NET CAPACITY IS 5,730 lbs.

WRITE THE NUMBERS IN THE GRID SPACES!!!!!

What is the net capacity lifting off the jib over the rear?



Configuration

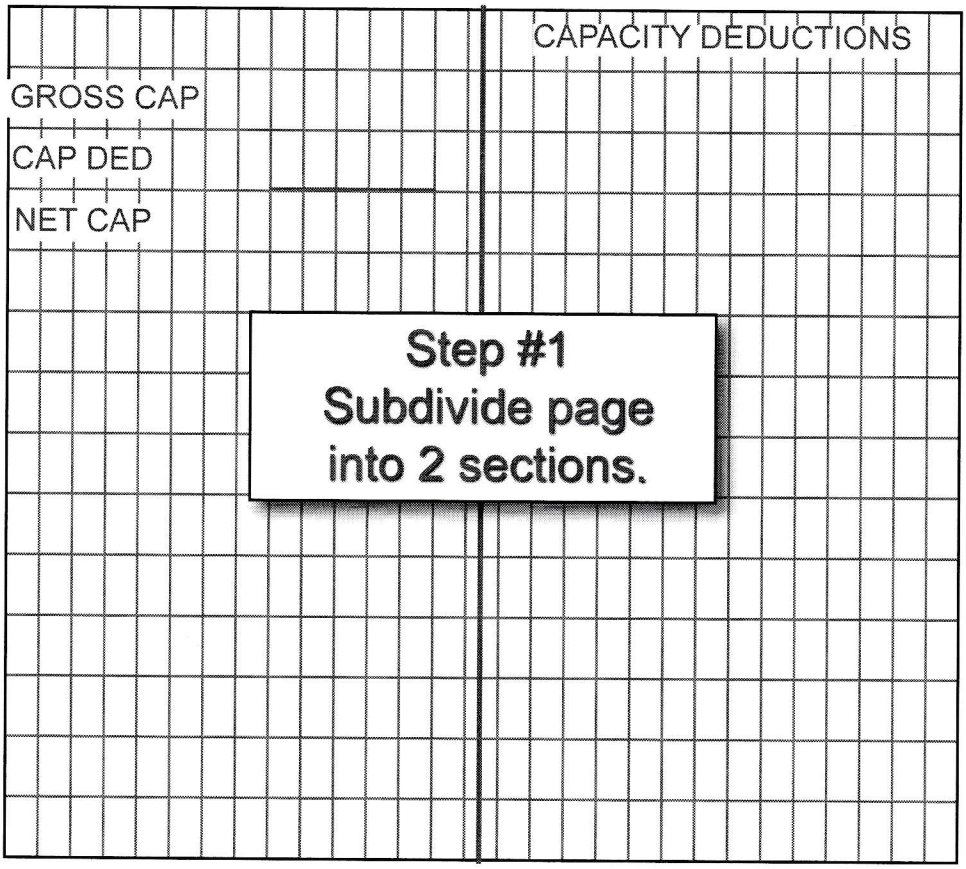
Main Boom: 68'
Outriggers/Stabilizers: Extended & Set
Radius: 30'
Main Boom Angle: N/A
Jib Length: 23' erected
Block: N/A
Ball: Overhaul ball
Rigging: 120 lbs.
Other: Hose Reel
Wire Rope: 9/16" - 6x25 IWRC

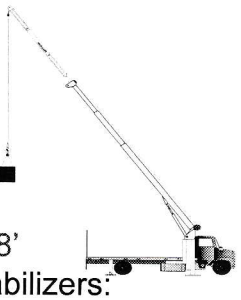
IMPORTANT!!!

READ THE QUESTION CAREFULLY!!!!!

MAKE SURE
TO
UNDERLINE THE KEY POINTS OF THE QUESTION.

What is the net capacity lifting off the jib over the rear?





Configuration ■

Main Boom: 68'
Outriggers/Stabilizers: Extended & Set
Radius: 30'
Main Boom Angle: N/A
Jib Length: 23' erected
Block: N/A
Ball: Overhaul ball
Rigging: 120 lbs.
Other: Hose Reel
Wire Rope: 9/16" - 6x25 IWRC

Step #1: Subdivide the grid into 2 work areas

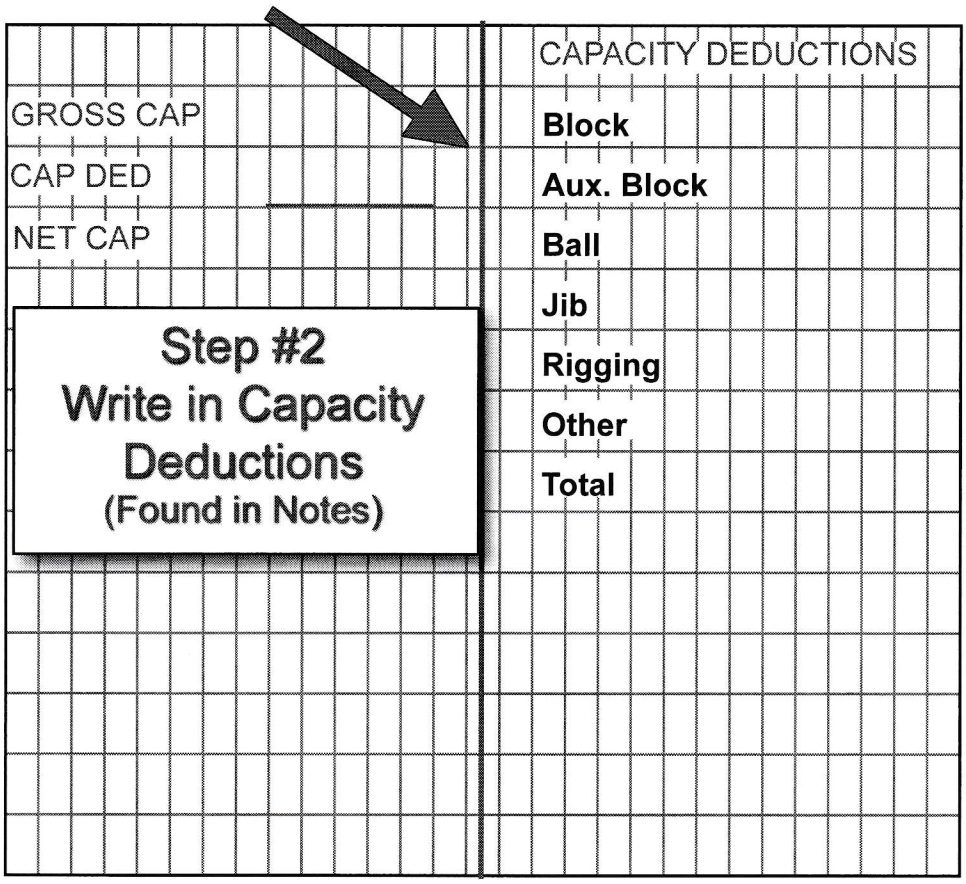
Label the work areas as follows:

