SCA1100TB

TELESCOPIC BOOM CRAWLER CRANE

110 USt

174.3 ft + 57.4 ft

174.3 ft + 9.8 ft



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SCA1100TB | TELESCOPIC BOOM CRAWLER CRANE

01 | Selling Points

Typical Configurations

- 61t: Auxiliary lifting for wind turbines H20@ 6m.
- 25.7t: Urban utilidor construction H30m@ 12m.
- 29.7t: Support for rotary drilling H38m@10m.

- High mobility and strong drive capability with a climbing grade of 45%.
- Engine regeneration on-the-fly, improving efficiency by 10%.
- Track gauge, counterweight, and grade combinations offer 96 different configuration setups.
- Dual reducers and three rotary modes ensure stable and safe slewing.
- Adaptive load chart switching minimizes human error.

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02 | Outline Dimension

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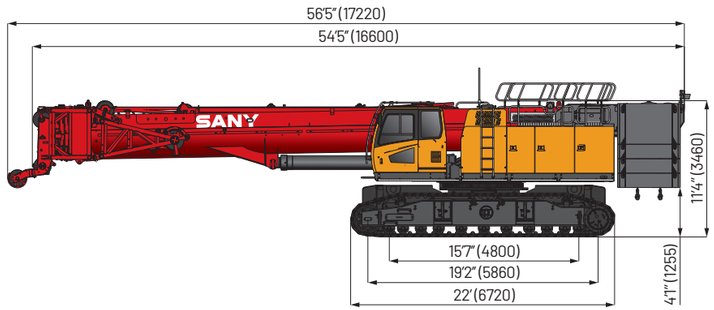
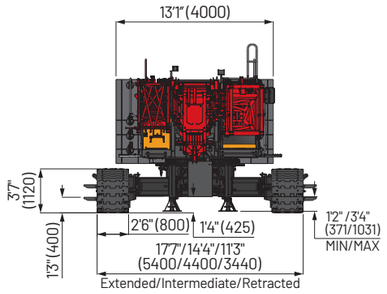
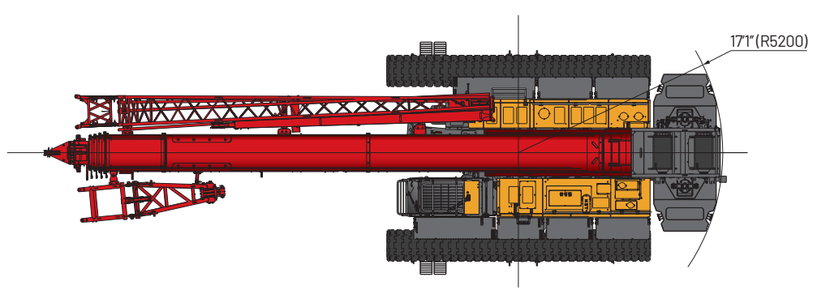
Unit: ft, in (mm)



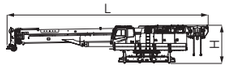
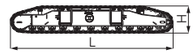
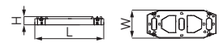
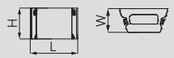
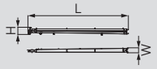
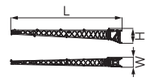




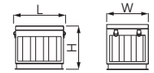
03 | Specifications

Specification	Unit	Parameter
Outline Dimensions		
Overall machine length	ft (m)	56.5 (185.32)
Overall machine width (retracted)	ft (m)	11.3 (37.064)
Overall machine height	ft (m)	11.4 (37.392)
Track shoe width	in (mm)	31.5 (800.1)
Boom Configuration		
Max. rated load capacity	Ust (t)	110 (242.44)
Max. rated lifting moment	klb-ft (t-m)	2870 (437.388)
Boom length	ft (m)	45.0~174.3 (13.8~53.2)
Boom angle	°	0~80
Fixed Jib Configuration		
Longest boom + longest jib	ft (m)	231.6 (759.648)
Boom to jib angle	°	0, 15, 30
Heavy-Duty Jib Configuration		
Longest boom + heavy-duty jib	ft (m)	174.3 + 9.8 (53.2 + 3)
Boom to jib angle	°	30, 45
Operation Speed		
Rope speed of main/aux. load hoist	ft/min (m/min)	378 (116)
Boom full up/down duration	s	65 / 110
Boom full extension/retraction duration	s	85 / 80
Max slewing speed	rpm	1.8
No-load traveling speed	mph (kph)	1.24 (2)
Gradeability	%	45
Engine		
Model	-	Cummins L9-C325,
Rated Power	hp/rpm (kW/rpm)	325 / 1800 (242 / 1800)
Rated Torque	ft-lbs (N-m)	1126 / 1400 (1526 / 1400)
Transport Parameters		
Overall machine weight	klb (t)	219 (100)
Transport weight (with side frames, heavy duty jib, fly jib, and 88UST hook)	klb (t)	135.8 (61.6)
Transport dimensions (L x W x H)	ft (m)	55.5×11.3×12.3 (16.9×3.44×3.73)
Transport weight (with fly jib, and 88UST hook)	klb (t)	92.9 (42.1)
Transport dimensions (L x W x H)	ft (m)	55.5×10.6×11.3 (16.9×3.22×3.43)
Other Parameters		
Average ground pressure	psi (bar)	14.2 (0.98)
Min. slewing radius	ft (m)	17.1 (5.2)
Cab tilt angle	°	20

