

Hydraulic Crawler Crane

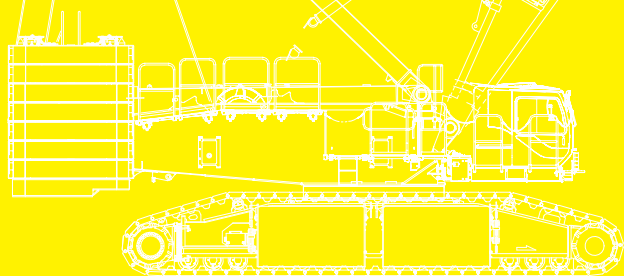
SL4500G

Model : SL4500G

Max. Lifting Capacity : **440 US ton x 21.9 ft**

Max. Crane Boom Length: **315 ft (Long Boom)**

Max. Luffing Jib Combination: **256 + 217 ft (276 + 177 ft)**



KOBELCO


CONFIGURATION

STD
Luffing Boom





Max. Lifting Capacity:
881,800 lbs x 18 ft
Max. Boom Length: 256 ft

STD
Long Boom






Max. Lifting Capacity:
250,200 lbs x 32 ft
Max. Boom Length: 315 ft

HL
Luffing Boom

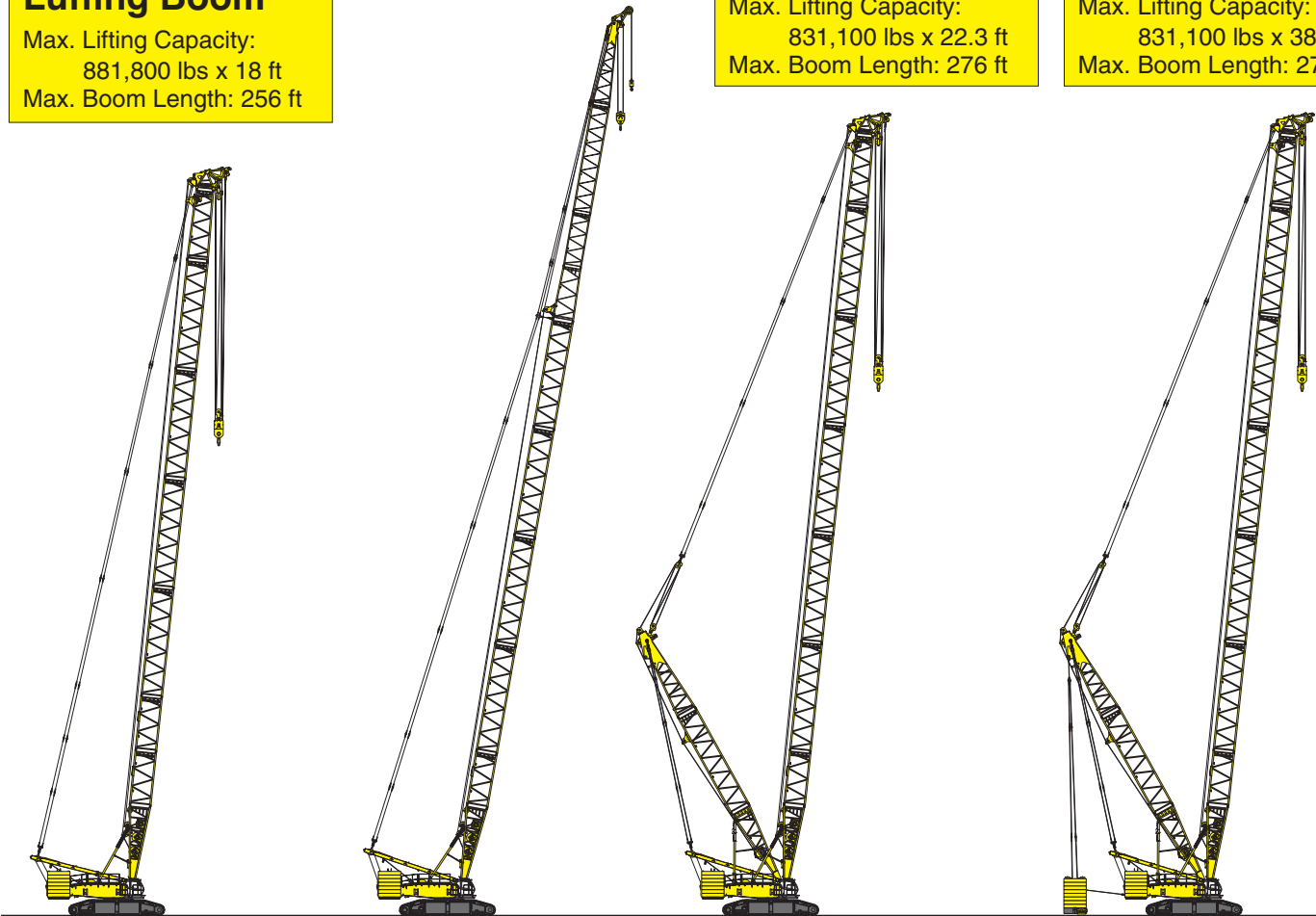


Max. Lifting Capacity:
831,100 lbs x 22.3 ft
Max. Boom Length: 276 ft

SHL
Luffing Boom



Max. Lifting Capacity:
831,100 lbs x 38 ft
Max. Boom Length: 276 ft



HL

Luffing Jib

Max. Lifting Capacity:
250,200 lbs x 52.5 ft
Max. Combination: 236 + 217 ft
(256 + 177 ft)



SHL

Luffing Jib

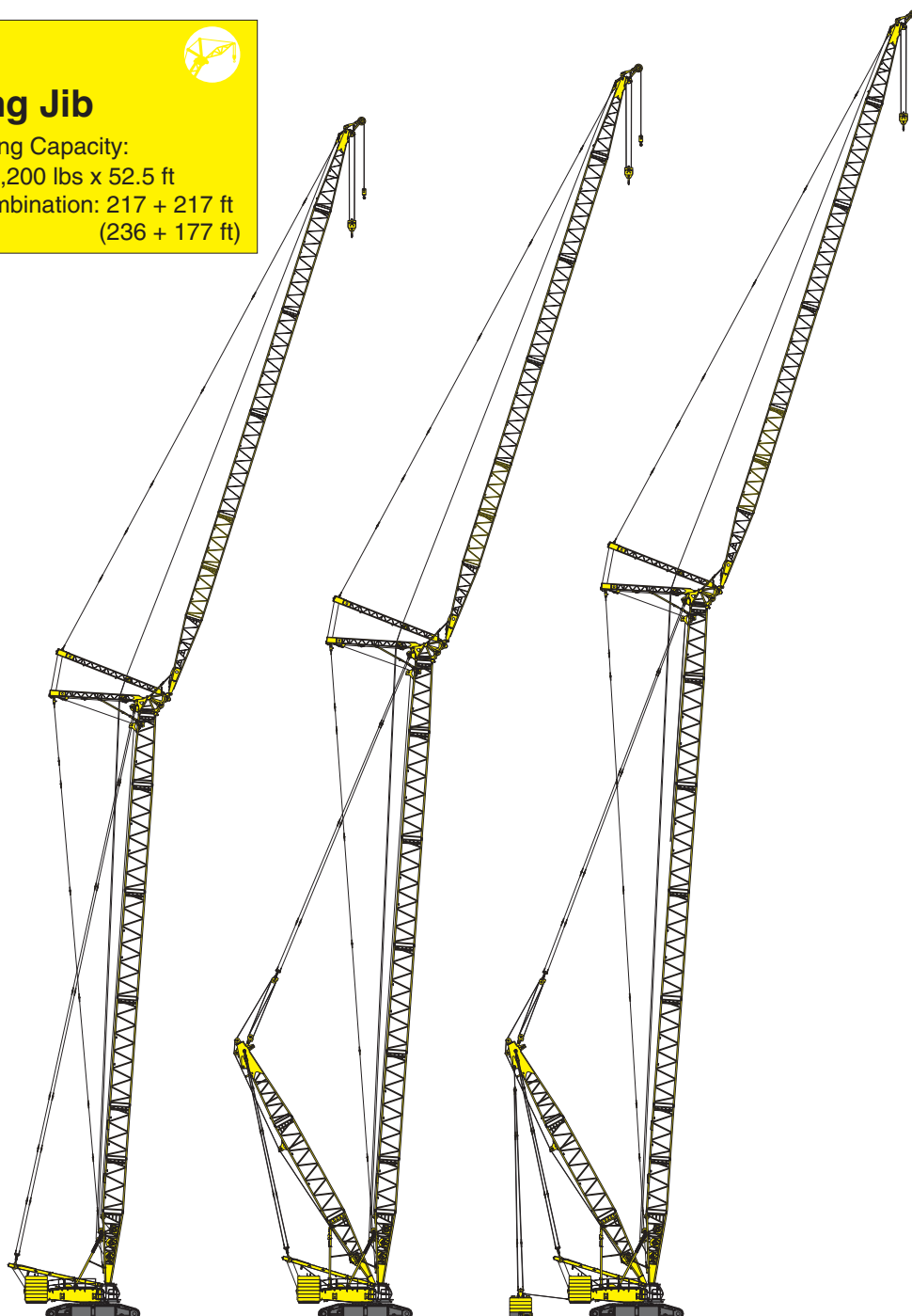
Max. Lifting Capacity:
250,200 lbs x 52.5 ft
Max. Combination: 256 + 217 ft
(276 + 177 ft)



STD

Luffing Jib

Max. Lifting Capacity:
250,200 lbs x 52.5 ft
Max. Combination: 217 + 217 ft
(236 + 177 ft)



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SPECIFICATIONS



Power Plant

Model: Hino diesel engine E13C-VV

Type: Water-cooled, direct fuel injection, with turbocharger
Complies with US EPA Interim Tier 4 and NRMM (Europe) Stage IIIB.

Displacement: 788 cu in (12,913 liters)

Rated Power: 448 PS/1,800 rpm

Max. torque: 1,930 N·m/1,300 min⁻¹

Cooling system: Liquid, recirculating bypass

Starter: 24 V/6 kW

Radiator: Corrugated type core, thermostatically controlled

Air cleaner: Dry type with replaceable paper element

Throttle: Twist grip type hand throttle, electrically actuated

Fuel filter: Replaceable paper element

Batteries: Two 12V x 136Ah/5HR capacity batteries, parallel connected.

Fuel tank capacity: 158 US gal



Hydraulic System

Six variable displacement piston pumps are driven by heavy-duty pump drive. Two variable displacement pumps are used in H1 (main hook hoist) and left hand side propel circuit. Two variable displacement pumps are used in H2 (auxiliary hook hoist) and right hand side propel circuit. One of the other two pumps is used in W1 (boom), W2 (jib) or W3 (SHL mast) hoist circuit, and the other is used in the swing circuit.

Control: Full-flow hydraulic control system for infinitely variable pressure to all winches, propel and swing.

Controls respond instantly to the touch, delivering smooth function operation.

Cooling: Oil-to-air heat exchanger (plate-fin type)

Filtration: Full-flow and bypass type with replaceable element

Electrical system: All wiring corded for easy servicing, individual fused branch circuits.

Max. relief valve pressure: 32.0 MPa {326 kgf/cm²}

Reservoir capacity: 88 US gal



Boom Hoisting System

Powered by a hydraulic motor through a planetary reducer.

