



SANY
AMERICA INC.

SCC8068

Crawler Crane



- 75 U.S. Tons (68 Metric Tons) @ 12.5 ft Radius
- 223 ft (H) Main Boom Max Tip Height
- Main Boom & Fixed Jib Configurations

Product Guide

Courtesy of Crane.Market

OPERATORS CAB



Sliding-door cab with large area windows, near and far beam head lamps, and rear-view mirrors allow for high visibility. Other features include heating and air conditioning, MP3 player, and ergonomic designed layout to ensure operator comfort.

SANY PROPRIETARY ELECTRONICS

SANY designs and manufactures its electrical and intelligence systems to control quality, efficiency, and performance.



HIGH QUALITY, NAME BRAND COMPONENTS



Cummins engine coupled to **Rexroth** hydraulic components deliver high reliability and consistent performance. Supplied with high quality **Diepa** Rope.

SCC8068



- Engine: Cummins QSC8.3, 245 hp @ 2000 rpm
- Hydraulic system: Rexroth pumps and drive motors
- SANY-designed LMI with large display screen
- Extendable tracks
- Two configurations available: Main Boom and Fixed Jib
- Main boom available in Tubular and Angle construction
- Key standard features
 - Main drum bail limits
 - Main drum and rear counterweight camera system
 - Basic machine lighting package
 - Aircraft warning light

Maximum Capacity @ Radius	75 U.S. T @ 12.5 ft
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Main Boom	3,6 & 9 Meter Sections 42 ft 8 in. – 219 ft 10 in.
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Max Tip Height (H Main Boom)	223 ft
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Fixed Jib Length	29 ft 6 in. – 59 ft 1 in.
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Main Winch - Rated Line Pull	20,944 lb
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Wire Rope Diameter	24 mm
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Weight Basic Machine (Without Track Frames & With Boom Butt)	99,206 lb
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Total Counterweight (Series 2)	82,450 lb
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Length Basic Machine - Transport (With Track Frames & Boom Butt)	43 ft 4 in.
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Height Basic Machine - Transport (With Track Frames & Boom Butt)	11 ft 5 in.
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Width Basic Machine - Transport (With Track Frames & Boom Butt)	11 ft 4 in.
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Tail Swing	16 ft 5 in
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UPPERWORKS

ENGINE

Cummins Model QSC, 8.3 Tier 3
 Power..... 245.5 hp (183.1kW)
 Fuel Tank 105.7 gal (400L)



HYDRAULIC SYSTEM

Rexroth hydraulic system includes the main pump, main valve, control, and motor reducer. It is efficient, energy saving, stable and reliable. It has excellent micro-rotation and performance improvement, load sensing; limit load regulation and hydraulic oil cooling system controlled independently.



CONTROLS

Combination of instrument, engine torque limiter, and remote control terminal apply CAN bus technology for data communication. Combined instrument can display parameters such as engine rotating speed, fuel quantity, machine oil pressure, servo pressure, wind speed, the engine operating working hours, drum lock, swing lock, and other working conditions.

DRUMS

Independently driven, main and auxiliary drum rotation is operated by control handles located inside the operators cab.
 Rope Diameter24mm
 Max Line Speed355.5 ft/min
 Single Line Rated Line Pull.....20,944 lb
 Max Spooling Main.....721.9 ft
 Whip524.11 ft



SWING SYSTEM

Rotary hydraulic driven motor provides 360° rotation. Swing and Free Swing lock functions.
 Tail Swing..... 16 ft 7 in



COUNTERWEIGHT

SERIES 1

1 – Upperworks Tray22,046 lb
 4 – Upper Side Block25,572 lb
 (6,393 lb each)
 Total47,618 lb

SERIES 2

1 – Upperworks Tray22,046 lb
 6 – Upper Side Block38,358 lb
 (6,393 lb each)
 2 – Crawler Side Block22,046 lb
 (11,023 lb each)
 Total82,450 lb



OPERATORS CAB

Sliding-door cab with large area windows, near and far beam head lamps, and rear-view mirrors allow for high visibility. Other features include heating and air conditioning, MP3 player, and ergonomic designed layout to ensure operator comfort.



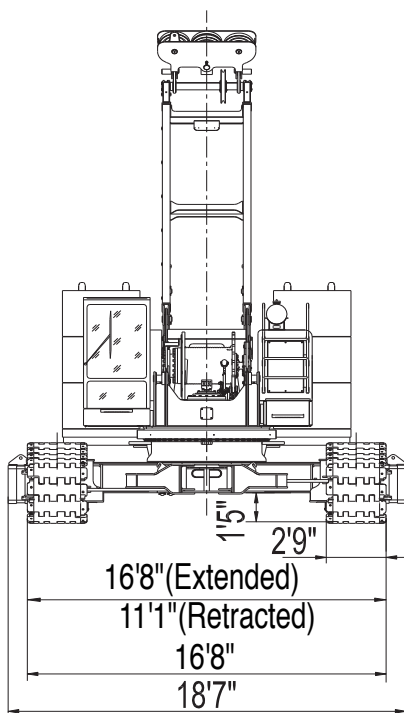
LOWERWORKS

CARBODY

Connects upperworks to two independently driven crawler assemblies. Travel motors can achieve lineal travel and counter rotation through motor reducer and high tractive effort. Including extend and retract feature.

CRAWLERS

Track Tension: Use the hydraulic tensioning jacks to adjust the tension of the track and add adjusting shims to hold adjustment. Track frames can be retracted for transportation so that the overall transport width of the machine is within legal limits, reducing assembly and disassembly time.