04 | Transport Dimension

No.	Parts	Shape	Length ft (m)	Width ft(m)	Height ft(m)	Weight Klb(t)	Qty.
1	Basic Machine (Includes boom, outriggers, auxiliary tip extension, and fly jib assembly)		54.9 (16.74)	10.6 (3.22)	10.4 (3.18)	90.4 (41)	1
2	Basic Machine + Side Frames + Heavy Duty Jib		54.9 (16.74)	11.3 (3.44)	11.4 (3.49)	133.4 (60.5)	1
3	Side Frame		22.1 (6.72)	3.7 (1.1)	3.7 (1.12)	20.2 (9.15)	2
4	Rear Counterweight Tray		13.2 (4)	5.3 (1.6)	4.2 (1.27)	17.7 (8)	1
5	7T Counterweight		13.2 (4)	5.3 (1.6)	1.6 (0.48)	15.5 (7)	2
6	4T Counterweight		5.3 (1.6)	2.7 (0.82)	3.4 (1.04)	8.9 (4)	2
7	Carbody Counterweight		6.7 (2.02)	2.1 (0.62)	3.0 (0.9)	8.9 (4)	2
8	Fly Jib Tip		23.8 (7.23)	1.3 (0.38)	1.7 (0.51)	0.7 (0.3)	1
9	Fly Jib Base		35.1 (10.68)	3.2 (0.95)	4.8 (1.45)	2.0 (0.9)	1
10	Heavy Duty Jib		12.3 (3.74)	3.9 (1.19)	5.1 (1.53)	2.3 (1)	1
11	Auxiliary Tip Extension		2.4 (0.72)	2.0 (0.58)	1.6 (0.46)	0.2 (0.06)	1
12	110UST (100T) Hook Block (Optional)		6.8 (2.06)	2.8 (0.85)	2.1 (0.64)	2.8 (1.24)	1
13	88UST (80T) Hook Block		6.3 (1.91)	2.3 (0.69)	2.2 (0.67)	2.5 (1.1)	1
14	33UST (30T) Hook Block		5.3 (1.61)	2.3 (0.69)	1.3 (0.38)	1 (0.43)	1
15	14UST (12.5T) Hook Ball		3.4 (1.03)	1.4 (0.43)	1.4 (0.43)	1 (0.45)	1

04 | Transport Dimension

No.	Description	Shape	Length ft(m)	Width ft(m)	Height ft(m)	Weight Klb(t)	Qty.
16	Accessories Box		3.3 (1)	2.7 (0.8)	2.8 (0.83)	1.4 (0.61)	1

Note:
1. Transport dimensions and weights do not include packaging.
2. Weight shown are calculated values. Actual weight may differ slightly.
3. Dimensions and weights are subject to change due to upgrades and revisions to components.

05 | Transport Plan

1 Tracks Installed

Item	Weight		Total Qty	Trailer Type		
	Klb	t		RGN	Flatbed	Flatbed
				1	2	3
Basic Machine (Includes boom, outriggers, auxiliary tip extension, and fly jib assembly)	90.4	41.0	1	1		
Remove Aux Tip Extension	-0.1	-0.06				
Remove Jib	-2.5	-1.1				
Add APU	0.7	0.3				
Left Side Frame	20.3	9.2	1	1		
Right Side Frame	20.3	9.2	1	1		
Carbody Counterweight	8.8	4.0	2		2	
Rear Counterweight Tray	17.6	8.0	1			1
7T Counterweight	15.4	7.0	2		1	1
4T Counterweight	8.8	4.0	2		1	1
Fly Jib Assembly	2.5	1.1	1			
Heavy Duty Jib	2.4	1.1	1	1		
Auxiliary Tip Extension	0.1	0.06	1			
110UST (100T) Hook Block (Optional)	2.7	1.24	1			
88UST (80T) Hook Block	2.4	1.10	1	1		
33UST (30T) Hook Block	0.9	0.4	1			1
14UST (12.5T) Hook Ball	1.0	0.4	1		1	
Accessories Box	1.3	0.6	1			1
Total Net Weight on Trailer (t)				61.6	19.4	20.0
Total Net Weight on Trailer (Klb)				135.8	42.9	44.2

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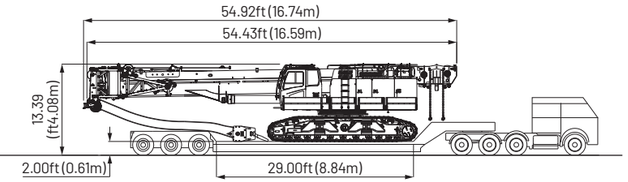
05 | Transport Plan

1 Tracks Installed

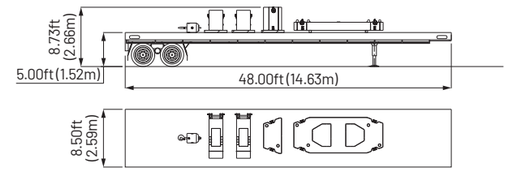
■ Load 1

Quantity	▪ 1
Part (s)	▪ Basic Machine ▪ Fly Jib Assembly ▪ Heavy Duty Jib ▪ Side Frames ▪ 88UST Hook Block
Weight/Klb(t)	▪ 135.8 (61.6)



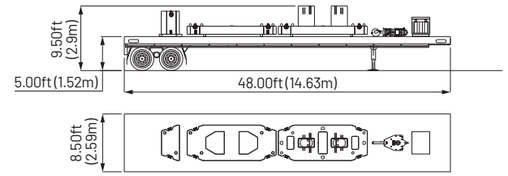
■ Load 2

Quantity	▪ 1
Part (s)	▪ 2×Carbody Counterweights ▪ 7T Counterweight ▪ 4T Counterweeight ▪ 14UST Hook Ball
Weight/Klb(t)	▪ 42.9 (19.4)