Brake: A spring-set, hydraulically released multiple-disc brake is mounted on the boom hoist motor and operated through a counter-balance valve.

Drum lock: External ratchet for locking drum.

Drum: Double drum, grooved for 28 mm dia. wire rope.

Line speed: Double line on first drum layer

Hoisting/Lowering: 91 to 6 ft/min x 2

Boom hoist reeving: 28 parts of 28 mm dia. high strength wire rope

Boom backstops: Required for all boom lengths



Load Hoist System

H1 and H2 drums for load hoist powered by a hydraulic variable plunger motors, driven through planetary reducers.

Brake: A spring-set, hydraulically released multiple-disc brake is mounted on the hoist motor and operated through a counter-balance valve.

Drum lock: External ratchet for locking drum.

Drums:

H1 and H2:

24'8" (630 mm) P.C.D. x 39'9" (1,014 mm) Lg. wide drum, grooved for 28 mm wire rope. Rope capacity is 2,592 ft (790 m) working length.

Note: Rope lengths listed above denote drum capacity and may differ from actual rope lengths supplied when machinery is shipped.

Line speed: 360 to 10 ft/min^{*1}

Single line on the first layer

*1: Line speeds based on single line, no load and 5th layer of rope drum.

Rated line pull: 132 kN {13.5 tf}



Swing System

Swing unit is powered by hydraulic motor driving spur gears through planetary reducers (3 sets), the swing system provides 360° rotation.

Swing parking brakes: A spring-set, hydraulically released multiple-disc brake is mounted on swing motor.

Swing circle: Triple-row roller bearing with an integral internally cut swing gear.

Swing speed: 1.2 rpm (1.2 min⁻¹)



Upper Structure

Torsion-free precision machined upper frame. All components are located clearly and service friendly. Engine with low noise level.



Cab & Control

Totally enclosed, full vision cab with safety glass, fully adjustable, can be tilted up to 15 degree, high backed seat with a head-rest and armrests, and intermittent wiper and window washer (sky light and front window).

Cab fittings:

Air conditioner, convenient compartment (for tool), cup holder, ashtray, cigarette lighter, sun visor, roof blind, tinted glass, floor mat, foot-rest, shoe tray

Controls:

Five adjustable levers for all winches and swing controls



Lower Structure

Steel-welded carbody with axles. Crawler assemblies are designed with quick disconnect feature for individual removal as a unit from axles. Crawler belt tension is maintained by hydraulic jack force on the track-adjusting bearing block.

Crawler drive: Two independent hydraulic propel drive is built into each crawler side frame. Each drive consists of a hydraulic motor propelling a driving tumbler through a planetary gear box. Hydraulic motor and gear box are built into the crawler side frame within the shoe width.

Crawler brakes: Spring-set, hydraulically released parking brakes are built into each propel drive.

Steering mechanism: A hydraulic propel system provides both skid steering (driving one track only) and counter-rotating steering (driving each track in opposite directions).

Track rollers: Sealed track rollers.

Shoes (flat): 4' wide each crawler

Max. travel speed: 0.62/0.4 miles

Max. gradeability: 20%



Weight

Including base machine, counterweights = 353,000 lbs, carbody weights = 112,000 lbs, crawler weight = 44,000 lbs, 79 ft Luffing boom and 400 metric ton hook block. Not include quick connection STD devise and upper transflifter.

Weight: 910,000 lbs*1

Ground pressure: 24.8 psi



Attachment

Boom and Jib:

Welded lattice construction using tubular, high-tensile steel chords with pin connections between sections.

Boom and Jib Length

	Min. Length (Min. Combination)	Max. Length (Max. Combination)
STANDARD		
Luffing Boom	79 ft	256 ft
Luffing Jib	79 ft + 79 ft	217 ft + 217 ft (236 ft + 177 ft)
HEAVY LIFT		
Luffing Boom	98 ft	276 ft
Luffing Jib	98 ft + 79 ft	236 ft + 217 ft (256 ft + 177 ft)
SUPER HEAVY LIFT		
Luffing Boom	98 ft	276 ft
Luffing Jib	98 ft + 79 ft	256 ft + 217 ft (276 ft + 177 ft)

Main Specifications (Model: SL4500)

Lift Enhancer	STD	HL	SHL
HL Mast	-	98 ft	98 ft
Additional Weight	-	-	~551,100 lbs
Luffing Boom			
Max. Lifting Capacity	881,800 lbs	831,100 lbs	831,100 lbs
	18 ft	22.3 ft	38 ft
Length	79 ~ 256 ft	98 ~ 276 ft	98 ~ 276 ft
Long Boom			
Max. Lifting Capacity	250,200 lbs		
Length	197 ~ 315 ft		
Luffing Jib			
Max. Lifting Capacity	250,200 lbs	250,200 lbs	250,200 lbs
Boom Length (Min ~ Max)	79 ~ 217 ft (236 ft)	98 ~ 236 ft (256 ft)	98 ~ 256 ft (276 ft)
Jib Length (Min ~ Max)	79 ~ 217 ft (177 ft)	79 ~ 217 ft (177 ft)	79 ~ 217 ft (177 ft)
Luffing Angle	66 ~ 86 degree		
Power Plant			
Model	Hino E13C-VV		
Engine Output	448 PS/1,800 rpm		
Fuel Tank Capacity	158 US gal.		

Hoist Winch (H1, H2)	
Max. Line Speed	360 ft/min (1st layer)
Rated Line Pull (Single line)	29,761 lbs (132 kN)
Wire Rope Diameter	28 mm
Working Speed	
Swing	1.2 rpm (1.2 min ⁻¹)
Travel	0.62/0.4 miles
Hydraulic System	
Pumps	7 variable displacement
Max. Pressure	4,620 psi
Hydraulic Tank Capacity	88 US gal
Weight	
Working Weight*	910,000 lbs
Ground Pressure*	24.8 psi
Counterweight	Upper: 353,000 lbs
	Lower: 112,000 lbs

*1: Including base machine, counterweights (353,000 lbs), carbody weights (112,000 lbs), crawler weight (44,000 lbs), 79 ft Luffing boom and 400 metric ton hook block.

Not include quick connection devise and upper transflifter.

Crane Boom

Technical drawing of the CRANE 1000 showing top, side, and rear views with dimensions in feet and inches, and meters.

Top View Dimensions:

- Overall width: 24'7" (7,400)
- Track width: 4" (1,220)
- Crane boom width: R26'11" (8,215)

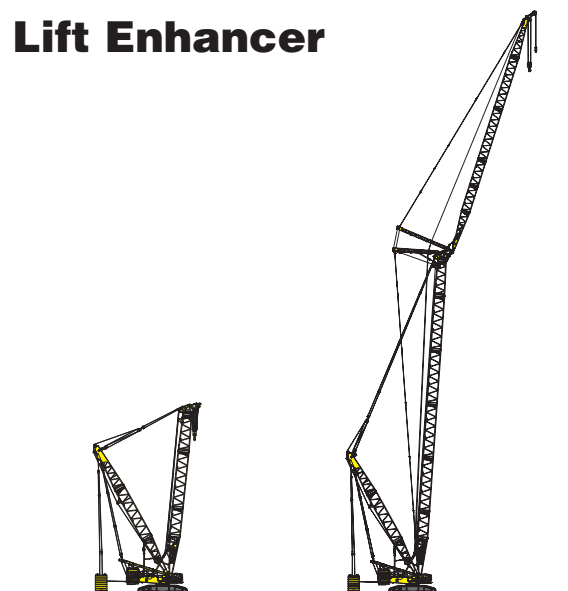
Side View Dimensions:

- Crane boom length: 78'9" to 235'11" (24,0 - 78,0 m)
- Crane boom width: 32'3" (9,825)
- Crane boom height: 5'5" (1,600)
- Crane boom radius: R26'11" (8,215)
- Crane boom height at base: 10'2" (3,105)
- Crane boom width at base: 34'6" (10,515)

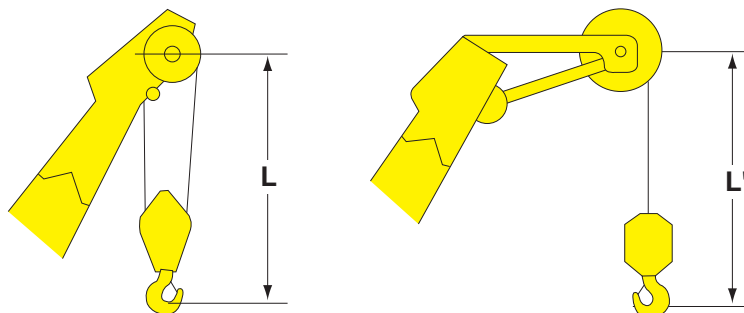
Rear View Dimensions:

- Overall width: 28'7" (8,720)
- Track width: 4" (1,220)
- Crane boom width: 2' (580)

Limit of Hook Lifting



SHL LUFFING

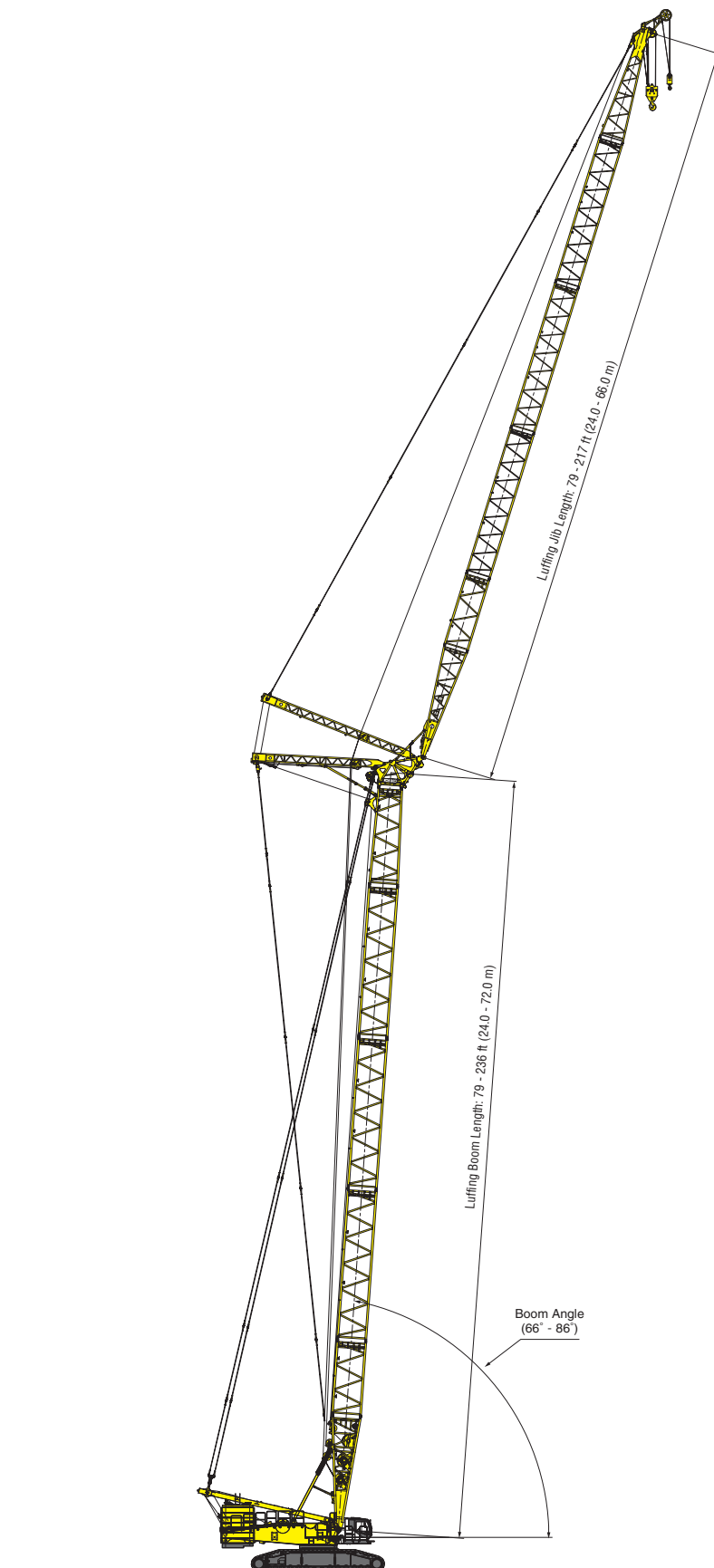


Hook	L (ft)		
	Luffing Boom	Long Boom	Luffing Jib
400 metric ton hook	24.0	-	-
200 metric ton hook	18.4	-	-
120 metric ton hook	16.7	25.6	20.0
70 metric ton hook	16.4	25.3	19.4
40 metric ton hook	15.4	24.3	18.7