ATTACHMENTS



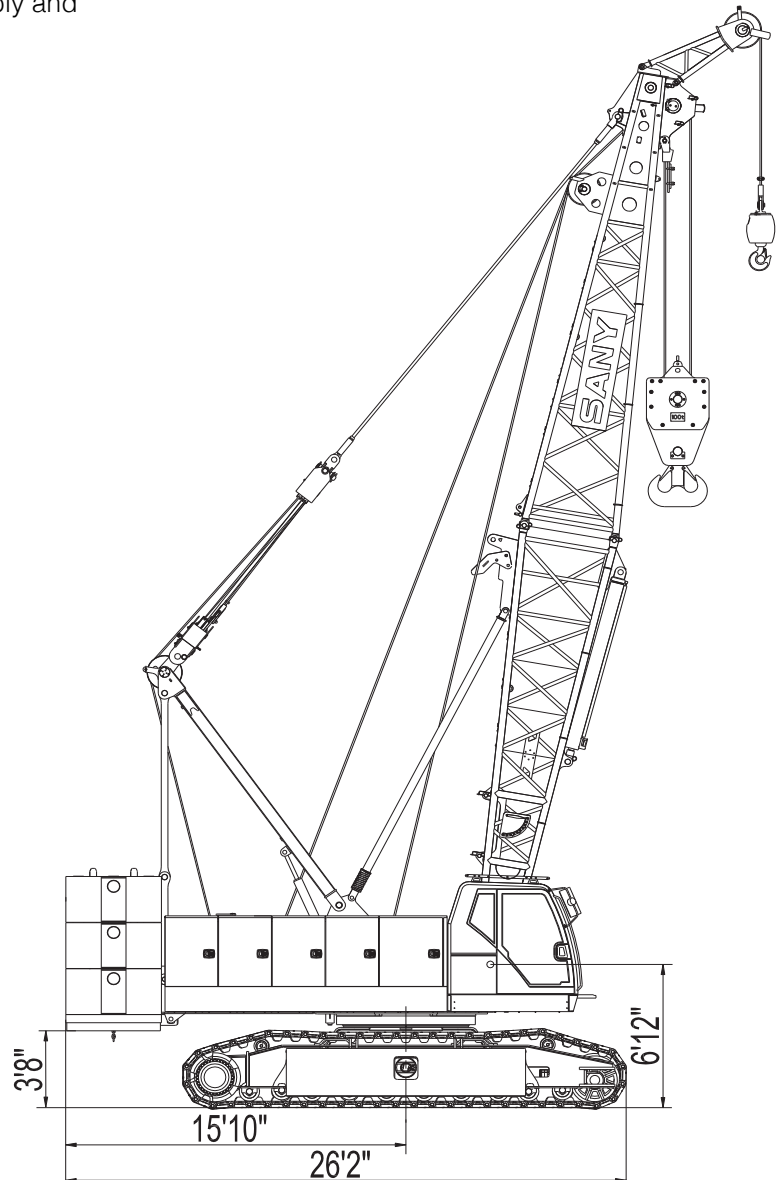
MAIN BOOM (H)

Max boom length.....219' 10" (66.8 m)
 Max boom Combination 1 – 9' 10" (3m) insert
 1 – 19' 8" (6m) insert
 5 – 29' 6" (9m) insert



FIXED JIB (FJ)

Max Jib Length.....59' 1" (18m)
 Max Jib Combination.....2 – 14' 9" (4.5m) insert



A-Frame Alarm Device

In installation mode, if A-frame does not rise into correct position, the system will alarm and the operator and work mode functions will be inoperative.

Aircraft Warning Light

Installed on the top of the boom or jib.

Anemometer

Installed at the top of boom or fixed jib for real-time monitoring of wind speed and transmission of data to operators cab for display on monitor.

Anti-Two Block (ATB)

Composed of limit switch and actuation weight on load lines to prevent excessive raising of hook block. When the lifting hook raises to its maximum height, a limit switch will activate the buzzer on the control panel, meanwhile the indicator light will blink and automatically stop the lifting operation of hook block.

Bail Limits

Composed of a mechanical arm with roller riding on the drum wire rope and proximity switches to inform the operator when 3 dead wraps are remaining. The system will alarm through a buzzer and alarm information will be displayed in the instrument cluster and automatically stop the drum movement.

Boom Stop

Composed of a spring cushioned boom stop and automatic boom stop to prevent exceeding backwards boom angle limits.

Boom Elevation Device

When the boom angle is greater than 81°, the buzzer will alarm, and boom control lever will be deactivated. This protection is controlled by a torque limiter and position switch. When the boom angle is less than 30°, an alarm will activate and display information in the control panel and automatically stop operation.

Drum Locking Device

All drums are equipped with an electric locking device. Before drum operation, operator must switch to unlock before operation.

Emergency Stop Function

In emergency, press the emergency stop button to cut off power supply of the machine and stop all operations.

Function Cut-Out

If the function lock handle is not in place, all functions for operating machine will be deactivated.

Leveling Gauge

Electronic leveling gauge displaying machine angle on monitor.

Lighting

Equipped with drum lights, lower beam in front of machine, front adjustable high beam, lighting lamps in operator's cab, lighting equipment for night operation

Lightning Protection Device

Including lightning protection grounding and surge protection devices to prevent damage to electrical components under lightning strikes.

Monitoring System

Cameras: 2 cameras are equipped for monitoring drum spooling, boom hoist, and rear of machine.

Optional monitoring: variable zoom monitoring camera system on boom top monitoring the working conditions of hook block.

Rearview Mirror

Installed on the right of the operator's cab for monitoring the rear of the machine

Swing Lock

Hydraulic power pin lock to lock the crane in front, rear, left and right positions.

Shove-Off Seat Protection

The operator must be seated for all machine functions to work

Signs For Boom Angle

Pendulum angle indicator device is located in boom base next to the cab for operator convenience.

Sound And Light Alarming Device

When engine is running, lights will flash; when traveling or swinging, alarm will sound.

Switch Of Installation Mode / Work Mode

In installation mode, bail limits, boom elevation device, and torque limiter are inoperative to facilitate crane installation. In operation mode, all the safety limits return to normal.

Three-Color Load Warning Light

There is green, yellow and red load warning lights, simultaneous displaying real-time load. When the actual load is less than 92% of rated load, the green light is on; when the actual load is between 92% and 100% of the rated load, the yellow light is on, the pre-warning lights will flash and intermittent alarm will be issued; When the actual load reaches 100% of rated load, the red light is on, the pre-warning lights will flash and intermittent alarm will be issued; When the actual load reaches 102% of rated load, the machine will automatically stop hoisting functions.