■ Load 3

Quantity	▪ 1
Part (s)	▪ Rear Counterweight Tray ▪ 7T Counterweight ▪ 4T Counterweight ▪ 33UST Hook Block ▪ Accessories Box
Weight/Klb(t)	▪ 44.2 (20)



05 | Transport Plan

2 Tracks Removed

Item	Weight		Total Qty	Trailer Type			
	Klb	t		RGN	Flatbed	Flatbed	Flatbed
				1	2	3	4
Basic Machine (Includes boom, outriggers, auxiliary tip extension, and fly jib assembly)	90.4	41.0	1	1			
Remove Aux Tip Extension	-0.1	-0.06					
Remove Jib	-2.5	-1.1					
Add APU	0.7	0.3					
Left Side Frame	20.3	9.2	1		1		
Right Side Frame	20.3	9.2	1		1		
Carbody Counterweight	8.8	4.0	2			2	
Rear Counterweight Tray	17.6	8.0	1				1
7T Counterweight	15.4	7.0	2			1	1
4T Counterweight	8.8	4.0	2			1	1
Fly Jib Assembly	2.5	1.1	1				
Heavy Duty Jib	2.4	1.1	1		1		
Auxiliary Tip Extension	0.1	0.06	1				
110UST (100T) Hook Block (Optional)	2.7	1.24	1				
88UST (80T) Hook Block	2.4	1.10	1	1			
33UST (30T) Hook Block	0.9	0.4	1		1		
14UST (12.5T) Hook Ball	1.0	0.4	1			1	
Accessories Box	1.3	0.6	1				1
Total Net Weight on Trailer (t)				42.1	19.9	19.4	19.6
Total Net Weight on Trailer (Klb)				92.9	43.9	42.9	43.2

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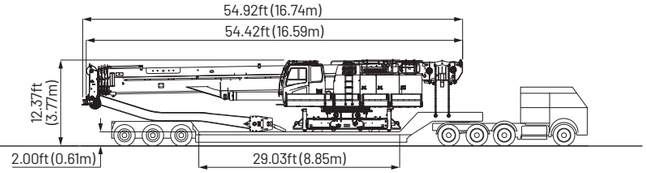
05 | Transport Plan

2 Tracks Removed

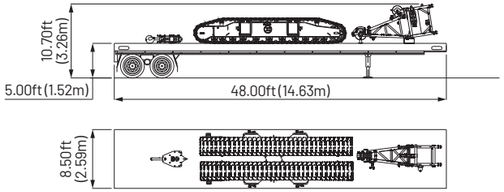
■ Load 1

Quantity	▪ 1
Part (s)	▪ Basic Machine ▪ Fly Jib Assembly ▪ Heavy Duty Jib ▪ 88T Hook Block
Weight/Klb(t)	▪ 92.9 (42.1)



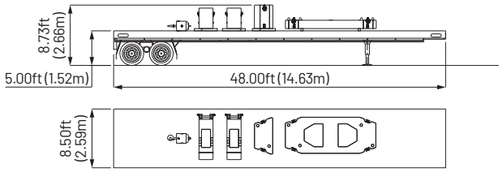
■ Load 2

Quantity	▪ 1
Part (s)	▪ 2×Side Frames ▪ Heavy Duty Jib ▪ 33UST Hook Block
Weight/Klb(t)	▪ 43.9 (19.9)



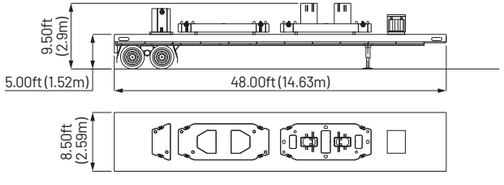
■ Load 3

Quantity	▪ 1
Part (s)	▪ 2×Carbody Counterweights ▪ 7T Counterweight ▪ 4T Counterweight ▪ 14UST Hook Ball
Weight/Klb(t)	▪ 42.9 (19.4)



■ Load 4

Quantity	▪ 1
Part (s)	▪ Rear Counterweight Tray ▪ 7T Counterweight ▪ 4T Counterweight ▪ Accessories Box
Weight/Klb(t)	▪ 43.2 (19.6)



06 | Main Characteristics

1 Product Specification

Cab and Controls

- Self-locking sliding door.
- Fully enclosed steel frame with panoramic view. Swing out front glass.
- Heating and cooling with selectable vent modes.
- Fully adjustable air suspension seat with weight adjustment system and seat interlock safety switch.
- Integrated 12.8" touch screen.
- Integrated camera monitor to monitor the crane area, winches, and load, in real time.
- Programmable smart switches.
- Dual axis control levers on right and left armrest boxes. Armrest position can be adjusted relative to the seat position.

Engine

- Cummins L9-C325, Stage V.
- Displacement: 8.9L.
- Rated Power: 325HP/1800rpm (242kW/1800rpm).
- Max. output torque: 1126ft-lb/1400rpm (1526N-m/1400rpm).
- 24V, 6.7HP starter.
- 105.7Gal (400L) fuel tank.
- Two 12V x 180Ah batteries, connected in series. (24V system).

Hydraulic System

- Dual open loop variable displacement piston main pump system. Dedicated gear pumps for slewing and oil cooling.
- Pilot operated hydraulic control system for reliable, precision control.
- Max system pressure: 4,641psi (32MPa).
- Boom hoist cylinder: 4,641psi (32MPa).
- Slewing system: 3,480psi (24MPa).
- Pilot control system: 650psi (4.5MPa).
- Hydraulic Tank Capacity: 277.4 Gal (1050L).

Load Hoist Winches

- Independent main and auxiliary hoist winches with maintenance free, spring applied, hydraulically released brakes.
- Variable displacement bent axis piston winch motors.
- High strength rotation resistant wire rope.
- Grooved drum for multi-layer spooling.
- Quick reeve rope and socket.