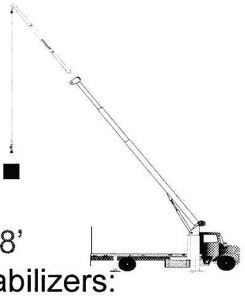
1. Gross Capacity
2. Capacity Deductions

It is important to be consistent when working out load chart problems. Your page should look exactly the same for every problem.

Small telescopic (TSS) have NO wire rope deductions.

What is the net capacity lifting off the jib over the rear?





Configuration ■

Main Boom: 68'
Outriggers/Stabilizers: Extended & Set
Radius: 30'
Main Boom Angle: N/A
Jib Length: 23' erected
Block: N/A
Ball: Overhaul ball
Rigging: 120 lbs.
Other: Hose Reel
Wire Rope: 9/16" - 6x25 IWRC

Step #2: Write in the Capacity Deductions:

Deductions must be made from rated loads for stowed jib, optional attachments, hooks, and load blocks (see deduction chart). weights of slings and all other load handling devices shall be considered a part of the load. (NO wire rope deduction)

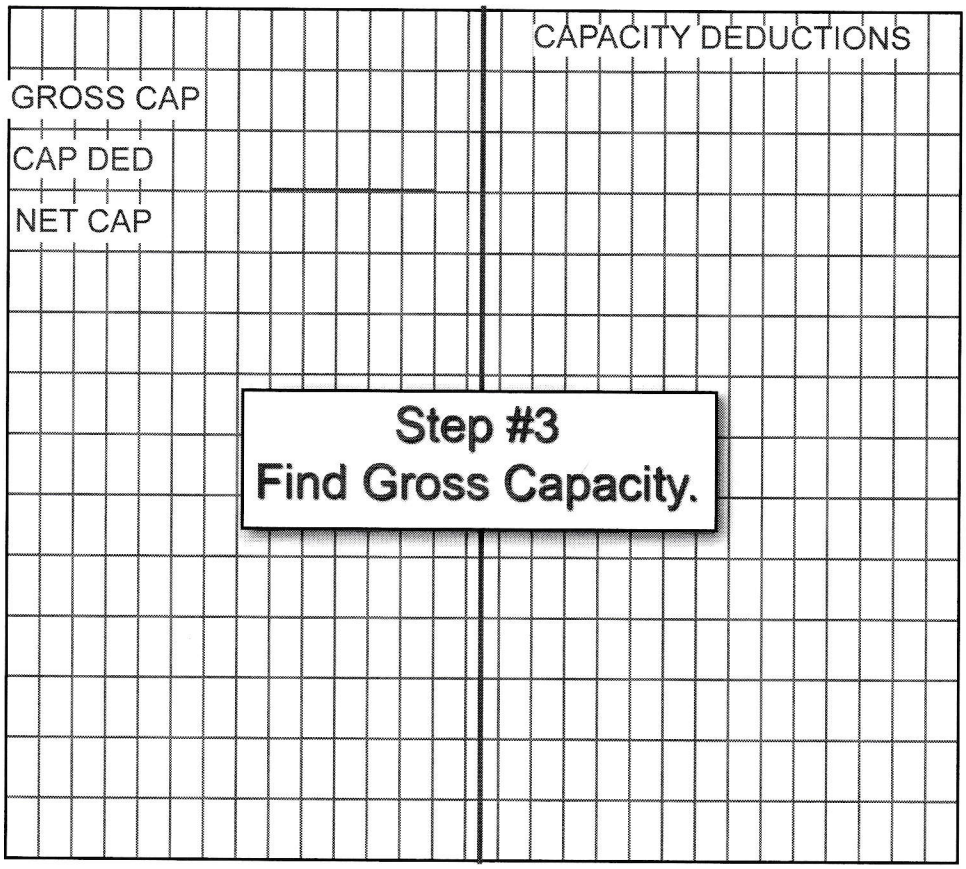
This step is for writing what the deductions are or could be. It might be best to write all possible deductions down and then if a possible deduction does not apply then mark it with a "0". This makes sure that no deductions are forgotten.

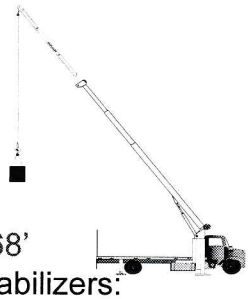
1. Block (Blk)
2. Auxiliary Block
3. Ball (Bl)
4. Jib (Jb)
5. Rigging (Rg)
6. Other (If an auxiliary device is used add this one) (Ot)

It is important to be consistent. The best way is to write this in the same way every time.

The stowed jib deductions will be found at the bottom of the main boom chart.

What is the net capacity lifting off the jib over the rear?