Hook	L (ft)		
	Luffing Boom	Long Boom	Luffing Jib
13.5 metric ton ball hook	18.4	19.4	19.0

Luffing Jib

Unit: ft-in (mm)



BOOM AND JIB ARRANGEMENTS

Luffing Boom Arrangements for Crane

Boom length ft (m)	Boom arrangement
79 (24)	
98 (30)	※
118 (36)	※
138 (42)	※
157 (48)	※
177 (54)	※
197 (60)	※
217 (66)	※
236 (72)	※
256 (78)	※

Symbol	Boom Length	Remarks
	29.5 ft (9.0 m)	Boom Base
	25.6 ft (7.8 m)	Tapered Boom
	19.7 ft (6.0 m)	Insert Boom
	39.4 ft (12.0 m)	Insert Boom
	3.9 ft (1.2 m)	Boom Top

※ indicates the most flexible combination of insert luffing booms, which can be modified to form all shorter luffing boom arrangements.

※ Actual lengths of boom sections are metric such as 3m, 6m and 12m. The value shown above or in the chart are approximate conversions to feet.

Long Boom Arrangements

Boom length ft (m)	Boom arrangement
197 (60)	
217 (66)	※
236 (72)	※
256 (78)	※
276 (84)	※
295 (90)	※
315 (96)	※

Symbol	Boom Length	Remarks
	29.5 ft (9.0 m)	Boom Base
	20 ft (6.0 m)	Tapered Boom
	19.7 ft (6.0 m)	Insert Boom
	39.4 ft (12.0 m)	Insert Boom
	19.7 ft (6.0 m)	Luffing Insert Jib
	39.4 ft (12.0 m)	Luffing Insert Jib
	29.5 ft (9.0 m)	Jib Top

※ indicates the most flexible combination of insert long booms, which can be modified to form all shorter long boom arrangements.

※ Actual lengths of boom sections are metric such as 3m, 6m and 12m. The value shown above or in the chart are approximate conversions to feet.

Luffing Boom Arrangements for Luffing

Boom length ft (m)	Boom arrangement
79 (24)	
98 (30)	※
118 (36)	※
138 (42)	※
157 (48)	※
177 (54)	※
197 (60)	※
217 (66)	※ ※
236 (72)	※

Symbol	Boom Length	Remarks
	29.5 ft (9.0 m)	Boom Base
	25.6 ft (7.8 m)	Tapered Boom
	19.7 ft (6.0 m)	Insert Boom
	39.4 ft (12.0 m)	Insert Boom
	3.9 ft (1.2 m)	Boom Top

※ indicates the most flexible combination of insert long booms, which can be modified to form all shorter long boom arrangements.

※ Actual lengths of boom sections are metric such as 3m, 6m and 12m. The value shown above or in the chart are approximate conversions to feet.

Luffing Jib Arrangements

Jib length ft (m)	Jib arrangement
79 (24)	
98 (30)	※
118 (36)	※
138 (42)	※
157 (48)	※
177 (54)	※
197 (60)	※
217 (66)	※

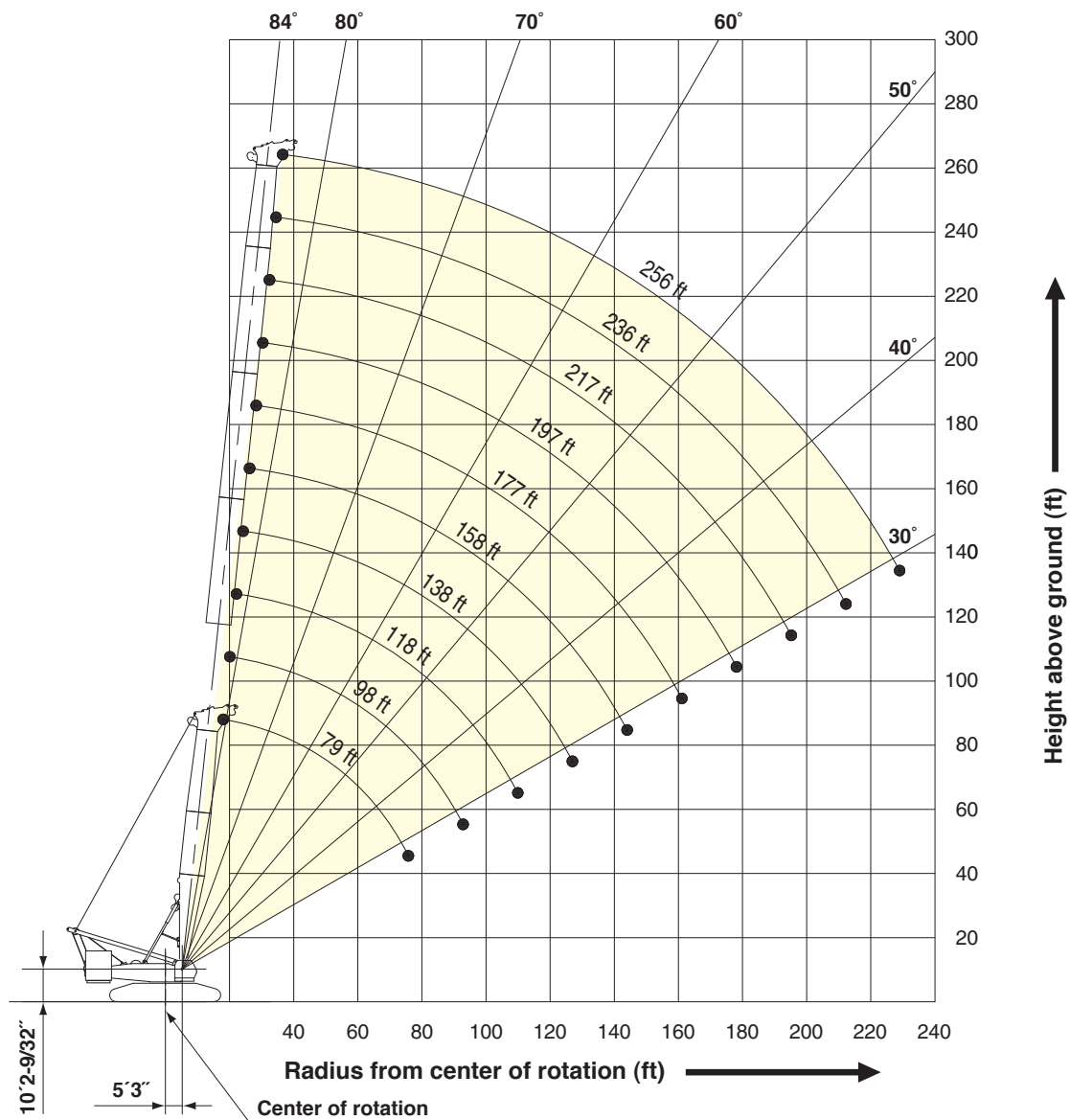
Symbol	Jib Length	Remarks
	29.5ft (9.0 m)	Jib Base
	19.7ft (6.0 m)	Luffing Insert Jib
	39.4ft (12.0 m)	Luffing Insert Jib
	29.5ft (9.0 m)	Jib Top

※ indicates the most flexible combination of insert luffing jibs, which can be modified to form all shorter luffing jib arrangements.

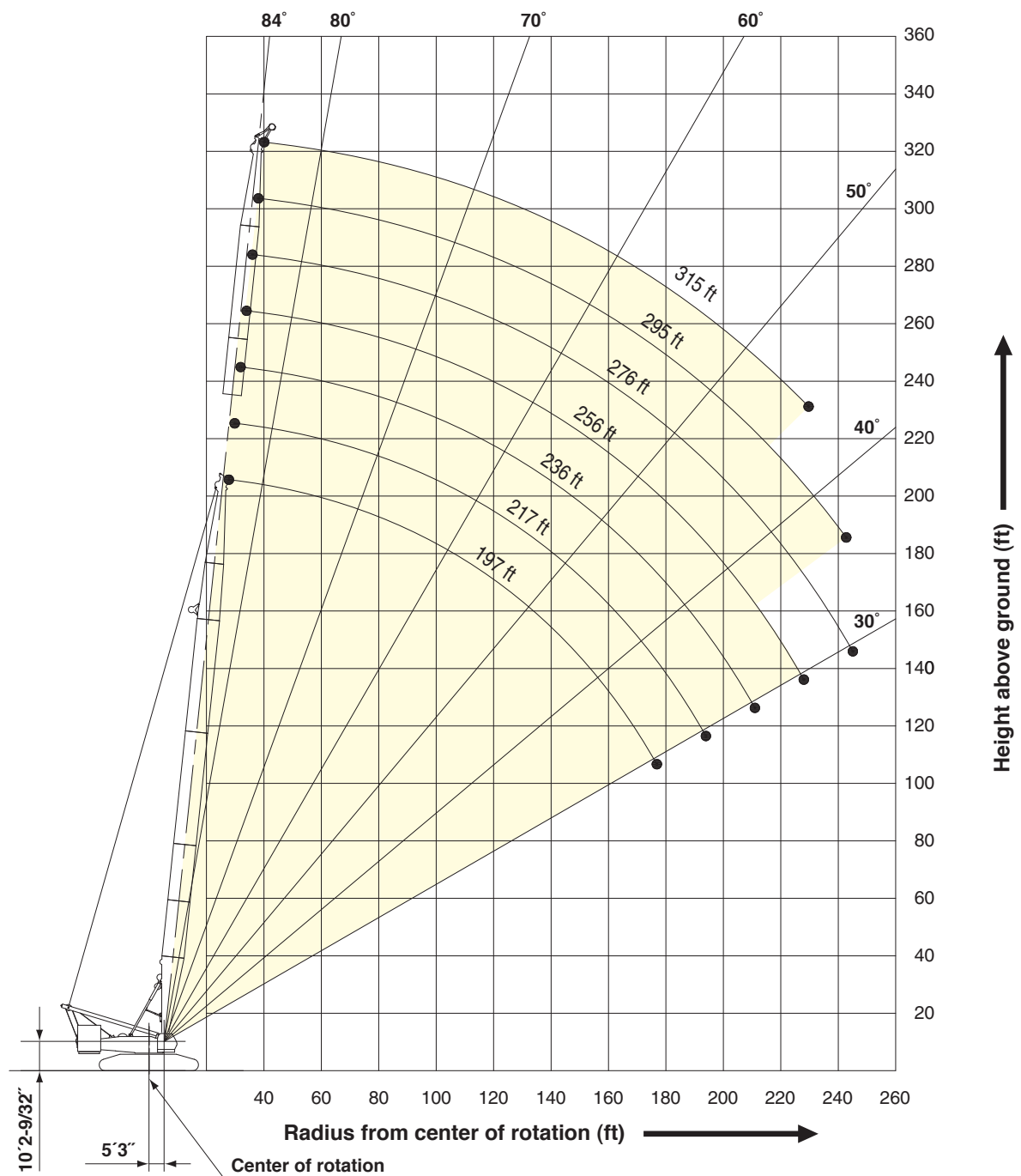
※ Actual lengths of boom sections are metric such as 3m, 6m and 12m. The value shown above or in the chart are approximate conversions to feet.