Main Hoist	Rope speed (outermost layer)	378 ft/min (115 m/min)
	Wire rope diameter	22mm
	Wire rope length	804 ft (245m)
	Rated single part line pull	20.9klb (9.5t)
Aux. Hoist	Rope speed (outermost layer)	378 ft/min (115 m/min)
	Wire rope diameter	22mm
	Wire rope length	525 ft (160m)
	Rated single part line pull	20.9klb (9.5t)

Boom Hoist

- Dual action single hydraulic boom hoist cylinder
- Integrated counterbalance system for safe and precision lowering and load holding.
- Boom angle from -1° to 80°.

Slewing

- Open loop slewing drive system with dedicated pump for powerful, metered swing performance.
- Free slewing and auto-brake swing modes.
- Integrated spring applied, hydraulically released, maintenance free wet brakes.
- Maximum slewing speed of 1.8rpm.
- Hydraulic house lock pin with 4 position lock.

Counterweight

- Self-aligning counterweight blocks for easy counterweight stacking.
- Hydraulic lift cylinders to provide quick and safe counterweight assembly and disassembly.
- Total 66.1klb (30t) of upper rear counterweight.
- Total of 17.6klb (8t) of carbody counterweight.

SCA1100TB | TELESCOPIC BOOM CRAWLER CRANE

06 | Main Characteristics

1 Product Specification

Crawler and Travel System

- Independent travel drives with integrated maintenance free, spring applied, hydraulically released wet brakes.
- High and low travel speeds.
- Maximum travel speed of 1.2mph (2.0km/h).
- Gradeability: 45%.
- Three working crawler positions adjusted using high pressure crawler extension cylinders.
- Manual track tensioning.
- High strength, casted, steel alloy 31.5in (800mm) track pads mounted on maintenance free track rollers.

Auxiliary Power Unit

- Optional APU package to provide cab heating and cooling during long idle periods.

Boom and Attachments

- High strength, 5 section, full power, formed boom.
- 44.9ft to 174.2ft (13.7m to 53.1m) boom length range.
- 13.7UST (12.4T) bi-folded standard jib with 33.5ft (10.2m) and 57.4ft (17.5m) jib length options. Three manual offset angles: 0°, 15°, and 30°.
- 39.2UST (35.6t) heavy-duty, 9.8ft (3m) extension jib. Two manual offset angles: 30° and 45°.

Hook Blocks

- Equipped with standard spring-loaded hook latches.
- Steel sheaves.
- High strength forged, quenched, and tempered hooks.

Tonnage Rating	Rated Capacity – klb (t)	Sheaves	Unit Weight – klb (t)	Remarks
110UST (100T)	220 (100)	5	2.7 (1.2)	Optional
88UST (80T)	176 (80)	5	2.4 (1.1)	Standard
33UST (30T)	66 (30)	1	.87 (.43)	Standard
14UST (12.5T)	28 (12.5)	0	.99 (.45)	Standard

2 Safety Equipment

Load Moment Limiter

- Proprietary SANY load moment limiter system is optimized for SANY crane systems.
- Continuously monitor load on hook, radius, boom and jib angles, ground bearing pressure, crane level, and wind speed.
- Easy, intuitive set up.
- Automatic function kickout when operating outside of rated conditions.
- Automatic audible and visual alarms.
- All available rated load charts are integrated into the system.
- Full color high-definition touch screen display.
- Electronic level indicator.
- Live ground bearing pressure calculations.
- Integrated black box event recorder.

Over-Hoist Protection

- Anti-two block switches to prevent over-hoisting the block.
- Automatic hoist function cutoff and alarm when imminent over hoist is detected.

3rd Wrap Protection

- Standard 3rd wrap detection switch on all winches to maintain safe amounts of rope on the drums.
- Automatic winch function cutoff and alarm at 3rd wrap detection.

Assembly/Work Mode Switch

- Toggle between Assembly and Work Modes with a turn of a switch.
- Assembly mode switch allows quick and easy self-assembly by allowing limited operation until all safety devices have been connected.
- Dedicated assembly load charts.
- Work mode enables all safety limits to ensure safe operation.

06 | Main Characteristics

2 Safety Equipment

Emergency Stop

- Emergency stop buttons, located in the operator's cab and the engine compartment, instantly terminates engine function and ensures all crane functions are disabled.

Hydraulic Function Lock

- Hydraulic function lock lever comprehensively and safely disables all hydraulic functions.
- Seat interlock safety switch requires operator weight to enable hydraulic functions.

Slewing Lock

- Four position slewing lock to prevent accidental slewing during work conditions or to secure upper platform during transport.
- Hydraulically actuated slewing lock pin.
- Slew function automatically disabled when slewing lock is engaged.

Hook Latch

- Lifting hooks are installed with spring-loaded latches to ensure secure rigging.

Light and Camera Package

- Standard LED work lights to illuminate winches and work area.
- Standard high-definition, remote zoom camera on boom tip.
- Standard full color, high definition cameras with 130° viewing angle and IR night vision.
- Standard remote controlled work lamp mounted on boom base.
- Camera locations allow operator to visually monitor rear and right side of crane and winches.
- Forward facing, cab mounted work lamp.
- Optional camera package includes 360° work area monitoring and work area intrusion detection.

Tri-Color Load Indicator

- Cab mounted tri-color load indicator reflects the crane's current load ratio.
- Green indicates load ratio is less than 90%.
- Yellow indicates load ratio is between 90% and 100%.
- Red indicates an overload condition.