Configuration ■

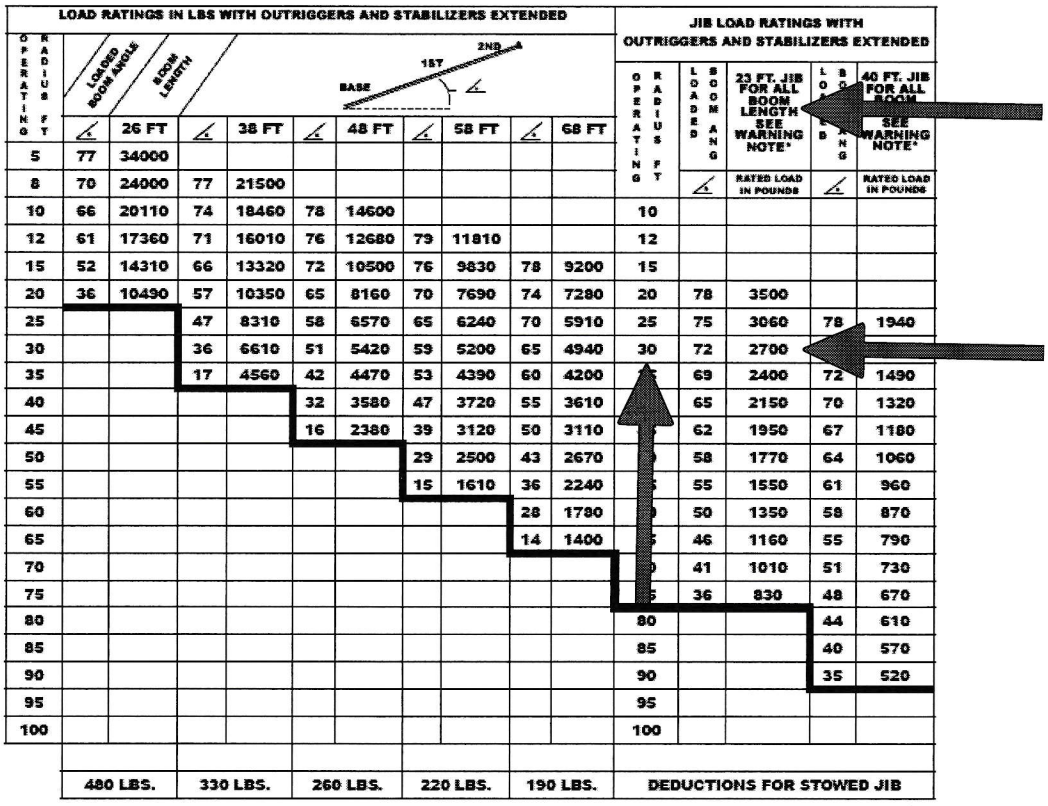
Main Boom: 68'
Outriggers/Stabilizers: Extended & Set
Radius: 30'
Main Boom Angle: N/A
Jib Length: 23' erected
Block: N/A
Ball: Overhaul ball
Rigging: 120 lbs.
Other: Hose Reel
Wire Rope: 9/16" - 6x25 IWRC

Step #3: Find the Gross Capacity

Make sure you're in the correct load chart. This is determined by what you're lifting off, main boom or jib.

1. Find correct boom length.
2. Find correct radius or boom angle which ever one is given.
3. Find the rated capacity.
4. Do we have enough parts?
5. Write the gross capacity in the correct work area on your grid.

MAKE SURE YOU'RE IN THE RIGHT CHART!



LOAD RATINGS IN LBS WITH OUTRIGGERS AND STABILIZERS EXTENDED											JIB LOAD RATINGS WITH OUTRIGGERS AND STABILIZERS EXTENDED				
OPERATING RADIUS FT	LOADED BOOM ANGLE / BOOM LENGTH	26 FT		38 FT		48 FT		58 FT		68 FT	OPERATING RADIUS FT	LOADED BOOM ANG	23 FT. JIB FOR ALL BOOM LENGTH SEE WARNING NOTE*	LOADED BOOM ANGS	40 FT. JIB FOR ALL BOOM LENGTHS SEE WARNING NOTE*
	∠		∠		∠		∠		∠			∠	RATED LOAD IN POUNDS	∠	RATED LOAD IN POUNDS
5	77	34000													
8	70	24000	77	21500											
10	66	20110	74	18460	78	14600					10				
12	61	17360	71	16010	76	12680	79	11810			12				
15	52	14310	66	13320	72	10500	76	9830	78	9200	15				
20	36	10490	57	10350	65	8160	70	7690	74	7280	20	78	3500		
25			47	8310	58	6570	65	6240	70	5910	25	75	3060	78	1940
30			36	6610	51	5420	59	5200	65	4940	30	72	2700		
35			17	4560	42	4470	53	4390	60	4200		69	2400	72	1490
40					32	3580	47	3720	55	3610		65	2150	70	1320
45					16	2380	39	3120	50	3110		62	1950	67	1180
50							29	2500	43	2670		58	1770	64	1060
55							15	1610	36	2240		55	1550	61	960
60									28	1780		50	1350	58	870
65									14	1400		46	1160	55	790
70												41	1010	51	730
75												36	830	48	670
80											80			44	610
85											85			40	570
90											90			35	520
95											95				
100											100				
	480 LBS.		330 LBS.		260 LBS.		220 LBS.		190 LBS.		DEDUCTIONS FOR STOWED JIB				

