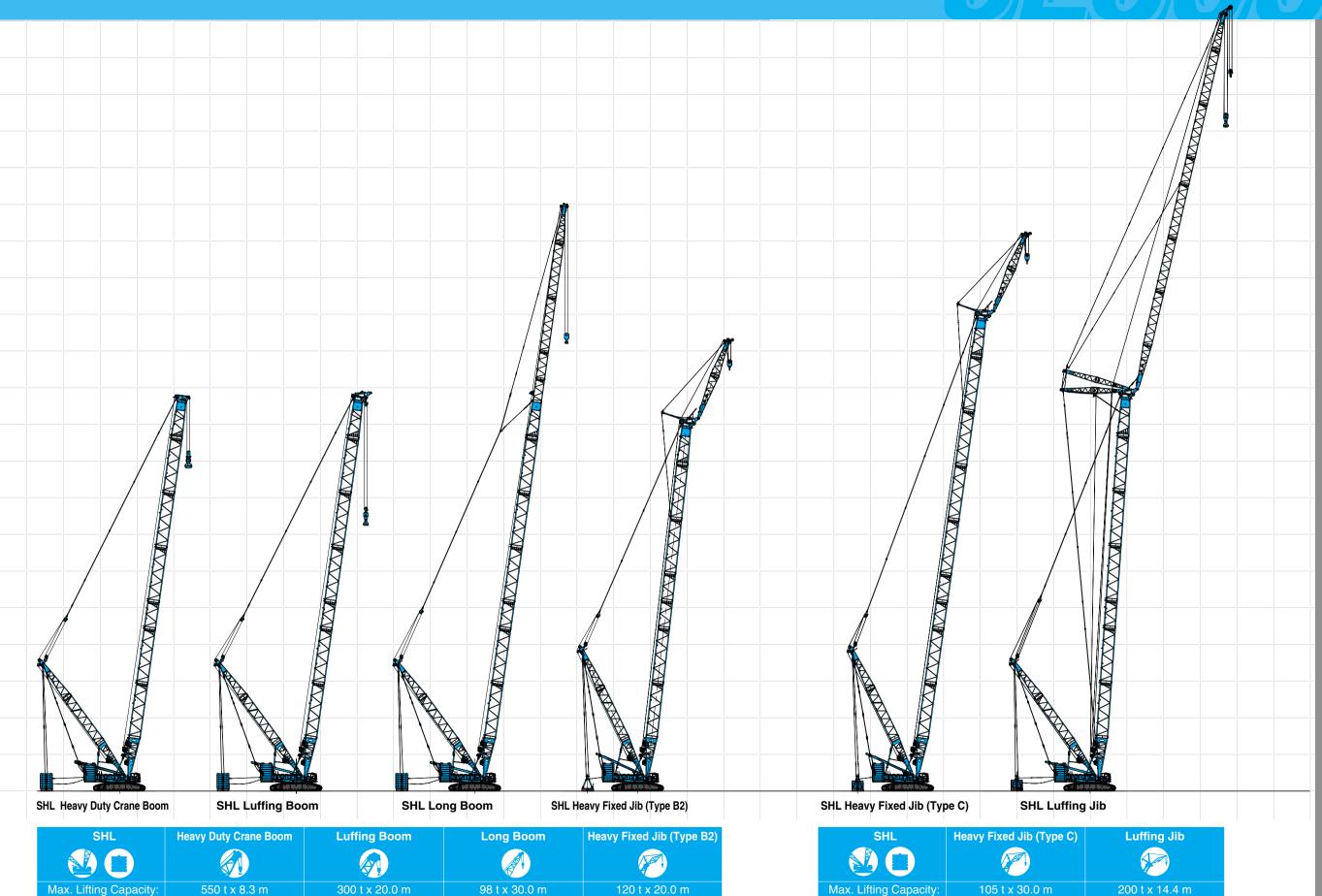
CONFIGURATION



78 m + 18 m

Max. Boom Length:

Max. Combination:

102 m + 18 m

\mathbf{a}		
/		

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STANDARD

Boom and Jib

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Max. Boom Length:

Max. Combination:

84 m

84 m

126 m

84 m + 84 m

SPECIFICATIONS



Power Plant

Model: Hino diesel engine E13C-WY

Type: Water-cooled, direct fuel injection, with turbocharger Exhaust level is equivalent with NRMM (Europe) Stage III B / US EPA Interim Tier 4.