WORKING RANGES

Luffing Boom



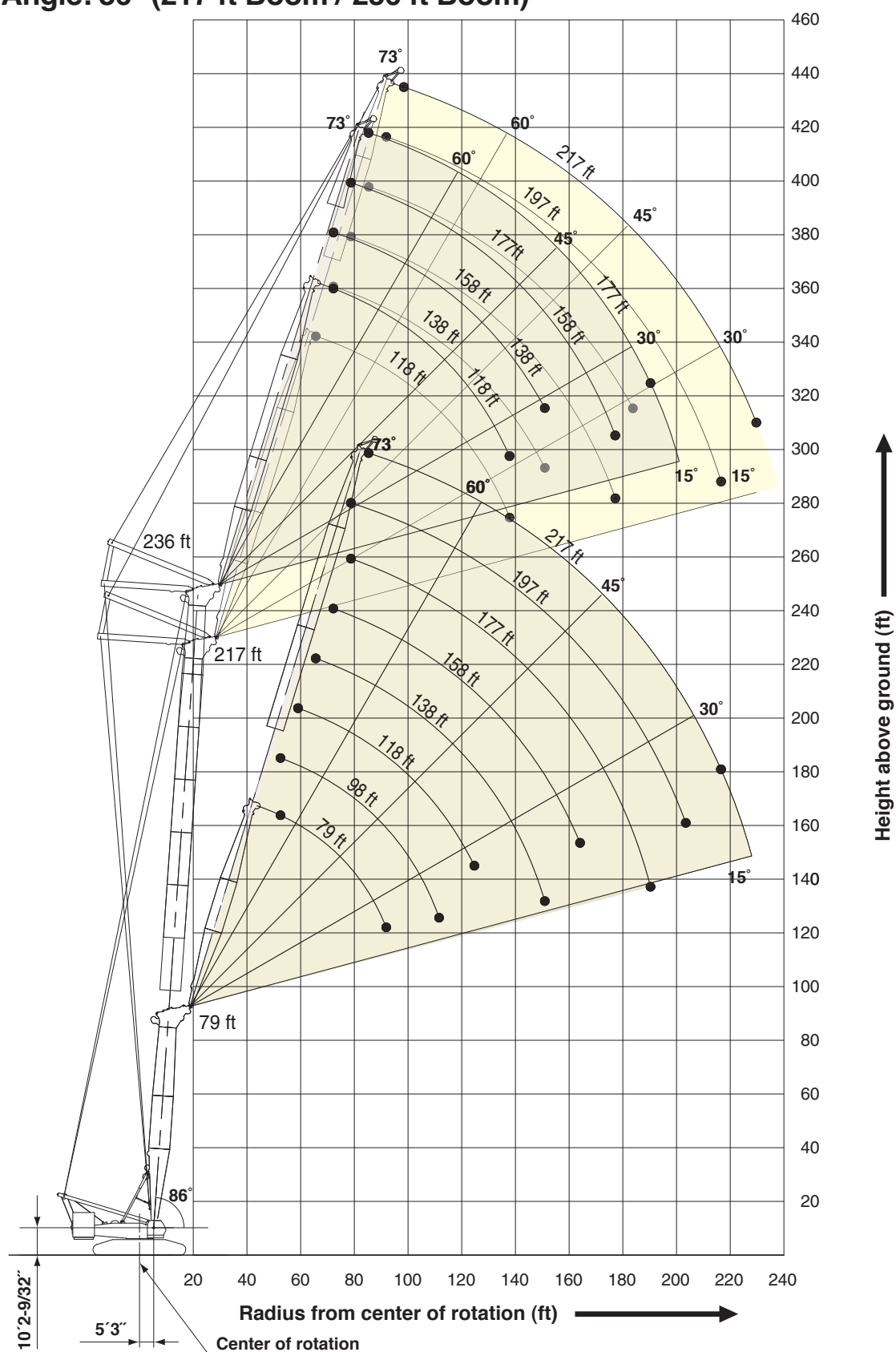
Long Boom



WORKING RANGES

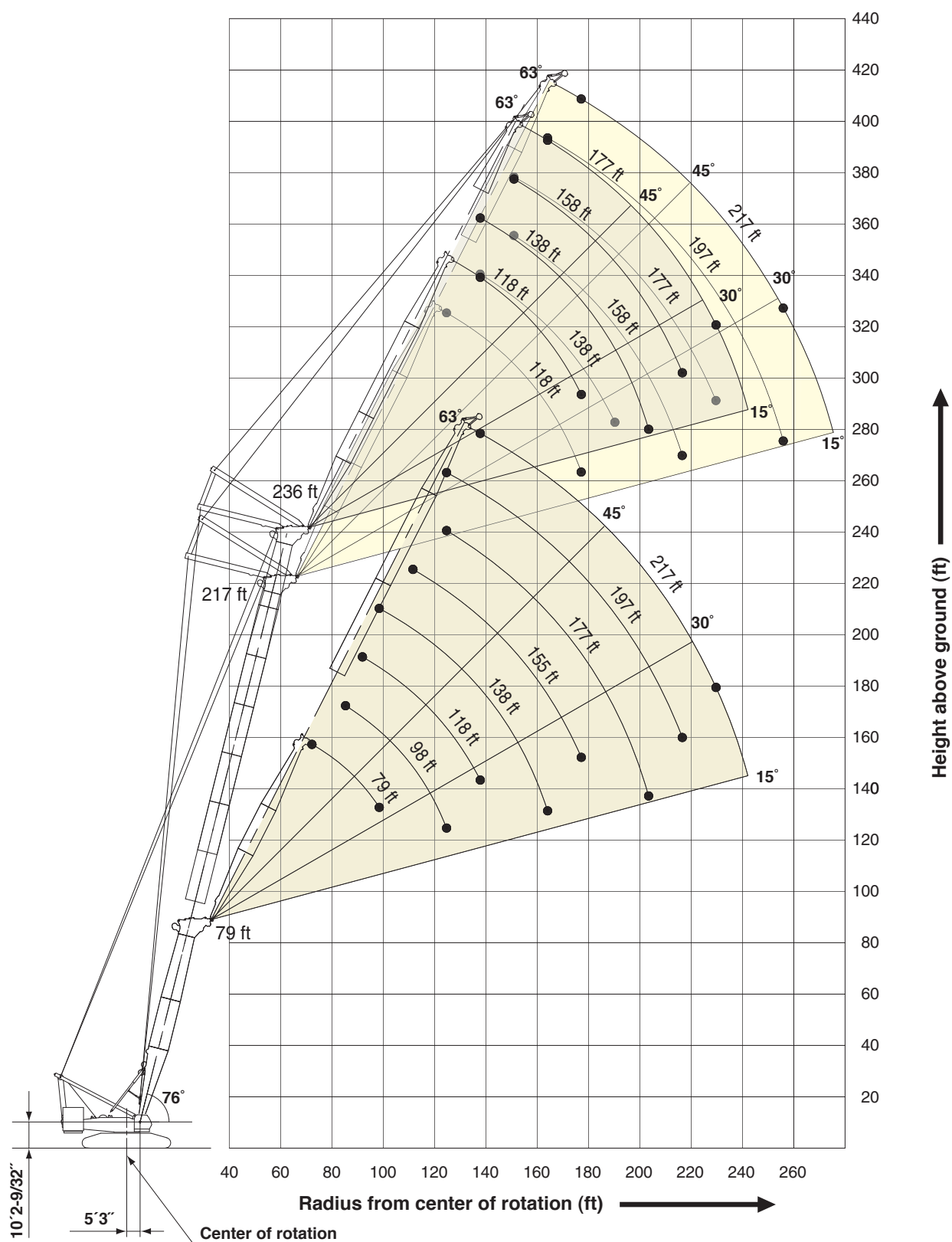
Luffing Jib

Boom Angle: 86° (217 ft Boom / 236 ft Boom)



Luffing Jib

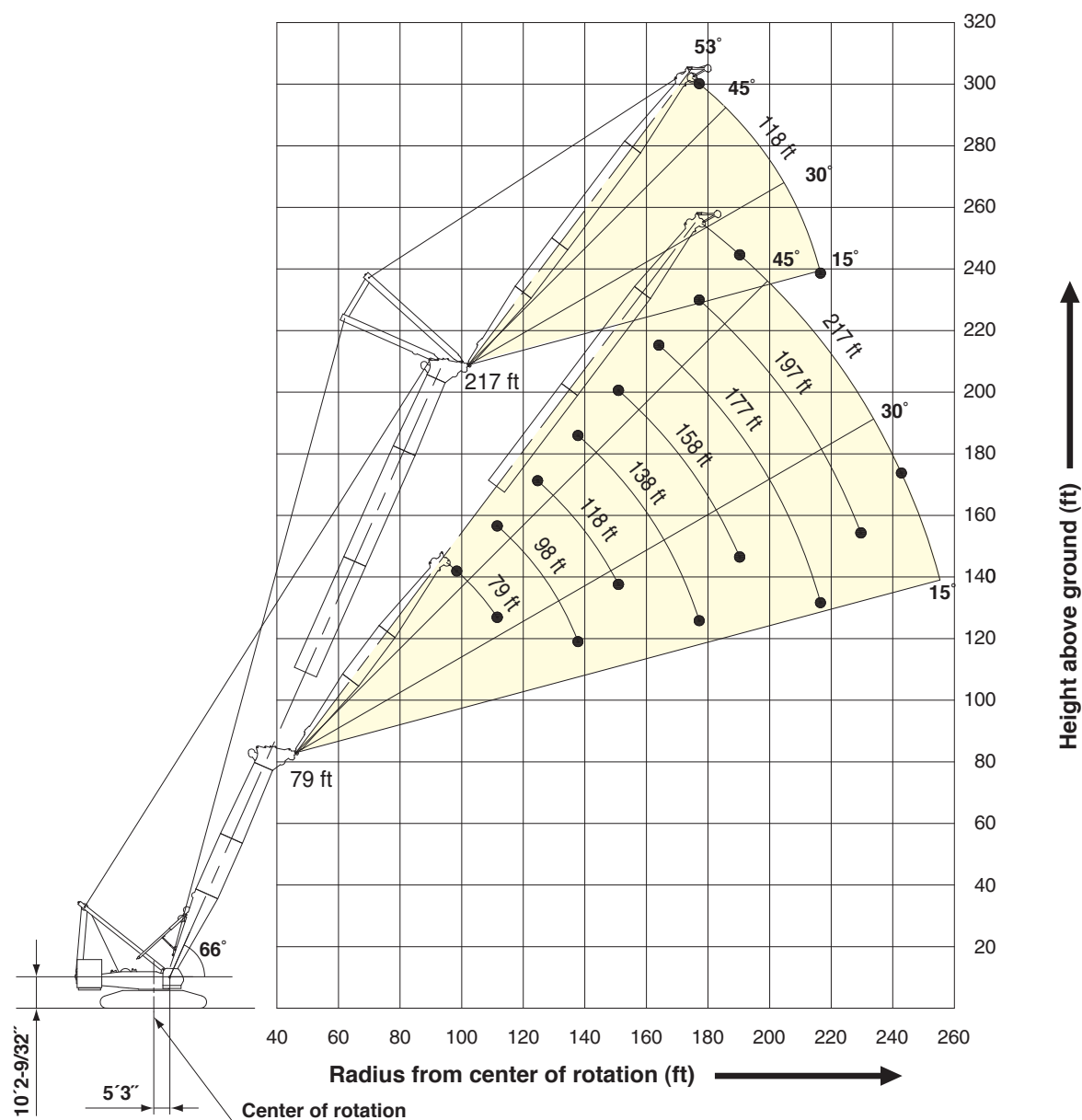
Boom Angle: 76° (217 ft Boom / 236 ft Boom)