Step #3: Find the Gross Capacity

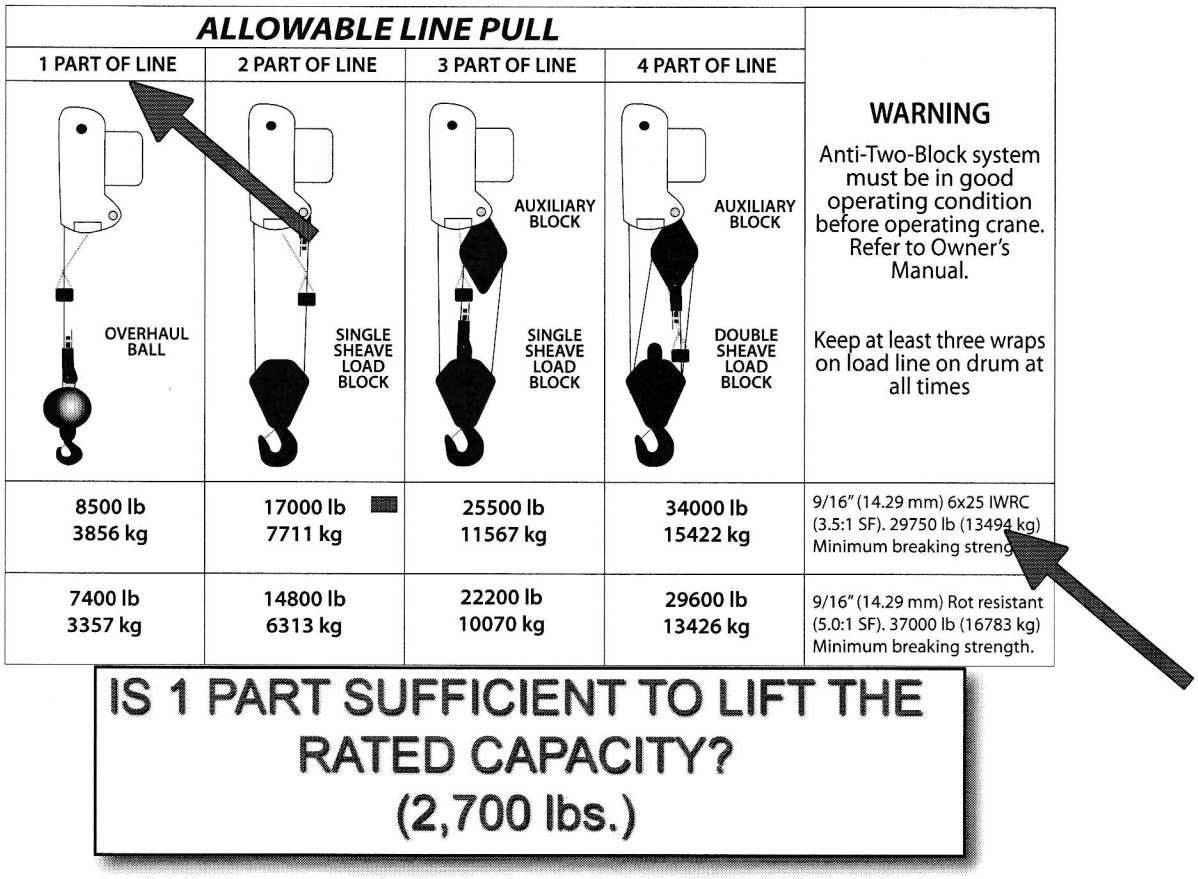
Make sure you're in the right chart. For this problem we are using a 23 foot jib.

Go to the radius column and find 30 ft.

Go to the column for the 23' jib.

Follow the row to the rated capacity (2,700 lbs)

MAKE SURE YOU'RE IN THE RIGHT CHART!



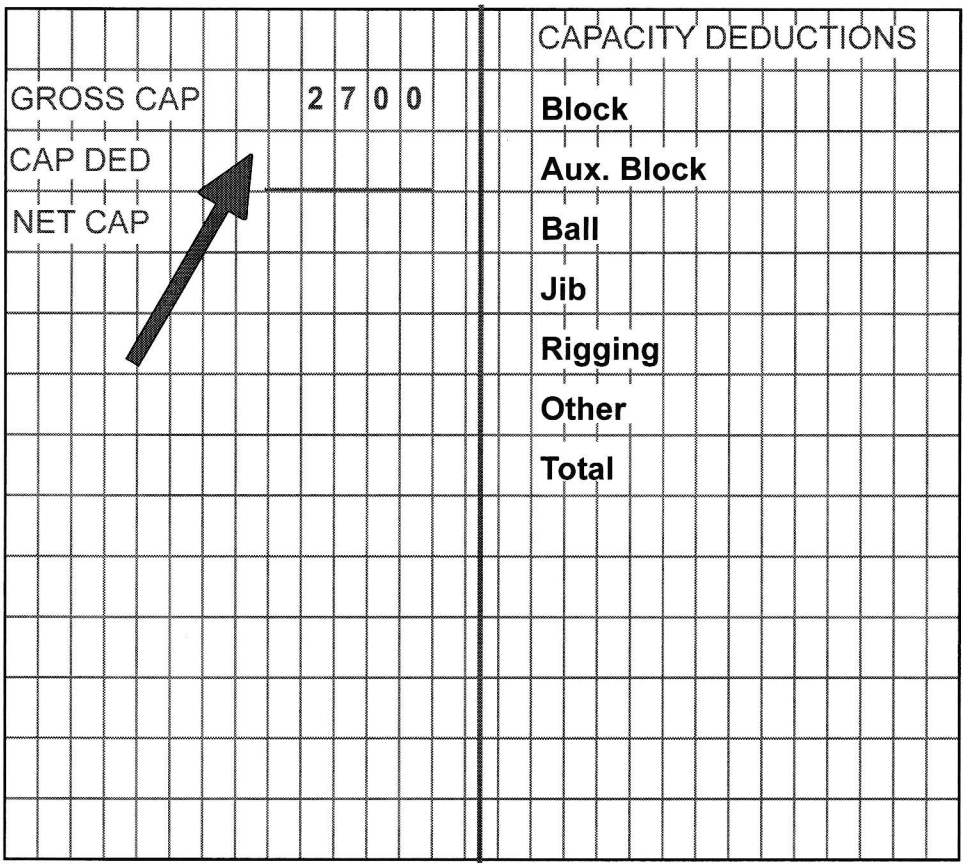
Step #3: Find the Gross Capacity

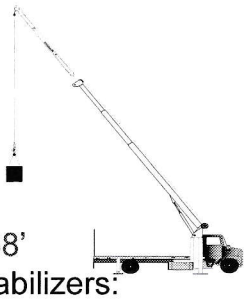
Is 1 part enough to lift the Rated Capacity?

There must be enough parts to lift the rated capacity or line pull would be the limiting factor and would be used for the gross capacity instead of the load rating chart.

Allowable line pull chart shows with 1 part of 6x25 IWRC wire rope, that the line pull for this configuration is 8,500 lbs.

What is the net capacity lifting off the jib over the rear?





