



SANY
AMERICA INC.

SCC8100

Crawler Crane



- 110 US Tons (100 Metric Tons) @ 12.5 ft Radius
- 223 ft (H) Main Boom Max Tip Height
- Main Boom & Fixed Jib Configurations

Product Guide



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.

SCC8100



- 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 | 110 US T @ 12.5 ft |
|---------------------------|--------------------|

| | |
|-----------|---|
| Main Boom | 3,6 & 9 Meter Sections 42 ft 8 in. – 219 ft 10 in. |
|-----------|---|

| | |
|------------------------------|--------|
| Max Tip Height (H Main Boom) | 223 ft |
|------------------------------|--------|

| | |
|------------------|---------------------------|
| Fixed Jib Length | 29 ft 6 in. – 59 ft 1 in. |
|------------------|---------------------------|

| | |
|------------------------------|-----------|
| Main Winch - Rated Line Pull | 20,944 lb |
|------------------------------|-----------|

| | |
|--------------------|-------|
| Wire Rope Diameter | 24 mm |
|--------------------|-------|

| | |
|---|-----------|
| Weight Basic Machine (Without Track Frames & With Boom Butt) | 99,206 lb |
|---|-----------|

| | |
|--------------------------------|-----------|
| Total Counterweight (Series 2) | 82,450 lb |
|--------------------------------|-----------|

| | |
|---|-------------|
| Length Basic Machine - Transport (With Track Frames & Boom Butt) | 43 ft 4 in. |
|---|-------------|

| | |
|---|-------------|
| Height Basic Machine - Transport (With Track Frames & Boom Butt) | 11 ft 5 in. |
|---|-------------|

| | |
|--|-------------|
| Width Basic Machine - Transport (With Track Frames & Boom Butt) | 11 ft 4 in. |
|--|-------------|

| | |
|------------|-------------|
| Tail Swing | 16 ft 5 in. |
|------------|-------------|

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.



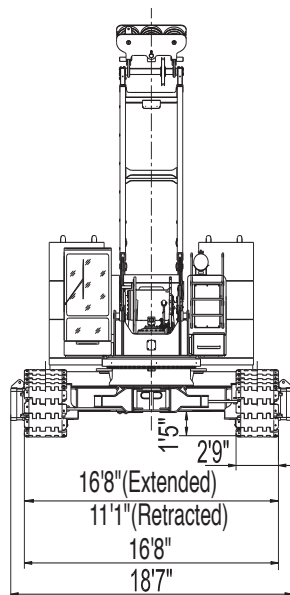
LOWERWORKS

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



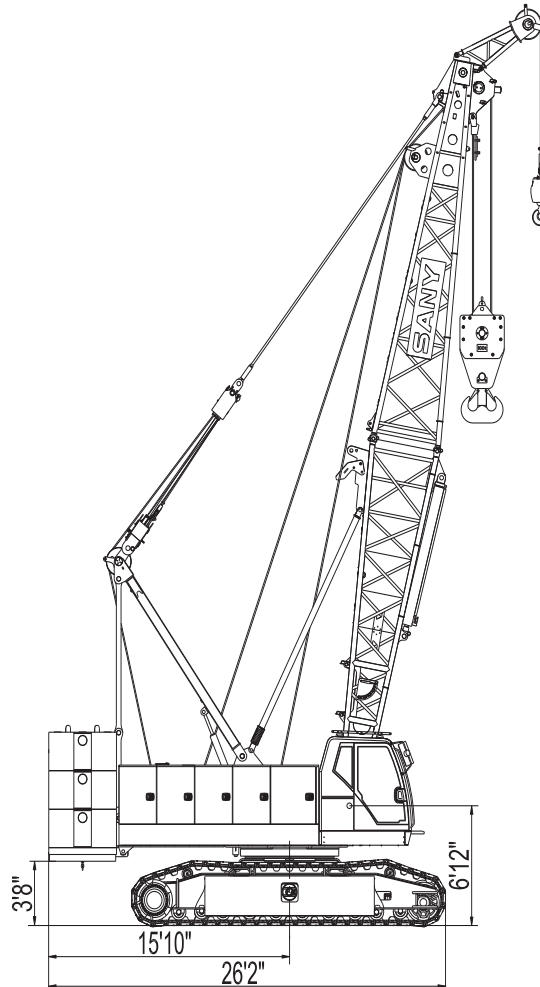
MAIN BOOM (HA)

Max Boom Length131' 2" (40 m)
 Max Boom Combination 2 – 9' 10" (3m) insert
 2 – 19' 8" (6m) insert
 1 – 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.

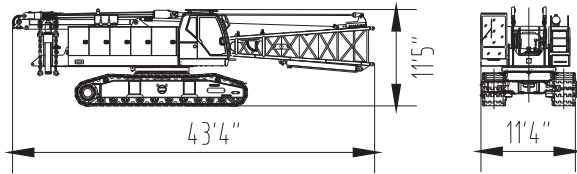
Functions: can display real-time rated load, actual load, working radius and boom angle, height and other data at current status of the crane and give real-time alarm if limits are exceeded.

Turn Indicating Device

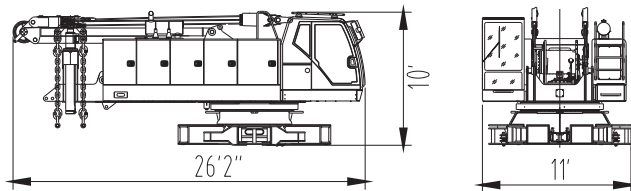
When traveling or swinging, turn indicating light blinks.

Wire Rope Guides

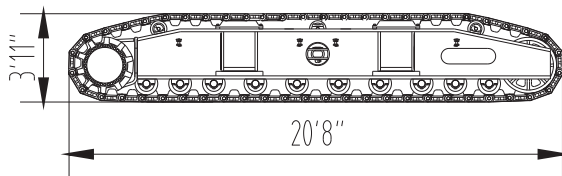
Lifting hooks are provided with guides to ensure the wire rope is maintained in the correct sheave location.