WORKING RANGES

Luffing Jib

Boom Angle: 66° (217 ft Boom)



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LUFFING BOOM SUPPLEMENTAL DATA

1. Rated loads included in the charts are the maximum allowable freely suspended loads at a given boom length, boom angle and load radius, and have been determined for the machine standing level on firm supporting surface under ideal operating conditions. The user must limit or de-rate rated loads to allow for adverse conditions (such as soft or uneven ground, out-of-level conditions, wind, side loads, pendulum action, jerking or sudden stopping of loads, inexperience of personnel, multiple machine lifts, and traveling with a load).

2. Rated loads do not exceed 75% of minimum tipping loads. Rated loads based on factors other than machine stability such as structural competence are shown by asterisk * in the charts.

3. The machine must be reeved and set-up as stated in the operation manual and all the instruction manuals. If these manuals are missing, obtain replacements.

- Boom backstops are required for all boom lengths.
- The crane must be leveled to within 1% on a firm supporting surface.

4. Do not attempt to lift where no radius on load is listed as crane may tip or collapse.

5. Attempting to lift more than rated loads may cause machine to tip or collapse. Do not tip machine to determine rated loads.

6. Weight of hooks, hook blocks, slings and other lifting devices are a part of the total load. Their total weight must be subtracted from the rated load to obtain the weight that can be lifted.

7. The minimum rated load show below.

MINIMUM RATED LOAD	
LUFFING BOOM	LONG BOOM
5,200 lbs	6,800 lbs

8. When lifting over boom point with auxiliary sheave, rated loads for the boom must be deducted as shown below.

DEDUCTION AUXILIARY SHEAVE FRAME	
LUFFING BOOM	LONG BOOM
440 lbs	1,550 lbs

9. In case of auxiliay sheave for luffing boom, the total lifting load is the value for 440 lbs deducted from rated loads for the luffing boom without auxiliary sheave, but it should not exceed 29,700 lbs.

10. In case of auxiliay sheave for long boom, the total lifting load is the value for 1,550 lbs deducted from rated loads for the long boom without auxiliary sheave, but it should not exceed 29,700 lbs.

11. Auxiliary sheave ratings at any radius from center of rota-

tion are the same as boom ratings shown in table for main boom when operated at the same radius.

But maximum angle is the same as main boom maximum angle.

12. Boom lengths for auxiliary sheave can be equipped.

STD		HL/SHL
LUFFING BOOM	LONG BOOM	LUFFING BOOM
79 ft ~ 256 ft (24m ~ 78m)	197 ft ~ 315 ft (60m ~ 96m)	118 ft ~ 276 ft (36m ~ 84m)

The minimum main hook block weight is 4,400 lbs for auxiliary sheave ratings.

13. Maximum hoist load for number of reeving parts of line for hoist rope.

Main Boom Hoist Loads (Double Drum)

No. of Parts of Line	12(2x6)	16(2x8)	20(2x10)	24(2x12)
Maximum Loads (lbs)	343,900	448,600	550,000	648,100

No. of Parts of Line	28(2x14)	32(2x16)	36(2x18)
Maximum Loads (lbs)	740,700	831,100	881,800

Main Boom Hoist Loads (Single Drum)

No. of Parts of Line	1	2	3	4	5
Maximum Loads (lbs)	29,700	59,400	88,100	116,800	144,400

No. of Parts of Line	6	7	8	9	10
Maximum Loads (lbs)	171,900	198,400	223,700	250,200	274,400

No. of Parts of Line	11	12	13	14	15
Maximum Loads (lbs)	299,800	324,000	347,200	370,300	393,500

No. of Parts of Line	16	17	18
Maximum Loads (lbs)	415,500	437,600	440,900

Auxiliary Hoist Loads

No. of Parts of Line	1
Maximum Loads (lbs)	29,700

14. Rated loads listed apply only to the machine as originally manufactured and designed by KOBELCO CRANES CO.,LTD. Modifications to this machine or use of equipment other than that specified can reduce operating capacity.

15. Designed and rated to comply with ASME Code B30.5.

Operation of this equipment in excess of rated loads or disregard of instruction voids the warranty.

[illegible]

LUFFING JIB SUPPLEMENTAL DATA

1. Rated loads included in the charts are the maximum allowable freely suspended loads at a given boom length, boom angle and load radius, and have been determined for the machine standing level on firm supporting surface under ideal operating conditions. The user must limit or de-rate rated loads to allow for adverse conditions (such as soft or uneven ground, out-of-level conditions, wind, side loads, pendulum action, jerking or sudden stopping of loads, inexperience of personnel, multiple machine lifts, and traveling with a load).

2. Rated loads do not exceed 75% of minimum tipping loads. Rated loads based on factors other than machine stability such as structural competence are shown by asterisk * in the charts.

3. The machine must be reeved and set-up as stated in the operation manual and all the instruction manuals if these manuals are missing, obtain replacements.

• Boom backstops are required for all boom lengths.

• The crane must be leveled to within 1% on a firm supporting surface.

4. Do not attempt to lift where no radius on load is listed as crane may tip or collapse.

5. Attempting to lift more than rated loads may cause machine to tip or collapse.

Do not tip machine to determine rated loads.

6. Weight of hooks, hook blocks, slings and other lifting devices are a part of the total load. Those total weight must be subtracted from the rated load to obtain the weight that can be lifted.

7. The minimum rated load is 11,500 lbs.

8. The total load that can be lifted over a jib is limited by rated jib loads.

9. The total load that can be lifted over an auxiliary sheave should not exceed 29,700 lbs.

10. Luffing boom and jib combinations.

		Jib Length (m)							
		79 ft (24m)	98 ft (30m)	118 ft (36m)	138 ft (42m)	157 ft (48m)	177 ft (54m)	197 ft (60m)	217 ft (66m)
Boom Length	79ft (24m)	○*	○*	○*	○*	○*	○*	○*	○*
	98ft (30m)	○	○	○	○	○	○	○	○
	118ft (36m)	×	○	○	○	○	○	○	○
	138ft (42m)	×	○	○	○	○	○	○	○
	157ft (48m)	×	○	○	○	○	○	○	○
	177ft (54m)	×	○	○	○	○	○	○	○
	197ft (60m)	×	×	○	○	○	○	○	○
	217ft (66m)	×	×	○	○	○	○※	○※	○※
	236ft (72m)	×	×	○※	○※	○※	○※▲	○***	○***
	256ft (78m)	×	×	○***	○***	○***	○***	○**	○**
	276ft (84m)	×	×	○**	○**	○**	○**	×	×

× : All luffing jib combinations which is none.

○ : All luffing jib combinations which is allowed.

○* : STD luffing jib combinations which is allowed.

※ : STD luffing jib combinations - when erecting and lowering the boom, it should be erected over the front of the crawlers, and the blocks for erection must be placed at the tip(front) of the crawlers.

▲ : STD luffing jib combinations which is needed 22,050 lbs additional weights.

○** : SHL luffing jib combinations which is allowed.

○*** : HL and SHL luffing jib combinations which is allowed.

HL luffing jib combinations - when erecting and lowering the boom, it should be erected over the front of the crawlers, and the blocks for erection must be placed at the tip(front) of the crawlers.

11. Maximum hoist load for number of reeving parts of line for hoist rope.

Jib Hoist Loads (Single Drum)

No. of Parts of Line	1	2	3	4	5
Maximum Loads (lbs)	29,700	59,400	88,100	116,800	144,400

No. of Parts of Line	6	7	8	9
Maximum Loads (lbs)	171,900	198,400	223,700	250,200

Auxiliary Hoist Loads

No. of Parts of Line	1
Maximum Loads (lbs)	29,700

12. Luffing erection jib offset angle.

STD Luffing Erection Jib Offset Angle

(Unit: degrees)

Boom Length	Jib Length							
	79 ft	98 ft	118 ft	138 ft	157 ft	177 ft	197 ft	217 ft
79 ft	40 ~ 120	40 ~ 110	40 ~ 100	40 ~ 90	40 ~ 90	40 ~ 90	40 ~ 80	40 ~ 80
98 ft	40 ~ 120	40 ~ 120	40 ~ 110	40 ~ 100	40 ~ 100	40 ~ 90	40 ~ 90	40 ~ 90
118 ft	×	40 ~ 120	40 ~ 120	40 ~ 110	40 ~ 100	40 ~ 100	40 ~ 90	40 ~ 90
138 ft	×	40 ~ 120	40 ~ 120	40 ~ 120	40 ~ 110	40 ~ 110	40 ~ 100	40 ~ 100
157 ft	×	40 ~ 120	40 ~ 120	40 ~ 120	40 ~ 120	40 ~ 110	50 ~ 110	60 ~ 100
177 ft	×	40 ~ 120	40 ~ 120	40 ~ 120	50 ~ 120	70 ~ 120	70 ~ 110	80 ~ 110
197 ft	×	×	60 ~ 120	80 ~ 120	80 ~ 120	90 ~ 120	90 ~ 120	90 ~ 110
217 ft	×	×	100 ~ 120	110 ~ 120	110 ~ 120	※90 ~ 120	※90 ~ 120	※100 ~ 120
236 ft	×	×	※110 ~ 120	※110 ~ 120	※110 ~ 120	※110 ~ 120	×	×

HL Luffing Erection Jib Offset Angle

(Unit: degrees)