Configuration ■

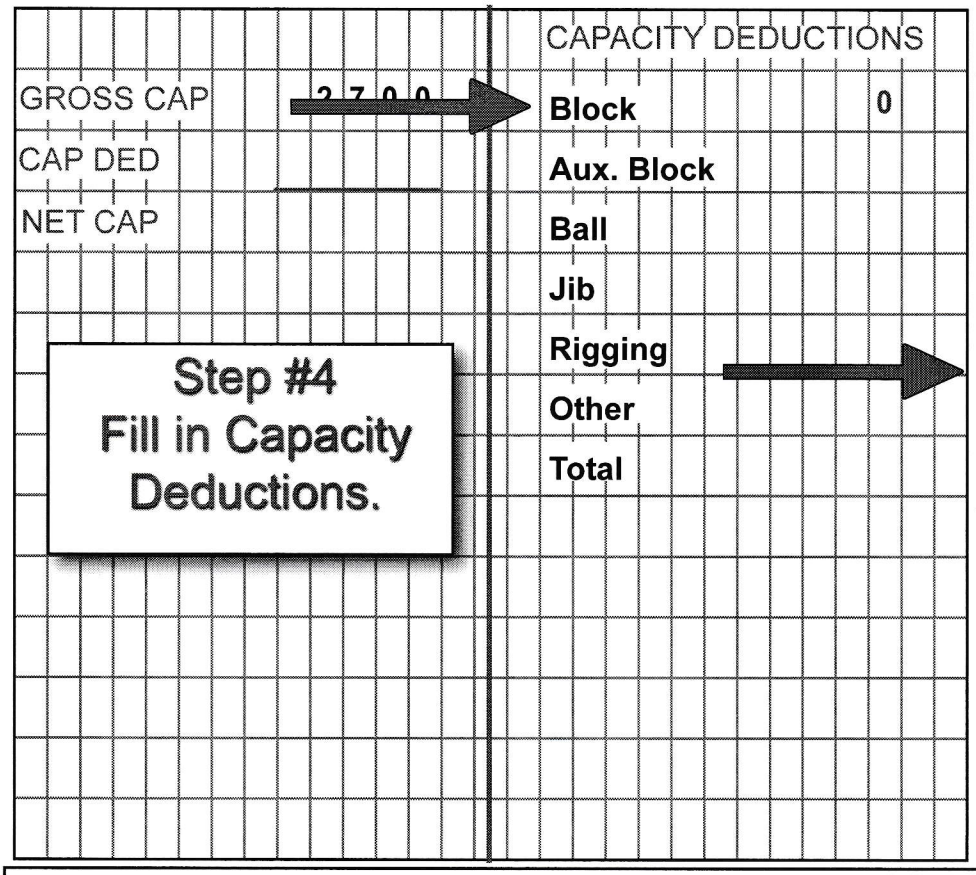
Main Boom: 68'
Outriggers/Stabilizers: Extended & Set
Radius: 30'
Main Boom Angle: N/A
Jib Length: 23' erected
Block: N/A
Ball: Overhaul ball
Rigging: 120 lbs.
Other: Hose Reel
Wire Rope: 9/16" - 6x25 IWRC

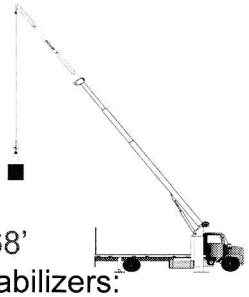
Step #3: Write in the Gross Capacity

Write "2,700" in the gross capacity work area on your grid.

WRITE THE NUMBERS IN THE GRID SPACES!!!!!

What is the net capacity lifting off the jib over the rear?





Configuration ■

Main Boom: 68'
Outriggers/Stabilizers: Extended & Set
Radius: 30'
Main Boom Angle: N/A
Jib Length: 23' erected
Block: N/A
Ball: Overhaul ball
Rigging: 120 lbs.
Other: Hose Reel
Wire Rope: 9/16" - 6x25 IWRC

Step #4: Fill in the Capacity Deductions

Fill in the weight for the block.

Since only 1 part of line is used, NO block is used.

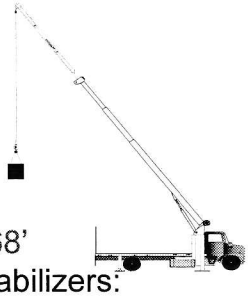
Simply enter "0" into the correct box.

WRITE THE NUMBERS IN THE GRID SPACES!!!!!

What is the net capacity lifting off the jib over the rear?

		CAPACITY DEDUCTIONS	
GROSS CAP	2700	Block	0
CAP DED		Aux. Block	0
NET CAP		Ball	
		Jib	
		Rigging	
		Other	
		Total	

Step #4
Fill in Capacity Deductions.



Configuration ■

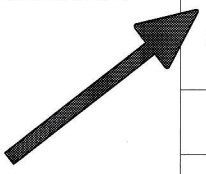
Main Boom: 68'
Outriggers/Stabilizers: Extended & Set
Radius: 30'
Main Boom Angle: N/A
Jib Length: 23' erected
Block: N/A
Ball: Overhaul ball
Rigging: 120 lbs.
Other: Hose Reel
Wire Rope: 9/16" - 6x25 IWRC

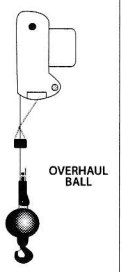
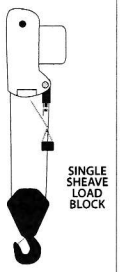
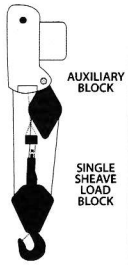
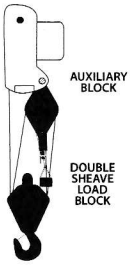
Step #4: Fill in the Capacity Deductions

Fill in the weight for the auxiliary block.

Since only 1 part of line is used, NO auxliary block is required.