BASE MACHINE (With Track Frame)

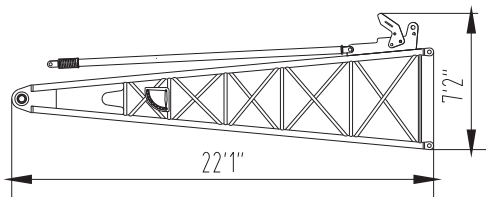
| | |
|--------|----------|
| Length | 43'4" |
| Width | 11'4" |
| Height | 11'5" |
| Weight | 99206 lb |


BASE MACHINE (Without Track Frame)

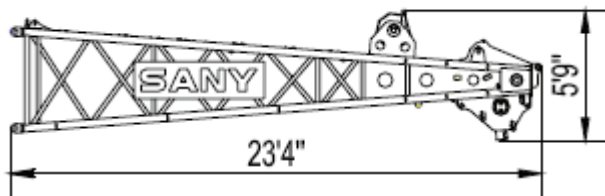
| | |
|--------|----------|
| Length | 26'2" |
| Width | 11' |
| Height | 10' |
| Weight | 55115 lb |


TRACK FRAME

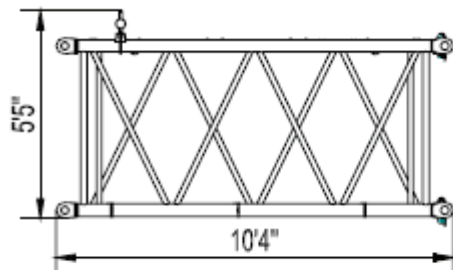
| | |
|--------|----------|
| Length | 20'8" |
| Width | 3'7" |
| Height | 3'11" |
| Weight | 20944 lb |


BOOM BASE

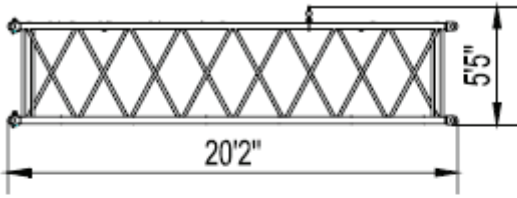
| | |
|---------------------|---------|
| Length | 22'1" |
| Width | 5'3" |
| Height | 7'2" |
| Weight Tubular Boom | 3726 lb |
| Weight Angle Boom | 3748 lb |


BOOM TIP

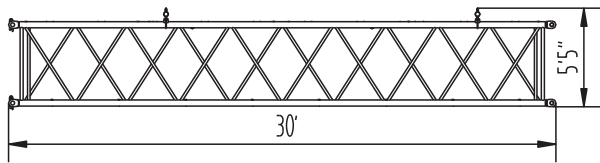
| | |
|---------------------|---------|
| Length | 23'4" |
| Width | 5'3" |
| Height | 5'9" |
| Weight Tubular Boom | 3241 lb |
| Weight Angle Boom | 3190 lb |


BOOM INSERT 9'10" (3m)

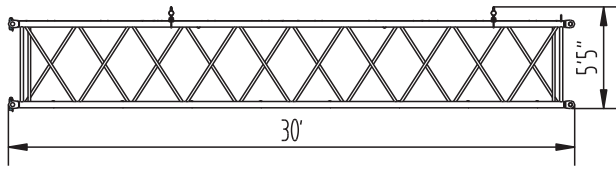
| | |
|---------------------|---------|
| Length | 10'4" |
| Width | 5'6" |
| Height | 5'5" |
| Weight Tubular Boom | 1014 lb |
| Weight Angle Boom | 1378 lb |


BOOM INSERT 19'8" (6m)

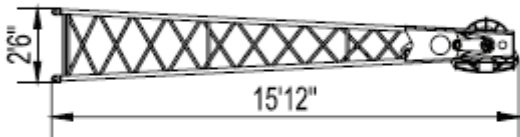
| | |
|---------------------|---------|
| Length | 20'2" |
| Width | 5'3" |
| Height | 5'5" |
| Weight Tubular Boom | 1631 lb |
| Weight Angle Boom | 2173 lb |


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

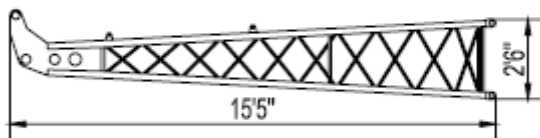
| | |
|---------------------|---------|
| Length | 30' |
| Width | 5'3" |
| Height | 5'5" |
| Weight Tubular Boom | 2072 lb |
| Weight Angle Boom | 3057 lb |


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

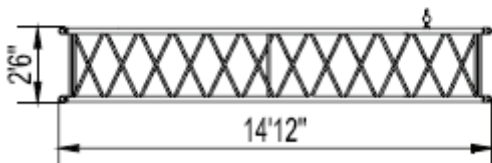
| | |
|------------------------------|---------|
| Length | 30' |
| Width | 5'3" |
| Height | 5'5" |
| Weight Tubular Boom | 2072 lb |
| *Not Available in Angle Boom | |


FIXED JIB TIP 14'9" (4.5m)

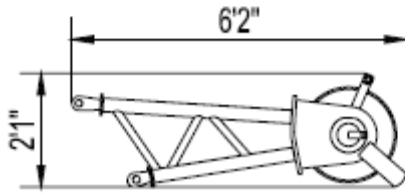
| | |
|--------|--------|
| Length | 16' |
| Width | 2'10" |
| Height | 2'6" |
| Weight | 728 lb |


FIXED JIB BASE 14'9" (4.5m)

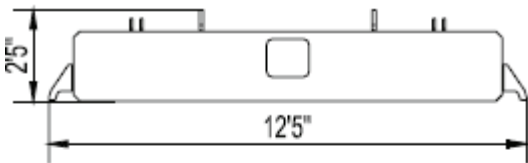
| | |
|--------|--------|
| Length | 15'6" |
| Width | 2'11" |
| Height | 2'6" |
| Weight | 661 lb |


FIXED JIB INSERT 14'9" (4.5m)