Boom Length	Jib Length							
	79 ft	98 ft	118 ft	138 ft	157 ft	177 ft	197 ft	217 ft
98 ft	40 ~ 120	40 ~ 120	40 ~ 110	40 ~ 100	40 ~ 100	40 ~ 90	40 ~ 90	40 ~ 90
118 ft	×	40 ~ 120	40 ~ 120	40 ~ 110	40 ~ 100	40 ~ 100	40 ~ 90	40 ~ 90
138 ft	×	40 ~ 120	40 ~ 120	40 ~ 120	40 ~ 110	40 ~ 110	40 ~ 100	40 ~ 100
157 ft	×	40 ~ 120	40 ~ 120	40 ~ 120	40 ~ 120	40 ~ 110	40 ~ 110	40 ~ 100
177 ft	×	40 ~ 120	40 ~ 120	40 ~ 120	40 ~ 120	40 ~ 120	50 ~ 110	60 ~ 110
197 ft	×	×	40 ~ 120	40 ~ 120	50 ~ 120	70 ~ 120	70 ~ 120	80 ~ 110
217 ft	×	×	60 ~ 120	80 ~ 120	80 ~ 120	90 ~ 120	90 ~ 120	100 ~ 120
236 ft	×	×	110 ~ 120	110 ~ 120	110 ~ 120	110 ~ 120	※100 ~ 120	※100 ~ 120
256 ft	×	×	※120	※120	※120	※120	×	×

SHL Luffing Erection Jib Offset Angle

(Unit: degrees)

Boom Length	Jib Length							
	79ft	98ft	118 ft	138 ft	157 ft	177 ft	197 ft	217 ft
98 ft	40 ~ 120	40 ~ 120	40 ~ 110	40 ~ 100	40 ~ 100	40 ~ 90	40 ~ 90	40 ~ 90
118 ft	×	40 ~ 120	40 ~ 120	40 ~ 110	40 ~ 100	40 ~ 100	40 ~ 90	40 ~ 90
138 ft	×	40 ~ 120	40 ~ 120	40 ~ 120	40 ~ 110	40 ~ 110	40 ~ 100	40 ~ 100
157 ft	×	40 ~ 120	40 ~ 120	40 ~ 120	40 ~ 120	40 ~ 110	40 ~ 110	40 ~ 100
177 ft	×	40 ~ 120	40 ~ 120	40 ~ 120	40 ~ 120	40 ~ 120	40 ~ 110	40 ~ 110
197 ft	×	×	40 ~ 120	40 ~ 120	40 ~ 120	40 ~ 120	40 ~ 120	40 ~ 110
217 ft	×	×	40 ~ 120	40 ~ 120	40 ~ 120	40 ~ 120	40 ~ 120	40 ~ 120
236 ft	×	×	40 ~ 120	40 ~ 120	40 ~ 120	40 ~ 120	40 ~ 120	40 ~ 120
256 ft	×	×	40 ~ 120	40 ~ 120	40 ~ 120	40 ~ 120	40 ~ 120	40 ~ 120
276 ft	×	×	40 ~ 120	40 ~ 120	40 ~ 120	40 ~ 120	×	×

×: All Luffing jib combinations which is none.

※: STD and HL luffing jib combinations - when erecting and lowering the boom, it should be erected over the front of the crawlers, and the blocks for erection must be placed at the tip(front) of the crawlers.

LUFFING JIB SUPPLEMENTAL DATA

13. Boom and jib combination for inner holding type.

- Make the jib length shorter than the boom length for the inner holding type.

STD Luffing Jib Inner Holding

		Jib Length							
		79 ft	98 ft	118 ft	138 ft	157 ft	177 ft	197 ft	217 ft
Boom Length	79 ft	×	×	×	×	×	×	×	×
	98 ft	○	×	×	×	×	×	×	×
	118 ft	×	○	×	×	×	×	×	×
	138 ft	×	○	○	×	×	×	×	×
	157 ft	×	○	○	○	×	×	×	×
	177 ft	×	○	○	○	○	×	×	×
	197 ft	×	×	○	○	○	○	×	×
	217 ft	×	×	○	○	○	※○	※○	×
	236 ft	×	×	※○	※○	※○	※○	×	×

HL Luffing Jib Inner Holding

		Jib Length							
		79 ft	98 ft	118 ft	138 ft	157 ft	177 ft	197 ft	217 ft
Boom Length	98 ft	○	×	×	×	×	×	×	×
	118 ft	×	○	×	×	×	×	×	×
	138 ft	×	○	○	×	×	×	×	×
	157 ft	×	○	○	○	×	×	×	×
	177 ft	×	○	○	○	○	×	×	×
	197 ft	×	×	○	○	○	○	×	×
	217 ft	×	×	○	○	○	○	○	×
	236 ft	×	×	○	○	○	○	※○	※○
	256 ft	×	×	※○	※○	※○	※○	×	×

SHL Luffing Jib Inner Holding

		Jib Length							
		79 ft	98 ft	118 ft	138 ft	157 ft	177 ft	197 ft	217 ft
Boom Length	98 ft	○	×	×	×	×	×	×	×
	118 ft	×	○	×	×	×	×	×	×
	138 ft	×	○	○	×	×	×	×	×
	157 ft	×	○	○	○	×	×	×	×
	177 ft	×	○	○	○	○	×	×	×
	197 ft	×	×	○	○	○	○	×	×
	217 ft	×	×	○	○	○	○	○	×
	236 ft	×	×	○	○	○	○	○	○
	256 ft	×	×	○	○	○	○	○	○
	276 ft	×	×	○	○	○	○	×	×

×: All luffing jib combinations which is none.

○: All luffing jib combinations which is allowed.

※: STD and HL luffing jib combinations - when erecting and lowering the boom, it should be erected over the front of the crawlers, and the blocks for erection must be placed at the tip (front) of the crawlers.

14. Hook block and number of reeving parts of line restriction

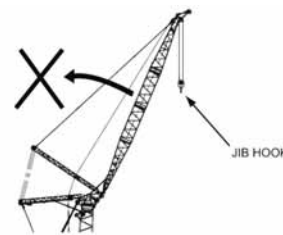
- (1) The self-weight of luffing jib point hook block must be heavier than or equal to the table below.
- (2) Total number of reeving parts of line on luffing jib point hook block must be larger than or equal to the table below.

Danger!

Follow the both (1) and (2) above at the same time for the luffing jib operation.

Otherwise luffing jib may tip over the backwards due to lack of weight on front side of boom.

Failure to observe this precaution may lead to the jib tipping backwards and resulted to machine collapsing.



SL4500 minimum hook block self-weight and minimum number of reeving parts of line on hook block

Boom Length	Jib Length	79 ft (24 m)	98 ft (30 m)	118 ft (36 m)	138 ft (42 m)	157 ft (48 m)	177 ft (54 m)	197 ft (60 m)	217 ft (66 m)
79 ft (24m)	Hook Block Self-Weight (lbs) No. of Parts Line	6,900 2	6,900 2	4,500 2	4,500 2	4,500 2	4,500 2	4,500 2	4,500 2
98 ft (30m)	Hook Block Self-Weight (lbs) No. of Parts Line	7,800 3	6,900 3	4,500 2	4,500 2	4,500 2	4,500 2	4,500 2	4,500 2
118 ft (36m)	Hook Block Self-Weight (lbs) No. of Parts Line		6,900 2	4,500 2	4,500 2	4,500 2	4,500 2	4,500 2	4,500 2
138 ft (42m)	Hook Block Self-Weight (lbs) No. of Parts Line		6,900 2	4,500 2	4,500 2	4,500 2	4,500 2	4,500 2	4,500 2
157 ft (48m)	Hook Block Self-Weight (lbs) No. of Parts Line		6,900 4	4,500 2	4,500 2	4,500 2	4,500 2	4,500 2	4,500 2
177 ft (54m)	Hook Block Self-Weight (lbs) No. of Parts Line		6,900 2	4,500 2	4,500 2	4,500 2	4,500 2	4,500 2	4,500 2
197 ft (60m)	Hook Block Self-Weight (lbs) No. of Parts Line			6,900 2	4,500 2	4,500 2	4,500 2	4,500 2	4,500 2
217 ft (66m)	Hook Block Self-Weight (lbs) No. of Parts Line			6,900 2	4,500 2	4,500 2	4,500 2	4,500 2	4,500 2
236 ft (72m)	Hook Block Self-Weight (lbs) No. of Parts Line			6,900 2	4,500 2	4,500 2	4,500 2	4,500 2	4,500 2
256 ft (78m)	Hook Block Self-Weight (lbs) No. of Parts Line			6,900 2	4,500 2	4,500 2	4,500 2	4,500 2	4,500 2
276 ft (84m)	Hook Block Self-Weight (lbs) No. of Parts Line			6,900 3	4,500 2	4,500 2	4,500 2		

15. Lifting capacities listed apply only to the machine as originally manufactured and designed by KOBELCO CRANES CO.,LTD.

Modifications to this machine or use of equipment other than that specified can reduce operating capacity.

16. Designed and rated to comply with ASME Code B30.5.

Operation of this equipment in excess of rated loads or disregard of instruction voids the warranty.