Torque Limiter

A completely separate and secure computer-controlled operating system; torque limiter can automatically detect the load of cranes and the angle of boom and show its rated load and actual load, working radius and boom angle.

Components: machine, monitor, angle sensors, force sensors etc.

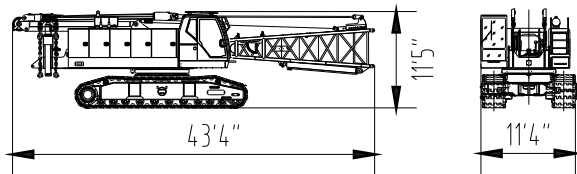
Functions: can display real-time rated load, actual load, working radius and boom angle, height and other data at current status of the crane and give real-time alarm if limits are exceeded.

Turn Indicating Device

When traveling or swinging, turn indicating light blinks.

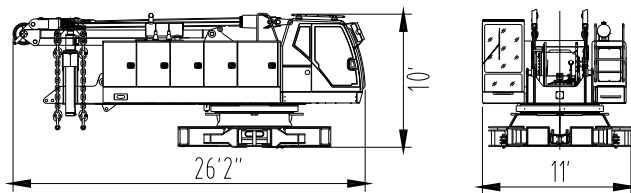
Wire Rope Guides

Lifting hooks are provided with guides to ensure the wire rope is maintained in the correct sheave location.



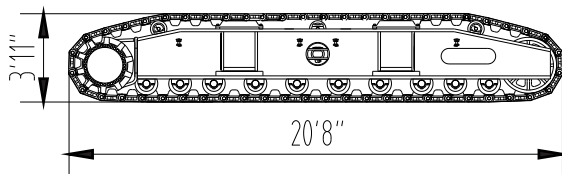
BASE MACHINE (With Track Frame)

Length	43'4"
Width	11'4"
Height	11'5"
Weight	99206 lb



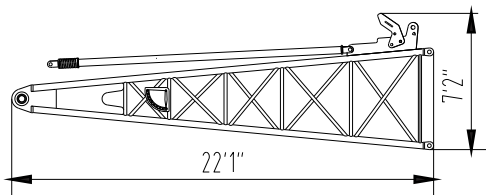
BASE MACHINE (Without Track Frame)

Length	26'2"
Width	11'
Height	10'
Weight	55115 lb



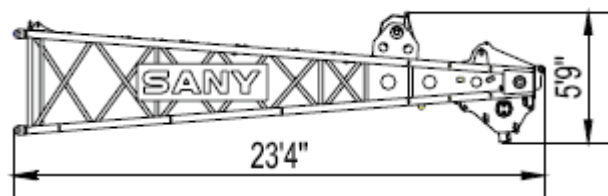
TRACK FRAME

Length	20'8"
Width	3'7"
Height	3'11"
Weight	20944 lb



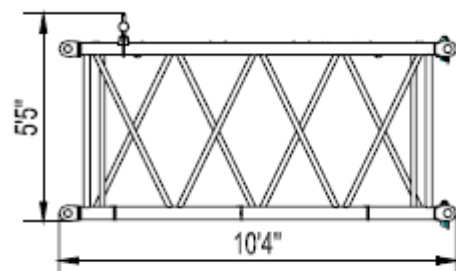
BOOM BASE

Length	22'1"
Width	5'3"
Height	7'2"
Weight Tubular Boom	3726 lb
Weight Angle Boom	3748 lb



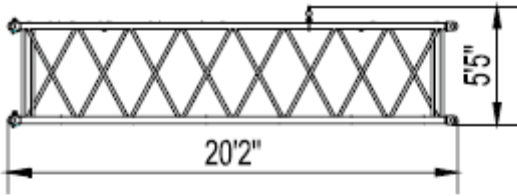
BOOM TIP

Length	23'4"
Width	5'3"
Height	5'9"
Weight Tubular Boom	3241 lb
Weight Angle Boom	3190 lb



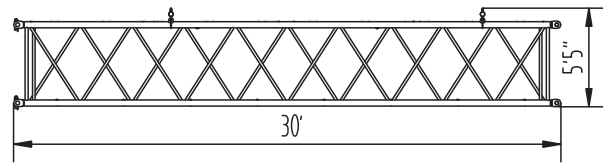
BOOM INSERT 9'10" (3m)

Length	10'4"
Width	5'6"
Height	5'5"
Weight Tubular Boom	1014 lb
Weight Angle Boom	1378 lb



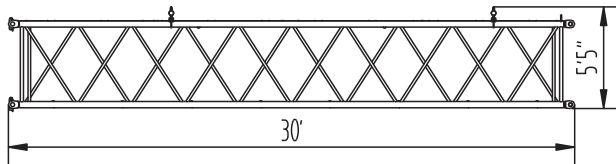
BOOM INSERT 19'8" (6m)

Length	20'2"
Width	5'3"
Height	5'5"
Weight Tubular Boom	1631 lb
Weight Angle Boom	2173 lb



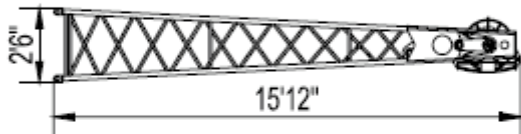
BOOM INSERT 29'6" (9m) No. 1

Length	30'
Width	5'3"
Height	5'5"
Weight Tubular Boom	2072 lb
Weight Angle Boom	3057 lb



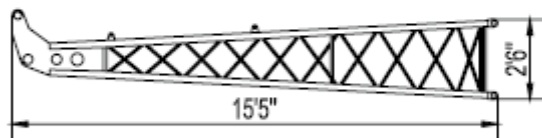
BOOM INSERT 29'6" (9m) No. 2

Length	30'
Width	5'3"
Height	5'5"
Weight Tubular Boom	2072 lb
*Not Available in Angle Boom	



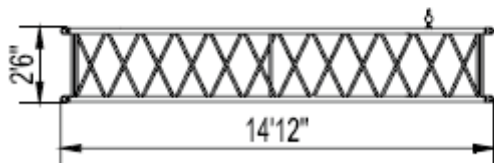
FIXED JIB TIP 14'9" (4.5m)