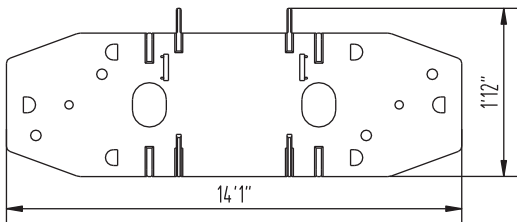
| | |
|--------|--------|
| Length | 15' |
| Width | 2'10" |
| Height | 2'6" |
| Weight | 507 lb |


UPPER BOOM POINT

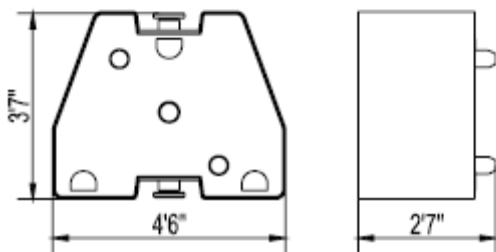
| | |
|---------------------|--------|
| Length | 6'2" |
| Width | 2'5" |
| Height | 2'1" |
| Weight Tubular Boom | 375 lb |
| Weight Angle Boom | 375 lb |


CRAWLER SIDE COUNTERWEIGHT

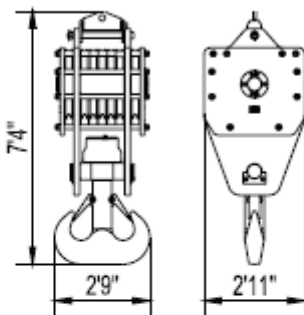
| | |
|--------|----------|
| Length | 12'5" |
| Width | 1'3" |
| Height | 2'5" |
| Weight | 11023 lb |


UPPERWORKS COUNTERWEIGHT TRAY

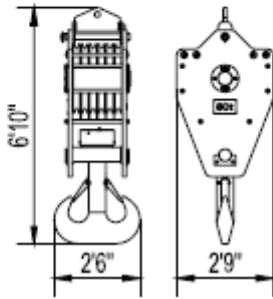
| | |
|--------|----------|
| Length | 14'1" |
| Width | 5'3" |
| Height | 2" |
| Weight | 22046 lb |


COUNTERWEIGHT BLOCK

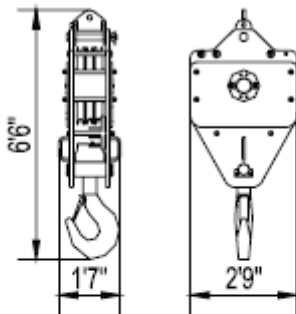
| | |
|--------|---------|
| Length | 4'6" |
| Width | 3'7" |
| Height | 2'7" |
| Weight | 6393 lb |


HOOK BLOCK 110 Ust (100 Mt)

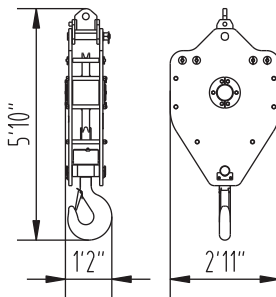
| | |
|--------|---------|
| Length | 7'4" |
| Width | 2'11" |
| Height | 2'9" |
| Weight | 5357 lb |


HOOK BLOCK 88 USt (80 Mt)

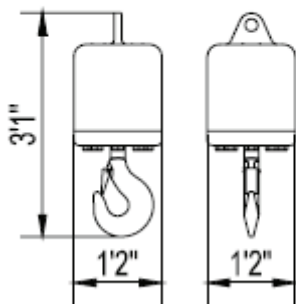
| | |
|--------|---------|
| Length | 6'10" |
| Width | 2'9" |
| Height | 2'6" |
| Weight | 3197 lb |


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 |

| 219'10" Main Boom + 59'1" Fixed Jib Transport Trailer Load Out Summary (Transport <i>Without</i> Track Frame) | | | | | | | |
|--|-------------|--------|--------|--------|--------|--------|--------|
| Name | Weight (lb) | 1 | 2 | 3 | 4 | 5 | 6 |
| Basic Machine (Without Track Frame or Boom Base) | 55,115 | 1 | | | | | |
| Track Frame | 20,944 | | | | | | 2 |
| Tubular Boom Base | 3,726 | | | | | | 1 |
| Angle Boom Base | 3748 | | | | | | 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) | | 55,115 | 36,490 | 24,779 | 24,603 | 28,706 | 45,614 |
| Weight Each Trailer (Angle Boom) (lb) | | 55,115 | 36,439 | 26,749 | 26,573 | 30,597 | 45,636 |