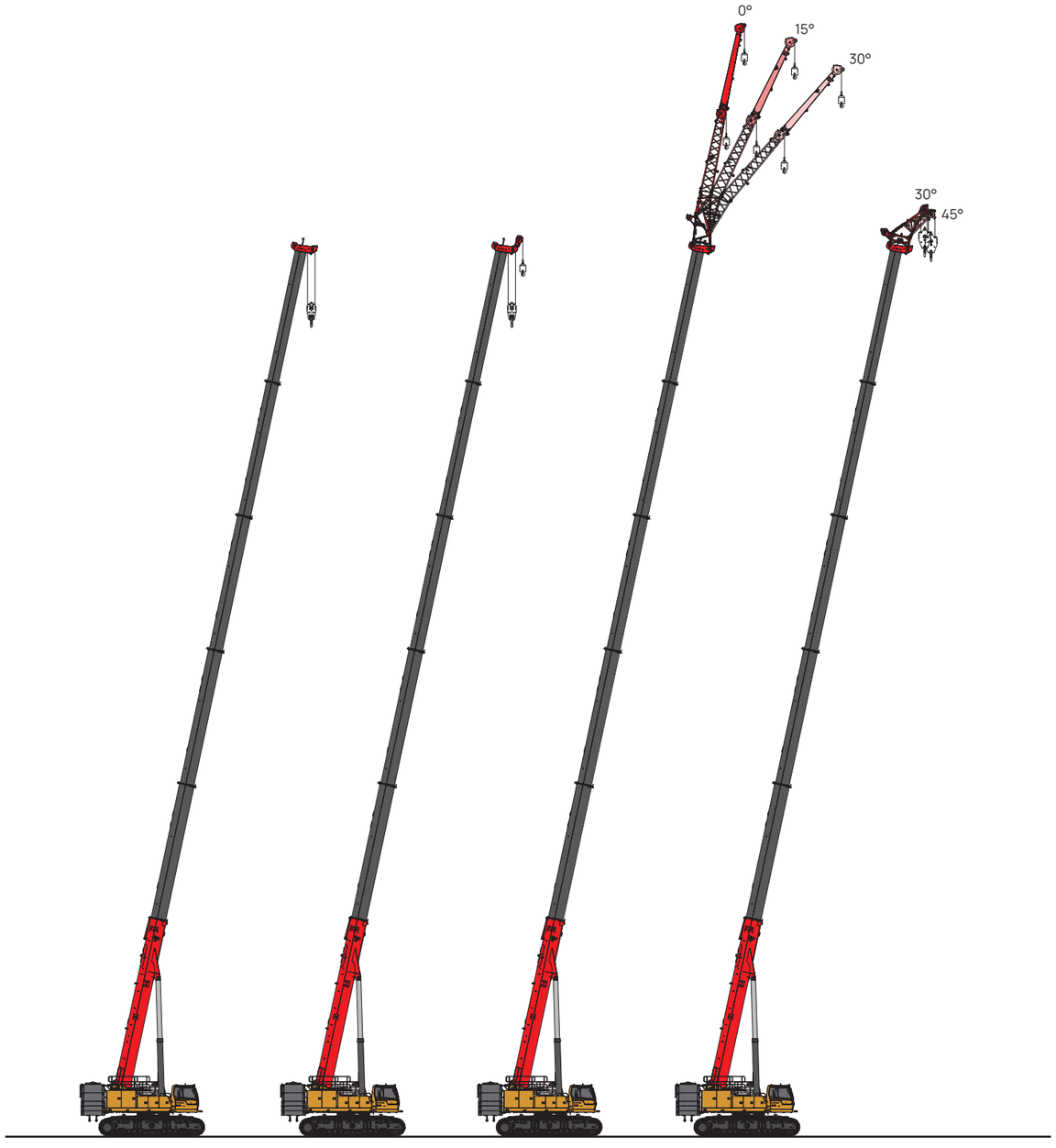
Travel and Slewing Indicator and Alarms

- Alarm and light activates when slewing or travelling.

Fault Diagnosis System

- Integrated black box records crane operations, overload events, and errors.
- Fault codes and fault descriptions automatically identify system errors.
- Comprehensive live I/O feedback for convenient diagnosis.