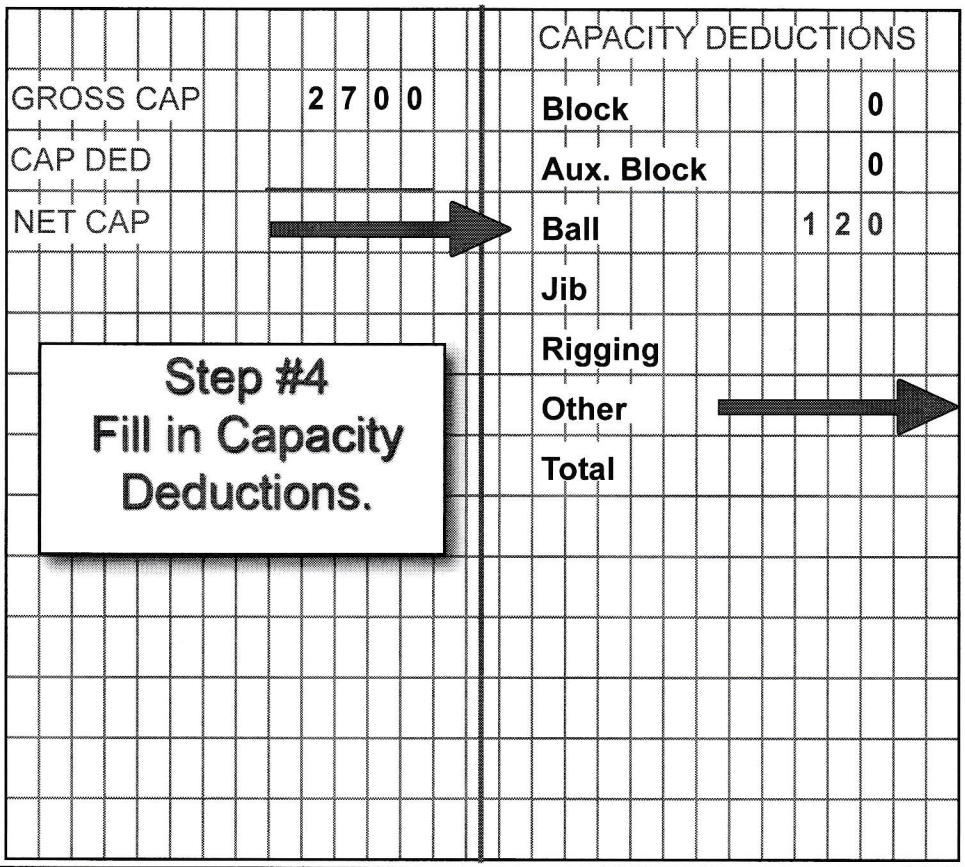
Simply enter "0" into the correct box.

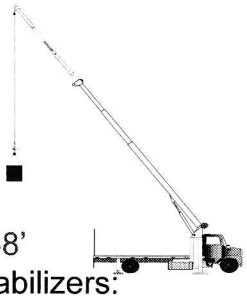


ALLOWABLE LINE PULL				
1 PART OF LINE	2 PART OF LINE	3 PART OF LINE	4 PART OF LINE	
				**WARNING** Anti-Two-Block system must be in good operating condition before operating crane. Refer to Owner's Manual. Keep at least three wraps on load line on drum at all times
8500 lb 3856 kg	17000 lb 7711 kg	25500 lb 11567 kg	34000 lb 15422 kg	9/16" (14.29 mm) 6x25 IWRC (3.5:1 SF). 29750 lb (13494 kg) Minimum breaking strength.
7400 lb 3357 kg	14800 lb 6313 kg	22200 lb 10070 kg	29600 lb 13426 kg	9/16" (14.29 mm) Rot resistant (5.0:1 SF). 37000 lb (16783 kg) Minimum breaking strength.

WRITE THE NUMBERS IN THE GRID SPACES!!!!!

What is the net capacity lifting off the jib over the rear?



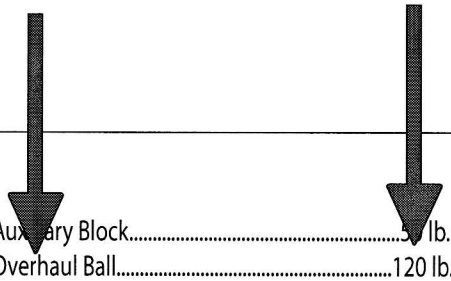


Configuration ■

Main Boom: 68'
Outriggers/Stabilizers: Extended & Set
Radius: 30'
Main Boom Angle: N/A
Jib Length: 23' erected
Block: N/A
Ball: **Overhaul ball**
Rigging: 120 lbs.
Other: Hose Reel
Wire Rope:
9/16" - 6x25 IWRC

Step #4: Fill in the Capacity Deductions

Fill in the weight of the ball.



DEDUCTIONS

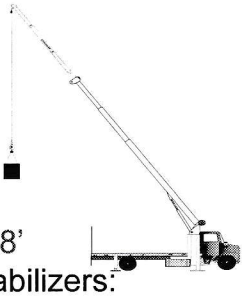
Auxiliary Block	50 lb	22.68 kg
Overhaul Ball	120 lb	54.43 kg
Single-Sheave Load Block	260 lb	117.93 kg
Double-Sheave Load Block	350 lb	158.76 kg
Hose Reel	190 lb	86.18 kg

Swing-Around Jib (Stowed) ..... See Load Rating Chart

WARNING
Lifting off the main boom point while the swing-around jib is erected is not intended or approved.

WRITE THE NUMBERS IN THE GRID SPACES!!!!!

What is the net capacity lifting off the jib over the rear?



		CAPACITY DEDUCTIONS	
GROSS CAP	2700	Block	260
CAP DED		Aux. Block	50
NET CAP		Ball	120
		Jib	0
		Rigging	
		Other	
		Total	

Step #4
Fill in Capacity Deductions.

Configuration ■

Main Boom: 68'
Outriggers/Stabilizers: Extended & Set
Radius: 30'
Main Boom Angle: N/A
Jib Length: 23' erected
Block: N/A
Ball: Overhaul ball
Rigging: 120 lbs.
Other: Hose Reel
Wire Rope: 9/16" - 6x25 IWRC