SCC8100 MAIN BOOM (H) LOAD CHART



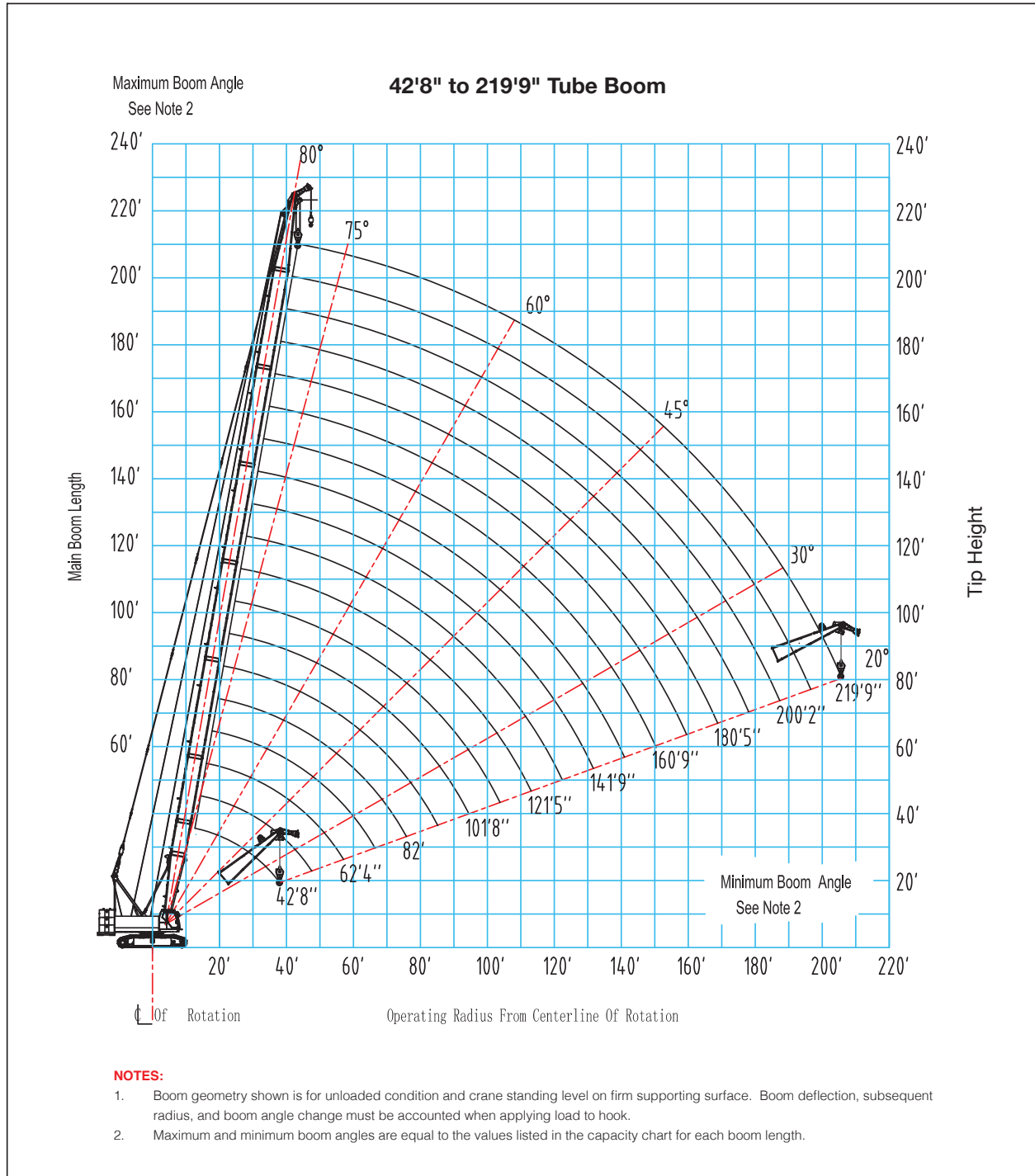
60,400 lb
+
22,000 lb



| BOOM LENGTH (ft) | | | | | | | | | | |
|------------------|----------------------|-------|-------|------|------|------|------|------|------|------|
| LOAD RAD (ft) | 43 | 62 | 82 | 102 | 121 | 141 | 161 | 180 | 200 | 220 |
| | CAPACITY (x 1000 lb) | | | | | | | | | |
| 12.5 | 220.5 | | | | | | | | | |
| 13 | 202.1 | | | | | | | | | |
| 14 | 186.8 | | | | | | | | | |
| 15 | 175.0 | | | | | | | | | |
| 16 | 168.1 | 168.1 | | | | | | | | |
| 17 | 160.3 | 158.8 | | | | | | | | |
| 18 | 151.9 | 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 | 73.0 | 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 | 32.8 | 32.5 | 31.8 | 31.0 | 30.3 | 29.8 | 29.0 | 27.6 |
| 60 | | 30.1 | 29.2 | 28.8 | 28.2 | 27.4 | 26.8 | 26.2 | 25.4 | 24.2 |
| 65 | | | 26.2 | 26.1 | 25.3 | 24.4 | 23.8 | 23.3 | 22.4 | 21.5 |
| 70 | | | 23.7 | 23.6 | 22.8 | 22.1 | 21.5 | 20.8 | 22.0 | 19.1 |
| 75 | | | 21.6 | 21.5 | 20.8 | 20.0 | 19.5 | 18.7 | 17.8 | 17.1 |
| 80 | | | 19.7 | 19.7 | 19.0 | 18.1 | 17.7 | 16.8 | 15.9 | 15.3 |
| 85 | | | 18.0 | 18.0 | 17.3 | 16.6 | 16.0 | 15.3 | 14.4 | 13.8 |
| 90 | | | 16.6 | 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 | 9.6 | 8.7 | 8.0 |
| 120 | | | | | | 9.2 | 8.5 | 7.9 | 7.0 | 6.3 |
| 130 | | | | | | | 7.9 | 7.2 | 6.6 | 5.0 |
| 140 | | | | | | | | 6.2 | 5.4 | 4.0 |
| 150 | | | | | | | | 5.2 | 4.5 | 3.0 |
| 160 | | | | | | | | | 3.5 | 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.