Displacement: 12,913 liters

Rated Power: 320 kW/2,000 min⁻¹ (Max Power: 330 kW/1,800 min⁻¹)

Max. torque: 1,930 N·m/1,300 min⁻¹ Cooling system: Water-cooled

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

connected.

Fuel tank capacity: 600 liters



Hydraulic System

Seven variable displacement piston pumps are driven by heavy-duty pump drive. Two variable displacement pumps are used in H1 (main hook hoist) and right hand side propel circuit. Two variable displacement pumps are used in H2 (auxiliary hook hoist) and left 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. One displacement piston pump is used for W1 or W3 hoist speed up.

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

Max. relief valve pressure: 32.0 MPa {326 kgf/cm²} Hydraulic Tank capacity: 710 liters



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: Single line on first drum layer **Hoisting/Lowering:** 28~2 m/min x 2

Boom hoist reeving: 30 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 counterbalance valve.

Drum lock: External ratchet for locking drum.

Drums:

H1 and H2:

640 mm P.C.D. x 1,367 mm Lg. wide drum,

grooved for 28 mm wire rope. Rope capacity is 830 m storage length.

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

Line speed: 110 ~ 3 m/min

Single line on the first layer

Rated line pull: 137 kN {14.0 tf}



Swing System

Swing unit is powered by hydraulic motor driving spur gears through planetary reducers (4 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: 0.9 min⁻¹ {rpm}



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): 1,500 mm wide each crawler

Max. travel speed: 1.0/0.6 km/h

Max. gradeability: 20%



Weight

Including base machine, counterweights =200 metric ton, carbody weights = 50 metric ton, 24 m standard heavy duty boom and 450 metric ton hook block. Not include quick connection device and upper translifter.

Weight: 444 metric ton

Ground pressure: 142 kPa {1.5 kgf/cm²}

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Attachment

Boom and Jib:

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

Boom and Jib Length

Deciri and the Length				
Min. Length	Max. Length			
(Min. Combination)	(Max. Combination)			
24 m	84 m			
30 m	84 m			
90 m	108 m			
66 m + 18 m	78 m + 18 m			
30 m + 24 m	60 m + 72 m			
36 m	84 m			
36 m	84 m			
90 m	108 m			
66 m + 18 m	78 m + 18 m			
36 m + 24 m	66 m + 72 m			
36 m	84 m			
36 m	84 m			
90m	126 m			
66 m + 18 m	78 m + 18 m			
84 m + 18 m	102 m + 18 m			
36 m + 24 m	84 m + 84 m			
	24 m 30 m 90 m 66 m + 18 m 36 m 90 m 66 m + 18 m 36 m 90 m 66 m + 18 m 36 m 90 m 66 m + 24 m			

Main Specifications (Model: SL6000S)