Step #4: Fill in the Capacity Deductions

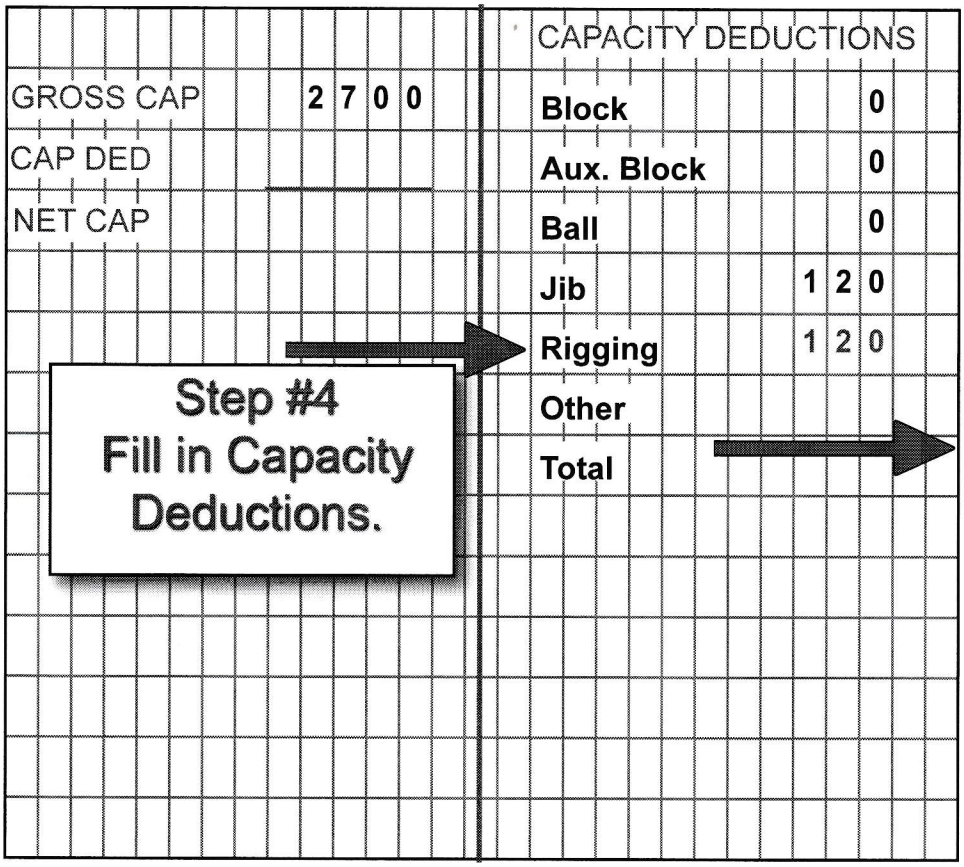
Fill in the weight of the jib capacity deduction.

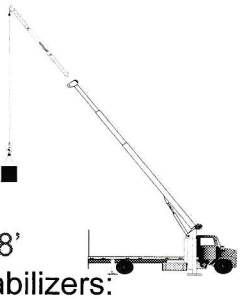
Since the jib is being used, NO deduction is required.

Simply write "0" in the correct box.

WRITE THE NUMBERS IN THE GRID SPACES!!!!!

What is the net capacity lifting off the jib over the rear?





Configuration ■

Main Boom: 68'
Outriggers/Stabilizers: Extended & Set
Radius: 30'
Main Boom Angle: N/A
Jib Length: 23' erected
Block: N/A
Ball: Overhaul ball
Rigging: 120 lbs.
Other: Hose Reel
Wire Rope: 9/16" - 6x25 IWRC

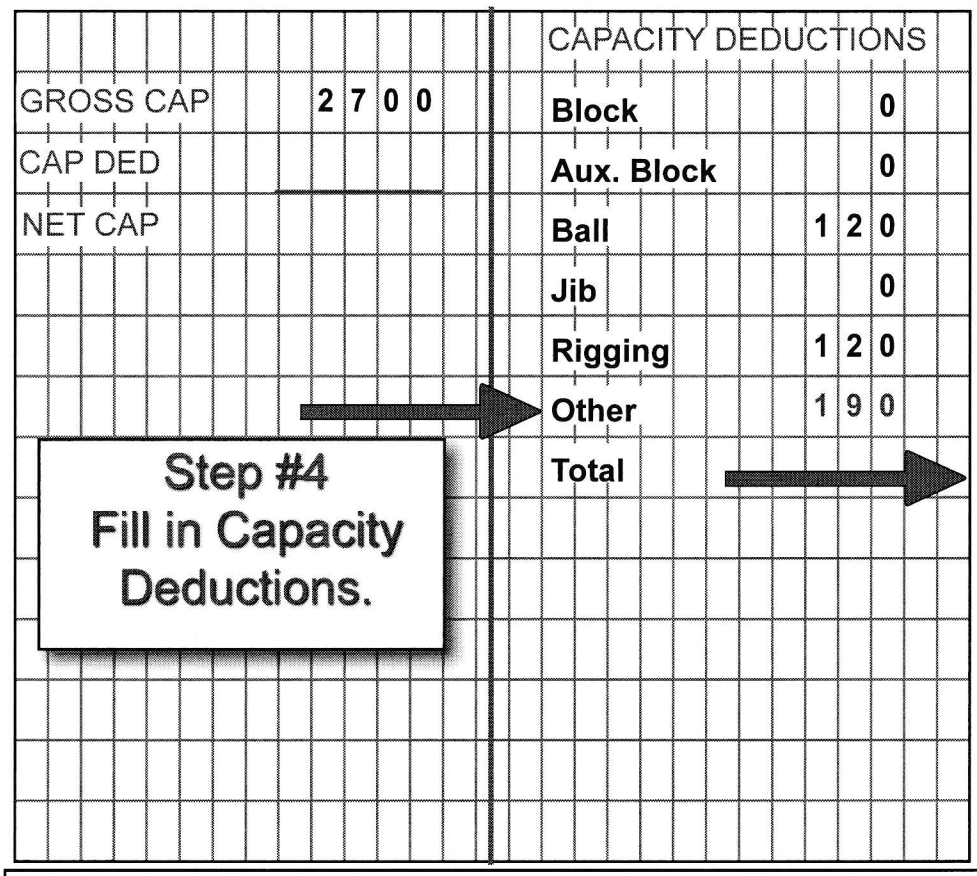
Step #4: Fill in the Capacity Deductions

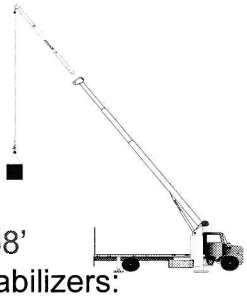
Fill in the weight of the rigging deduction.

You will find this information in the configuration section.

WRITE THE NUMBERS IN THE GRID SPACES!!!!!

What is the net capacity lifting off the jib over the rear?