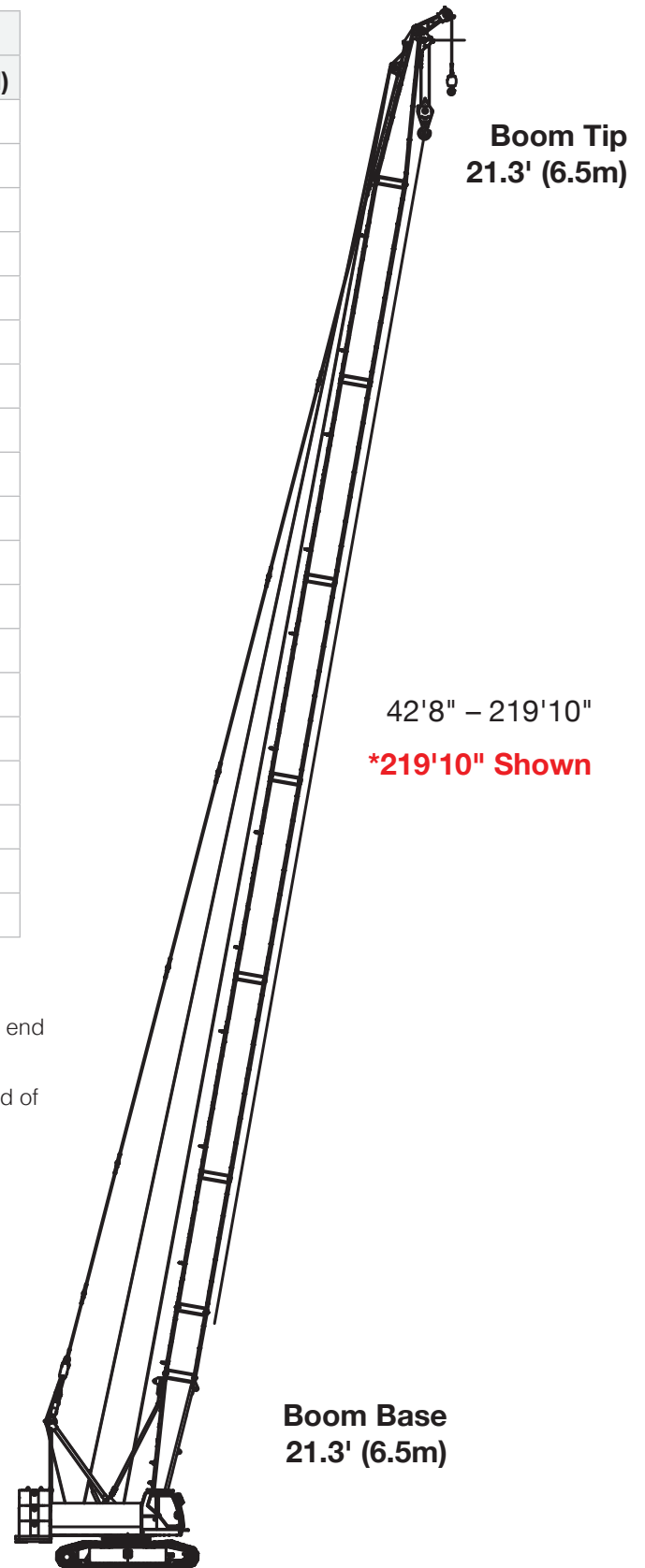
Main Boom (H) Working Range Diagram



| 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 | - |
| 111'7" | 1 | - | 2 | - |
| 121'5" | - | 1 | 2 | - |
| 131'3" | 1 | 1 | 2 | - |
| 141'1" | 1 | - | 3 | - |
| 150'11" | - | 1 | 3 | - |
| 160'9" | 1 | 1 | 3 | - |
| 170'7" | 1 | - | 4 | - |
| 180'5" | - | 1 | 4 | - |
| 190'3" | 1 | 1 | 4 | - |
| 200'2" | 1 | - | 5 | - |
| 210' | - | 1 | 4 | 1 |
| *219'10" | 1 | 1 | 4 | 1 |

NOTES:

1. 29.5' 1513A Center I is not equipped with connecting base at the end of the connector for the mid-point suspension cable.
2. 29.5' 1513A Center II is equipped with connecting base at the end of the connector for the mid-point suspension cable.