Lift Enhancer		STD	HL	SI	ΗL
HL Mast		-	30 m	30	m
Additional Weight		-	-	~2	50 t
Heavy Duty Crane	Boom				
Max. Lifting Capaci	tv	450 t	370 t	55	0 t
Max. Lilling Capaci	ty	6.7 m	8.3 m	8.3	3 m
Length		24 ~ 84 m	36 ~ 84 m	36 ~	84 m
Luffing Boom					
May Lifting Canaci	t.	300 t	300 t	30	0 t
Max. Lifting Capacity		9.3 m	9.3 m	20.	0 m
Length		30 ~ 84 m	36 ~ 84 m	36 ~	84 m
Long Boom					
Length		90 ~ 108 m	90 ~ 108 m	90 ~ '	126 m
Max. Lifting Capacity		98 t	98 t	98	3 t
		18 m	20 m	30	m
Heavy Fixed Jib				*1	*2
May Lifting Consoi	4.	105 t	120 t	120 t	105 t
Max. Lilling Capaci	x. Lifting Capacity		20.0 m	20 m	30m
Max. Combination	(Boom)	78 m	78 m	78 m	102 m
	(Jib)	18 m	18 m	18 m	18 m
Luffing Jib					
Max. Lifting Capacity		195.1 t	200 t	20	0 t
		14 m	14.4 m	14.	4 m
Max. Combination	(Boom)	60 m	66 m	84	m
	(Jib)	72 m	72 m	84	m
Luffing Angle			66° ~ 86°	-	

Power Plant				
	Model	Hino E13C-WY		
	Engine Output	320 kW/2,000 min ⁻¹ {rpm}		
	Fuel Tank Capacity	600 liters		
	Hoist Winch (H1, H2)			
	Max. Line Speed	110 m/min (1st layer)		
	Rated Line Pull (Single line)	137 kN {14.0 tf}		
	Wire Rope Diameter	28 mm		
	Wire Rope Length	830 m		
	Working Speed			
Swing		0.9 min ⁻¹ {rpm}		
	Travel	1.0/0.6 km/h		
Hydraulic System				
	Pumps	7 variable displacement		
	Max. Pressure	32 MPa {326 kgf/cm ² }		
Hydraulic Tank Capacity	710 liters			
Weight Working Weight*3				
		Approx. 444 t		
	Ground Pressure*3	142 kPa {1.5 kgf/cm²}		
	Counterweight	Upper: 200 metric tons		
	Counterweight	Lower: 50 metric tons		