Length	16'
Width	2'10"
Height	2'6"
Weight	728 lb



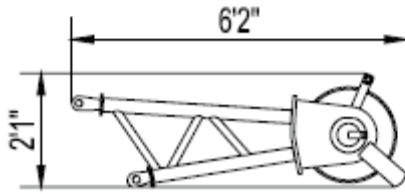
FIXED JIB BASE 14'9" (4.5m)

Length	15'6"
Width	2'11"
Height	2'6"
Weight	661 lb



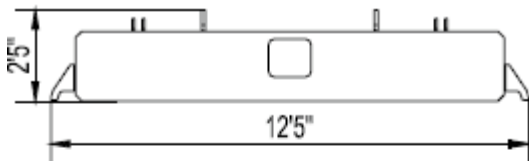
FIXED JIB INSERT 14'9" (4.5m)

Length	15'
Width	2'10"
Height	2'6"
Weight	507 lb



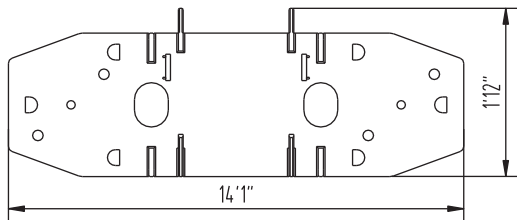
UPPER BOOM POINT

Length	6'2"
Width	2'5"
Height	2'1"
Weight Tubular Boom	375 lb
Weight Angle Boom	375 lb



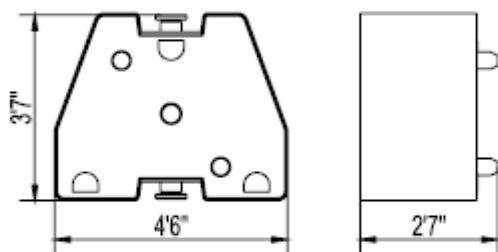
CRAWLER SIDE COUNTERWEIGHT

Length	12'5"
Width	1'3"
Height	2'5"
Weight	11023 lb



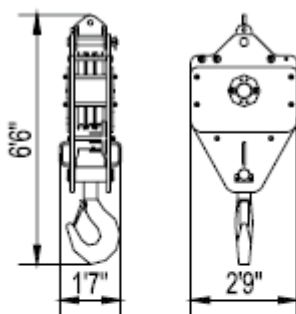
UPPERWORKS COUNTERWEIGHT TRAY

Length	14'1"
Width	5'3"
Height	2"
Weight	22046 lb



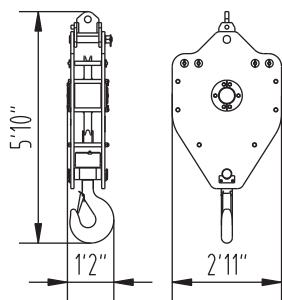
COUNTERWEIGHT BLOCK

Length	4'6"
Width	3'7"
Height	2'7"
Weight	6393 lb



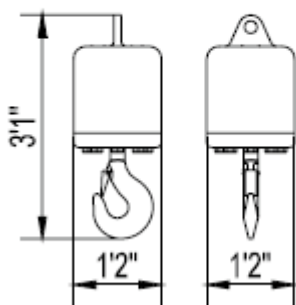
HOOK BLOCK 55 USt (50 Mt)

Length	6'6"
Width	2'9"
Height	1'7"
Weight	2205 lb



HOOK BLOCK 27.5 USt (25 Mt)

Length	5'10"
Width	2'11"
Height	1'2"
Weight	1235 lb



HOOK BALL 10 USt (9 Mt)

Length	3'1"
Width	1'2"
Height	1'2"
Weight	750 lb

NOTES:

1. The transport dimensions of the parts marked on schematic diagrams, but not drawn to scale; the dimensions indicated are the design values excluding package.
2. The weight is the design value and there may be difference due to the manufacturing error.

219'10" Main Boom + 59'1" Fixed Jib Transport Trailer Load Out Summary (Transport <i>With</i> Track Frame)						
Name	Weight (lb)	1	2	3	4	5
Basic Machine (With Track Frames and Tubular Boom Base)	99,206	1				
Basic Machine (With Track Frames & Angle Boom Base)	99,228	1				
Upperworks Counterweight Tray	22,046		1			
Crawler Side Counterweight Block	11,203		1			1
Counterweight Block	6,393			2	2	2
Tubular Boom Tip	3,241		1			
Angle Boom Tip	3,190		1			
Tubular Boom 9'10" (3 m) Insert	1,014					1
Tubular Boom 19'8" (6 m) Insert	1,631					1
Tubular Boom 29'6" (9 m) Insert	2,072			2	2	1
Angle Boom 9'10" (3 m) Insert	1,378					1
Angle Boom 19'8" (6 m) Insert	2,173					1
Angle Boom 29'6" (9 m) Insert	3,057			2	2	1
Fixed Jib Tip	728			1		
Fixed Jib Base	661				1	
Fixed Jib 14'9" (4.5 m) Insert	507			2		
Upper Boom Point	375				1	
Hook Block 110 USt (100 Mt)	5,357			1		
Hook Block 88 USt (80 Mt)	3,197				1	
Hook Block 55 USt (50 Mt)	2,205				1	
Hook Block 27.5 USt (25 Mt)	1,235				1	
Hook Ball 10 USt (9 Mt)	750			1		
Weight Each Trailer (Tubular Boom) (lb)		99,206	36,490	24,779	24,603	28,706
Weight Each Trailer (Angle Boom) (lb)		99,228	36,439	26,749	26,573	30,597