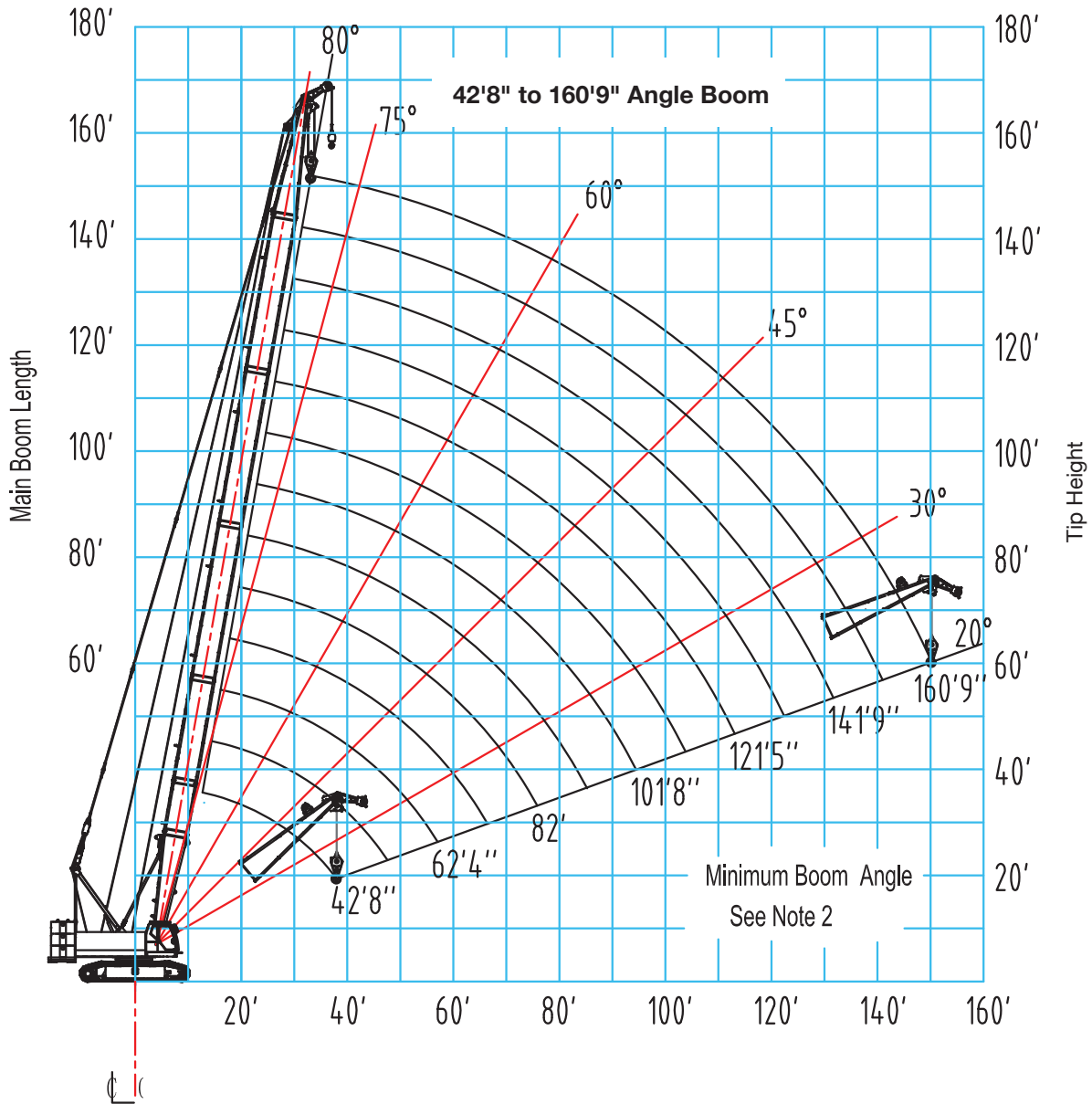
SCC8100 MAIN BOOM (HA) LOAD CHART

 60,400 lb
 +
 22,000 lb


| BOOM LENGTH (ft) | | | | | | | | | | | | | |
|---------------------|----------------------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| LOAD RAD (ft) | 43 | 53 | 62 | 72 | 82 | 92 | 101 | 112 | 121 | 131 | 141 | 151 | 161 |
| | CAPACITY (x 1000 lb) | | | | | | | | | | | | |
| 12.5 | 220.0 | | | | | | | | | | | | |
| 13 | 209.5 | | | | | | | | | | | | |
| 14 | 194.9 | | | | | | | | | | | | |
| 15 | 181.8 | 180.5 | | | | | | | | | | | |
| 16 | 172.0 | 171.5 | 170.2 | | | | | | | | | | |
| 17 | 162.1 | 161.2 | 159.8 | | | | | | | | | | |
| 18 | 151.7 | 151.7 | 149.4 | 147.9 | | | | | | | | | |
| 20 | 133.0 | 133.1 | 131.9 | 131.7 | 129.9 | | | | | | | | |
| 25 | 98.2 | 97.4 | 96.7 | 96.0 | 95.2 | 94.3 | 93.3 | 91.2 | | | | | |
| 30 | 75.9 | 74.9 | 74.5 | 73.9 | 73.2 | 72.6 | 71.9 | 71.3 | 71.1 | 70.1 | 67.6 | | |
| 35 | 61.4 | 61.0 | 60.6 | 60.6 | 59.9 | 59.0 | 58.3 | 57.8 | 57.3 | 57.0 | 56.6 | 55.9 | |
| 40 | 51.4 | 51.6 | 51.0 | 50.8 | 49.7 | 49.5 | 48.9 | 48.2 | 47.8 | 47.5 | 47.2 | 46.5 | 46.3 |
| 45 | | 44.2 | 43.1 | 43.3 | 42.4 | 42.3 | 41.8 | 41.0 | 40.9 | 40.4 | 40.0 | 39.6 | 39.1 |
| 50 | | 38.3 | 37.9 | 37.5 | 37.2 | 36.6 | 36.3 | 35.7 | 35.5 | 34.6 | 34.3 | 33.8 | 33.4 |
| 55 | | | 34.0 | 32.9 | 32.9 | 32.0 | 32.0 | 31.5 | 30.9 | 30.5 | 30.1 | 29.7 | 29.2 |
| 60 | | | 29.7 | 29.5 | 29.2 | 28.6 | 28.3 | 27.7 | 27.3 | 26.9 | 26.5 | 26.1 | 25.7 |
| 65 | | | | 26.6 | 26.1 | 25.7 | 25.2 | 24.8 | 24.4 | 24.0 | 23.5 | 23.1 | 22.7 |
| 70 | | | | 23.6 | 23.1 | 23.3 | 22.7 | 22.4 | 22.0 | 21.5 | 21.1 | 20.6 | 20.2 |
| 75 | | | | | 21.1 | 21.1 | 20.4 | 20.2 | 19.8 | 19.4 | 18.9 | 18.5 | 18.0 |
| 80 | | | | | 19.3 | 19.2 | 18.4 | 18.3 | 17.8 | 17.4 | 17.0 | 16.6 | 16.1 |
| 85 | | | | | | 17.4 | 17.1 | 16.6 | 16.2 | 15.8 | 15.3 | 14.9 | 14.4 |
| 90 | | | | | | 15.8 | 15.7 | 15.2 | 14.8 | 14.3 | 13.9 | 13.5 | 13.1 |
| 95 | | | | | | | 14.4 | 14.0 | 13.6 | 13.2 | 12.7 | 12.3 | 11.8 |
| 100 | | | | | | | | 12.9 | 12.5 | 12.0 | 11.6 | 11.2 | 10.7 |
| 110 | | | | | | | | | 10.5 | 10.0 | 9.6 | 9.1 | 8.7 |
| 120 | | | | | | | | | | 8.3 | 7.9 | 7.4 | 7.0 |
| 130 | | | | | | | | | | | 6.6 | 6.1 | 5.7 |
| 140 | | | | | | | | | | | | 5.1 | 4.7 |
| 150 | | | | | | | | | | | | | 3.6 |

*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.