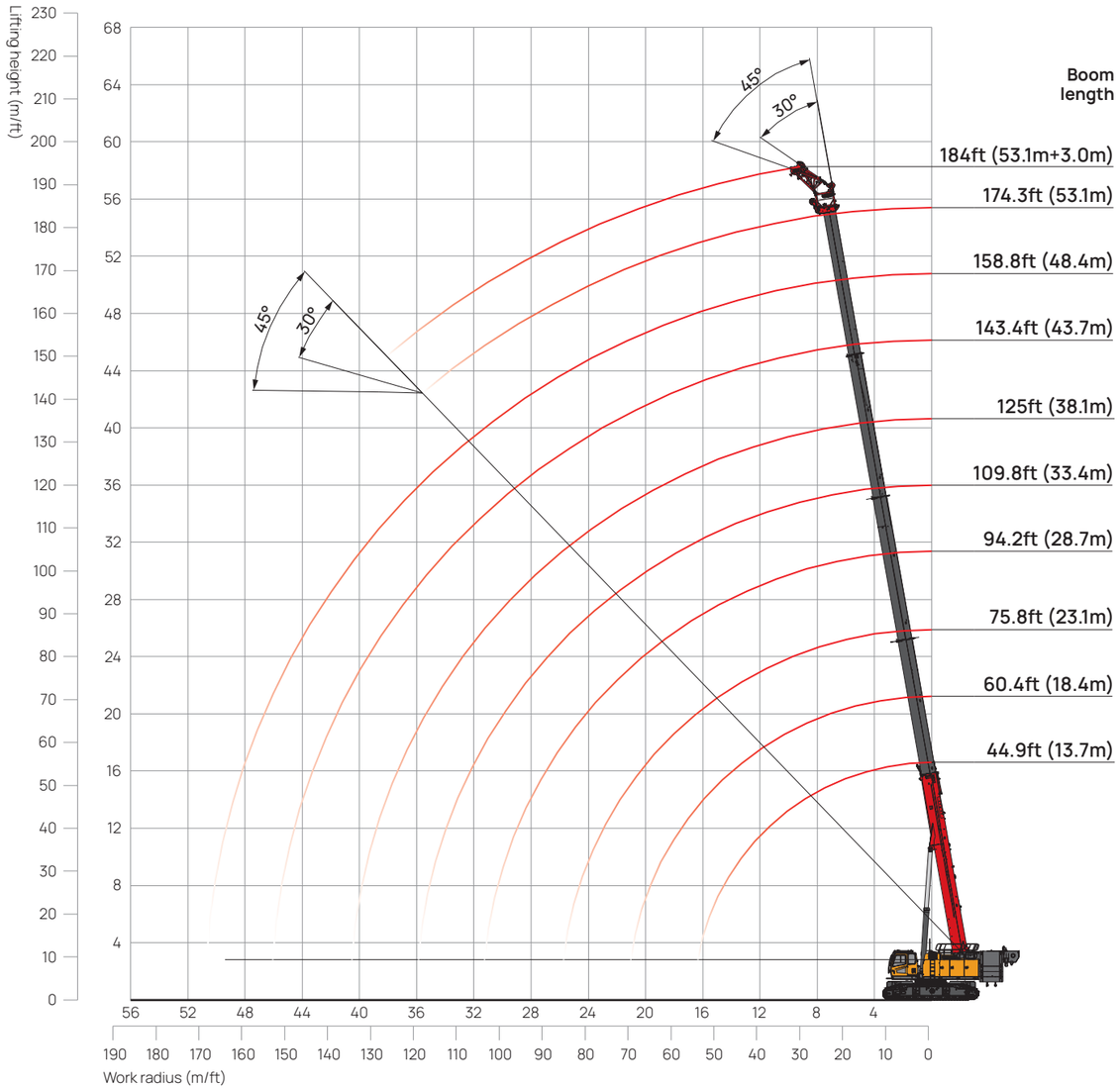
07 | Combination



H Configuration	HC Configuration	FJ Configuration	FJh Configuration
45ft~174.3ft (13.7m~53.1m)	45ft~174.3ft (13.7m~53.1m)	174.3ft+57.4ft (53.1m+17.5m)	174.3ft+9.38ft (53.1m+3m)

Note: Images above are for reference only.