SCC8068 MAIN BOOM (H) LOAD CHART



1513A



60,400 lb
+
22,000 lb



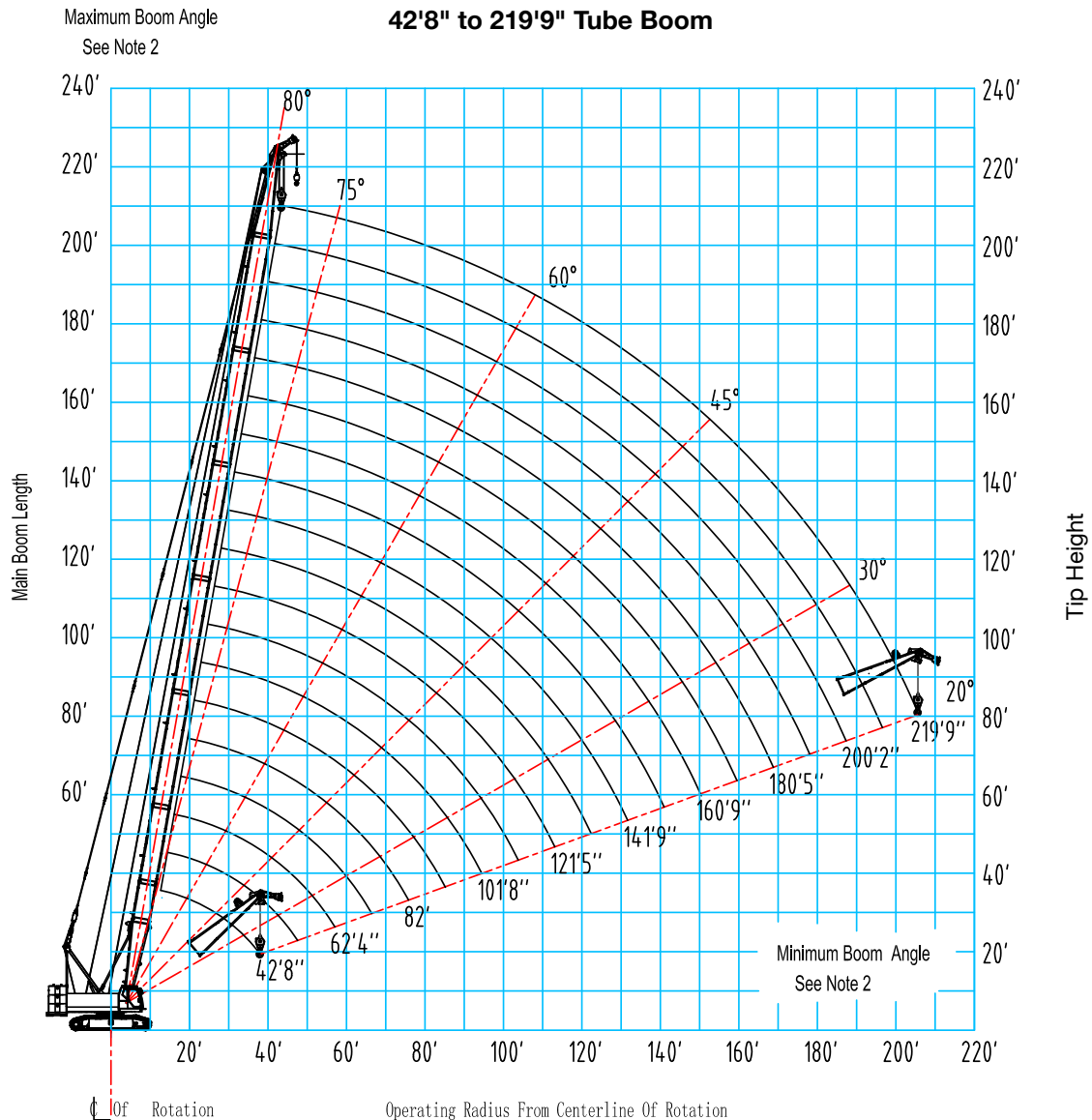
360°

LOAD RAD (ft)	BOOM LENGTH (ft)									
	43	62	82	102	121	141	161	180	200	220
	CAPACITY (x 1000 lb)									
13	150.0									
14	150.0									
15	150.0									
16	150.0	150.0								
17	150.0	150.0								
18	150.0	147.9								
19	143.6	139.0								
20	135.1	130.4	129.6							
25	97.5	96.2	93.4	90.0						
30	75.7	74.8	73.7	71.8	69.6	67.6				
35	61.7	60.8	59.9	59.0	57.9	57.2	56.3			
40	51.7	50.9	50.2	49.4	48.5	47.3	46.4	45.6	44.2	
45		43.7	42.9	42.2	41.5	40.7	40.1	39.3	38.1	34.4
50		38.0	37.4	36.7	35.9	35.1	34.7	33.9	33.0	31.3
55		33.8	33.2	32.5	31.8	31.0	30.3	29.8	29.0	27.6
60		30.1	29.4	28.8	28.2	27.4	26.8	26.2	25.4	24.4
65			26.4	26.1	25.3	24.4	23.8	23.3	22.4	21.5
70			23.9	23.6	22.8	22.1	21.5	20.8	20.0	19.1
75			21.8	21.5	20.8	20.0	19.5	18.7	17.8	17.1
80			19.9	19.7	19.0	18.1	17.7	16.8	15.9	15.3
85				18.0	17.3	16.6	16.0	15.3	14.4	13.8
90				16.6	15.8	15.1	14.6	13.8	13.1	12.3
95				15.2	14.5	13.8	13.4	12.5	11.8	10.9
100					13.4	12.7	12.2	11.4	10.6	9.8
110					11.5	10.9	10.2	9.4	8.7	8.0
120						9.2	8.5	7.9	7.0	6.3
130						7.9	7.2	6.6	5.7	5.0
140							6.2	5.4	4.7	4.0
150							5.2	4.5	3.6	3.0
160								3.5	2.7	2.0
170								2.7	2.0	

*This material is supplied for reference only. Operator must refer to Crane Rating Manual and Operator's Manual to determine allowable crane lifting capacities and assembly operating procedures.