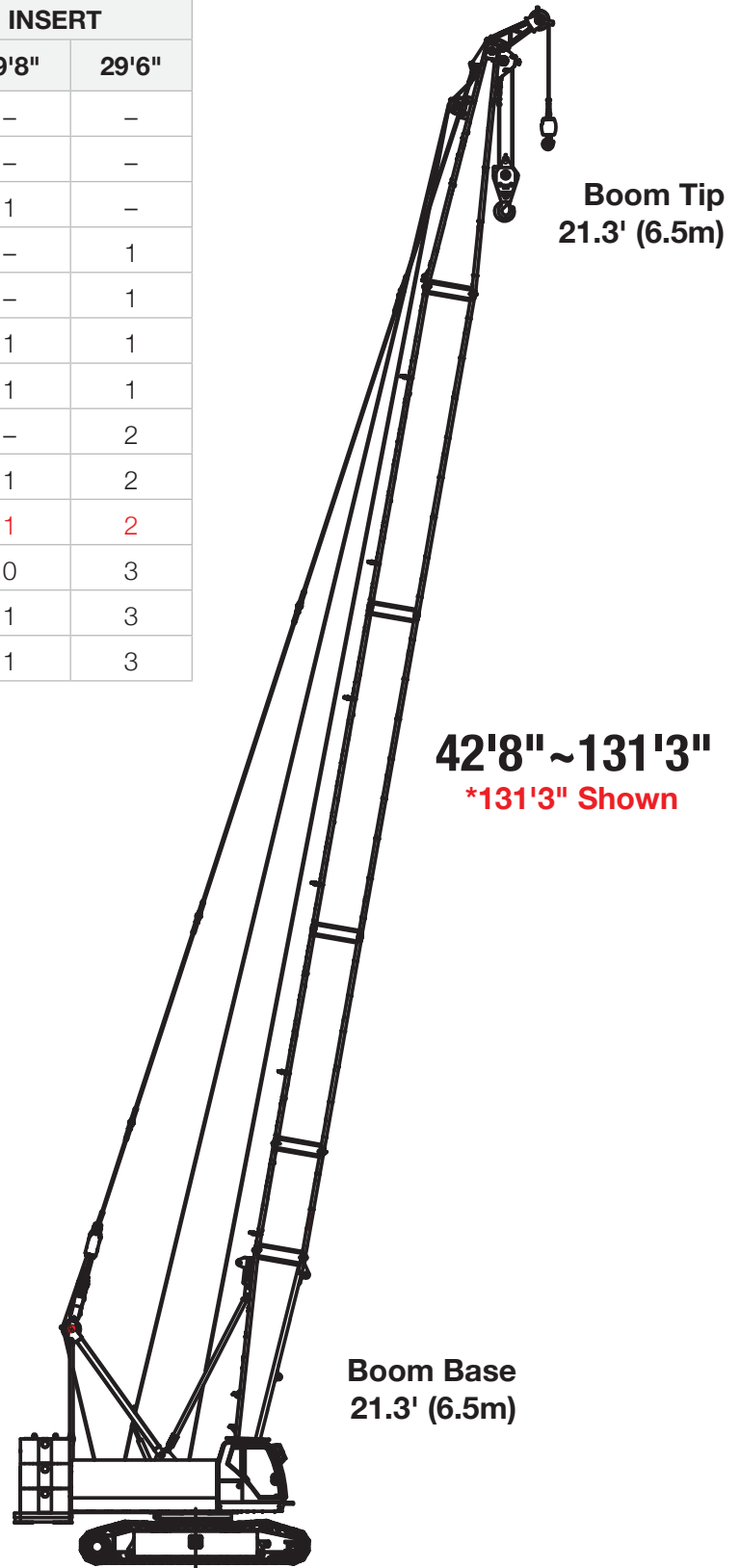
Main Boom (HA) Working Range Diagram



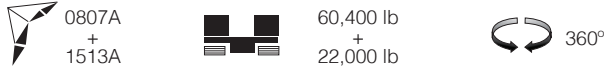
NOTES:

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" |
| 42'8" | - | - | - |
| 52'6" | 1 | - | - |
| 62'4" | - | 1 | - |
| 72'2" | - | - | 1 |
| 82' | 1 | - | 1 |
| 91'10" | - | 1 | 1 |
| 101'8" | 1 | 1 | 1 |
| 111'7" | 1 | - | 2 |
| 121'5" | - | 1 | 2 |
| *131'3" | 1 | 1 | 2 |
| 141'1" | 1 | 0 | 3 |
| 150'10" | 0 | 1 | 3 |
| 160'8" | 1 | 1 | 3 |



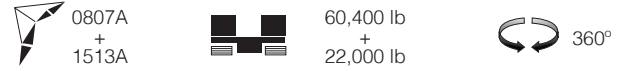
SCC8100 30 FT FIXED JIB LOAD CHART



| 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 |

SCC8100 44 FT FIXED JIB LOAD CHART



| 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.

SCC8100 59 FT FIXED JIB LOAD CHART



60,400 lb
+
22,000 lb



BOOM ANGLE 15°

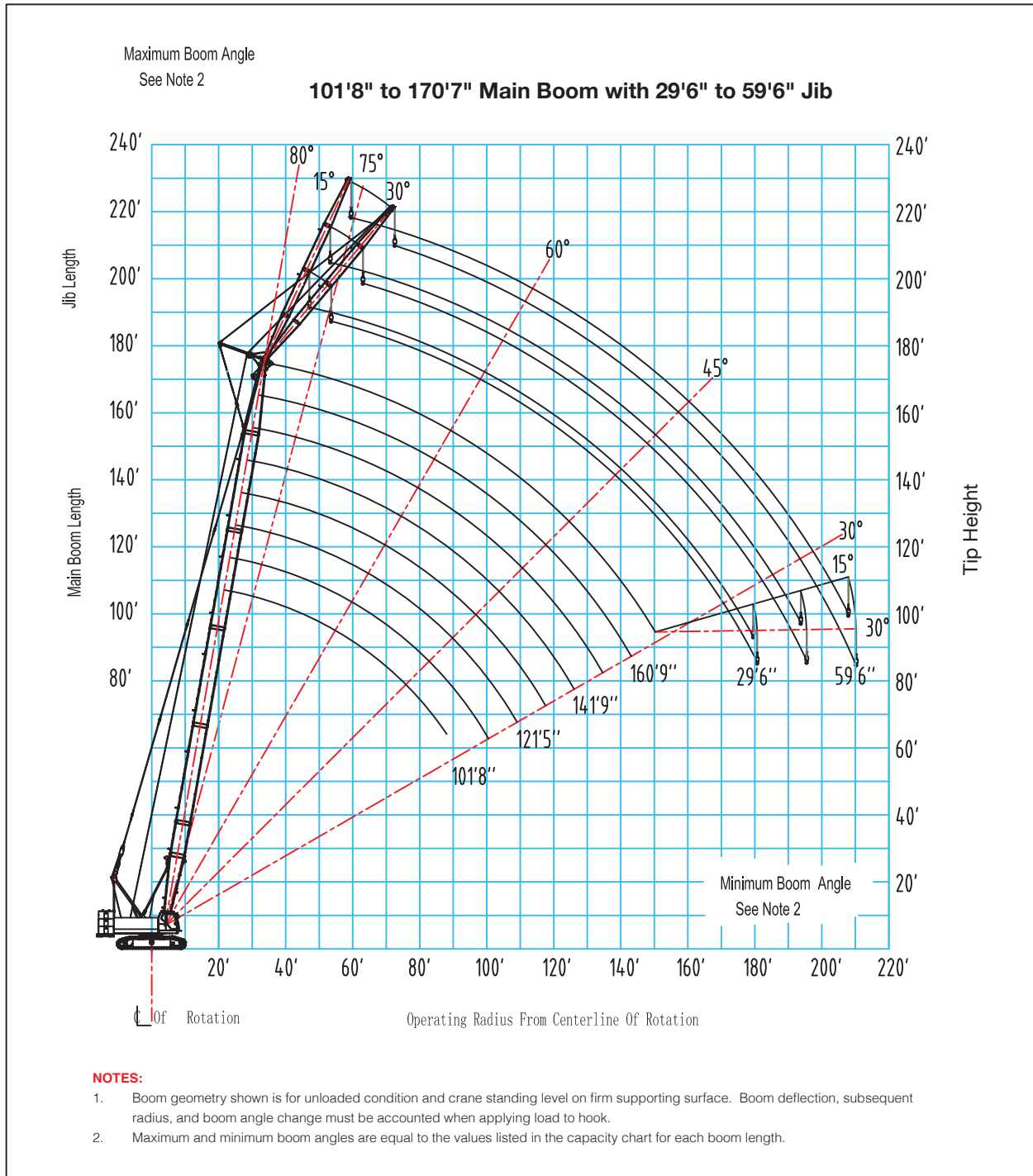
| BOOM LENGTH (ft) | | | | | | | |
|---------------------|----------------------|------|------|------|------|------|------|
| LOAD RAD (ft) | 102 | 112 | 121 | 131 | 141 | 151 | 161 |
| | CAPACITY (x 1000 lb) | | | | | | |
| 50 | 13.2 | 13.2 | | | | | |
| 60 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 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°