LIFTING CAPACITIES

Luffing Boom Lifting Capacities											
Counterweight: 352,700 lbs, Carbody weight: 112,400 lbs, Crawler weight: 44,100 lbs											
79ft (24m) Boom			98ft (30m) Boom			118ft (36m) Boom			138ft (42m) Boom		
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
18.0	84.0	881,800 *	20.0	84.0	831,100 *	22.3	83.9	823,100 *	24.3	84.0	737,400 *
22.0	81.1	814,000 *	22.0	82.9	802,400 *	24.0	83.1	751,800 *	26.0	83.3	675,900 *
24.0	79.6	753,400 *	24.0	81.7	752,600 *	26.0	82.1	677,900 *	28.0	82.4	619,800 *
26.0	78.1	679,600 *	26.0	80.5	678,700 *	28.0	81.1	621,400 *	30.0	81.6	568,200 *
28.0	76.6	623,000 *	28.0	79.3	622,100 *	30.0	80.1	569,700 *	32.0	80.7	525,100 *
30.0	75.1	571,300 *	30.0	78.1	570,400 *	32.0	79.1	526,600 *	34.0	79.9	490,700 *
32.0	73.5	528,200 *	32.0	76.9	527,500 *	34.0	78.1	492,200 *	36.0	79.0	458,600 *
34.0	72.0	493,800 *	34.0	75.7	493,100 *	36.0	77.1	460,100 *	38.0	78.2	428,100 *
36.0	70.4	461,700 *	36.0	74.5	461,000 *	38.0	76.1	429,600 *	40.0	77.3	402,200 *
38.0	68.8	431,200 *	38.0	73.3	430,500 *	40.0	75.1	403,800 *	45.0	75.2	349,600 *
40.0	67.2	405,300 *	40.0	72.0	404,700 *	45.0	72.6	351,100 *	50.0	73.0	309,200 *
45.0	63.1	352,700 *	45.0	68.9	352,000 *	50.0	70.0	310,700 *	55.0	70.8	274,200 *
50.0	58.8	312,200 *	50.0	65.7	311,400 *	55.0	67.3	275,900 *	60.0	68.5	243,400 *
55.0	54.2	277,800 *	55.0	62.3	276,800 *	60.0	64.6	245,400 *	65.0	66.2	216,300 *
60.0	49.4	247,800 *	60.0	58.9	246,700 *	65.0	61.9	218,300 *	70.0	63.9	194,700 *
65.0	44.1	221,100 *	65.0	55.3	219,800 *	70.0	59.0	197,000 *	75.0	61.5	176,100 *
70.0	38.2	199,800 *	70.0	51.6	198,500 *	75.0	56.1	178,500 *	80.0	59.1	160,200 *
75.0	31.2	182,000 *	75.0	47.6	180,100 *	80.0	53.0	162,600 *	85.0	56.6	146,600 *
76.0	30.0	180,500	80.0	43.3	164,300 *	85.0	49.8	149,000 *	90.0	54.0	135,100 *
			85.0	38.6	150,800 *	90.0	46.4	137,700 *	95.0	51.3	124,900 *
			90.0	33.3	139,600 *	95.0	42.8	127,600 *	100.0	48.5	115,800 *
			93.0	30.0	134,900 *	100.0	38.9	118,600 *	110.0	42.5	100,800 *
						110.0	30.0	104,900 *	120.0	35.6	88,800 *
									127.0	30.0	82,600 *
reeves			reeves			reeves			reeves		
36(2x18)			32(2x16)			32(2x16)			28(2x14)		
157ft (48m) Boom			177ft (54m) Boom			197ft (60m) Boom			217ft (66m) Boom		
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
26.2	84.0	646,600 *	28.2	84.0	550,000 *	30.5	84.0	495,300 *	32.5	84.0	443,500 *
28.0	83.4	607,800 *	30.0	83.5	541,300 *	32.0	83.5	487,600 *	34.0	83.6	430,700 *
30.0	82.6	566,900 *	32.0	82.8	515,200 *	34.0	82.9	470,000 *	36.0	83.1	413,000 *
32.0	81.9	523,800 *	34.0	82.1	487,600 *	36.0	82.4	443,800 *	38.0	82.5	396,600 *
34.0	81.2	489,400 *	36.0	81.5	455,600 *	38.0	81.8	419,100 *	40.0	82.0	381,300 *
36.0	80.4	457,300 *	38.0	80.8	425,100 *	40.0	81.2	397,200 *	45.0	80.6	336,500 *
38.0	79.7	426,800 *	40.0	80.2	399,200 *	45.0	79.7	344,900 *	50.0	79.3	300,700 *
40.0	78.9	400,900 *	45.0	78.5	346,500 *	50.0	78.2	304,600 *	55.0	77.9	266,700 *
45.0	77.1	348,300 *	50.0	76.9	306,100 *	55.0	76.7	268,800 *	60.0	76.6	234,100 *
50.0	75.2	307,800 *	55.0	75.2	270,700 *	60.0	75.2	236,600 *	65.0	75.2	206,700 *
55.0	73.3	272,600 *	60.0	73.5	239,000 *	65.0	73.7	209,400 *	70.0	73.8	185,000 *
60.0	71.3	241,200 *	65.0	71.8	211,800 *	70.0	72.1	187,700 *	75.0	72.4	166,300 *
65.0	69.4	214,200 *	70.0	70.1	190,100 *	75.0	70.6	169,000 *	80.0	71.0	150,000 *
70.0	67.4	192,500 *	75.0	68.3	171,400 *	80.0	69.0	152,900 *	85.0	69.6	136,300 *
75.0	65.4	173,900 *	80.0	66.5	155,300 *	85.0	67.4	138,900 *	90.0	68.2	124,700 *
80.0	63.3	157,900 *	85.0	64.7	141,600 *	90.0	65.8	127,500 *	95.0	66.7	114,300 *
85.0	61.3	144,200 *	90.0	62.9	130,100 *	95.0	64.2	117,100 *	100.0	65.3	105,000 *
90.0	59.1	132,700 *	95.0	61.1	119,800 *	100.0	62.6	107,900 *	110.0	62.3	89,500 *
95.0	56.9	122,500 *	100.0	59.2	110,600 *	110.0	59.2	92,600 *	120.0	59.2	77,100 *
100.0	54.7	113,400 *	110.0	55.3	95,200 *	120.0	55.7	80,200 *	130.0	56.0	67,000 *
110.0	50.0	98,200 *	120.0	51.1	83,000 *	130.0	52.0	70,000 *	140.0	52.7	58,600 *
120.0	44.9	86,000 *	130.0	46.7	72,800 *	140.0	48.2	61,800 *	150.0	49.3	51,200 *
130.0	39.3	76,100 *	140.0	42.0	64,800 *	150.0	44.0	54,800 *	160.0	45.6	44,800 *
140.0	32.9	68,400 *	150.0	36.7	58,000 *	160.0	39.5	48,900 *	170.0	41.7	39,300 *
144.0	30.0	65,900 *	160.0	30.7	52,200 *	170.0	34.5	43,700 *	180.0	37.4	34,800 *
			161.0	30.0	52,000 *	178.0	30.0	40,500 *	190.0	32.7	31,000 *
									195.0	30.0	29,500 *
reeves			reeves			reeves			reeves		
24(2x12)			20(2x10)			20(2x10)			16(2x18)		

Note: Lifting capacities may vary depending on hook used or with/without auxiliary sheave. Please refer rated chart in operator's cabin. Loads enclosed in bold lines in the table require double-drum specifications.



SL4500G

Luffing Boom Lifting Capacities

Counterweight: 352,700 lbs, Carbody weight: 112,400 lbs, Crawler weight: 44,100 lbs

236ft (72m) Boom			256ft (78m) Boom								
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)						
34.4	84.0	377,800 *	36.4	84.0	319,000 *						
36.0	83.6	372,600 *	38.0	83.7	315,100 *						
38.0	83.1	367,500 *	40.0	83.2	312,200 *						
40.0	82.7	360,700 *	45.0	82.1	303,900 *						
45.0	81.4	323,000	50.0	81.0	278,900						
50.0	80.2	290,100	55.0	79.8	252,000						
55.0	79.0	259,800	60.0	78.7	227,400						
60.0	77.7	231,500	65.0	77.5	201,300						
65.0	76.5	204,300	70.0	76.4	179,600						
70.0	75.2	182,500	75.0	75.2	160,900						
75.0	73.9	163,600	80.0	74.0	144,700						
80.0	72.7	147,400	85.0	72.9	130,800						
85.0	71.4	133,700	90.0	71.7	119,200						
90.0	70.1	122,000	95.0	70.5	108,700						
95.0	68.8	111,600	100.0	69.3	99,300						
100.0	67.5	102,200	110.0	66.9	83,800						
110.0	64.8	86,800	120.0	64.4	71,100						
120.0	62.1	74,200	130.0	61.9	60,800						
130.0	59.2	63,900	140.0	59.3	51,800						
140.0	56.3	55,400	150.0	56.6	43,900						
150.0	53.3	47,800	160.0	53.8	37,100						
160.0	50.2	41,100	170.0	51.0	31,200						
170.0	46.9	35,400	180.0	48.0	26,500						
180.0	43.4	30,600	190.0	44.8	22,300						
190.0	39.7	26,600	200.0	41.5	18,700						
200.0	35.6	23,200	210.0	37.9	15,500						
210.0	31.0	20,300	220.0	34.0	13,200						
212.0	30.0	20,000	229.0	30.1	11,400						
reeves			reeves								
16(2x8)			12(2x6)								

Note: Lifting capacities may vary depending on hook used or with/without auxiliary sheave.
Please refer rated chart in operator's cabin.
Loads enclosed in bold lines in the table require double-drum specifications.



LIFTING CAPACITIES

Long Boom Lifting Capacities

Counterweight: 352,700 lbs, Carbody weight: 112,400 lbs, Crawler weight: 44,100 lbs

197ft (60m) Boom			217ft (66m) Boom			236ft (72m) Boom			256ft (78m) Boom		
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
27.9	84.0	250,200 *	29.9	84.0	250,200 *	31.8	84.0	219,100 *	34.1	84.0	219,100 *
28.0	83.9	250,200 *	30.0	84.0	250,200 *	32.0	84.0	219,100 *	36.0	83.5	218,000 *
30.0	83.4	250,200 *	32.0	83.4	250,200 *	34.0	83.5	219,100 *	38.0	83.1	216,800 *
32.0	82.8	250,200 *	34.0	82.9	247,500 *	36.0	83.0	219,100 *	40.0	82.6	214,000 *
34.0	82.2	249,100 *	36.0	82.4	243,000 *	38.0	82.5	219,100 *	45.0	81.5	198,000 *
36.0	81.6	247,300 *	38.0	81.8	238,500 *	40.0	82.0	217,600 *	50.0	80.4	183,700 *
38.0	81.0	245,600 *	40.0	81.3	233,300 *	45.0	80.8	206,100 *	55.0	79.2	168,800 *
40.0	80.4	242,200 *	45.0	79.9	215,300 *	50.0	79.6	191,700 *	60.0	78.1	153,200 *
45.0	78.9	224,300 *	50.0	78.6	199,500 *	55.0	78.3	175,900 *	65.0	76.9	139,100 *
50.0	77.4	208,100 *	55.0	77.2	183,300 *	60.0	77.1	159,800 *	70.0	75.8	126,800 *
55.0	75.9	191,400 *	60.0	75.9	166,600 *	65.0	75.8	145,100 *	75.0	74.6	116,100 *
60.0	74.4	174,300 *	65.0	74.5	151,600 *	70.0	74.6	132,600 *	80.0	73.5	106,800 *
65.0	72.9	158,500 *	70.0	73.1	138,700 *	75.0	73.3	121,700 *	85.0	72.3	98,200 *
70.0	71.4	145,500 *	75.0	71.7	127,500 *	80.0	72.0	112,000 *	90.0	71.1	91,200 *
75.0	69.8	133,800 *	80.0	70.3	117,700 *	85.0	70.7	103,300 *	95.0	69.9	84,700 *
80.0	68.3	123,600 *	85.0	68.9	108,600 *	90.0	69.5	95,700 *	100.0	68.7	78,600 *
85.0	66.7	115,500 *	90.0	67.5	100,800 *	95.0	68.1	89,000 *	110.0	66.3	68,100 *
90.0	65.1	107,100 *	95.0	66.0	94,000 *	100.0	66.8	83,100 *	120.0	63.8	59,800 *
95.0	63.4	99,500 *	100.0	64.6	87,800 *	110.0	64.2	71,900 *	130.0	61.3	52,300 *
100.0	61.8	92,700 *	110.0	61.6	76,300 *	120.0	61.4	62,500 *	140.0	58.7	45,600 *
110.0	58.4	81,100 *	120.0	58.5	66,700 *	130.0	58.6	54,700 *	150.0	56.0	39,700 *
120.0	54.9	71,400 *	130.0	55.3	58,600 *	140.0	55.7	48,100 *	160.0	53.2	34,600 *
130.0	51.2	63,000 *	140.0	52.0	51,700 *	150.0	52.7	42,100 *	170.0	50.4	30,300 *
140.0	47.4	55,800 *	150.0	48.6	45,500 *	160.0	49.6	36,800 *	180.0	47.4	26,400 *
150.0	43.2	49,400 *	160.0	44.9	40,100 *	170.0	46.3	32,200 *	190.0	44.2	22,700 *
160.0	38.8	43,900 *	170.0	41.0	35,400 *	180.0	42.8	28,100 *	200.0	40.9	19,600 *
170.0	33.8	38,900 *	180.0	36.7	31,300 *	190.0	39.0	24,800 *	210.0	37.3	16,500 *
177.0	30.0	35,700 *	190.0	32.0	27,500 *	200.0	34.9	21,600 *	220.0	33.4	13,700 *
			194.0	30.0	26,400 *	210.0	30.4	18,500 *	228.0	30.0	11,900 *
						211.0	30.0	18,200 *			
reeves			reeves			reeves			reeves		
9			9			8			8		

Note: Lifting capacities may vary depending on hook used or with/without auxiliary sheave.
Please refer rated chart in operator's cabin.