Main Boom (H) Working Range Diagram



NOTES:

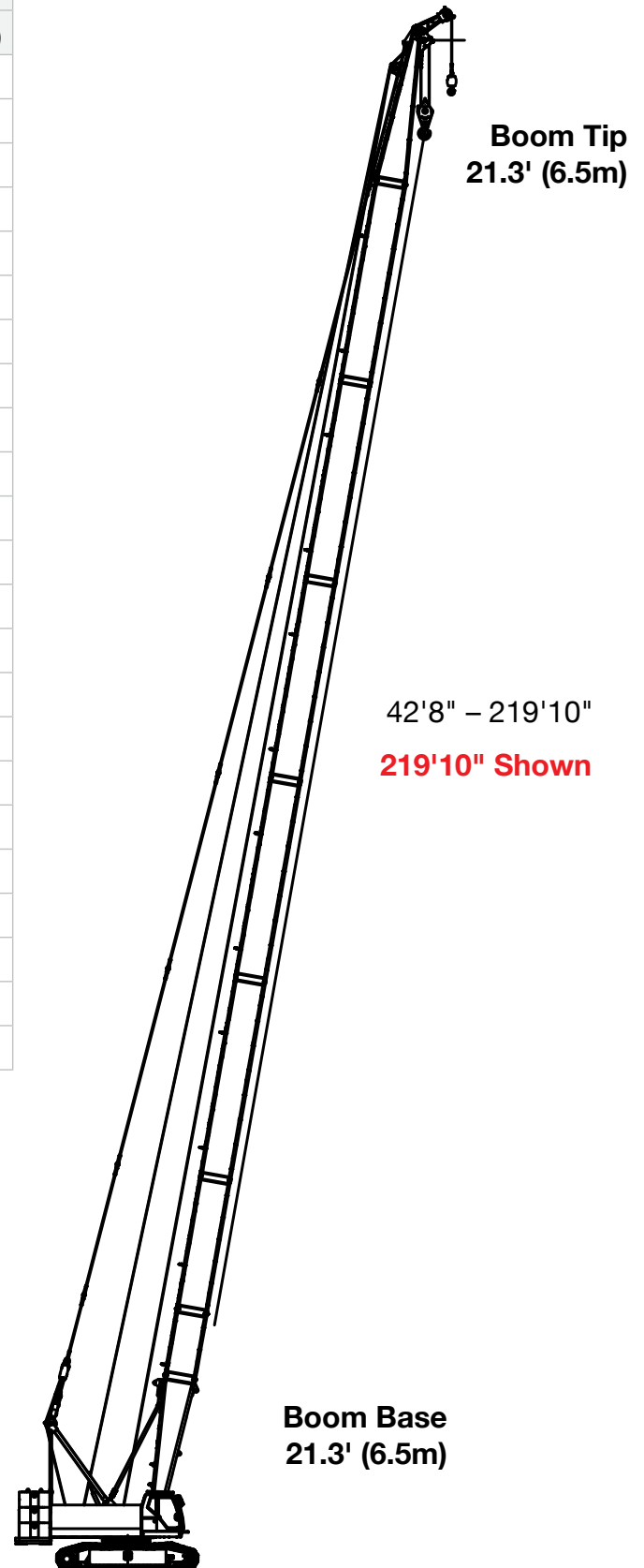
1. Boom geometry shown is for unloaded condition and crane standing level on firm supporting surface. Boom deflection, subsequent radius, and boom angle change must be accounted when applying load to hook.
2. Maximum and minimum boom angles are equal to the values listed in the capacity chart for each boom length.



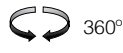
BOOM LENGTH (ft)	BOOM INSERT			
	9'10"	19'8"	29'6" (I)	29'6" (II)
42'8"	—	—	—	—
52'6"	1	—	—	—
62'4"	—	1	—	—
72'2"	—	—	1	—
82'	1	—	1	—
91'10"	—	1	1	—
101'8"	1	1	1	—
*101'8"	—	—	2	—
111'7"	—	—	2	—
121'5"	1	1	2	—
131'3"	—	1	2	—
*131'3"	—	—	3	—
141'1"	1	—	3	—
150'11"	—	1	3	—
160'9"	1	1	3	—
*160'9"	—	—	4	—
170'7"	1	—	4	—
180'5"	1	1	4	—
190'3"	—	1	4	—
*190'3"	—	—	5	—
200'2"	1	—	5	—
210'	—	1	4	1
219'10"	1	1	4	1

NOTES:

1. The boom composition with " * " is the preferred composition.
2. 29.5' 1513A Center I is not equipped with connecting base at the end of the connector for the midpoint suspension cable.
3. 29.5' 1513A Center II is equipped with connecting base at the end of the connector for the midpoint suspension cable.



**SCC8068
30 FT FIXED JIB LOAD CHART**

 60,400 lb
+
22,000 lb

BOOM ANGLE 15°

BOOM LENGTH (ft)

LOAD RAD (ft)	102	112	121	131	141	151	161	171
	CAPACITY (x 1000 lb)							
40	18.7	18.7	18.7	18.7				
50	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7
60	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7
70	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7
80	17.6	17.6	18.5	18.4	18.4	18.3	18.1	17.7
90	16.7	16.5	16.2	15.9	15.6	15.3	14.9	14.6
100	14.5	14.2	13.8	13.5	13.1	12.8	12.5	12.2
110	12.6	12.2	11.8	11.5	11.1	10.9	10.7	10.2
120		10.5	10.1	9.9	9.4	9.2	9.0	8.5
130			8.8	8.6	8.1	7.9	7.6	7.2
140					7.1	6.6	6.4	6.0
150						5.6	5.4	5.0
160							4.4	4.1
170								3.3

BOOM ANGLE 30°

BOOM LENGTH (ft)

LOAD RAD (ft)	102	112	121	131	141	151	161	171
	CAPACITY (x 1000 lb)							
50	18.7	18.7	18.7	18.7	18.7			
60	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7
70	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7
80	18.7	18.6	18.5	18.5	18.4	18.4	18.3	18.3
90	17.3	16.9	16.6	16.4	16.0	15.7	15.5	15.1
100	14.7	14.4	14.0	13.8	13.5	13.1	12.9	12.6
110	12.6	12.4	12.0	11.8	11.5	11.1	10.9	10.7
120			10.3	10.1	9.8	9.4	9.2	9.0
130				8.8	8.3	8.1	7.9	7.5
140					7.1	6.9	6.6	6.2
150							5.6	5.2
160								4.2

**SCC8068
44 FT FIXED JIB LOAD CHART**

 60,400 lb
+
22,000 lb

BOOM ANGLE 15°

BOOM LENGTH (ft)