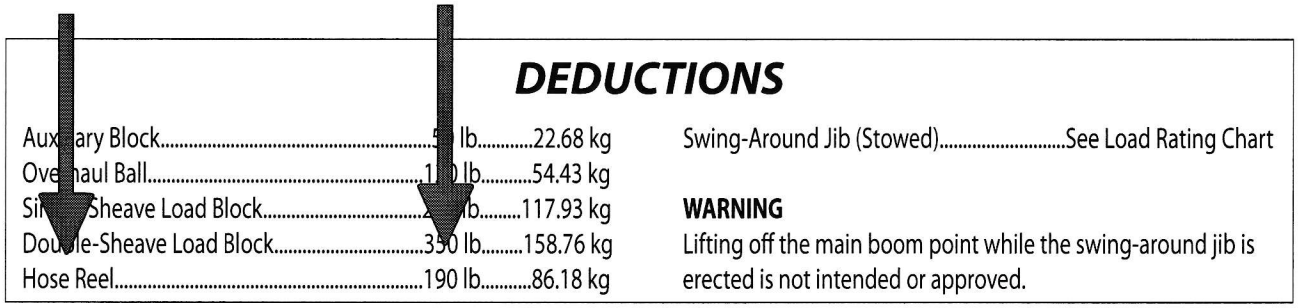
Configuration ■

Main Boom: 68'
Outriggers/Stabilizers: Extended & Set
Radius: 30'
Main Boom Angle: N/A
Jib Length: 23' erected
Block: N/A
Ball: Overhaul ball
Rigging: 120 lbs.
Other: Hose Reel
Wire Rope: 9/16" - 6x25 IWRC

Step #4: Fill in the Capacity Deductions

Fill in the weight of any additional lifting devices. You will find this information in the configuration section.

In this case we have a hose reel mounted on the crane and 190 lbs. must be deducted.

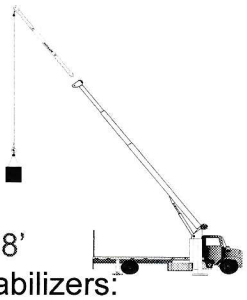


WRITE THE NUMBERS IN THE GRID SPACES!!!!!

What is the net capacity lifting off the jib over the rear?

		CAPACITY DEDUCTIONS	
GROSS CAP	2700	Block	0
CAP DED		Aux. Block	0
NET CAP		Ball	120
		Jib	0
		Rigging	120
		Other	190
		Total	430

Step #5 Total Capacity Deductions.



Configuration ■

Main Boom: 68'
Outriggers/Stabilizers: Extended & Set
Radius: 30'
Main Boom Angle: N/A
Jib Length: 23' erected
Block: N/A
Ball: Overhaul ball
Rigging: 120 lbs.
Other: Hose Reel
Wire Rope: 9/16" - 6x25 IWRC

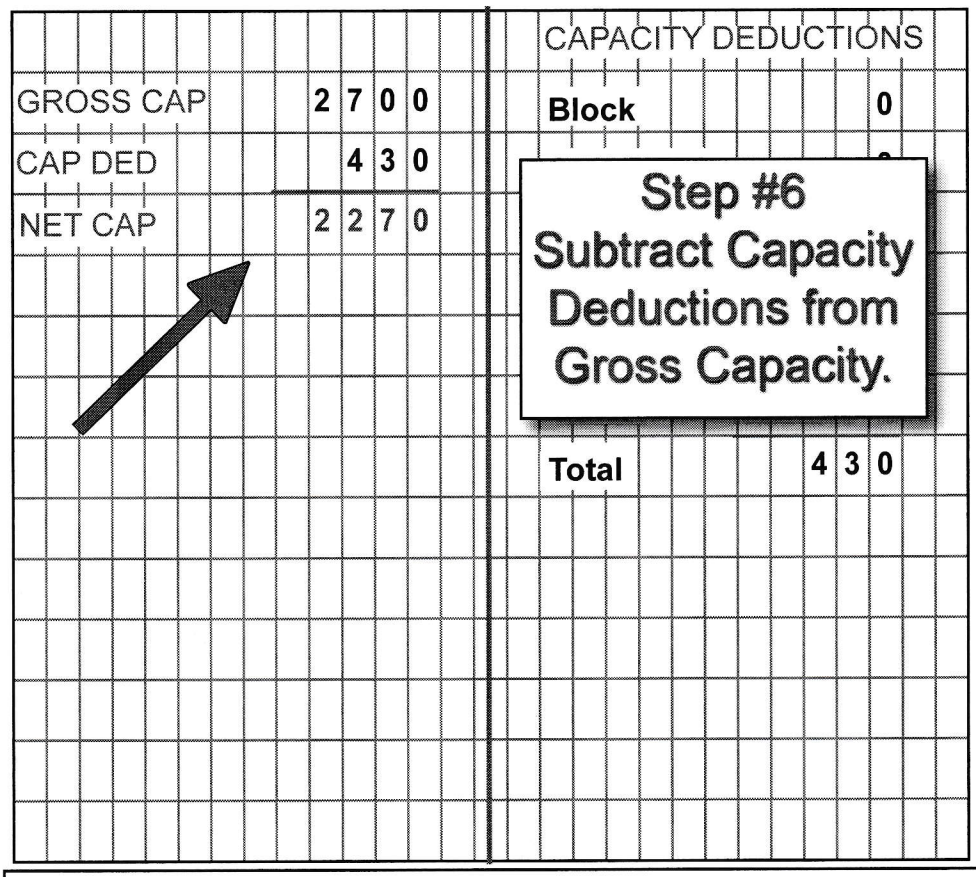
Step #5: Total the Capacity Deductions

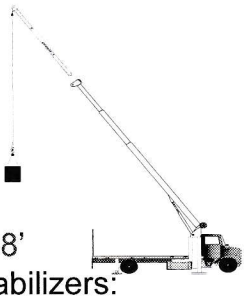
Add all the capacity deductions.

CAPACITY DEDUCTIONS ARE 430 lbs.

WRITE THE NUMBERS IN THE GRID SPACES!!!!!

What is the net capacity lifting off the jib over the rear?





Configuration ■

Main Boom: 68'
Outriggers/Stabilizers: Extended & Set
Radius: 30'
Main Boom Angle: N/A
Jib Length: 23' erected
Block: N/A
Ball: Overhaul ball
Rigging: 120 lbs.
Other: Hose Reel
Wire Rope: 9/16" - 6x25 IWRC

Step #6: Subtract Capacity Deductions from Gross Capacity.

NET CAPACITY IS 2,270 lbs.

WRITE THE NUMBERS IN THE GRID SPACES!!!!!