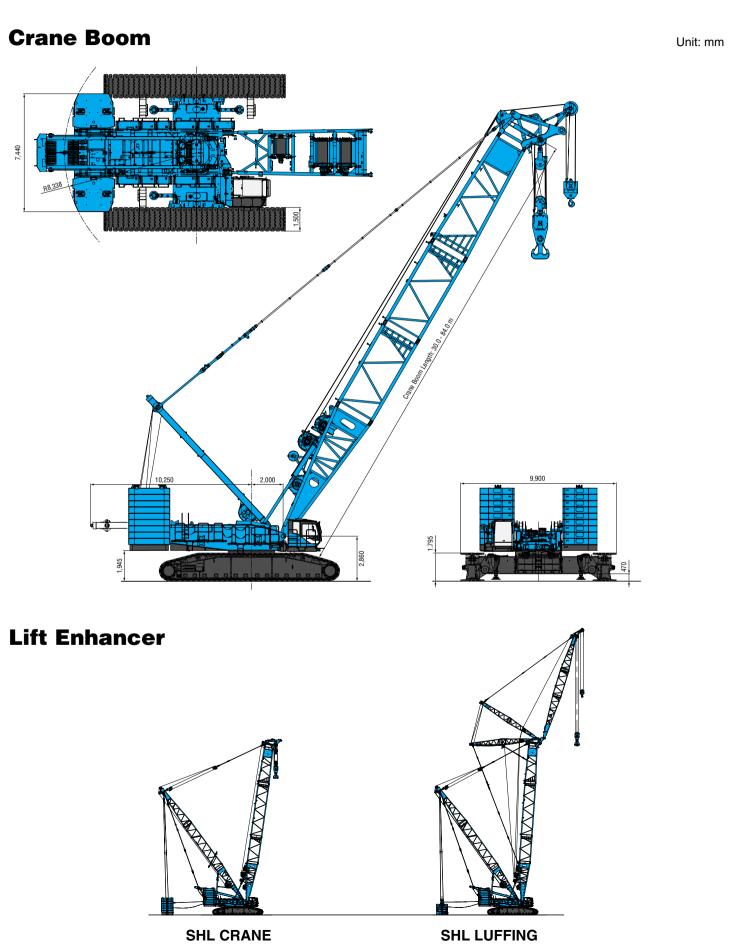
^{*1} Heavy Fixed Jib Type B2

SL6000S

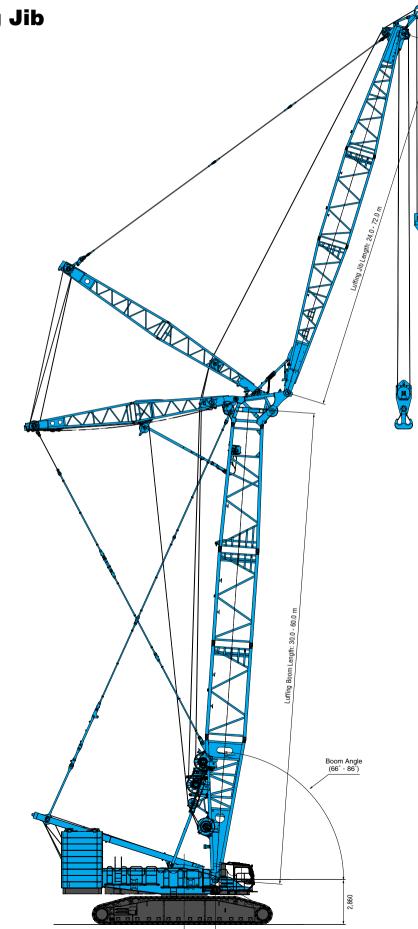
^{*2} Heavy Fixed Jib Type C

^{*3} Including base machine, counterweights =200 metric ton, carbody weights = 50 metric ton, 24 m boom with heavy boom tip and 450 metric ton hook block. Not include quick connection device and upper translifter.

GENERAL DIMENSIONS



Luffing Jib



Unit: mm

BOOM AND JIB ARRANGEMENTS

Heavy Duty Crane Boom Arrangements

Boom length m (ft)	Boom arrangement		
24 (79)	L 6.0 8T DHU		
30 (98)			
36 (117)			
42 (138)			
48 (157)			
54 (177)			
60 (197)			
66 (217)			
72 (236)			
78 (256)			
84 (276)			

Symbol	Boom Length	Remarks
	9.0 m (29.5 ft) Boom Base	
8T	8.0 m (26.2 ft)	Tapered Boom
6.0	6.0 m (19.7 ft) Insert Boon	
12.0	12.0 m (39.4 ft) Insert Boon	
□HU	1.0 m (3.3 ft) Boom To	

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

Luffing Boom Arrangements for Crane

Boom length m (ft)	Boom arrangement
30 (98)	
36 (118)	
42 (138)	
48 (157)	
54 (177)	L 6.0 6.0 12.0 12.0 8T LU L 12.0 12.0 8T LU
60 (197)	
66 (217)	
72 (236)	
78 (256)	**
84 (276)	

Boom Length	Remarks
9.0 m (29.5 ft)	Boom Base
8.0 m (26.2 ft)	Tapered Boom
6.0 m (19.7 ft)	Insert Boom
12.0 m (39.4 ft)	Insert Boom
1.0 m (3.3 ft)	Boom Top
	8.0 m (26.2 ft) 6.0 m (19.7 ft) 12.0 m (39.4 ft)

Long Boom Arrangements

Boom length m (ft)	Boom arrangement	
90 (295)	L 6.0 12.0 12.0 12.0 12.0 8T 5LT 6.0L UL	
96 (315)	**	
102 (335)	** L 6.0 6.0 12	
108 (354)	X L 6.0 6.0 12.0 12.0 12.0 12.0 8T 5LT 6.0L 12.0L UL	