LOAD RAD (ft)	102	112	121	131	141	151	161	171
	CAPACITY (x 1000 lb)							
50	15.4	15.4	15.4	15.4	15.4	15.4		
60	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
70	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
80	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
90	15.4	15.4	15.4	15.4	15.4	15.1	15.0	14.8
100	14.7	14.5	14.0	13.8	13.4	13.1	12.9	12.5
110	12.9	12.4	12.2	11.8	11.5	11.1	10.9	10.4
120	11.2	10.7	10.5	10.1	9.8	9.4	9.2	9.0
130		9.4	9.0	8.78	8.3	8.1	7.9	7.5
140			8.0	7.6	7.3	7.0	6.6	6.3
150				6.5	6.3	5.8	5.6	5.4
160					5.3	5.0	4.7	4.4
170						4.2	4.0	3.5
180								2.9

BOOM ANGLE 30°

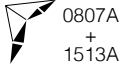
BOOM LENGTH (ft)

LOAD RAD (ft)	102	112	121	131	141	151	161	171
	CAPACITY (x 1000 lb)							
60	15.4	15.4	15.4	15.4	15.4	15.4		
70	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
80	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
90	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
100	15.1	14.8	14.5	14.3	13.9	13.7	13.5	13.1
110	13.1	12.6	12.4	12.2	12.0	11.5	11.3	11.1
120	11.4	11.0	1.7	10.5	10.3	9.9	9.6	9.4
130		9.7	9.2	9.0	8.8	8.6	8.3	7.9
140			8.1	7.9	7.5	7.3	7.0	6.6
150					6.5	6.1	5.8	5.6
160						5.3	4.9	4.7
170							4.1	3.8

*This material is supplied for reference only. Operator must refer to Crane Rating Manual and Operator's Manual to determine allowable crane lifting capacities and assembly operating procedures.



SCC8068
59 FT FIXED JIB LOAD CHART



60,400 lb
+
22,000 lb



BOOM ANGLE 15°

LOAD RAD (ft)	BOOM LENGTH (ft)						
	102	112	121	131	141	151	161
	CAPACITY (x 1000 lb)						
50	13.2	13.2					
60	13.2	13.2	13.2	13.2	13.2	13.2	13.2
70	13.2	13.2	13.2	13.2	13.2	13.2	13.2
80	13.2	13.2	13.2	13.2	13.2	13.2	13.2
90	13.2	13.2	13.2	13.2	13.2	13.2	13.2
100	13.2	13.2	13.2	13.2	13.1	13.0	12.9
110	12.7	12.5	12.2	12.0	11.8	11.3	11.1
120	11.2	11.0	10.7	10.3	10.1	9.6	9.4
130	9.9	9.7	9.2	9.0	8.6	8.3	8.1
140	8.7	8.4	8.1	7.7	7.5	7.2	6.9
150		7.4	6.9	6.7	6.5	6.1	5.8
160				5.8	5.5	5.3	4.9
170					4.6	4.4	4.2
180						3.8	7.3
190							2.9