SL4500G

Long Boom Lifting Capacities

Counterweight: 352,700 lbs, Carbody weight: 112,400 lbs, Crawler weight: 44,100 lbs

276ft (84m) Boom			295ft (90m) Boom			315ft (96m) Boom					
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)			
36.1	84.0	187,800 *	38.1	84.0	167,300 *	40.0	84.0	116,800 *			
38.0	83.6	187,800 *	40.0	83.6	165,700 *	45.0	83.1	114,000 *			
40.0	83.2	187,700 *	45.0	82.6	161,800 *	50.0	82.2	111,200 *			
45.0	82.1	187,400 *	50.0	81.7	158,100 *	55.0	81.3	108,400 *			
50.0	81.1	176,800 *	55.0	80.7	151,100 *	60.0	80.3	105,700 *			
55.0	80.0	162,900 *	60.0	79.7	140,300 *	65.0	79.4	103,200 *			
60.0	79.0	148,300 *	65.0	78.7	127,200 *	70.0	78.5	100,700 *			
65.0	77.9	134,600 *	70.0	77.7	116,500 *	75.0	77.6	97,000 *			
70.0	76.8	123,100 *	75.0	76.7	106,800 *	80.0	76.6	91,800 *			
75.0	75.7	112,700 *	80.0	75.7	97,900 *	85.0	75.7	85,200 *			
80.0	74.7	103,300 *	85.0	74.7	90,000 *	90.0	74.7	79,000 *			
85.0	73.6	94,900 *	90.0	73.7	83,600 *	95.0	73.8	73,200 *			
90.0	72.5	88,100 *	95.0	72.7	77,600 *	100.0	72.9	68,100 *			
95.0	71.4	81,700 *	100.0	71.7	72,000 *	110.0	70.9	59,400 *			
100.0	70.3	75,900 *	110.0	69.6	62,100 *	120.0	69.0	51,900 *			
110.0	68.1	65,500 *	120.0	67.5	54,600 *	130.0	67.0	45,100 *			
120.0	65.8	57,500 *	130.0	65.4	47,800 *	140.0	65.0	38,900 *			
130.0	63.5	50,200 *	140.0	63.2	41,600 *	150.0	63.0	33,600 *			
140.0	61.1	43,500 *	150.0	61.0	35,900 *	160.0	60.9	29,500 *			
150.0	58.7	37,600 *	160.0	58.8	31,200 *	170.0	58.8	25,500 *			
160.0	56.2	32,700 *	170.0	56.5	27,200 *	180.0	56.7	21,700 *			
170.0	53.7	28,500 *	180.0	54.1	23,700 *	190.0	54.4	18,300 *			
180.0	51.1	24,800 *	190.0	51.7	20,200 *	200.0	52.2	15,500 *			
190.0	48.3	21,300 *	200.0	49.1	17,200 *	210.0	49.8	12,900 *			
200.0	45.4	18,200 *	210.0	46.5	14,400 *	220.0	47.4	10,400 *			
210.0	42.4	15,300 *	220.0	43.7	11,800 *	230.0	44.9	8,200 *			
220.0	39.2	12,700 *	230.0	40.8	9,500 *						
230.0	35.8	10,300 *	240.0	37.7	7,300 *						
240.0	32.0	8,100 *	243.0	36.8	6,800 *						
245.0	30.0	7,000 *									
reeves		7	reeves		6	reeves		4			

Note: Lifting capacities may vary depending on hook used or with/without auxiliary sheave.
Please refer rated chart in operator's cabin.



LIFTING CAPACITIES

Luffing Jib Lifting Capacities

Unit: lbs

Counterweight: 352,700 lbs, Carbody weight: 112,400 lbs, Crawler weight: 44,100 lbs

79ft (24m) Boom													
Load Radius (ft)	79ft (24m) Jib			98ft (30m) Jib			118ft (36m) Jib			138ft (42m) Jib			Load Radius (ft)
	Boom Angle (deg.)			Boom Angle (deg.)			Boom Angle (deg.)			Boom Angle (deg.)			
	86	76	66	86	76	66	86	76	66	86	76	66	
52.5	250,200 *			250,200 *									52.5
55	244,000			243,300									55
60	230,000			228,300			225,900 *						60
65	208,300			206,900			204,700 *						65
70	190,600			189,300			187,200			186,000			70
75	175,300	165,600		174,000			172,000			170,900			75
80	161,900	153,000		160,600			158,600			157,600			80
85	150,300	141,900		149,000			147,000			146,100			85
90	137,200	132,600		139,300	130,800		137,300			136,300			90
95		124,200		130,500	122,400		128,500	120,100		127,400			95
100			110,500	122,600	115,000		120,700	112,800		119,500	111,300		100
110			98,200	109,400	102,400		107,400	100,200		106,100	98,700		110
120					92,100	86,600	96,700	90,000		95,300	88,500		120
130						78,200		81,400	75,900	86,200	79,800		130
140									69,000	78,300	72,400	67,200	140
150									63,100	72,000	66,200	61,300	150
160											61,100	56,400	160
170												52,000	170
180													180
190													190
200													200
210													210
220													220
230													230
240													240
reeves	9			9			9			7			reeves
Load Radius (ft)	157ft (48m) Jib			177ft (54m) Jib			197ft (60m) Jib			217ft (66m) Jib			Load Radius (ft)
	Boom Angle (deg.)			Boom Angle (deg.)			Boom Angle (deg.)			Boom Angle (deg.)			
	86	76	66	86	76	66	86	76	66	86	76	66	
75	169,100												75
80	156,400			153,600			140,500						80
85	144,800			143,800			135,000						85
90	135,000			134,100			129,900						90
95	126,100			125,200			123,000			117,800 *			95
100	118,200			117,300			115,300			113,500 *			100
110	104,800			103,900			101,700			109,200			110
120	93,900	87,000		92,900			90,800			100,100			120
130	84,600	78,200		83,500	76,900		81,500	74,700		89,900			130
140	76,800	70,700		75,600	69,300		73,600	67,100		80,600	66,000		140
150	70,200	64,500		68,900	63,100		66,900	60,900		65,800	59,600		150
160	64,600	59,200	54,400	63,300	57,800		61,100	55,600		60,000	54,300		160
170		54,500	50,000	58,100	53,100	48,500	56,100	50,900		54,900	49,600		170
180			46,200	53,600 *	48,900	44,600	51,700 *	46,700	42,200	50,300 *	45,400		180
190			42,800	50,100 *	45,300	41,100	47,700 *	43,000	38,800	46,100 *	41,700		190
200					42,200	38,200	44,000 *	39,800	35,800	41,800 *	38,400	34,300	200
210						35,500		37,000	33,100	38,000 *	35,400	31,600	210
220											32,900	29,100	220
230												26,800	230
240												24,900	240
250													250
260													260
270													270
280													280
290													290
reeves	6			6			5			5			reeves

Note: Lifting capacities may vary depending on hook used or with/without auxiliary sheave.
Please refer rated chart in operator's cabin.



SL4500G

Luffing Jib Lifting Capacities

Unit: lbs

Counterweight: 352,700 lbs, Carbody weight: 112,400 lbs, Crawler weight: 44,100 lbs

98ft (30m) Boom

Load Radius Radius (ft)	79ft (24m) Jib			98ft (30m) Jib			118ft (36m) Jib			138ft (42m) Jib			Load Radius Radius (ft)
	Boom Angle (deg.)			Boom Angle (deg.)			Boom Angle (deg.)			Boom Angle (deg.)			
	86	76	66	86	76	66	86	76	66	86	76	66	
50													50
55	242,700			242,000									55
60	226,500			224,800			222,600 *						60
65	205,200			203,600			201,400 *						65
70	187,700			186,300			184,100			183,000			70
75	172,500			171,200			169,000			168,100			75
80	159,300	147,600		158,000			155,800			154,900			80
85	147,900	137,100		146,600			144,600			143,500			85
90	138,100	127,900		136,900	125,900		134,900			133,800			90
95		119,700		128,200	117,800		126,200			125,100			95
100		112,400		120,400	110,700		118,500	108,200		117,300			100
110		99,800		107,200	98,400		105,200	96,000		104,100			110
120					88,400		94,600	86,100		93,400	84,600		120
130								77,700		84,300	76,200		130
140								70,500	64,200	76,600	68,900		140
150								64,600	58,700	70,200	62,900		150
160									54,000		57,900	52,300	160
170												48,100	170
180													180
190													190
200													200
210													210
220													220
230													230
240													240
reeves	9			9			8			7			reeves

Load Radius Radius (ft)	157ft (48m) Jib			177ft (54m) Jib			197ft (60m) Jib			217ft (66m) Jib			Load Radius Radius (ft)					
	Boom Angle (deg.)			Boom Angle (deg.)			Boom Angle (deg.)			Boom Angle (deg.)								
	86	76	66	86	76	66	86	76	66	86	76	66						
75	166,200	83,000	50,300	151,300	73,300	44,600	129,600	64,700	39,100	114,200 *	62,500	30,900	75					
80	153,800			151,300									129,600	64,700	114,200 *	62,500	30,900	80
85	142,400			141,400									122,100	78,900	45,300 *	39,100	28,300	85
90	132,500			131,700									114,200	71,000	41,100	35,800	23,700	90
95	123,800			122,900									109,500	67,400	40,900	35,000	21,800	95
100	116,000			115,100									100,800	59,800	40,900	35,000	21,800	100
110	102,800			101,900									100,800	54,700	37,500	32,900	20,200	110
120	92,000			91,000									89,900	54,700	37,500	32,900	20,200	120
130	83,000			74,600									80,700	54,700	37,500	32,900	20,200	130
140	75,200			67,400									72,800	66,000	59,800	60,400	53,400	72,800
150	68,500	61,400	66,000	67,400	59,800	66,000	58,500	64,300	56,500	64,300	56,500	51,400	160					
160	63,000	56,200	61,700	61,700	54,700	60,400	53,400	58,600	51,400	58,600	51,400	51,400	160					
170		51,700	46,100	56,800	50,100	44,600	55,400	48,700	53,600	46,700	53,600	46,700	170					
180			42,400	52,400 *	46,100	40,900	51,100	44,600	39,100	49,100 *	42,600	30,900	180					
190			39,100	48,600 *	42,600	37,500	47,000	41,100	35,800	45,300 *	39,100	30,900	190					
200			36,400		39,600	34,700	43,600 *	37,900	32,900	41,900 *	35,900	30,900	200					
210						32,100		35,000	30,400	38,200 *	33,000	28,300	210					
220									28,100		30,500	25,900	220					
230									25,900		28,300	23,700	230					
240									24,100		26,300	21,800	240					
250												20,200	250					
260													260					
270													270					
280													280					
290													290					
reeves	6			6			5			4			reeves					

Note: Lifting capacities may vary depending on hook used or with/without auxiliary sheave.
Please refer rated chart in operator's cabin.