Symbol	Boom Length	Remarks
	9.0 m (29.5 ft)	Boom Base
8T	8.0 m (26.2 ft)	Tapered Boom
6.0	6.0 m (19.7 ft)	Insert Boom
12.0	12.0 m (39.4 ft)	Insert Boom
5.0	5.0 m (16.4 ft)	Luffing Insert Jib
6.0	6.0 m (19.7 ft)	Luffing Insert Jib
12.0	12.0 m (39.4 ft)	Luffing Insert Jib
	8.0 m (26.2 ft)	Jib Top

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

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Heavy Fixed Jib Boom Arrangements

Boom length m (ft)	Boom arrangement	
66 (217)		
72 (236)		
78 (256)	**	

Symbol	Boom Length	Remarks
	9.0 m (29.5 ft)	Boom Base
8T	8.0 m (26.2 ft)	Tapered Boom
6.0	6.0 m (19.7 ft)	Insert Boom
12.0	12.0 m (39.4 ft)	Insert Boom
Úrn	1.0 m (3.3 ft)	Boom Top

- mark shows the guy line installing position when the fixed jib is used.
- ※ indicates the most flexible combination of insert luffing booms, which can be modified to form all shorter luffing boom arrangements.

Heavy Fixed Jib Arrangements

Jib length m (ft)	Jib arrangement
18 (59)	JL JU

Symbol	Jib Length	Remarks
JL	10.0 m (32.8 ft)	Jib Base
JU	8.0 m (26.2 ft)	Jib Top

Luffing Boom Arrangements for **Luffing**

Boom length m (ft)	Boom arrangement	
30 (98)		
36 (118)		
42 (138)		
48 (157)	★ L 6.0 12.0 12.0 8T LU	
54 (177)		
60 (197)	₩ <u>L 6.0 12.0 12.0 12.0 8T</u> LU	

Symbol	Boom Length	Remarks
	9.0 m (29.5 ft)	Boom Base
8T	8.0 m (26.2 ft)	Tapered Boom
6.0	6.0 m (19.7 ft)	Insert Boom
12.0	12.0 m (39.4 ft)	Insert Boom
[]LU	1.0 m (3.3 ft)	Boom Top

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

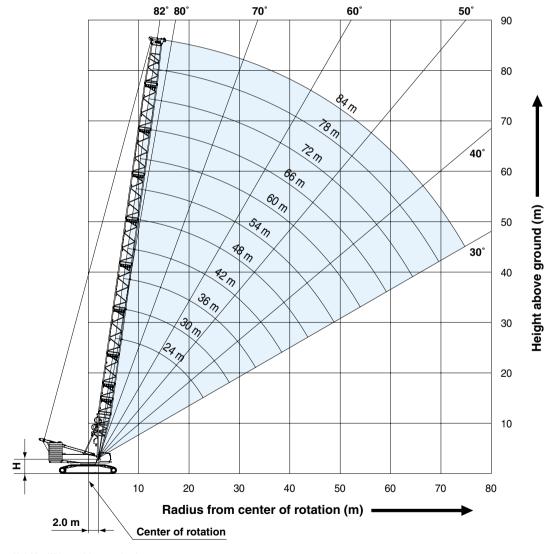
Luffing Jib Arrangements

Jib length m (ft)	Jib arrangement
24 (79)	L 60 JU
30 (98)	* 12.0 JU
36 (118)	* = 60 120 JU
42 (138)	* 12.0 12.0 JU
48 (157)	₩
54 (177)	* 12.0 12.0 12.0 JU
60 (197)	*
66 (217)	* L 6.0 6.0 1 12.0 12.0 12.0 JU
72 (236)	

Symbol	Jib Length	Remarks
JL	10.0 m (32.8 ft)	Jib Base
6.0	6.0 m (19.7 ft)	Luffing Insert Jib
12.0	12.0 m (39.4 ft)	Luffing Insert Jib
JU	8.0 m (26.2 ft)	Jib Top

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

WORKING RANGES Heavy Duty Crane Boom



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H=2.86 m Without quick connection ring H=3.08 m With quick connection ring

SL6000S