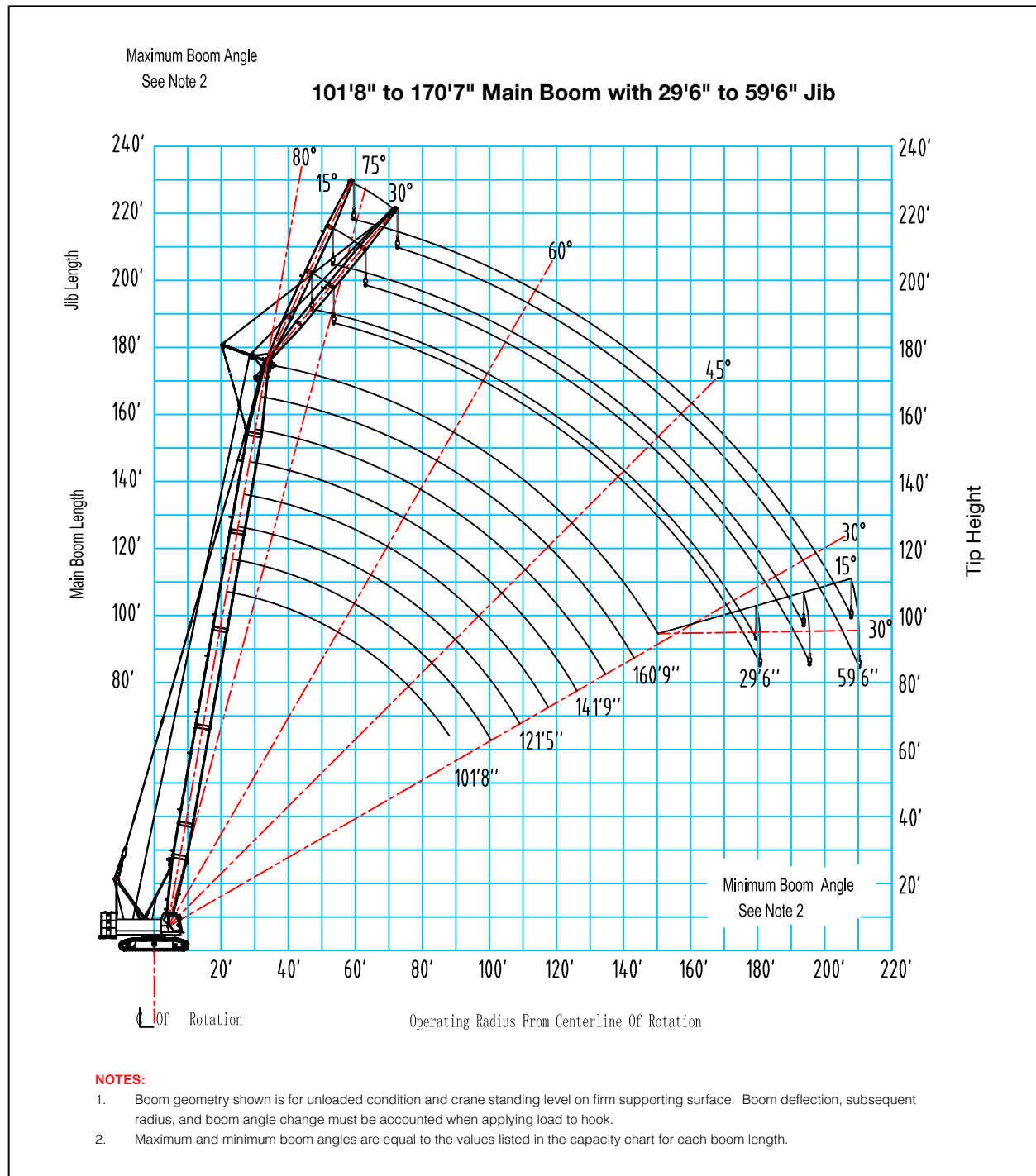
BOOM ANGLE 30°

LOAD RAD (ft)	BOOM LENGTH (ft)						
	102	112	121	131	141	151	161
	CAPACITY (x 1000 lb)						
60	13.2						
70	13.2	13.2	13.2	13.2	13.2	13.2	
80	13.2	13.2	13.2	13.2	13.2	13.2	13.2
90	13.2	13.2	13.2	13.2	13.2	13.2	13.2
100	13.2	13.2	13.2	13.2	13.2	13.2	13.1
110	13.0	12.9	12.7	12.5	12.2	12.0	11.8
120	11.6	11.4	11.2	10.7	10.5	10.3	10.1
130	10.1	9.9	9.7	9.4	9.0	8.8	8.6
140	8.8	8.6	8.4	8.2	7.9	7.5	7.3
150			7.2	6.9	6.7	6.5	6.3
160				6.0	5.7	5.5	5.3
170					4.9	4.6	4.4
180							3.5

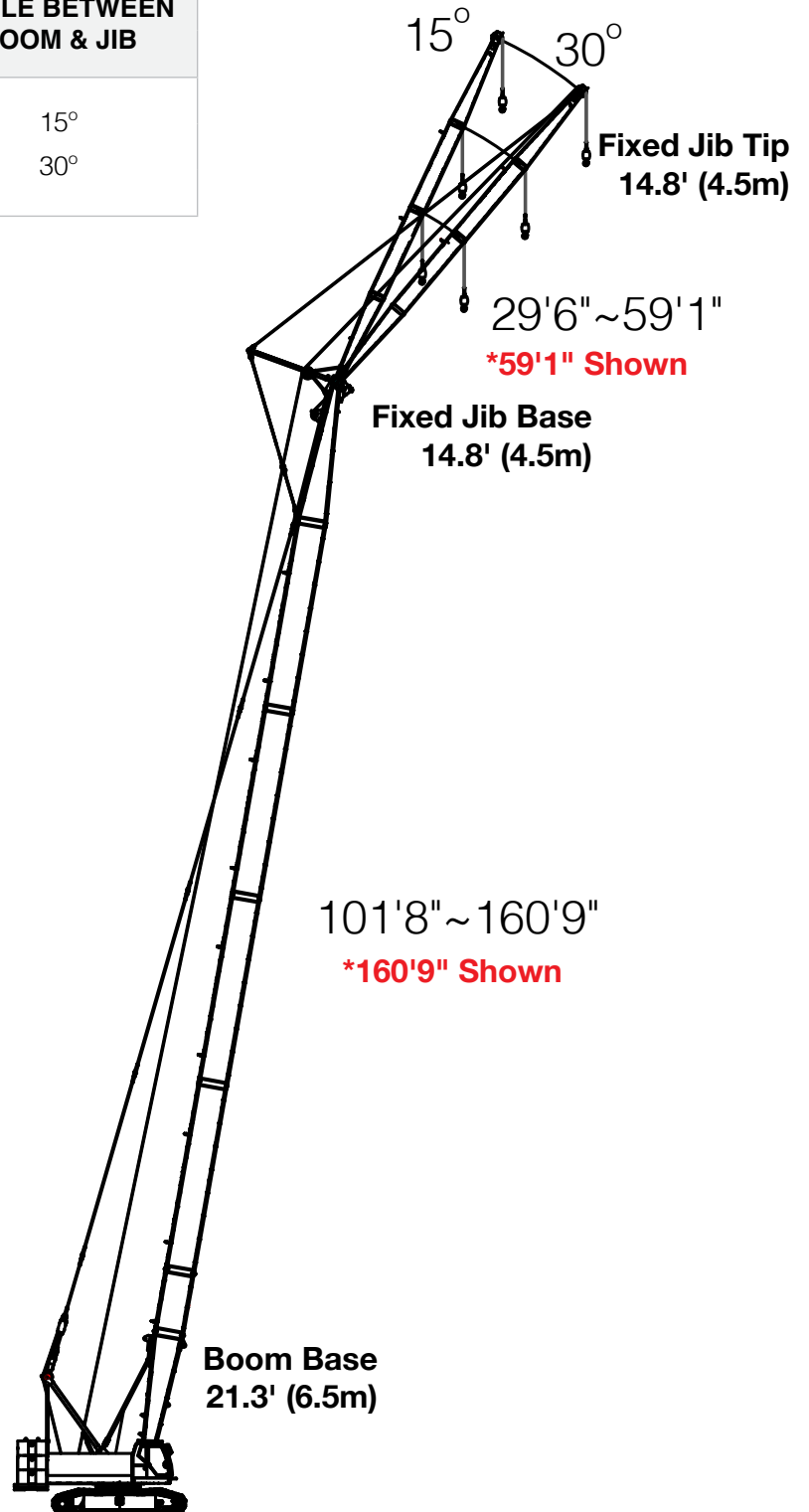
*This material is supplied for reference only. Operator must refer to Crane Rating Manual and Operator's Manual to determine allowable crane lifting capacities and assembly operating procedures.



Jib Attachment on (H) Working Range Diagram



FIXED JIB LENGTH (ft)	FIXED JIB INSERT	ANGLE BETWEEN BOOM & JIB
	14'9"	
29'6"	—	15°
44'3"	1	30°
*59'1"	2	





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