07 Working Range
H configuration



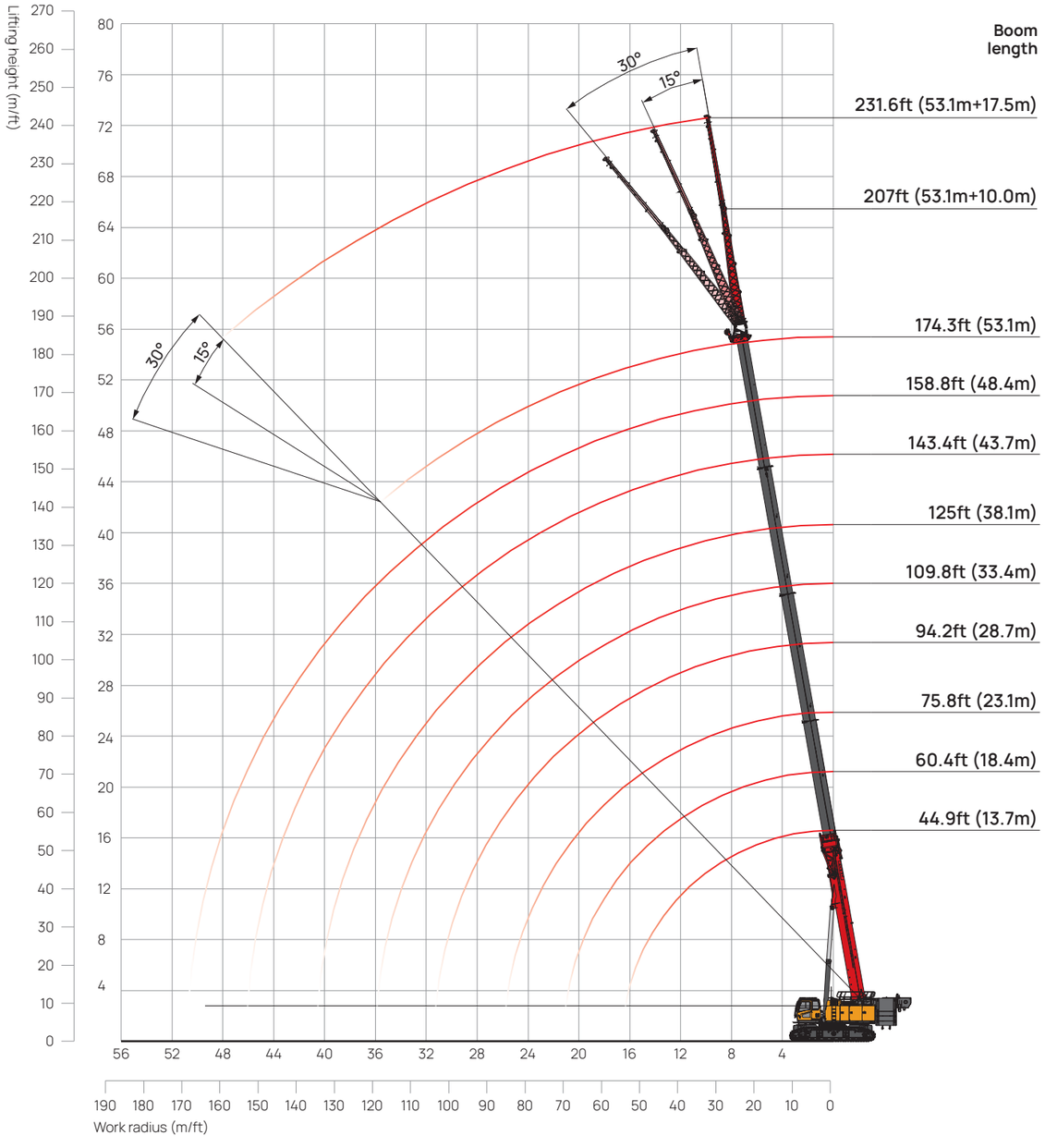
07 Load Chart
H configuration

Unit: klb

ft	Ground level: 0°, Rear Counterweight 66.1klbs, Carbody Counterweight 17.2klbs, Track Gauge 15ft									ft
	45	60.4	75.8	94.2	109.6	125	143.4	158.8	174.3	
9.8	220.5									9.8
10	218.7	171.9								10
12	200	171.9								12
14	190.4	168.4	132.2							14
16	179	153.7	128.9							16
18	157	143.4	127.8	74						18
20	143.5	129.8	116.6	74						20
22	122.8	115.5	104.2	74						22
24	106.9	102	93.9	74	74					24
26	94.3	89.9	85.2	74	74					26
28	84.1	80.1	77.3	74	74	69.2				28
30	75.7	72	69.4	74	69.5	64.3				30
35	59.9	56.6	54.5	61.6	58.5	54.2	39.3			35
40		45.8	44	51	48.6	46.4	36.1	37.2		40
45		37.9	36.2	43.1	41	39.2	34.4	35.2	34.4	45
50		31.8	30.1	37	35	33.4	32.8	33.4	32.8	50
55			25.4	32.2	30.2	28.7	30.7	31	29.5	55
60			21.5	28.2	26.4	24.9	28.3	27.2	26	60
65			18.3	24.9	23.1	21.7	25.5	24.1	22.9	65
70				22.2	20.4	19	22.8	21.4	20.2	70
75				19.8	18.1	16.7	20.4	19.1	18	75
80				17.8	16	14.7	18.4	17.1	16	80
85				16.1	14.3	13	16.7	15.4	14.3	85
90					12.7	11.5	15.1	13.9	12.8	90
95					11.4	10.1	13.7	12.5	11.4	95
100					10.2	8.9	12.5	11.3	10.2	100
105						7.8	11.4	10.2	9.1	105
110						6.8	10.4	9.2	8.2	110
115						5.9	9.5	8.3	7.3	115
120							8.7	7.5	6.5	120
130							7.2	6	5	130
140								4.8	3.8	140
150								3.8	2.7	150
2#	0	50	100	0	50	100	0	50	100	2#
3#	0	0	0	50	50	50	100	100	100	3#
4#	0	0	0	50	50	50	100	100	100	4#
5#	0	0	0	50	50	50	100	100	100	5#
n	11	9	7	4	4	4	2	2	2	n

Notes:
1. Conforms to ANSI/ASME B30.5, tested per SAE J987 and SAE J765.
2. Capacities shown in table are for reference only. Refer to Load Rating Manual for official lift capacities.

07 Working Range
FJ configuration



07 Load Chart
FJ configuration

Unit: klb

ft	Ground level: 0°, Rear Counterweight 66.1klbs, Carbody Counterweight 17.2klbs, Track Gauge 15ft						ft
	45ft + 33.5ft			45ft + 57.4ft			
	0°	15°	30°	0°	15°	30°	
16	25.8						16
18	24.6						18
20	23.3						20
22	21.4			8.3			22
24	19.9	14.1		8.1			24
26	18.6	13.5		7.8			26
28	17.4	12.9		7.5			28
30	16.3	12.3	10	7.3			30
35	14.2	11.2	9.4	6.8			35
40	12.7	10.3	8.8	6.3	5.5		40
45	11.3	9.5	8.3	5.9	5.2		45
50	10.2	8.9	7.9	5.5	4.9		50
55	9.3	8.3	7.6	5.2	4.7	4.4	55
60	7.5	6.7	6.3	5	4.5	4.2	60
65				4.7	4.4	4.1	65
70				4.5	4.2	4.1	70
75				4.3	4.1	4	75
80				3.4	4	3.9	80
85				2.4	3.9	3.9	85
2#	0	0	0	0	0	0	2#
3#	0	0	0	0	0	0	3#
4#	0	0	0	0	0	0	4#
5#	0	0	0	0	0	0	5#
n	2	1	1	1	1	1	n

Note:
1. Conforms to ANSI/ASME B30.5, tested per SAE J987 and SAE J765.
2. Capacities shown in table are for reference only. Refer to Load Rating Manual for official lift capacities.
3. Auxiliary tip extension capacity is 20.9klb (9.5t).