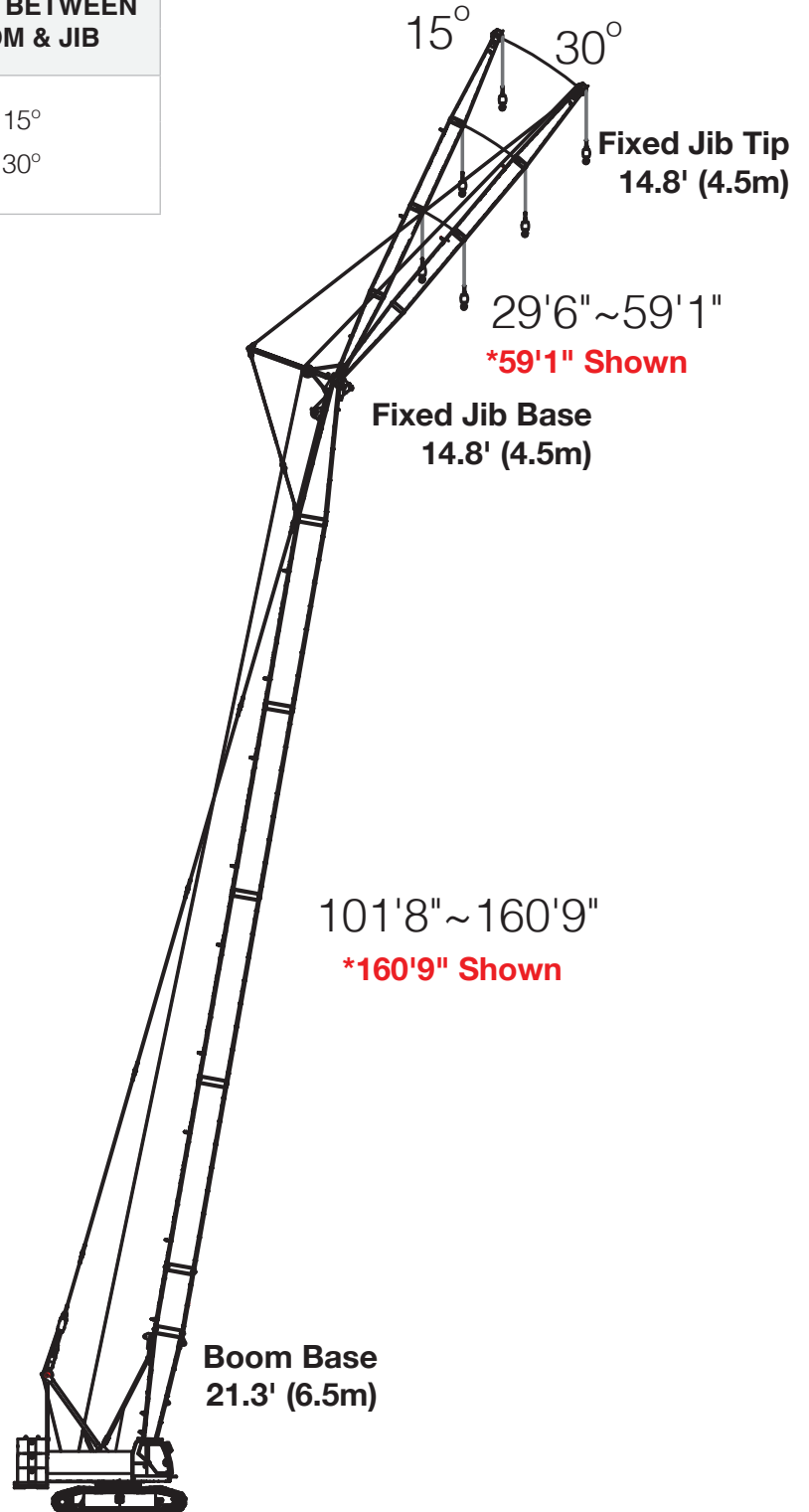
| BOOM LENGTH (ft) | | | | | | | |
|---------------------|----------------------|------|------|------|------|------|------|
| LOAD RAD (ft) | 102 | 112 | 121 | 131 | 141 | 151 | 161 |
| | CAPACITY (x 1000 lb) | | | | | | |
| 60 | 13.2 | | | | | | |
| 70 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | |
| 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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