07 Load Chart
FJ configuration

Unit: klb

ft	Ground level: 0°, Rear Counterweight 66.1klbs, Carbody Counterweight 17.2klbs, Track Gauge 15ft						ft
	94.2ft + 33.5ft			94.2ft + 57.4ft			
	0°	15°	30°	0°	15°	30°	
26	26.1						26
28	25.1						28
30	24.3						30
35	22.6	14.4		8.1			35
40	20.4	13.5		7.8			40
45	18.4	12.6		7.4			45
50	16.7	11.9	9.4	7.1	5.7		50
55	15.2	11.2	9.1	6.7	5.5		55
60	14	10.6	8.8	6.3	5.3	4.6	60
65	13.1	10.1	8.5	6	5.2	4.5	65
70	12.2	9.6	8.2	5.8	5	4.4	70
75	11.4	9.2	8	5.5	4.8	4.3	75
80	10.6	8.8	7.8	5.3	4.7	4.2	80
85	10	8.5	7.6	5.1	4.6	4.1	85
90	9.5	8.2	7.5	5	4.4	4.1	90
95	9	7.9	7.3	4.8	4.3	4	95
100	7.4	7.7	7.2	4.6	4.2	4	100
105	6.4	6.7	6.4	4.5	4.1	3.9	105
110	5.5	5.7	5.5	4.4	4.1	3.9	110
115				4.3	4.1	3.9	115
120				3.5	4	3.9	120
125				2.2	2.8	2.8	125
2#	0	0	0	0	0	0	2#
3#	50	50	50	50	50	50	3#
4#	50	50	50	50	50	50	4#
5#	50	50	50	50	50	50	5#
n	2	1	1	1	1	1	n

Note:
1. Conforms to ANSI/ASME B30.5, tested per SAE J987 and SAE J765.
2. Capacities shown in table are for reference only. Refer to Load Rating Manual for official lift capacities.
3. Auxiliary tip extension capacity is 20.9klb (9.5t).

07 Load Chart
FJ configuration

Unit: klb

ft	Ground level: 0°, Rear Counterweight 66.1klbs, Carbody Counterweight 17.2klbs, Track Gauge 15ft						ft
	143.4ft + 33.5ft			143.4ft + 57.4ft			
	0°	15°	30°	0°	15°	30°	
40	21						40
45	21						45
50	21	14.1		7.6			50
55	20.3	13.4	10.1	7.5			55
60	19.3	12.8	9.8	7.4	5.7		60
65	18.2	12.2	9.5	7.2	5.6		65
70	16.9	11.7	9.3	6.8	5.4		70
75	15.9	11.3	9	6.4	5.3	4.5	75
80	14.9	10.8	8.8	6.2	5.1	4.4	80
85	14.1	10.4	8.6	6	5	4.4	85
90	13.4	10.1	8.4	5.8	4.9	4.4	90
95	12.7	9.8	8.2	5.6	4.7	4.3	95
100	12.1	9.5	8.1	5.4	4.7	4.2	100
105	11.4	9.2	7.9	5.2	4.6	4.1	105
110	10.5	8.9	7.8	5.2	4.5	4.1	110
115	9.6	8.6	7.6	5	4.5	4.1	115
120	8.7	8.4	7.5	4.9	4.4	4	120
125	7.2	7.5	7.3	4.7	4.3	3.9	125
130	5.9	6.1	6.2	4.6	4.1	3.9	130
135	4.8	4.9	5	4.4	4	3.9	135
140	3.8	3.9	3.9	4.2	3.9	3.9	140
145				3.1	2.9	2.9	145
150				2.1	1.9	1.9	150
2#	0	0	0	0	0	0	2#
3#	100	100	100	100	100	100	3#
4#	100	100	100	100	100	100	4#
5#	100	100	100	100	100	100	5#
n	2	1	1	1	1	1	n

Note:
1. Conforms to ANSI/ASME B30.5, tested per SAE J987 and SAE J765.
2. Capacities shown in table are for reference only. Refer to Load Rating Manual for official lift capacities.
3. Auxiliary tip extension capacity is 20.9klb (9.5t).

07 Load Chart

FJ configuration

Unit: klb

ft	Ground level: 0°, Rear Counterweight 66.1klbs, Carbody Counterweight 17.2klbs, Track Gauge 15ft						ft
	174.3ft + 33.5ft			174.3ft + 57.4ft			
	0°	15°	30°	0°	15°	30°	
50	19.7						50
55	19.7	14.6					55
60	19.7	14	10.3	7.4			60
65	19.6	13.4	10	7.4			65
70	18.8	12.9	9.8	7.2	5.5		70
75	17.7	12.4	9.5	6.9	5.4		75
80	16.4	11.9	9.3	6.5	5.3	4.6	80
85	14.9	11.5	9.1	6.4	5.2	4.5	85
90	13.3	11.1	8.9	6.1	5.1	4.4	90
95	11.9	10.8	8.7	6	5	4.5	95
100	10.6	10.5	8.6	5.8	4.9	4.4	100
105	9.5	10.1	8.4	5.7	4.8	4.4	105
110	8.5	9	8.3	5.5	4.7	4.3	110
115	7.5	8	8.1	5.4	4.9	4.2	115
120	6.7	7.1	7.3	5.3	4.7	4.1	120
125	5.2	5.6	5.8	5	4.5	4	125
130	3.9	4.2	4.4	5.1	4.3	4	130
135	2.8	3.1	3.2	4.1	4.2	3.9	135
140	1.9	2.1	2.2	3.2	3.6	3.9	140
145	1.2	1.3		2.3	2.7	2.9	145
150				1.6	1.9	2	150
160				1.2	1.3		160
2#	100	100	100	100	100	100	2#
3#	100	100	100	100	100	100	3#
4#	100	100	100	100	100	100	4#
5#	100	100	100	100	100	100	5#
n	1	1	1	1	1	1	n

Note:
1. Conforms to ANSI/ASME B30.5, tested per SAE J987 and SAE J765.
2. Capacities shown in table are for reference only. Refer to Load Rating Manual for official lift capacities.
3. Auxiliary tip extension capacity is 20.9klb (9.5t).



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